REVISIONS					
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4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
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E.O.R. Gorky F. Charpentier, P.E. No. 47523

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 / SR 90 PROJECT LAYOUT

SHEET NO. 34

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
ROADWAY PLAN

SHEET NO. 35

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
ROADWAY PLAN

SHEET NO. 36

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 ROADWAY PLAN

SHEET NO. 37

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 ROADWAY PLAN

SHEET NO. 38

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3/5/2004 3:41:48 PM

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
ROADWAY PLAN

SHEET NO. 39

REVISIONS					
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
ROADWAY PLAN

SHEET NO. 40

REVISIONS					
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 41

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3/11/2004 4:09:55 PM

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 42

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO: 43

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 44

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 45

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5/31/2004 4:59:32 PM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO.
82

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6/16/2004 1:12:07 PM

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/31/2007	MG	1 MODIFY PIPE LENGTH			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 DRAINAGE STRUCTURES

SHEET NO. 83

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Apr 3, 2007 - 3:30:26 PM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/31/2007	MG	1 ADD MANHOLE			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 DRAINAGE STRUCTURES

SHEET NO. 84

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	⚠ MODIFY DRAINAGE STRUCTURES			

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4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
Certificate Of Authorization No. 00007665
E.O.R. Donald Ambroise, P.E. No. 55462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 85

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6/6/2006 10:31:34 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
4/4/2006	MG	3 REMOVE UNDERDRAIN PIPE			

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4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
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E.O.R. Miguel R. Ciscar, P.E. No. 43244

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 86

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
12/9/2005	MG	2 MODIFY DRAINAGE STRUCTURES			

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 87

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 88

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 89

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 90

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REVISIONS					
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO.
91

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REVISIONS					
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 92

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
12/9/2005	MG	2 MODIFY DRAINAGE STRUCTURES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 102

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 103

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6/15/2004 9:43:27 AM

6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 104

6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 105

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6/15/09

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 106

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6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A1" DRAINAGE STRUCTURES

SHEET NO. 107

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6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A1" DRAINAGE STRUCTURES

SHEET NO. 108

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "B" DRAINAGE STRUCTURES

SHEET NO. 109

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "B" DRAINAGE STRUCTURES

SHEET NO. 110

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REVISIONS					
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "D1" DRAINAGE STRUCTURES

SHEET NO. III

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "D1" DRAINAGE STRUCTURES

SHEET NO. 112

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/24/2006	MG	△ MODIFY DRAINAGE STRUCTURE			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "D1" DRAINAGE STRUCTURES

SHEET NO. 113

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "D1" DRAINAGE STRUCTURES

SHEET NO. 114

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "E" DRAINAGE STRUCTURES

SHEET NO. 115

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
12/9/2005	MG	2 MODIFY DRAINAGE STRUCTURES			

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "E" DRAINAGE STRUCTURES

SHEET NO. 116

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
Certificate Of Authorization No. 00007665
E.O.R. Gorky F. Charpentier, P.E. No. 47523

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 117

6/28/2004 1:17:23 PM K:\DGN\Drainage\Drainage\S90_S78.dgn

REVISIONS					
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 118

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2-25-08	TS	ASBUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 119

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/30/2006	MG	3 MODIFY DRAINAGE STRUCTURE			

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 120

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/30/2006	MG	3 MODIFY DRAINAGE STRUCTURE			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 121

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 122

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/27/2007	MG	△1 ADJUST GRATE ELEVATION			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 123

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4/3/2007 5:38:25 PM

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
4/4/2007	MG	△1 MOVE STRUCTURE S-91 SOUTH			
6/13/2007	MG	△2 MOVE END WALL SOUTH			
2-28-08	TS	ASBUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 124

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2-25-08	TS	ASBUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 125

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2-25-08	TS	ASBUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 126

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6/15/2004

S-98

STA. 8+58.14 (19.00' LT)
INLET TYPE P-3 (BOTTOM)
CONC SLAB & GRATE (TOP)
GRATE EL. 7.11
FL. 4.22 (E), 3.55 (N)
BOTTOM EL. 1.22
INDEX No. 200, 201 & SPECIAL

S-97

STA. 8+73.24 (15.42' RT)
CONST. DITCH BOTTOM INLET TYPE F
GRATE EL. 7.68
FL. 4.65 (W)
BOTTOM EL. 2.65
INDEX No. 200, 201 & 233

S-98

S-97

1901+63.21 (81.33' LT)
STA. ~~1901+56.95 (184.46' LT)~~
CONST. STRAIGHT CONCRETE ENDWALL
WITH MANATEE EXCLUSION GRATE
(GUARD AT PIPE END)
FL. (-)1.10
INDEX No. 250 & 280

S-99A

STA. 1902+14.94 (156.93' LT)
CONST. DITCH BOTTOM INLET TYPE H
W/ TYPE J BOTTOM (4' x 7'-8")
WITH POLLUTION RETARDANT (S)
GRATE EL. 5.00
FL. (-)1.00 (S)
BOTTOM EL. (-)4.50
~~INDEX No. 200, 201, 232 &~~
MISCELLANEOUS DRAINAGE DETAILS

S-99A

SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

1/18/07

2-25-08

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
9/11/2006	MG	1 MODIFY DRAINAGE STRUCTURE			
12/14/2006	MG	2 MODIFY DRAINAGE STRUCTURE			
2-25-08	TS	ASBUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 127

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SG 2-25-08

9/17/06

A2 GROUP, INC.
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FILE:
SPEC:

SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7/17/2006	MG	4 MODIFY DRAINAGE STRUCTURE			
2-28-08	TS	ASBUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 128

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A² GROUP, INC.
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Trend Allowance
2-25-08

7/17/07

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7/17/2006	MG	4 MODIFY DRAINAGE STRUCTURE			
6/22/2007	MG	5 REMOVE DRAINAGE STRUCTURE S-106			
2-28-08	TS	AS BUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 129

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/22/2007	MG	3 MODIFY DRAINAGE STRUCTURE			

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DEPARTMENT OF TRANSPORTATION

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SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 130

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STA. 314+00.01 TO STA. 321+50.00 (LT)

N.T.S.

UNDERDRAIN

NOTE: FILTER FABRIC AND BALLAST ROCK SHALL BE INCLUDED UNDER PAY-ITEM NO. 440-1-20.

DETAIL OF REINFORCEMENT AT WALL CORNERS & WEIR ENDS

DETAIL 1

N.T.S.

DETAIL OF REINFORCEMENT @ WALL OPENING

DETAIL 2

N.T.S.

ELEVATION VIEW

PLAN VIEW

N.T.S.

SECTION A-A

N.T.S.

ELEVATION VIEW

BOTTOM CONNECTION DETAILS FOR

BARRIERL WALL INLET (SPECIAL) OR MANHOLE (SPECIAL)

N.T.S.

NOTES:

1. CONCRETE: CLASS II F'C =3400 PSI.
2. REINFORCING STEEL ASTM A615 GRADE 60
3. FOR ADDITIONAL NOTES & DETAILS SEE FDOT STANDARD INDEX NOS. 200, 201, 211 & 285.
4. FOR FLOW LINE ELEV. SEE DRAINAGE STRUCTURES SHEETS.
5. FOR DETAILS OF REINF. AT WALL CORNERS & AT WALL OPENING SEE THIS SHEET.
6. MODIFICATION TO BE PAID UNDER ASSOCIATED INLET OR MANHOLE PAY ITEM.

NOTE: FOR STEEL REINFORCEMENT AND ADDITIONAL DETAIL SEE FDOT INDEX No 200.

FRENCH DRAIN CROSS SECTION

N.T.S.

FOR ADDITIONAL DETAILS SEE INDEX 285

* Varies, See Plans

Structure Number	Inlet Grate EL.	Manhole Grate EL.	Bottom EL.	Outfall Inv. EL.	Outfall Diameter	Box Size
S-38	5.0	4.0	(-) 5.0	(-) 1.5	42"	7'X 7'8".
S-38A	5.0	4.0	(-) 0.5	(-) 1.5	42"	7'X 7'8".
S-38B	5.0	4.0	(-) 0.5	(-) 1.5	42"	7'X 7'8".
S-65	5.0	4.0	(-) 5.35	(-) 1.85	43" X 68"	7'X 8'9"
S-74	5.0	4.0	(-) 7.00	(-) 3.50	60"	7'X 7'8".

POLLUTION

CONTROL STRUCTURE DETAIL

4/10/07

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
12/9/2005	MG	2 MODIFY SPECIAL STRUCTURE			
4/4/2006	CV	3 MODIFY UDERDRIAN STRUCTURE			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 131

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

WET RETENTION POND A-1

SHEET NO. 78

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SECTION C-C
NTS

SECTION B-B
NTS

SECTION D-D
NTS

6/11/04

SECTION A-A
NTS

REVISIONS					
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SR 826	MIAMI-DADE	249649-1-52-01

WET RETENTION POND D-1

SHEET NO. 79

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SECTION B-B
NTS

SECTION C-C
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SECTION D-D
NTS

SECTION A-A
NTS

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6/22/2007	MG	8 MODIFY BERM ELEVATIONS			

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SR 826	MIAMI-DADE	249649-1-52-01

WET RETENTION POND E

SHEET NO. 80

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
CROSS SECTION PATTERN

SHEET NO.
135

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Canal Exc. A	Canal Exc. V	Partial Water Fill A	Partial Water Fill V	Rdwy Exc. A	Rdwy Exc. V	Rdwy Fill A	Rdwy Fill V
				61.1		115	
					93		252
				38.9		157.3	
					45		200
				30.2		151.8	
					0		0

6/11/04

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP B CROSS SECTIONS

SHEET NO. 201

Canal Exc. A	Canal Exc. V	Partial Water Fill A	Partial Water Fill V	Rdwy Exc. A	Rdwy Exc. V	Rdwy Fill A	Rdwy Fill V
				222.3		26.2	
					394		48
				203.1		25.5	
					308		64
				129.3		43.6	
					203		108
				89.5		73.3	
					139		174

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP B CROSS SECTIONS

SHEET NO. 202

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Canal Exc. A	Canal Exc. V	Partial Water Fill A	Partial Water Fill V	Rdwy Exc. A	Rdwy Exc. V	Rdwy Fill A	Rdwy Fill V
				148.1		43.4	
					333		76
				211.9		38.6	
					412		64
				232.9		30.7	
					471		56
				275.3		29.7	
					461		52

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RAMP B CROSS SECTIONS

SHEET NO. 203

Canal Exc. A	Canal Exc. V	Partial Water Fill A	Partial Water Fill V	Rdwy Exc. A	Rdwy Exc. V	Rdwy Fill A	Rdwy Fill V
				11.9		51.9	
					27		102
				17		57.8	
					65		113
				53.4		64.7	
					149		108
				107.4		51.6	
					237		88

6/11/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

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RAMP B CROSS SECTIONS

SHEET NO. 204

Canal Exc. A	Canal Exc. V	Partial Water Fill A	Partial Water Fill V	Rdwy Exc. A	Rdwy Exc. V	Rdwy Fill A	Rdwy Fill V
				116.3		32.8	
					148		69
				43.9		41.3	
					53		73
				13.2		37.8	
					27		72
				16		39.6	
					26		85

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP B CROSS SECTIONS

SHEET NO. 205

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SUMMARY OF EARTHWORK RAMP "B"

DESCRIPTION	CY P	CY F
ROADWAY FILL	1,861	
PARTIAL WATER FILL	0	
TOTAL FILL	1,861	
RDWY EXCAVATION	3,881	
CANAL EXCAVATION	0	

Canal Exc.		Partial Water Fill		Rdwy Exc.		Rdwy Fill	
A	V	A	V	A	V	A	V
				197.4		28.3	
					290		57

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SR 826	MIAMI-DADE	249649-1-52-01

RAMP B CROSS SECTIONS

SHEET NO. 206

	Canal Exc.		Partial Water Fill		Rdwy Exc.		Rdwy Fill	
	A	V	A	V	A	V	A	V
1887+00.00	0.0	0	0.0	0	12.5	19	21	27
1886+50.00	0.0	0	0.0	0	8.5	4	8.4	3
1886+36.00	0.0		0.0		6.5		4.5	

6/11/04

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

CORRADINO
4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
Certificate Of Authorization No. 00007665
E.O.R. Gorky F. Charpentier, P.E. No. 47523

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

SR 90
CROSS SECTIONS

SHEET NO.
220

	Canal Exc. A	Canal Exc. V	Partial Water Fill A	Partial Water Fill V	Rdwy Exc. A	Rdwy Exc. V	Rdwy Fill A	Rdwy Fill V
1888+50.00	0.0	0	0.0	0	137.4	160	61	89
1888+00.00	0.0	0	0.0	0	35.8	67	34.8	61
1887+50.00	0.0	0	0.0	0	36.9	46	31	48

6/11/04

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

CORRADINO
4055 N.W. 97th Avenue, Miami, Florida, 33178
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

SR 90
CROSS SECTIONS

SHEET NO. 221

System 14, 15, & 16 – Reference Data

Excerpts from SFMWD ERP No. 13-04284-P
Excerpts from SFMWD ERP No. 13-02339-P

Excerpts from FDOT Records Plans for FM No. 249581-1-52-01
Excerpts from FDOT Records Plans for FM No. 249649-1-52-01

FORM #0157
Rev. 07/09

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
PERMIT MODIFICATION NO. 13-04284-P
DATE ISSUED: APRIL 23, 2012

PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT VI
(SR 826 / SR 836 INTERCHANGE IMPROVEMENTS PROJECT)
1000 N W 111TH AVENUE,
MIAMI, FL 33172

ORIGINAL PERMIT ISSUED: DECEMBER 2, 2008

ORIGINAL PROJECT DESCRIPTION: CONSTRUCTION AND OPERATION OF A SURFACE WATER MANAGEMENT SYSTEM TO SERVE A 720.62 ACRE ROADWAY PROJECT KNOWN AS SR 826/ SR 836 INTERCHANGE.

APPROVED MODIFICATION: MODIFICATION OF A SURFACE WATER MANAGEMENT SYSTEM TO SERVE A 546.64-ACRE ROADWAY IMPROVEMENT PROJECT KNOWN AS SR 826/SR 836 INTERCHANGE IMPROVMENTS PROJECT.

PROJECT LOCATION: MIAMI-DADE COUNTY , SECTION 34-36,51-53 TWP 53S RGE 40E
SECTION 2,3 TWP 54S RGE 40E

PERMIT DURATION: See Special Condition No:1. Pursuant to Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Permit Application No. 110810-1, dated August 10, 2011. This action is taken pursuant to the provisions of Chapter 373, Part IV, Florida Statutes (F.S.), and the Operation Agreement Concerning Regulation Under Part IV, Chapter 373 F.S., between South Florida Water Management District and the Department of Environmental Protection.

Based on the information provided, District rules have been adhered to and an Environmental Resource Permit Modification is in effect for this project subject to:

1. Not receiving a filed request for an administrative hearing pursuant to Section 120.57 and Section 120.569, or request a judicial review pursuant Section 120.68, Florida Statutes.
2. The attached 19 General Conditions.
3. The attached 17 Special Conditions.
4. The attached 4 Exhibits.

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Should you wish to object to the proposed agency action or file a petition, please provide written objections, petitions and/or waivers to:

Elizabeth Veguilla, Deputy Clerk, MSC2440
South Florida Water Management District
Post Office Box 24680
West Palm Beach, FL 33416-4680

Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

CERTIFICATION OF SERVICE

I HEREBY CERTIFY that the Staff Report, Conditions and Notice of Rights have been mailed to the Permittee (and the persons listed on the attached staff report distribution list) no later than 5:00 p.m. on this 24th day of April, 2012, in accordance with Section 120.60(3), Florida Statutes, and a copy has been filed and acknowledged with the Deputy District Clerk.

By Elizabeth Veguilla
DEPUTY CLERK
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Attachments

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on April 23, 2017.

2. Operation of the surface water management system shall be the responsibility of the permittee.

3. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.

4. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.

5. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

6. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.

7. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

8. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.

9. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.

10. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.

11. The permittee shall comply with the following conditions intended to protect manatees and marine turtles from direct project effects:

    a. All personnel associated with the project shall be instructed about the presence of marine turtles, manatees and manatee speed zones, and the need to avoid collisions with and injuries to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

    b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

    c. Siltation or turbidity barriers shall be made of material in which manatees and marine turtles cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee and marine turtle entanglement or entrapment. Barriers must not impede manatee movement.

    d. All on-site project personnel are responsible for observing water-related activities for the presence of marine turtles and manatee(s). All in-water operations, including vessels, must be shutdown if a marine turtle or manatee(s) comes within 50 feet of the operation. Activities will not resume until the animal(s) have moved beyond the 50-foot radius of

the project operation, or until 30 minutes elapses if the animal(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a marine turtle or manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) for south Florida.

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Awareness signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used. One sign measuring at least 3 ft. by 4 ft. which reads Caution: Manatee Area must be posted. A second sign measuring at least 81/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities.

12. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, human remains or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area and specifically in the vicinity of 7455-7457 NW 8th Street , the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

13. In accordance with the work schedule, the permittee shall submit verification from the Florida Department of Environmental Protection (FDEP) that 0.3 freshwater herbaceous has been debited from the FPL Everglades Mitigation Bank ledger as mitigation for this impact.

14. Manatee exclusion grates shall be placed across the openings of existing or proposed culverts or pipes that are greater than eight inches but smaller than eight feet in diameter. The installation of grates applies to any submerged or partially submerged pipes and culverts accessible to manatees. Permittee shall keep all grates free and clear of debris.

15. Reference is made to Exhibit No. 2 by the Florida Department of Transportation, Project ID 249581-1-52-01, SR-826/SR-836 Interchange. The plan set consisting of drainage plans and detail sheets have been signed and sealed by Jose Munoz P.E., of BCC Engineering, Inc. on 4-5-11 and have been incorporated in this permit by reference (please see permit file).

16. Endangered species, threatened species and/or species of special concern have been observed onsite and/or the project contains suitable habitat for these species. It shall be the permittee's responsibility to coordinate with the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service for appropriate guidance, recommendations and/or necessary permits to avoid impacts to listed species.

17. To prevent manatee access into the construction area, a temporary barrier as designed in Exhibit 3 "Temporary Manatee Barrier" attached as part of this permit shall be constructed across the Northline Canal just south of NW 7th Street prior to commencement of construction related to installation of the 14' 7" x 21' 5" arch pipe at that location.

    The temporary barriers across the Northline Canal at NW 21rst Street and at NW 7th Street shall be removed upon completion of construction, but not until that time. To prevent manatee access into the construction area, the permittee shall maintain the temporary barriers and repair any damage that may occur to the barriers, until construction is completed. The temporary barriers shall be monitored weekly for damage to, or possible breach of, the barrier by manatees into the construction area. If a manatee becomes entangled in the barrier, or breaches the barrier into the construction area, the Flrida Fish and Wildlife Conservation Commission shall be notified immediately at 1-888-404-FWCC.

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373. F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved

responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does <u>not</u> constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office**. An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

Initiation of an Administrative Hearing
Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation
The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-.405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW
Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

FINAL APPROVED BY EXECUTIVE DIRECTOR APRIL 23, 2012

Last Date For Agency Action: May 28, 2012

INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: S R 826 / S R 836 Interchange Improvements Project

Permit No.: 13-04284-P

Application No.: 110810-1 13-04168-W Related SFWMD PERMIT

Application Type: Environmental Resource (Construction/Operation Modification)

Location: Miami-Dade County, S2,3/T54S/R40E
S34-36,51-53/T53S/R40E

Permittee : Florida Department Of Transportation District Vi

Operating Entity : Permittee

Project Area: 546.64 acres

Project Land Use: Highway

Drainage Basin: C-4

Receiving Body: Fontainebleau Canal, Northline Canal, Venetian Canal, C-4 Canal, Lake Joanne, Blue Lagoon Lake

Special Drainage District: NA

Conservation Easement To District : No

Sovereign Submerged Lands: No

PROJECT PURPOSE:

This application is a request for modification of a surface water management system to serve a 546.64-acre roadway improvement project known as SR 826/SR 836 Interchange Improvments Project.

PROJECT EVALUATION:

PROJECT SITE DESCRIPTION:

The project site is the SR 826/SR 836 Interchange located in Miami-Dade County. The limits along SR 826 are from 1,270 feet south of Flagler Street to 1,375 feet south of NW 25th Street. The limits along SR 836 (Dolphin Expressway) are from NW 87th Avenue to NW 57th Avenue. A total of 0.103 acre of impacts to degraded wetlands are proposed as part of the current application.

PROJECT BACKGROUND:

Improvements to the SR 826/SR 836 Interchange were originally approved on December 2, 2008 (App No. 080214-6) for a 720.62-acre project area of the Interchange.

A letter modification was issued on March 9, 2010 (App No. 100209-8) for design modifications to the Northline Canal relocation as originally authorized under Application No. 080214-6.

A standard permit modification was issued on December 22, 2010 (App No. 100929-29) for design modifications to Bridge No. 2 as originally authorized under Application No. 080214-6.

This application constitutes a redesign of the original improvements project. The project site area has been reduced from 720.62-acres to 546.64-acres with the removal of Drainage System 800 from the original scope of the project.

PROPOSED PROJECT:

This application is a request for the construction and operation of a surface water management system to serve a 546.64-acre roadway improvement project known as SR 826/SR 836 Interchange Improvements Project. The proposed surface water management system has been divided into seven (7) sub-basins. Each sub-basin will have its own independent surface water management system which will consist of inlets, culverts, swales, dry retention areas and exfiltration trench which will provide water quality treatment and attenuation prior to overflow to surrounding canals and lakes.

The SR 826/SR 836 Interchange project consists of approximately 5.4-miles of roadway corridor improvements including pavement resurfacing, bridge rehabilitation, roadway reconstruction and the relocation of a segment of the Northline Canal.

LAND USE:

The following land use tables represent post-development basins. The existing Drainage System 300 has been merged into the post-development Drainage System 400. Drainage System 800 has been omitted from this project as originally authorized under Application No. 080214-6.

Construction:

Basin : Drainage System 100

	Total Basin	
Dry Retention Areas	13.89	acres
Impervious	35.67	acres
Pervious	24.97	acres

Basin : Drainage System 100

	Total Basin
Total:	**74.53**

Basin : Drainage System 200

	Total Basin	
Dry Retention Areas	9.13	acres
Impervious	114.05	acres
Pervious	36.46	acres
Total:	**159.64**	

Basin : Drainage System 400

	Total Basin	
Dry Retention Areas	5.38	acres
Impervious	31.87	acres
Pervious	8.45	acres
Total:	**45.70**	

Basin : Drainage System 500

	Total Basin	
Dry Retention Areas	7.70	acres
Impervious	51.02	acres
Pervious	9.41	acres
Total:	**68.13**	

Basin : Drainage System 600

	Total Basin	
Dry Retention Areas	.00	acres
Impervious	1.03	acres
Pervious	.00	acres
Total:	**1.03**	

Basin : Drainage System 700

	Total Basin	
Dry Retention Areas	.12	acres
Impervious	21.02	acres
Pervious	11.64	acres
Total:	**32.78**	

Basin : Drainage System 900

	Total Basin	
Dry Retention Areas	3.64	acres
Impervious	65.57	acres
Pervious	95.62	acres
Total:	**164.83**	

WATER QUANTITY :

Discharge Rate :

The applicant has submitted analysis which demonstrates that the post-development peak discharge rate for the 25-year 3-day design storm event will not exceed the existing condition.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD 29)	WSWT Ctrl Elev (ft, NGVD 29)	Method Of Determination
Drainage System 100	74.53	4	4.00	Previously Permitted
Drainage System 200	159.64	3	3.00	Previously Permitted
Drainage System 400	45.70	3	3.00	Previously Permitted
Drainage System 500	68.13	3	3.00	Previously Permitted
Drainage System 600	1.03	3	3.00	Previously Permitted
Drainage System 700	32.78	3	3.00	Previously Permitted
Drainage System 900	164.83	3	3.00	Previously Permitted

WATER QUALITY :

The required water quality treatment (2.5" times percent impervious) will be provided within numerous dry retention areas and exfiltration trench and numerous dry retention areas which will discharge to surrounding canals and lakes (see Receiving Body).

A turbidity control plan will be implemented during construction to ensure state water quality standards are maintained during project construction. Based on these provisions, no adverse water quality impacts are anticipated as a result of the proposed project.

Basin		Treatment Method	Vol Req.d (ac-ft)	Vol Prov'd
Drainage System 100	Treatment	Dry Retention	2.5	2.5
Drainage System 200	Treatment	Dry Retention And Trench	9.27	9.27
Drainage System 400	Treatment	Dry Retention	3.25	3.25
Drainage System 500	Treatment	Dry Retention	3.16	3.16
Drainage System	Treatment	Swale	.1	.1

Basin		Treatment Method	Vol Req.d (ac-ft)	Vol Prov'd
600 Drainage System	Treatment	Dry Retention	1.76	1.76
700 Drainage System	Treatment	Dry Retention	2.27	2.27
900				

WETLANDS:

As part of the original permit for the SR 826/SR 836 Interchange, a total of 0.051 mitigation credits were purchased from the Everglades Mitigation Bank to offset impacts to Wetlands W-16 and W-19. The roadway construction plans have been subsequently modified. The applicant now proposes an additional 0.103 acre of wetland impact to Wetland W-16. Based on previously approved wetland mitigation functional assessments, this will be offset through the purchase of an additional 0.03 mitigation credit from the FPL Mitigation Bank (Exhibit 3).

Wildlife Issues:

The proposed roadway expansion will discharge into several regional canals and intersect a portion of an existing lake within the Blue Lagoon development (13-01066-P). These regional canals and lake are used by local manatee populations. District staff has coordinated with the Florida Fish and Wildlife Conservation Commission (FFWCC), Bureau of Protected Species Management for guidance and recommendations regarding the proposed project activities and measures necessary to ensure manatee protection. As provided in the enclosed Special Conditions and Exhibits, necessary precautions shall be taken during in-water project-related construction conditions and in the design of project outfalls to ensure protection of manatees. These measures include the use of manatee exclusion grates, following standard manatee in-water work conditions, and installation of a temporary manatee exclusion barrier during construction. This permit does not relieve the applicant from complying with all applicable rules and any other agencies' requirements if, in the future, endangered/threatened species or species of special concern are discovered on the site.

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

It is suggested that the permittee retain the services of a Professional Engineer registered in the State of Florida for periodic observation of construction of the surface water management (SWM) system. This will facilitate the completion of construction completion certification Form #0881 which is required pursuant to Section 10 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, and Rule 40E-4.361(2), Florida Administrative Code (F.A.C.).

Pursuant to Chapter 40E-4 F.A.C., this permit may not be converted from the construction phase to the operation phase until certification of the SWM system is submitted to and accepted by this District. Rule 40E-4.321(7) F.A.C. states that failure to complete construction of the SWM system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization unless a permit extension is granted.

For SWM systems permitted with an operating entity who is different from the permittee, it should be noted that until the permit is transferred to the operating entity pursuant to Rule 40E-1.6107, F.A.C., the permittee is liable for compliance with the terms of this permit.

The permittee is advised that the efficiency of a SWM system will normally decrease over time unless the system is periodically maintained. A significant reduction in flow capacity can usually be attributed to

partial blockages of the conveyance system. Once flow capacity is compromised, flooding of the project may result. Maintenance of the SWM system is required to protect the public health, safety and the natural resources of the state. Therefore, the permittee must have periodic inspections of the SWM system performed to ensure performance for flood protection and water quality purposes. If deficiencies are found, it is the responsibility of the permittee to correct these deficiencies in a timely manner.

RELATED CONCERNS:

Water Use Permit Status:

Water Use dewatering permit number 13-04168-W has been issued for this project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

CERP:

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Potable Water Supplier:

Not Applicable

Waste Water System/Supplier:

Not Applicable

Right-Of-Way Permit Status:

A District Right-of-Way Permit is not required for this project.

DRI Status:

This project is not a DRI.

Historical/Archeological Resources:

The District has received correspondence from the Florida Department of State, Division of Historical Resources indicating that archaeological or historical resources are recorded in the project area. Specifically, the project is located in the vicinity of site 8DA1073. As a result, the Federal Highway Administration has coordinated with the Division of Historical Resources and has proposed monitoring this location.

If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, human remains or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area and specifically in the vicinity of 7455-7457 NW 8th Street , the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

DEO/CZM Consistency Review:

The issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

Third Party Interest:

No third party has contacted the District with concerns about this application.

Enforcement:

There has been no enforcement activity associated with this application.

STAFF RECOMMENDATION TO EXECUTIVE DIRECTOR:

The Staff recommends that the following be issued :

Modification of a surface water management system to serve a 546.64-acre roadway improvement project known as SR 826/SR 836 Interchange Improvments Project.

Based on the information provided, District rules have been adhered to.

Staff recommendation is for approval subject to the attached General and Special Conditions.

STAFF REVIEW:

NATURAL RESOURCE MANAGEMENT APPROVAL

ENVIRONMENTAL EVALUATION

Robert F. Hopper

SUPERVISOR

Barbara J. Conmy

SURFACE WATER MANAGEMENT APPROVAL

ENGINEERING EVALUATION

Joseph D. Santangelo

SUPERVISOR

Carlos A. de Rojas, P.E.

ENVIRONMENTAL RESOURCE PERMITTING BUREAU CHIEF :

Anita R. Bain

DATE: 4/19/12

REGULATION DIVISION ASSISTANT DIRECTOR :

Anthony M. Waterhouse, P.E.

DATE: 4/20/12

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373. F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental

GENERAL CONDITIONS

Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No

GENERAL CONDITIONS

Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on April 23, 2017.
2. Operation of the surface water management system shall be the responsibility of the permittee.
3. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.
4. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.
5. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.
6. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.
7. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
8. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.
9. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.
10. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.
11. The permittee shall comply with the following conditions intended to protect manatees and marine turtles from direct project effects:

    a. All personnel associated with the project shall be instructed about the presence of marine turtles, manatees and manatee speed zones, and the need to avoid collisions with and injuries to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

    b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

    c. Siltation or turbidity barriers shall be made of material in which manatees and marine turtles cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee and marine turtle entanglement or entrapment. Barriers must not impede manatee movement.

    d. All on-site project personnel are responsible for observing water-related activities for the presence

SPECIAL CONDITIONS

of marine turtles and manatee(s). All in-water operations, including vessels, must be shutdown if a marine turtle or manatee(s) comes within 50 feet of the operation. Activities will not resume until the animal(s) have moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the animal(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a marine turtle or manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) for south Florida.

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Awareness signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used. One sign measuring at least 3 ft. by 4 ft. which reads Caution: Manatee Area must be posted. A second sign measuring at least 81/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities.

12. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, human remains or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area and specifically in the vicinity of 7455-7457 NW 8th Street , the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

13. In accordance with the work schedule, the permittee shall submit verification from the Florida Department of Environmental Protection (FDEP) that 0.3 freshwater herbaceous has been debited from the FPL Everglades Mitigation Bank ledger as mitigation for this impact.

14. Manatee exclusion grates shall be placed across the openings of existing or proposed culverts or pipes that are greater than eight inches but smaller than eight feet in diameter. The installation of grates applies to any submerged or partially submerged pipes and culverts accessible to manatees. Permittee shall keep all grates free and clear of debris.

15. Reference is made to Exhibit No. 2 by the Florida Department of Transportation, Project ID 249581-1-52-01, SR-826/SR-836 Interchange. The plan set consisting of drainage plans and detail sheets have been signed and sealed by Jose Munoz P.E., of BCC Engineering, Inc. on 4-5-11 and have been incorporated in this permit by reference (please see permit file).

16. Endangered species, threatened species and/or species of special concern have been observed onsite and/or the project contains suitable habitat for these species. It shall be the permittee's responsibility to coordinate with the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service for appropriate guidance, recommendations and/or necessary permits to avoid impacts to listed species.

17. To prevent manatee access into the construction area, a temporary barrier as designed in Exhibit 3 "Temporary Manatee Barrier" attached as part of this permit shall be constructed across the Northline Canal just south of NW 7th Street prior to commencement of construction related to installation of the

SPECIAL CONDITIONS

14' 7" x 21' 5" arch pipe at that location.

The temporary barriers across the Northline Canal at NW 21rst Street and at NW 7th Street shall be removed upon completion of construction, but not until that time. To prevent manatee access into the construction area, the permittee shall maintain the temporary barriers and repair any damage that may occur to the barriers, until construction is completed. The temporary barriers shall be monitored weekly for damage to, or possible breach of, the barrier by manatees into the construction area. If a manatee becomes entangled in the barrier, or breaches the barrier into the construction area, the Flrida Fish and Wildlife Conservation Commission shall be notified immediately at 1-888-404-FWCC.

SR 826/SR836 Interchange Improvement Project
Application No. 110810-1

1.0 Location Map

2.0 Construction Plans (Incorporated by Reference)

3.0 Wetlands and Listed Species

4.0 Historic Resources

MIAMI-DADE COUNTY, FLORIDA

N

Legend

Application

Map Date: 2012-03-23

Application Number: 110810-1

Permit Number: 13-04284-P

Sec 2,3 / Twp 54 / Rge 40

Project Name: Name: S R 826 / S R 836
INTERCHANGE IMPROVEMENTS PROJECT

0 0.5 1 Miles

Exhibit 1

APPLICATION No. 110810-1
PERMIT No. 13-04284-P
SR-826/SR-836 Interchange Improvements Project

EXHIBIT NUMBER 2

PLAN SET TITLED:
SR-826/SR-836 Interchange Project ID. 249581-1-52-01

INCORPORATED BY REFERENCE

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK
2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.

d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used (see MyFWC.com/manatee). One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 81/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. Questions concerning these signs can be sent to the email address listed above.

OUTFALL SUMMARY TABLE

OUTFALL No.	STRUCTURE No.	PIPE DIA.	ELEV. 'A'	DISCHARGE
1	S2-70	42"	1-13.00	NORTH LINE CANAL
2	S2-76	48"	1-13.30	NORTH LINE CANAL
3	S2-102	48"	1-13.40	NORTH LINE CANAL
4	S2-108	48"	1-12.00	NORTH LINE CANAL
5	S4-48	48"	1-12.25	NORTH LINE CANAL
6	S4-63	36"	0.00	NORTH LINE CANAL
7	S4-80	48"	1-13.50	NORTH LINE CANAL
8	S7-3	48"	1-13.50	NORTH LINE CANAL
9	S7-44	54"	1-14.50	AIRPORT CANAL
10	S7-54	48"	0.50	LAKE JOANNE
11	S8-81	48"	1-14.00	VENETIAN CANAL
12	S8-14	30"	2.50	** NORTH LINE CANAL
13	S8-16	18"	2.60	NORTH LINE CANAL

NOTES:
* THESE DIMENSIONS VARY FOR STRUCTURES S2-70 (42"), S4-63 (36"), S7-44 (54"), & S8-16 (18").
** NO ENDWALL.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD: A&P Consulting Transportation

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

SR 826/SR 836 INTERCHANGE

SHEET NO.

END POST
Typical
(In Concrete Block or Driven)
INTERMEDIATE POST
Typical
(In 150# Concrete Block)
Post Cap
Typical
SEDIMENT/NATURAL SOIL
INTERFACE
Sediment
High/High Water Line
Concrete Block

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC

EVERGLADES
MITIGATION BANK

February 22, 2012

Jose Munoz, P.E.
Project Manager
BCC Engineering, Inc.
7300 N Kendall Dr., Suite 660
Miami, FL 33156

Re: Everglades Mitigation Bank Credit Reservation:
U. S. Army Corps of Engineers Permit Number SAJ-2008-001139 (IP-AAZ), South Florida Water Management District Permit Number 13-04284-P

Please be advised that the Everglades Mitigation Bank (the "EMB") has reserved 0.03 Freshwater Herbaceous mitigation credits necessary to offset the unavoidable wetland impact for the above referenced project. Phase II of the EMB has a signed Mitigation Banking Instrument acknowledged by both FDEP and USACE and sufficient credits are currently available on the EMB ledger to offset the proposed impacts. **The EMB acknowledges receiving payment in full for the above referenced credits.**

Please contact me at 561-694-6388 for any additional information or questions regarding this matter.

Regards,

Joseph R. Sicbaldi CRE/JB
Everglades Mitigation Bank
700 Universe Boulevard
Juno Beach, FL 33408

South Florida Water Management District

Work Schedule Requirements

Application No : 110810-1

Mitigation Plan ID: SR 826/836

Activity	**Due Date**
SUBMIT VERFICATION OF 0.03 CREDIT PURCHASE	20-JUN-12

FLORIDA DEPARTMENT OF STATE
Kurt S. Browning
Secretary of State
DIVISION OF HISTORICAL RESOURCES

Ms. Valerie Johnson
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, Florida 33406

August 12, 2011

RE: DHR Project File No.: 2011-3275 (x-ref: 2006-4707, 2008-584, 2008-2181)
Received by DHR: August 11, 2011
Application No.: 110810-1/Applicant: Florida Department of Transportation, District 6
Financial Project ID: 249581-1
Project: *SR 826/SR836 Interchange Improvements Project*
County: Miami-Dade

Dear Ms. Johnson:

Our office received and reviewed the referenced project in accordance with Chapters 267 and 373, *Florida Statutes*, Florida's Coastal Management Program, and implementing state regulations. for possible impact to historic properties listed, or eligible for listing, in the *National Register of Historic Places* (NRHP), or otherwise of historical, architectural or archaeological value. The State Historic Preservation Officer is to advise and assist state and federal agencies when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or minimize adverse effects.

This corridor has been previously been reviewed by our office (DHR No.: 2006-4707) and it was determined that the project would have no effect on significant historic properties. Please note that there is a potential for human remains in the vicinity of archaeological site 8DA1073. As a result, the Federal Highway Administration proposed monitoring at this location. Consequently, we request that the permit be issued with the condition that monitoring take place during right-of-way (e.g., building demolition) and construction phases in the vicinity of 7455-7457 NW 8th Street.

If you have any questions, please contact Ginny Jones Architectural Historian, Transportation Compliance Review Program, by email *gljones@dos.state.fl.us*, or by telephone at 850.245.6333.

Sincerely,

Laura A. Kammerer

Laura A. Kammerer
Historic Preservationist Supervisor
Compliance Review Section

500 S. Bronough Street • Tallahassee, FL 32399-0250 • http://www.flheritage.com

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DRAINAGE REPORT
FOR SEGMENT 1

PALMETTO EXPRESSWAY
IMPROVEMENT PROGRAM

SECTION 5
STATE ROAD 826 / STATE ROAD 836 INTERCHANGE

Prepared for

FDOT DISTRICT VI

Prepared by

A&P CONSULTING TRANSPORTATION ENGINEERS /
BCC ENGINEERING, INC.

ARNELIO ALFONSO
LICENSE
No. 52566
STATE OF FLORIDA
PROFESSIONAL ENGINEER

April 2011

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INTRODUCTION

Project Description

Segment 1 is part of System 700 in the original Master Plan for the SR 826 / SR 836 Interchange. Segment 1 extends along S.R. 826 from S.W. 8th Street to Flagler Street.

General Site Location

Segment 1 is located in Township 54 S, Range 40 E, and Section 2 in Miami-Dade County. See Location Map in Exhibit 1.

Existing Drainage Conditions

For a detailed description of the existing drainage system, see Stormwater Management Report (Master Plan) prepared by APCTE and BCC, June 2010.

Proposed Drainage Improvements

For a better understanding of the overall drainage system, we will explain the area with respect to the entire System 700:

System 700: Drainage System 700 has been subdivided into two sub-basins identified by the location of the outfall to the C-4 Canal in reference to S.R.826: 1) The East Basin and 2) The West Basin. Runoff from these two sub-basins will be routed to roadside swales adjacent to S.R.826 and Southward to the infield areas of the S.R.826 / S.W. 8th Street interchange for water quality treatment and attenuation. The excess runoff eventually flows over two drop structures and discharges directly into the C-4 Canal within the S.R.826 / S.W. 8th Street interchange. Existing French drains under the roadside swales and the dry retention ponds will provide a mechanism for recovery of the dry retention areas within 24 hours following a storm event. The limits of this drainage system extend between two FDOT design packages: 1) Palmetto Section 4 Project (S.R.826 / S.W.8th Street Interchange) and 2) Palmetto Section 5 Project (S.R.826 / S.R.836 Interchange). The Section 4 Project has been constructed prior to the Section 5 Project. As a result, all of the calculations presented in this report for System 700 are a modification of the Drainage Report for the Section 4 Project (See Appendix E of Stormwater Management Report prepared by APCTE and BCC, June 2010 for a copy of the relevant portions of the Section 4 Drainage Report). The following calculations serve to demonstrate that the proposed Section 5 design continues to comply with the design criteria established in the Section 4 Drainage Report.

Summary of Drainage Areas

System 700	Sub-Basins	Impervious Area (Acres)	Pervious Area (Acres)	Total Area (Acres)	Runoff Coefficient (C)
EAST	1	9.22	4.26	13.48	0.64
WEST		11.80	7.50	19.30	0.60
	Total	**21.02**	**11.76**	**32.78**	**0.62**

Based on C=0.95 Impervious Area and C=0.20 Pervious Area.

DRAINAGE DESIGN CRITERIA

Groundwater Elevations

Groundwater Elevations were obtained from Fig. W.C. 2.2 of the Miami-Dade Public Works Department Design Standards. The Average October Groundwater Elevation for this project is 3.00 ft (NGVD). The Yearly Highest Elevation based on Fig. W.C. 2.1 of the same publication is 4.00 ft (NGVD).

Variable Tailwater Elevations

Another important parameter regarding ground and surface water elevations is how to model the variable tailwater conditions. Appendix F of the Stormwater Management Report (Master Plan) prepared by APCTE and BCC, June 2010 depicts a summary table showing the variable tailwater elevations and the sources that were used to determine these elevations.

The variable tailwater conditions for the node "GW" used in the analysis were developed in accordance with Section 2.5.2 of the FDOT's District 6, ICPR Applications Manual.

Rainfall Data

In coordination with FDOT's District VI, it was agreed that the storms that should be modeled were: 10-year (1, 8 and 24-hour); 25-year (72-hour) and 100-year (1, 8, 24 and 72-hour). Rainfall depths for these storms are indicated in the following table.

Storm Event	Rainfall Depth (inches)	Source
FDOT 10-Year/1-Hour	3.50	FDOT Drainage Manual, Fig. 5.11
FDOT 10-Year/8-Hour	6.40	FDOT Drainage Manual, Fig. 5.11
FDOT 10-Year/24-Hour	8.88	FDOT Drainage Manual, Fig. 5.13
FDOT 100-Year/1-Hour	5.00	FDOT Drainage Manual, Fig. 5.11
FDOT 100-Year/8-Hour	9.60	FDOT Drainage Manual, Fig. 5.11
FDOT 100-Year/24-Hour	13.44	FDOT Drainage Manual, Fig. 5.13
SFWMD 25-Year/72-Hour	14.00	SFWMD ERP Manual (Volume IV) Fig. C-8.
SFWMD 100-Year/72-Hour	16.50	SFWMD ERP Manual (Volume IV) Fig. C-8.

The design rainfall distribution defines how the mass rainfall is distributed throughout the storm event. The SFWMD distribution was used for the 72 hour duration storms, the FDOT distribution was used for the 1 hour, 8 hour and 24 hour duration storms.

WATER QUALITY ANALYSIS

The SFWMD and DERM have jurisdiction over the stormwater quality criteria for Segment 1. The following subsections outline these requirements.

South Florida Water Management District (SFWMD) Criteria

The SFWMD requires that all projects meet State water quality standards, as set forth in Chapter 17-302, Florida Administrative Code (FAC). To assure that these criteria are met, the proposed improvements must meet the following volumetric retention/detention requirements, as described in the SFWMD Permit Volume IV:

For wet detention systems, the first one-inch of runoff from the project or the total runoff from 2.5 inches times the percent impervious, whichever is greater, must be detained on site. A wet detention system is a system which maintains the control elevation below one foot from the seasonal high ground water elevation and does not bleed-down more than 0.5 inch of detention volume in 24 hours.

Dry detention systems must only provide 75 percent of the required wet detention volume. Dry detention systems maintain the control elevation at or above 1 foot above the seasonal high ground water elevation.

Dry retention systems are required to provide only 50 percent of the wet detention volume.

For projects with more than 50 percent imperviousness, discharge to the receiving water bodies must be made through baffles, skimmers, or other mechanisms suitable of preventing oil and grease from discharging to/or from the retention/detention areas.

As Segment 1 is part of System 700, water quality for this drainage system will be provided by four (4) dry retention ponds located within the S.R. 836 / S.W. 8th Street interchange infield area and along the West side of S.R. 826. The excess runoff is then allowed to overflow directly into C-4 Canal.

Water Quality Summary Table (SFWMD)

System 700	Sub-Basins	Pervious Area (Acres)	Impervious Area (Acres)	Total Area (Acres)	Required Water Quality (Ac-ft)	Provided Dry Retention (Ac-ft)
EAST	1	2.53	6.77	9.30	0.71	1.05
WEST		6.21	10.09	16.30	1.05	3.46
Totals		**8.74**	**16.86**	**25.60**	**1.76**	**4.51**

As indicated above the total volume provided for water quality (4.51 Ac-ft) exceeds the requirements (1.76 Ac-ft). The area included in the water quality summary does not include off-site areas.

Table 1 shows the most updated information for the table prepared as part of the Stormwater Management Report (Master Plan) by APCTE and BCC, June 2010.

DERM Criteria

DERM requires that all projects meet the State water quality standards. To assure that this criterion is met, 100 percent of the first inch of runoff must be retained on site. This volume is equivalent to retaining 1 inch of runoff from the furthest hydrologic point in the project. The methodology for estimating this volume is outlined in DERM's Policy for Design of Drainage Structure dated December 1989 as follows:

$V = 60CiAT_T$

Where:

V = Required stormwater quality volume, cubic feet

C = Runoff Coefficient; 0.2 for pervious areas and 0.95 for impervious areas

A = Total tributary area, acres

T_T = Duration of storm whose runoff is polluted and contaminated, minutes

$T_T = T_{1''} + T_c$

Where:

$T_{1''}$ = Time to generate one inch of runoff, minutes

$$= \frac{2940F^{-0.11}}{308.5C - 60.5(0.5895 + F^{-0.67})}$$

Where:

F = Storm frequency, years

C = previously defined

T_c = Time of concentration, minutes

i = Storm intensity, inches per hour

$$i = \frac{308.5}{48.6F^{-0.11} + T_T(0.5895 + F^{-0.67})}$$

Following, there is a summary table of the results of those calculations.

Water Quality Summary Table (DERM)

System 700	Sub-Basins	Pervious Area (Acres)	Impervious Area (Acres)	Total Area (Acres)	Required Water Quality (Ac-ft)	Provided Dry Retention (Ac-ft)
EAST	1	2.53	6.77	9.30	1.20	1.05
WEST		6.21	10.09	16.30	2.00	3.46
Totals		**8.74**	**16.86**	**25.60**	**3.20**	**4.51**

As indicated above the total volume provided for water quality (4.51 Ac-ft) exceeds the requirements (3.20 Ac-ft). The area included in the water quality summary does not include off-site areas.

Although there is some existing French drain within this basin, they are being used for recovery of the ponds, not for water quality treatment purposes.

Table 1 shows the most updated information for the table prepared as part of the Stormwater Management Report (Master Plan) by APCTE and BCC, June 2010.

WATER QUANTITY AND HYDRAULIC ANALYSIS

Pre vs. Post Analysis

Using the AdICPR computer program, the existing and proposed drainage systems were simulated for the 25-year/72-hour storm as required by the SFWMD water quantity design criteria. Following, there is a summary of the results of those simulations. The results depicted are the pre-development and post-development maximum discharges into the adjacent water bodies. They indicate that post-development peak discharges have been reduced from the pre-development discharges. Tables 2 and 3 shows the most updated information for the tables prepared as part of the Stormwater Management (Master Plan) by APCTE and BCC, June 2010.

Pre-Development Discharge Rate (SFWMD 25-year / 72 hours)

System 700	Link Name	Pervious Area (Ac)	Impervious Area (Ac)	Total Area (Ac)	Total Peak Discharge (cfs)	Offsite Discharge Volume (Ac-Ft)	Receiving Water Canal
	DISCH-E2	6.79	8.69	15.48	32.33	3.20	C-4 Canal
	DISCH-D1	8.80	7.68	16.48	1.05		
Total		**15.59**	**16.37**	**31.96**	**33.38**	**3.20**	

Post-Development Discharge Rate (SFWMD 25-year / 72 hours)

System 700	Link Name	Pervious Area (Ac)	Impervious Area (Ac)	Total Area (Ac)	Total Peak Discharge (cfs)	Offsite Discharge Volume (Ac-Ft)	Receiving Water Canal
	DISCH-E2	4.26	9.22	13.48	24.99	2.50	C-4 Canal
	DISCH-D1	7.07	12.23	19.30	1.04		
Total		**11.33**	**21.45**	**32.78**	**26.03**	**2.50**	

Outfall Structure Description

The outfall structures for the West sub-basin are three (3) ditch bottom inlets type H, each connected to a 42" pipe which outfalls directly into the C-4 Canal. The outfall structures for the East sub-basin are two (2) ditch bottom inlets type H, each connected to a 36" pipe which outfalls directly into the C-4 Canal. All of these outfall structures were constructed as part of the FDOT's Palmetto Section 4 Project.

Control Elevation

System	Ctrl Elev. (ft, NGVD)	Average Oct. Groundwater El. (ft, NGVD)	Method of Determination
700	N/A	3.00	Miami-Dade County Standard

ICPR Modeling

The Advanced Interconnected Pond Routing (AdICPR) computer model (Version 3.10) was used to evaluate the proposed drainage system for the project for several storm conditions. The AdICPR computer model is a hydrodynamic model developed by Streamline Technologies, Inc. that simulates hydrologic and hydraulic conditions by generating runoff hydrographs and dynamically routing these hydrographs through stormwater management systems.

In AdICPR, stormwater runoff hydrographs can be generated by the Soil Conservation Service (SCS) hydrograph method, Santa Barbara Urban hydrograph (SBUH) method, and kinematic overland flow method. The SCS method was selected because it is the most applicable method for the size of the hydrologic basin, land use, soil condition, and regional location of this project. This method generates runoff hydrographs using the following hydrologic parameters;

Basin areas
Curve numbers (CN)
Percent of directly connected impervious area (DCIA)
Rainfall depth
Rainfall distributions
Times of concentration (TOC)

The following subsections describe these parameters in detail and how they were applied in the project hydrologic modeling.

Basin Area

The basin area is the surface area encompassed by the individual drainage basin and is associated with a given node in the network. More than one basin can be associated with a node. The drainage basin areas were estimated using the Microstation® computer aided design and drafting (CADD) package. These areas were subdivided into impervious and pervious.

Nodes

In AdICPR, nodes or junction are used to simulate drainage structures, receiving canals and the groundwater table.

Links

Links or reaches define physical characteristics of the drainage or conveyance system. The AdICPR model allows for a wide range of reach types to be simulated:

Culverts (circular, oval, arch, and rectangular)
Channels (trapezoidal, parabolic, and irregular)
Weirs (horizontal or vertical trapezoidal, parabolic, arch, rectangular, and irregular)
Drop Structures
Rating Curves
Bridges and Breaches

Appendix F depicts the ICPR modeling for Post-Development conditions for Segment 9.

ICPR Summary of Results

Using the AdICPR computer program, the proposed drainage system was simulated using several storm events as required by the FDOT. In Appendix F there is a summary of the results of those simulations. The maximum water elevations

obtained for the 10-year storms were compared with the minimum edge of pavement elevation of each inlet.

OFFSITE IMPACTS ANALYSIS

In order to ensure that the proposed Segment 1 will not adversely affect adjacent offsite properties, the proposed drainage system has been designed to either maintain flooding levels below pre-development levels. This analysis has been conducted for design storms up to and including the 100 year – 72 hour storm. See Appendix F.

SPREAD CALCULATIONS

Allowable Spread

The spread resulting from a rainfall intensity of 4.0 in/hr shall be limited as follows:

Typical Section Condition	Design Speed (mph)	Spread Criteria*
Parking Lane or Full Width Shoulders	All	No encroachment
All other	Design Speed ≤ 45	Keep ½ of lane clear
	45 < Design Speed ≤ 55	Keep 8' of lane clear
	Design Speed > 55	No encroachment

* The criteria in this column apply to travel, turn, or auxiliary lanes adjacent to barrier wall or curb, in normal or super elevated sections.

In addition to the above standards, for sections with a shoulder gutter, the spread resulting from a 10-year frequency storm shall not exceed 1'-3" outside the gutter in the direction toward the front slope. The distance limits the spread to the face of guardrail posts. Spread calculations are depicted in Appendix G.

OPTIONAL CULVERT MATERIAL

The pipe materials were selected based on the corrosion classification test results and the FDOT selection criteria. The design service life and allowable culvert materials on this project which is designated as an urban facility, as indicated in the FDOT guidelines for Optional Pipe Material Selection are:

Function	**DSL (yrs.)**
Storm Drain	100
Cross Drain	100
Side Drain	25
Gutter Drain	25
French Drains	100

Input values for the FDOT Culvert Service Life Estimator program include Resistivity [Ohm-cm], pH, Sulfates [ppm], and Chlorides [ppm]. Values entered for the purposes of this report were taken as averages of the results of the sample tests shown as part of the geotechnical data in Appendix B.

As indicated in Appendix C: Corrosion Analysis, Concrete Pipes, Aluminum Pipes and Aluminized Steel pipes are optional materials that can be used for the proposed drainage system.

TABLE 1: WATER QUALITY SUMMARY

DRAINAGE SYSTEM	SUB-BASINS OR SEGMENTS	CONTROL STRUCTURE	TYPE OF WATER QUALITY TREATMENT	TOTAL AREA (AC)***	IMPER. AREA (AC)	PERVIOUS AREA (AC)	% IMPER.	DRY PONDS (AC)**	SFWMD TREATMENT VOL.REQD. (AC-FT)	DERM TREATMENT VOL.REQD. (AC-FT)	TREATMENT VOL.REQD. (AC-FT)	TREATMENT VOLUME PROVIDED (AC-FT)	% TREATMENT PROVIDED
100	5A & 6A	S5-4	DRY RETENTION	47.21	23.96	23.25	50.75	13.89	2.50	5.35	5.35	5.60	104.67
200	2B, 3B & 5B	S2-101	DRY RETENTION	43.38	26.66	16.72	61.46	3.84	2.78	5.23	5.23	2.65	50.67
	4A & 6B	S6-84	DRY RETENTION	30.71	20.16	10.55	65.65	2.33	2.10	3.79	3.79	1.58	41.69
	7A & 8A	S7-4	DRY RETENTION	29.99	17.92	12.07	59.75	2.46	1.87	3.58	3.58	2.75	76.82
	4B	S4-50	FRENCH DRAIN	13.03	13.03	0.00	100.00	0.00	1.36	1.91	1.91	0.09	4.71
	4C	S4-64 & S4-65	FRENCH DRAIN	4.35	4.35	0.00	100.00	0.00	0.45	0.64	0.64	28.13	4395.31
	4D	S4-109	DRY RETENTION	7.24	4.94	2.30	68.23	0.50	0.51	0.91	0.91	1.12	123.08
	11	S11-14	FRENCH DRAIN	1.98	1.89	0.09	95.45	0.00	0.20	0.28	0.28	2.01	717.86
400	8B & 12C	S-4048	DRY RETENTION	31.82	26.59	5.23	83.56	2.75	2.77	4.33	4.33	5.16	119.17
	7B & 12B	N/A (100% RETENTION)	DRY RETENTION	15.55	9.69	5.86	62.32	2.72	1.01	1.88	1.88	2.81	149.47
500	2A, 3A, 10A & 10B	S2-75	DRY RETENTION	47.41	30.30	17.11	63.91	7.70	3.16	5.79	5.79	7.16	123.66
600*	10C	N/A*	N/A*	1.09	1.09	0.00	100.00	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*
700	1	DISCH-D1	DRY RETENTION	16.30	10.09	6.21	61.90	0.12	1.05	2.00	2.00	3.46	173.00
		DISCH-E2	DRY RETENTION	9.30	6.77	2.53	72.80	0.00	0.71	1.20	1.20	1.05	87.50
900	7C & 9	S7-43	DRY RETENTION	27.35	21.81	5.54	79.74	3.64	2.27	3.63	3.63	2.61	71.90
TOTALS:	**N/A**	**N/A**	**N/A**	**326.71**	**219.25**	**107.46**	**67.11**	**39.95**	**22.74**	**40.52**	**40.52**	**66.18**	**163.33**

* This drainage system involves work to a small section of Flagler Street only. The proposed drainage design will only connect to the existing drainage system that discharges to the east along Flagler Street. The contributing drainage area in the vicinity of the proposed project has, however, been modified from the pre-development conditions.

** This value reflects the area of dry ponds within the project limits. Dry ponds located within this drainage basin, but outside of the project limits, are not included in this quantity.

*** The total area included in the water quality summary does not include Off-Site areas.

TABLE 2: OFFSITE DISCHARGE SUMMARY

DRAINAGE SYSTEM	SUB-BASINS OR SEGMENTS	SFWMD 25 YEAR - 72 HOUR STORM			
		PRE-DEVELOPMENT		POST-DEVELOPMENT	
		OFFSITE DISCHARGE RATE (CFS)	OFFSITE DISCHARGE VOLUME (AC-FT)	OFFSITE DISCHARGE RATE (CFS)	OFFSITE DISCHARGE VOLUME (AC-FT)
100	5A & 6A	52.30	45.90	43.18	24.00
200	2B, 3B & 5B	246.44	92.70	27.60	2.10
	4A & 6B			23.36	2.20
	7A & 8A			43.66	12.00
	4B			61.97	4.90
	4C			0.00	0.00
	4D			14.16	0.60
	11			7.81	0.30
300	300	105.23	18.90	N/A	N/A
400	8B & 12C	42.59	18.30	22.12	4.80
500	2A, 3A, 10A & 10B	44.02	42.50	25.74	20.70
600	10C	6.76	1.23	6.39	1.16
700	1	33.38	3.20	26.03	2.50
900	7C & 9	50.11	9.10	76.59	22.00
TOTALS:		**580.83**	**231.83**	**378.61**	**97.26**

TABLE 3: PRE VS. POST OVERALL BASIN STORAGE CAPACITY

DRAINAGE SYSTEM	SUB-BASINS OR SEGMENTS	PRE-DEVELOPMENT		POST-DEVELOPMENT	
		25YR-72HR RUNOFF VOLUME (AC-FT)	OUTFALL CANAL INFLOW VOLUME (AC-FT)	25YR-72HR RUNOFF VOLUME (AC-FT)	OUTFALL CANAL INFLOW VOLUME (AC-FT)
100	5A & 6A	45.00	45.90	55.69	36.40
200	2B, 3B & 5B	98.15	92.70	36.91	33.30
	4A & 6B			26.95	25.20
	7A & 8A			25.43	22.40
	4B			14.67	5.60
	4C			4.90	0.30
	4D			6.54	5.30
	11			32.61	32.40
300	300	19.80	18.90	N/A	N/A
400	8B & 12C	19.20	18.30		
500	2A, 3A, 10A & 10B	54.01	42.50	64.28	49.70
600	10C	1.23	1.23	1.16	1.16
700	1	27.12	16.00	28.65	15.90
900	7C & 9	107.46	87.90	115.33	81.20
TOTALS:		**371.97**	**323.43**	**413.12**	**308.86**

PRE-DEVELOPMENT BASIN STORAGE CAPACITY = 371.97-323.43
= 48.54 AC-FT

POST-DEVELOPMENT BASIN STORAGE CAPACITY = 413.12-308.86
= 104.26 AC-FT

One of the volumetric requirements of the South Florida Water Management District (SFWMD) is that the pre-development storage capacity of the overall drainage basin be at least maintained by the post-development design. This summary table address this requirement by comparing the total basin runoff volume to the total basin offsite discharge volume for both the pre-development and the post-development conditions. It should be noted that the floodrouting calculations used in this analysis assume that there is no french drain exfiltration ocurring during the design storm event of 25 years – 72 hours, and that the outfall link(s) are only allowed to flow in the positive direction (towards the outfall).

EXHIBIT 1
LOCATION MAP

SEGMENT I

LOCATION MAP

A&P Consulting Transportat Engineers Corporation
10305 N.W. 41 Street, Suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594

EXHIBIT 2
DRAINAGE SUB-BASINS LAYOUT

LEGEND

SUB-BASIN 1 } SYSTEM 700

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, Fl 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007797
Arnello Alfonso, P.E. No. 52566

ACT ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE SUB-BASIN LAYOUT
(SUB-BASIN 1)

SHEET NO.

nsanchez 12/15/2010 9:14:35 AM p:\249581\5201-Section 5\drainage\SUB-BASIN LAYOUT.dgn

APPENDIX A
DESIGN AIDS

Table T-4
Runoff Coefficients For A Design Storm Return Period Of 10 Years Or Less[a]

Slope	Land Use	Sandy Soils Min.	Sandy Soils Max.	Clay Soils Min.	Clay Soils Max.
Flat (0-2%)	Woodlands	0.10	0.15	0.15	0.20
	Pasture, grass, and farmland[b]	0.15	0.20	0.20	0.25
	Bare Earth	0.30	0.50	0.50	0.60
	Rooftops and pavement	0.95	0.95	0.95	0.95
	Pervious pavements[c]	0.75	0.95	0.90	0.95
	SFR: 1/2-acre lots and larger	0.30	0.35	0.35	0.45
	Smaller lots	0.35	0.45	0.40	0.50
	Duplexes	0.35	0.45	0.40	0.50
	MFR: Apartments, townhouses, and condominiums	0.45	0.60	0.50	0.70
	Commercial and Industrial	0.50	0.95	0.50	0.95
Rolling (2-7%)	Woodlands	0.15	0.20	0.20	0.25
	Pasture, grass, and farmland[b]	0.20	0.25	0.25	0.30
	Bare Earth	0.40	0.60	0.60	0.70
	Rooftops and pavement	0.95	0.95	0.95	0.95
	Pervious pavements[c]	0.80	0.95	0.90	0.95
	SFR: 1/2-acre lots and larger	0.35	0.50	0.40	0.55
	Smaller lots	0.40	0.55	0.45	0.60
	Duplexes	0.40	0.55	0.45	0.60
	MFR: Apartments, townhouses, and condominiums	0.50	0.70	0.60	0.80
	Commercial and Industrial	0.50	0.95	0.50	0.95
Steep (7%+)	Woodlands	0.20	0.25	0.25	0.30
	Pasture, grass, and farmland[b]	0.25	0.35	0.30	0.40
	Bare Earth	0.50	0.70	0.70	0.80
	Rooftops and pavement	0.95	0.95	0.95	0.95
	Pervious pavements[c]	0.85	0.95	0.90	0.95
	SFR: 1/2-acre lots and larger	0.40	0.55	0.50	0.65
	Smaller lots	0.45	0.60	0.55	0.70
	Duplexes	0.45	0.60	0.55	0.70
	MFR: Apartments, townhouses, and condominiums	0.60	0.75	0.65	0.85
	Commercial and Industrial	0.60	0.95	0.65	0.95

[a] Weighted coefficient based on percentage of impervious surfaces and green areas must be selected for each site.

[b] Coefficients assume good ground cover and conservation treatment.

[c] Depends on depth and degree of permeability of underlying strata.

Note: SFR = Single Family Residential
MFR = Multi-Family Residential

Table T-6
Definitions Of Four SCS Hydrologic Soil Groups

Hydrologic Soil Group	Definition
A	Low Runoff Potential Soils having high infiltration rates even when thoroughly wetted, consisting chiefly of deep, well-to-excessively-drained sands or gravels. These soils have a high rate of water transmission.
B	Moderately Low Runoff Potential Soils having moderate infiltration rates when thoroughly wetted and consisting chiefly of moderately deep, to deep, moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission.
C	Moderately High Runoff Potential Soils having slow infiltration rates when thoroughly wetted and consisting chiefly of soils with a layer that impedes downward movement of water, soils with moderate fine to fine texture, or soils with moderate water tables. These soils have a slow rate of water transmission.
D	High Runoff Potential Soils having very slow infiltration rates when thoroughly wetted and consisting chiefly of clay soils with high swelling potential, soils with a permanent high water table, soils with a clay pan or clay layer at or near the surface, and shallow soils over nearly impervious material. These soils have a very slow rate of water transmission.

Reference: USDA, SCS, NEH-4 (1972).

Table T-7
SCS Runoff Curve Numbers for Selected Agricultural, Suburban, and Urban Land Use

Land Use Description		Hydrologic Soil Group A	B	C	D
Cultivated Land[a]:					
Without conservation treatment		72	81	88	91
With conservation treatment		62	71	78	81
Pasture or range land:					
Poor condition		68	79	86	89
Good condition		39	61	74	80
Meadow: good condition		30	58	71	78
Wood or Forest Land:					
Thin stand, poor cover, no mulch		45	66	77	83
Good cover[b]		25	55	70	77
Open Spaces, Lawns, Parks, Golf Courses, Cemeteries:					
Good condition: grass cover on 75% or more of the area		39	61	74	80
Fair condition: grass cover on 50% to 75% of the area		49	69	79	84
Poor condition: grass cover on 50% or less of the area		68	79	86	89
Commercial and Business Areas (85% impervious)		89	92	94	95
Industrial Districts (72% impervious)		81	88	91	93
Residential[c]					
Average lot size	Average % Impervious[d]				
1/8 acre or less	65	77	85	90	92
1/4 acre	38	61	75	83	87
1/3 acre	30	57	72	81	86
1/2 acre	25	54	70	80	85
1 acre	20	51	68	79	84
Paved Parking Lots, Roofs, Driveways[e]:		98	98	98	98
Streets and Roads:					
Paved with curbs and storm sewers[e]		98	98	98	98
Gravel		76	85	89	91
Dirt		72	82	87	89
Paved with open ditches		83	89	92	93
Newly graded area (no vegetation established)[f]		77	86	91	94

[a] For a more detailed description of agricultural land use curve numbers, refer to Table T-8.
[b] Good cover is protected from grazing and litter and brush cover soil.
[c] Curve numbers are computed assuming the runoff from the house and driveway is directed toward the street with a minimum of roof water directed to lawns where additional infiltration could occur. Depends on depth and degree of permeability of underlying strata.
[d] The remaining pervious areas (lawn) are considered to be in good pasture condition for these curve numbers.
[e] In some warmer climates of the country, a curve number of 96 may be used.
[f] Use for temporary conditions during grading and construction.
Note: These values are for Antecedent Moisture Condition II, and $I_a = 0.2S$.

Reference: USDA, SCS, TR-55 (1984).

FIGURE 5-1
Zones for Precipitation Intensity-Duration-Frequency (IDF) Curves Developed by the Department

FIGURE 5-11 Rainfall Intensity-Duration-Frequency Curves for Zone 10

1 DAY

All Depth Contours in Inches

Reference: Hershfield (1961).

FIGURE 5-13

1-Day Precipitation Depth Data for 2-, 5-, 10-, 25-, 50-, and 100-Year Frequencies

2 DAY

All Depth Contours in Inches

Reference: Miller (1964).

FIGURE 5-14
2-Day Precipitation Depth Data for 2-, 5-, 10-, 25-, 50-, and 100-Year Frequencies

4 DAY

All Depth Contours in Inches

Reference: Miller (1964).

FIGURE 5-15

4-Day Precipitation Depth Data for 2-, 5-, 10-, 25-, 50-, and 100-Year Frequencies

FIGURE C-8. 3-DAY RAINFALL: 25-YEAR RETURN PERIOD

METROPOLITAN DADE COUNTY. PUBLIC WORKS DEPARTMENT	APPROVED 4/5/72	REVISED 2/19/75 4/14/77 2/7/83	DESIGN STANDARDS AVERAGE YEARLY HIGHEST GROUND WATER LEVEL 1965 - 78	W.C. 2.1 SHEET 1 OF 1

METROPOLITAN DADE COUNTY PUBLIC WORKS DEPARTMENT	APPROVED 4/5/72	REVISED 2/19/75 4/19/77	DESIGN STANDARDS AVERAGE OCTOBER GROUND WATER LEVEL A-11 1960-75	W.C. 2.2

METROPOLITAN DADE COUNTY PUBLIC WORKS DEPARTMENT	APPROVED 4/5/72	REVISED 2/19/75 4/14/77 2/7/83	DESIGN STANDARDS AVERAGE YEARLY LOWEST GROUND-WATER LEVEL A-12 1965-78	W.C. 2.3 SHEET 1 OF 1

METROPOLITAN DADE COUNTY PUBLIC WORKS DEPARTMENT	APPROVED 4/5/72	REVISED 2/19/75 8/14/77	DESIGN STANDARDS AVERAGE MAY GROUND WATER LEVEL A-13 1960-75	W.C. 2.4 SHEET 1 OF 1

METROPOLITAN DADE COUNTY PUBLIC WORKS DEPARTMENT	APPROVED 4/5/72	REVISED 2/19/75 4/14/77	DESIGN STANDARDS AVERAGE GROUND-WATER LEVEL A-14 1960-75	W.C. 2.5 SHEET 1 OF 1

APPENDIX B
GEOTECHNICAL INFORMATION

FLORIDA DEPARTMENT OF TRANSPORTATION

WILTON GILLES
GOVERNOR

DISTRICT MATERIALS OFFICE - DISTRICTS 4 & 6
3790 Northwest 21 Street, Miami, FL 33142
Telephone: (305) 687-2970

BEN G. WATTS
SECRETARY

June 23, 1993

Mr Ali R. Toghiani, PE., Sr. Project Manager DO-6 room-6201
Florida Dept. Of Transportation
1000 NW 111 Avenue
Miami, Fl. 33172

Subject: SR-826 and SR-836 Interchange Improvement Program
State Project No. 87260-1579
W.P.I. No. 6113758
Dade County
Additional Geotechnical Exploration

Dear Mr. Toghiani;

Transmitted herewith please find the Percolation (exfiltration) tests and Concentric rings (infiltration) tests, and the corrosion test results that you requested on the above subject project.

Sincerely,

Robert I. Raskin
Asst. District Geotechnical Engineer
District 4 & 6

RIR:r

RECEIVED
DISTRICT 5GS
CONSULTANT MANAGEMENT
FREEWAY OFFICE
JUN 2 2 1993
DEPT. OF TRANSPORTATION
MIAMI, FLORIDA

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-1

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 200+00, 200' Lt. B/L

DEPTH TO WATER TABLE (FT) 3.4

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-4-93

TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	20.0				

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-2

LOCATION Sta. 200+00 185' Rt. B/L

DEPTH TO WATER TABLE (FT) 4.4

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-4-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.2	40.0				

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-3

LOCATION Sta. 210+00, 290' Lt. B/L

DEPTH TO WATER TABLE (FT) 3.4

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-4-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	50.0+				

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-4

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 210+00, 275' Rt. B/L

DEPTH TO WATER TABLE (FT) 3.7

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-4-93

TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.2	28.0				

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-5

LOCATION Sta. 219+00, 600' Lt. B/L

DEPTH TO WATER TABLE (FT) 5.2

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-4-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	2.5	50.0+				

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-6

LOCATION Sta. 218+50, 320' Rt. B/L

DEPTH TO WATER TABLE (FT) 3.6

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-5-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	35.0				

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-7

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 220+50, 625' Lt. B/L

DEPTH TO WATER TABLE (FT) 2.8

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-7-93

TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.2	18.0				

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-8

LOCATION Sta. 221+00, 300' Rt. B/L

DEPTH TO WATER TABLE (FT) 2.3

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-5-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.3	14.0				

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-9

LOCATION Sta. 230+00, 200' Lt. B/L

DEPTH TO WATER TABLE (FT) 4.2

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-7-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	34.0				

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-10

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 230+00, 225' Rt. B/L

DEPTH TO WATER TABLE (FT) 2.3

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-5-93

TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	40.0	0.5	0.1			

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-11

LOCATION Sta. 240+00, 250' Lt. B/L

DEPTH TO WATER TABLE (FT) 4.8

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-7-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.2	28.0				

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-12

LOCATION Sta. 240+00, 165' Rt. B/L

DEPTH TO WATER TABLE (FT) 2.4

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 5-5-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.4	0.2	0.1			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-13

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 250+00, 240' Rt. B/L

DEPTH TO WATER TABLE (FT) 3.0

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-7-93

TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.6	0.1	0.3			

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-14

LOCATION Sta. 250+00, 200' Rt. B/L

DEPTH TO WATER TABLE (FT) 3.5

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-7-93 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	1.0	0.7	1.5			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-15

LOCATION Sta. 260+00, 380' Rt. B/L

DEPTH TO WATER TABLE (FT) 3.8

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-8-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	3.0	1.5	0.1			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-16

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 260+00, 220' Rt. B/L

DEPTH TO WATER TABLE (FT) 3.2

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-8-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	2.5	15.0				

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-17

LOCATION Sta. 150+40, 115' Lt. B/L

DEPTH TO WATER TABLE (FT) 4.1

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-8-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	4.5	0.6	0.1			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-18

LOCATION Sta. 149+00, 150' Rt. B/L

DEPTH TO WATER TABLE (FT) 1.7

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-8-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	2.4	0.2	0.3			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-19

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 140+00, 145' Lt. B/L

DEPTH TO WATER TABLE (FT) 4.7

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-17-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.9	0.1	0.2			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-20

LOCATION Sta. 139+00, 260' Rt. B/L

DEPTH TO WATER TABLE (FT) 3.6

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-17-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	1.0	0.8			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-21

LOCATION Sta. 269+00, 430' Lt. B/L

DEPTH TO WATER TABLE (FT) 2.4

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-21-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	0.2	0.2			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-22

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 130+00, 95' Rt. B/L

DEPTH TO WATER TABLE (FT) 5.5

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-21-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	50.0+	50.0+			

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-23

LOCATION Sta. 125+00, 220' Lt. B/L

DEPTH TO WATER TABLE (FT) 2.3

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-17-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	25.0	16.0	20.0			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-24

LOCATION Sta. 124+80, 120' Rt. B/L

DEPTH TO WATER TABLE (FT) 2.3

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-15-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	26.2	7.0	2.1			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM ET

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-25

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 121+00, 270' Lt. B/L

DEPTH TO WATER TABLE (FT) 4.0

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-10-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	15.0	22.0	22.0			

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-26

LOCATION Sta. 119+00, 76' Rt. B/L

DEPTH TO WATER TABLE (FT) 10.0+

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-15-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	0.2	5.0			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-27

LOCATION Sta. 110+00, 140' Lt. B/L

DEPTH TO WATER TABLE (FT) 2.6

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-10-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	22.0	18.0	22.0			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-28

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 110+00, 125' Rt. B/L

DEPTH TO WATER TABLE (FT) 1.4

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-14-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	14.0	12.0	15.0			

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-29

LOCATION Sta. 96+50,

DEPTH TO WATER TABLE (FT) 3.8

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-15-93 TESTED BY G. Machado

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	26.8	9.3	4.5			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-30

LOCATION Sta. 100+00, 100' Rt. B/L

DEPTH TO WATER TABLE (FT) 1.0

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-14-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	13.4	14.6	16.0			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BE

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-31

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 90+00, 140' Lt. B/L

DEPTH TO WATER TABLE (FT) 2.5

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-14-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	50.0+	28.0	0.1			

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-32

LOCATION Sta. 90+00, 120' Rt. B/L

DEPTH TO WATER TABLE (FT) 1.6

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-14-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	3.8	13.3	1.0			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-33

LOCATION Sta. 280+00, 260' Lt. B/L

DEPTH TO WATER TABLE (FT) 1.9

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-17-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.4	0.1	0.2			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BE-

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-34

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 281+00, 140' Rt. B/L

DEPTH TO WATER TABLE (FT) 1.9

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-21-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	0.5	0.3			

SOIL DESCRIPTION _____ TEST NO. P-35, Could not do.

LOCATION _____

DEPTH TO WATER TABLE (FT) _____

HEAD MAINTAINED _____ BELOW GROUND

DATE TESTED _____ TESTED BY _____

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)						

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-36

LOCATION Sta. 52+00, 160' Rt. B/L

DEPTH TO WATER TABLE (FT) 9.8

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-21-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	20.0	25.0			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-37

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 58+00, 100' Lt. B/L

DEPTH TO WATER TABLE (FT) 4.9

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-15-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.1	1.5	25.0			

SOIL DESCRIPTION Silty fine sand and limerocck frag. to sandy limestone TEST NO. P-38

LOCATION Sta. 58+00, 100' Rt. B/L

DEPTH TO WATER TABLE (FT) 9.0

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-16-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.05	0.2	25.5			

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone TEST NO. P-39

LOCATION Sta. 70+50, 180' Lt. B/L

DEPTH TO WATER TABLE (FT) 1.4

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-16-93 TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.2	0.2	1.0			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BE-

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-40

PROJECT NAME SR-836 from NW 87 Ave. to NW 72 Ave. LOCATION Sta. 66+50, 170' Rt. B/L

DEPTH TO WATER TABLE (FT) 4.0

SOIL DESCRIPTION Silty fine sand and limerock frag. to sandy limestone HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 6-16-93

TESTED BY R. Perez

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	8.4	0.1	0.1			

SOIL DESCRIPTION _____ TEST NO. _____

LOCATION _____

DEPTH TO WATER TABLE (FT) _____

HEAD MAINTAINED _____ BELOW GROUND

DATE TESTED _____ TESTED BY _____

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)						

SOIL DESCRIPTION _____ TEST NO. _____

LOCATION _____

DEPTH TO WATER TABLE (FT) _____

HEAD MAINTAINED _____ BELOW GROUND

DATE TESTED _____ TESTED BY _____

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)						

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BE-

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-41

PROJECT NAME SR-826 & SR-836 LOCATION Sta.330+00, 85' Lt. B/L

DEPTH TO WATER TABLE (FT) 2.2

SOIL DESCRIPTION Silty sandy limestone. HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 4-27-94

TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.3	0.1	0.4			

SOIL DESCRIPTION Sandy limestone. TEST NO. P-42

LOCATION Sta.330+00, 80' Lt. B/L

DEPTH TO WATER TABLE (FT) 3.8

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 4-26-94 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	30.0					

SOIL DESCRIPTION Sandy limestone. TEST NO. P-43

LOCATION Sta. 340+00, 80' lt. B/L

DEPTH TO WATER TABLE (FT) 2.7

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 4-27-94 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.5	0.7	0.2			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

FL STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-44

PROJECT NAME SR-826 & SR-836 LOCATION Sta.340+00, 70' Rt. B/L

DEPTH TO WATER TABLE (FT) 2.3

SOIL DESCRIPTION Sandy lime- HEAD MAINTAINED 12" BELOW GROUND

stone. DATE TESTED 4-26-94

TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	25.0					

SOIL DESCRIPTION Sandy lime- TEST NO. P-45

stone. LOCATION Sta.350+00, 70' Lt. B/L

DEPTH TO WATER TABLE (FT) 2.3

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 4-27-94 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	36.0					

SOIL DESCRIPTION Sandy lime- TEST NO. P-46

stone. LOCATION Sta. 350+00, 80' Rt. B/L

DEPTH TO WATER TABLE (FT) 2.4

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 4-26-94 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	0.3	0.2	0.3			

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

PA STATE DEPARTMENT OF TRANSPORTATION

PERCOLATION (EXFILTRATION) TEST RESULTS

PROJECT NO. 87260-1579 TEST NO. P-47

PROJECT NAME SR-826 & SR-836 LOCATION Sta.360+00 , 55' Lt. B/L

DEPTH TO WATER TABLE (FT) 7.6

SOIL DESCRIPTION Sandy lime- HEAD MAINTAINED 12" BELOW GROUND

stone. DATE TESTED 4-26-94

TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	2.5	50.0				

SOIL DESCRIPTION Sandy lime- TEST NO. P-48

stone. LOCATION Sta.360+00 , 70' Rt. B/L

DEPTH TO WATER TABLE (FT) 5.2

HEAD MAINTAINED 12" BELOW GROUND

DATE TESTED 4-26-94 TESTED BY B. Swidarski

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)	4.5	0.1	0.1			

SOIL DESCRIPTION _____ TEST NO. _____

LOCATION _____

DEPTH TO WATER TABLE (FT) _____

HEAD MAINTAINED _____ BELOW GROUND

DATE TESTED _____ TESTED BY _____

TEST DEPTH (FEET)	0-10	10-15	15-20	20-25	25-30	30-35
AVERAGE FLOW (GPM)						

GENERAL NOTES: TEST DEPTH 0'-10': OPEN HOLE FROM GROUND SURFACE (7 1/4" DIAMETER). HOLE CASED WITH PERFORATED TUBE.

TEST BELOW 10' : HOLE CASED DOWN TO BEGINNING OF TEST DEPTH. OPEN HOLE (3 3/16" DIAMETER) FROM BEGINNING TO END OF TEST DEPTHS.

PERCOLATION TEST SUMMARY

PERCOLATION TEST NO.	Depth to Water Table (Ft.)	Distance Head Is Maintained Below Ground (Inches)	Test Hole Diameter For 0'-10' Depth (Inches)	Average Flow Rate For 0'-10' Depth (GPM)	Hydraulic Conductivity For 0'-10' Depth (CFS/SQ.Ft.-Ft.Head)	Test Hole Diameter For 10'-15' Depth (Inches)	Average Flow Rate For 10'-15' Depth (GPM)	Hydraulic Conductivity For 10'-15' Depth (CFS/SQ.Ft.-Ft.Head)
P-1	3.4	12	7.25	0.1	6.27E-06	3.19	20.0	4.45E-03
P-2	4.4	12	7.25	0.2	9.46E-06	3.19	40.0	6.28E-03
P-3	3.4	12	7.25	0.1	6.27E-06	3.19	50.0	1.11E-02
P-4	3.7	12	7.25	0.2	1.14E-05	3.19	28.0	5.54E-03
P-5	5.2	12	7.25	2.5	1.01E-04	3.19	50.0	6.36E-03
P-6	3.6	12	7.25	0.1	5.86E-06	3.19	35.0	7.19E-03
P-7	2.8	12	7.25	0.2	1.61E-05	3.19	18.0	5.34E-03
P-8	2.3	12	7.25	0.3	3.24E-05	3.19	14.0	5.75E-03
P-9	4.2	12	7.25	0.1	4.96E-06	3.19	34.0	5.67E-03
P-10	2.3	12	7.25	40.0	4.33E-03	3.19	0.5	2.05E-04
P-11	4.8	12	7.25	0.2	8.70E-06	3.19	28.0	3.93E-03
P-12	2.4	12	7.25	0.4	4.04E-05	3.19	0.2	7.63E-05
P-13	3.0	12	7.25	0.6	4.40E-05	3.19	0.1	2.67E-05
P-14	3.5	12	7.25	1.0	6.06E-05	3.19	0.7	1.50E-04
P-15	3.8	12	7.25	3.0	1.65E-04	3.19	1.5	2.86E-04
P-16	3.2	12	7.25	2.5	1.69E-04	3.19	15.0	3.64E-03
P-17	4.1	12	7.25	4.5	2.29E-04	3.19	0.6	1.03E-04
P-18	1.7	12	7.25	2.4	4.65E-04	3.19	0.2	1.53E-04
P-19	4.7	12	7.25	0.9	3.99E-05	3.19	0.1	1.44E-05
P-20	3.6	12	7.25	0.1	5.86E-06	3.19	1.0	2.05E-04
P-21	2.4	12	7.25	0.1	1.01E-05	3.19	0.2	7.63E-05
P-22	5.5	12	7.25	0.1	3.86E-06	3.19	50.0	5.93E-03
P-23	2.3	12	7.25	25.0	2.70E-03	3.19	16.0	6.57E-03
P-24	2.3	12	7.25	26.2	2.83E-03	3.19	7.0	2.88E-03
P-25	4.0	12	7.25	15.0	7.83E-04	3.19	22.0	3.92E-03
P-26	10.0	12	7.25	0.1	2.90E-06	3.19	0.2	1.19E-05
P-27	2.6	12	7.25	22.0	1.97E-03	3.19	18.0	6.01E-03
P-28	1.4	12	7.25	14.0	4.67E-03	3.19	12.0	1.60E-02
P-29	3.8	12	7.25	26.8	1.46E-03	3.19	9.3	1.77E-03
P-30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P-31	2.5	12	7.25	50.0	4.74E-03	3.19	28.0	9.97E-03
P-32	1.6	12	7.25	3.8	8.55E-04	3.19	13.3	1.18E-02
P-33	1.9	12	7.25	0.4	6.10E-05	3.19	0.1	5.93E-05
P-34	1.9	12	7.25	0.1	1.53E-05	3.19	0.5	2.97E-04
P-35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P-36	9.8	12	7.25	0.1	2.90E-06	3.19	20.0	1.21E-03
P-37	4.9	12	7.25	0.1	4.27E-06	3.19	1.5	2.05E-04
P-38	9.0	12	7.25	0.1	1.47E-06	3.19	0.2	1.33E-05
P-39	1.4	12	7.25	0.2	6.67E-05	3.19	0.2	2.67E-04
P-40	4.0	12	7.25	8.4	4.38E-04	3.19	0.1	1.78E-05
P-41	2.2	12	7.25	0.3	3.49E-05	3.19	0.1	4.45E-05
P-42	3.8	12	7.25	30.0	1.65E-03	N/A	N/A	N/A
P-43	2.7	12	7.25	0.5	4.24E-05	3.19	0.7	2.20E-04
P-44	2.3	12	7.25	25.0	2.70E-03	N/A	N/A	N/A
P-45	2.3	12	7.25	36.0	3.89E-03	N/A	N/A	N/A
P-46	2.4	12	7.25	0.3	3.03E-05	3.19	0.2	7.63E-05
P-47	7.6	12	7.25	2.5	7.80E-05	3.19	50.0	4.05E-03
P-48	5.2	12	7.25	4.5	1.82E-04	3.19	0.1	1.27E-05

FLORIDA
LAWTON CHILES
GOVERNOR

DEPARTMENT OF TRANSPORTATION
DISTRICT MATERIALS OFFICE - DISTRICTS 4 & 6
3790 Northwest 21 Street, Miami, FL 33142
Telephone: (305) 634-7614

BEN O. WATTS
SECRETARY

December 23, 1991

Mr. Francisco J. Tejidor, P. E.
Post, Buckley, Schuh & Jernigan, Inc.
8600 N. W. 36 Street
Miami, FL 33166-6622

Dear Mr. Tejidor:

Re.: ENVIRONMENTAL CORROSION REPORT

Project Name	:	SR-826/SR-836 Interchange
Work Program Item No.	:	N/A
State Job No.	:	87260-1579
Federal Job No.	:	F-475-1(66)
County	:	Dade

Samples were obtained from the above reference site at the locations described below to determine the corrosiveness of the drainage structure locations. The test results of the samples are as follows:

Test No.	SAMPLE NUMBER	LOCATION	RESISTIVITY OHMS-CM	pH	SULFATE PPM	CHLORIDES PPM
C-15	P-1	Sta. 54+00, 125' Lt. B/L SR-836	2,500	7.2	24	40
C-16	P-2	Sta. 150+00, 100' Lt. B/L SR-826	1,600	7.1	26	20

The results of this investigation show the environment to be non-corrosive (moderately aggressive).

Sincerely,

L. R. Morgado

L. R. Morgado, P. E.
District Materials Engineer

LRM:k

cc: Mr. Kevin MacNaughton, Project Manager, District 6

FLORIDA DEPARTMENT OF TRANSPORTATION

LAWTON CHILES
GOVERNOR

RON G. WATTS
SECRETARY

MEMORANDUM

DATE : June 22, 1993

TO : Ali R. Toghiani, PE, Sr. Project Manager DO-6 room-6201

FROM : Bob Raskin, Asst. District Geotechnical Engineer

COPIES : R. J. Kessler,

SUBJECT : ENVIRONMENTAL CORROSION REPORT

Project Name	: SR-826 & SR-836 Interchange Improvement Project.
Work Project Item No.	: 6113758
State Job No.	: 87260-1579
Federal Job No.	: N/A
County	: Dade

Samples were obtained from the subject site at the locations described below to determine the corrosiveness of the location. The results of the samples are as follows:

Test No	Sample Number	Location	Resistivity OHMS - CM	pH	Sulfates PPM	Chlorides PPM
C-1	S-1	Sta. 218+20, 225' Rt. B/L SR-836	1,700	6.8	28	100
C-2	S-2	Sta. 220+50, 300' Rt. B/L SR-836	1,700	6.7	Less Than 5	80
C-3	S-3	Sta. 226+50, 125' Rt. B/L SR-836	1,800	6.7	Less Than 5	60
C-4	S-4	Sta. 238+40, 225' Lt. B/L SR-836	2,300	6.8	Less Than 5	60
C-5	S-5	Sta. 131+75, 400' Lt. B/L SR-836	1,200	6.8	Less Than 5	80
C-6	S-6	Sta. 123+80, 320' Lt. B/L SR-826	1,100	6.8	Less Than 5	80
	S-7	Sta. 131+90, 200' Rt. B/L SR-826	2,500	6.8	Less Than 5	60

Test No	SAMPLE NUMBER	LOCATION	RESISTIVITY OHMS-CM	pH	SULFATE PPM	CHLORIDES PPM
C-8	S-8	Sta. 121+00, 275' Rt. B/L SR-836	1,200	6.8	Less Than 5	60
C-9	S-9	Sta. 95+00, 200' Lt. B/L SR-826	1,800	7.2	Less Than 5	40
C-10	S-10	Sta. 94+80, 180' Rt. B/L SR-826	1,800	7.3	Less Than 5	60
C-11	S-11	Sta. 63+00, 240' Lt. B/L SR-836	1,300	6.7	Less Than 5	60
C-12	S-12	Sta. 62+50, 210' Rt. B/L SR-836	1,300	6.7	10	60

The results of this investigation shows the substructure to be Non-corrosive (Moderately aggressive).

RIR:r

FLORIDA DEPARTMENT OF TRANSPORTATION

LAWTON CHILES GOVERNOR

BEN G. WATTS SECRETARY

MEMORANDUM

DATE : April 28, 1994

TO : Ali R. Toghiani, PE, Project Manager, DO-6, room-6201

FROM : Bob Raskin, Asst. District Geotechnical Engineer

COPIES : R. J. Kessler,

SUBJECT : ENVIRONMENTAL CORROSION REPORT

Project Name : SR-826 & SR-836 Interchange

Work Project Item No. : 6113758
State Job No. : 87260-1579
Federal Job No. : N/A
County : Dade

Samples were obtained from the subject site at the locations described below to determine the corrosiveness of the location. The results of the samples are as follows:

Test No	Sample Number	Location	Resistivity OHMS - CM	pH	Sulfates PPM	Chlorides PPM
C-17	S-1	Sta. 330+00 80' Rt. B/L	2,000	7.1	Less Than 5	80
C-18	S-2	Sta. 340+00 80' Lt. B/L	2,200	6.8	10	60
C-19	S-3	Sta. 350+00 80' Rt. B/L	2,000	7.1	Less Than 5	60
C-20	S-4	Sta. 360+00 70' Lt. B/L	2,100	6.9	Less Than 5	60
		REQUESTED LOCATIONS				
C-13	S-1r	Sta. 193+00, 150' Lt. B/L	2,000	7.1	Less Than 5	80
14	S-2r	Sta. 329+00 100' Lt. B/L	2,100	7.1	Less Than 5	60

The results of this investigation shows the substructure to be Non-Corrosive (Moderately Aggressive) and the superstructure is Non-Corrosive (Slightly Aggressive).

RIR:r

APPENDIX C
CORROSION ANALYSIS

TABLE 6-1 CULVERT MATERIAL APPLICATIONS AND DESIGN SERVICE LIFE

	Application	Storm Drain		Cross Drain		Side Drain[4]	Gutter Drain	French Drain		
	Highway Facility (see notes)	Minor	Major	Minor	Major	All	All	Replacement will Impact the Roadway[5]		Other
								Minor	Major	All
	Design Service Life →	50	100	50	100	25	25[6]	50	100	50
	Culvert Material	An * indicates suitable for further evaluation.								
PIPE	Corrugated Aluminum Pipe CAP	*	*	*	*	*	*	*	*	*
PIPE	Corrugated Steel Pipe CSP	*	*	*	*	*	*	*	*	*
PIPE	Corrugated Aluminized Steel Pipe CASP	*	*	*	*	*	*	*	*	*
PIPE	Spiral Rib Aluminum Pipe SRAP	*	*	*	*	*		*	*	*
PIPE	Spiral Rib Steel Pipe SRSP	*	*	*	*	*		*	*	*
PIPE	Spiral Rib Aluminized Steel Pipe SRASP	*	*	*	*	*		*	*	*
PIPE	Steel Reinforced Concrete Pipe RCP	*	*	*	*	*		*	*	*
PIPE	Non-reinforced Concrete Pipe NRCP	*	*	*	*	*		*	*	*
PIPE	Fiber Reinforced Concrete Pipe FRCP	*	*	*	*	*		*	*	*
PIPE	Polyethylene Pipe – Class I HDPE-I	*		*		*		*		*
PIPE	Polyethylene Pipe – Class II[6] HDPE-II	*	*	*	*	*		*	*	*
PIPE	Polyvinyl-Chloride Pipe PVC	*	F949	*	F949	*		*	F949	*
STRPL	Structural Plate Aluminum Pipe SPAP	*	*	*	*	*				
STRPL	Structural Plate Alum. Pipe-Arc SPAPA	*	*	*	*	*				
STRPL	Structural Plate Steel Pipe SPSP	*	*	*	*	*				
STRPL	Structural Plate Steel Pipe-Arch SPSPA	*	*	*	*	*				
BOX	Aluminum Box Culvert	*	*	*	*	*				
BOX	Concrete Box Culvert CBC	*	*	*	*	*				
BOX	Steel Box Culvert	*	*	*	*	*				

Table notes are on the following page

Notes for Table 6-1

1. A minor facility is permanent construction such as minor collectors, local streets and highways, and driveways, provided culvert cover is less than 10 feet. Additionally, this category may be called for at the discretion of the District Drainage Engineer where pipe replacement is expected within 50 years or where future replacement of the pipe is not expected to impact traffic or require extraordinary measures such as sheet piling.
2. A major facility is any permanent construction of urban and suburban typical sections and limited access facilities. Urban facilities include any typical section with a fixed roadside traffic barrier such as curb or barrier wall. Additionally, rural typical sections with greater than 1600 vpd (ADT) are also included in this category.
3. Temporary construction normally requires a much shorter design service life than permanent does. However, temporary measures that will be incorporated as permanent facilities should be treated as permanent construction with regard to design service life determination.
4. Although culverts under intersecting streets (crossroads) function as sidedrains for the project under consideration, these culverts are cross drains and shall be designed using appropriate cross drain criteria.
5. Replacing this pipe would require removal and replacement of the project's pavement or curb.
6. Gutter Drains under retaining walls should use 100 year DSL.
7. F949 PVC service life is 100 years. Other PVC pipe has a 50-year service life. PVC pipe should not be used in direct sunlight unless it meets the requirements of Section 948-1.1.
8. Class II HDPE pipe, accepted under the interim specification, may not be used in the following locations:
    1. The Florida Keys
    2. Under the mainline travel lanes on limited access facilities
    3. Under the pavement of 8-lane urban facilities
    4. Under the pavement of roadways providing immediate access to coastal islands
    5. Within the confines of a mechanically stabilized earth (MSE) wall
    6. In locations where the failure of the pipe would jeopardize buildings adjacent to the Department's right-of-way

    Under the pavement, in the above restrictions, includes pipe locations within the angle of repose of the soil under the proposed pavement, including planned future widening.
9. Any pipes under permanent structures such as retaining walls, MSE walls, buildings, etc. shall be 100 year DSL.

Florida Department of Transportation

Corrosion Research Laboratory

Culvert Service Life Estimator

Project Name:	SR-826/SR-836
Work Program Item Number:	249581-1-52-01
State Job Number:	
Federal Job Number:	
County:	MIAMI-DADE COUNTY
Elevation:	
Station:	
Designer:	L.F.

Design Life (years)		
100	pH	6.9
	Resistivity	1810
	Chlorides	63
Manning's n Value	Sulfates	9
0.012	Diameter	18

Type Of Culvert	Computed Service Life (years)
Non-Reinforced Concrete (NRCP)	360
Steel-Reinforced Concrete (RCP), Typical Dry Cast	257
16 ga. Aluminum - Spiral Rib (SRAP)	168
12 ga. Aluminized Steel - SPIRAL RIB (SRASP)	120
Polyvinyl Chloride, ASTM F-949 (PVC)	100
High Density Polyethylene, Cl. II (HDPE) *	100
High Density Polyethylene, Cl. I (HDPE) CANNOT be used	
Galvanized Steel (CSP) CANNOT be used	

*HDPE Class II is under interim acceptance and should not be used under limited access facilities, in the Florida Keys, or on certain critical roadways as directed by the District Drainage Engineer.

This program is intended for use as an environmental durability estimator ONLY. It is the designer's responsibility to choose the proper culvert to meet all structural and hydraulic requirements. For all metal pipe, the gage indicated is the minimum allowable for the selected pipe diameter and environmental conditions. Additional gauge requirements must be determined by the designer.

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Florida Department of Transportation

Corrosion Research Laboratory

Culvert Service Life Estimator

Project Name:	SR-826/SR-836
Work Program Item Number:	249581-1-52-01
State Job Number:	
Federal Job Number:	
County:	MIAMI-DADE COUNTY
Elevation:	
Station:	
Designer:	L.F.

Design Life (years)	pH	6.9
100	Resistivity	1810
	Chlorides	63
	Sulfates	9
Manning's n Value		
0.012	Diameter	24

Type Of Culvert	Computed Service Life (years)
Non-Reinforced Concrete (NRCP)	360
Steel-Reinforced Concrete (RCP), Typical Dry Cast	294
16 ga. Aluminum - Spiral Rib (SRAP)	168
12 ga. Aluminized Steel - SPIRAL RIB (SRASP)	120
Polyvinyl Chloride, ASTM F-949 (PVC)	100
High Density Polyethylene, Cl. II (HDPE) *	100
High Density Polyethylene, Cl. I (HDPE) CANNOT be used	
Galvanized Steel (CSP) CANNOT be used	

*HDPE Class II is under interim acceptance and should not be used under limited access facilities, in the Florida Keys, or on certain critical roadways as directed by the District Drainage Engineer.

This program is intended for use as an environmental durability estimator ONLY. It is the designer's responsibility to choose the proper culvert to meet all structural and hydraulic requirements. For all metal pipe, the gage indicated is the minimum allowable for the selected pipe diameter and environmental conditions. Additional gauge requirements must be determined by the designer.

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Corrosion Research Laboratory

Culvert Service Life Estimator

Project Name:	SR-826/SR-836
Work Program Item Number:	249581-1-52-01
State Job Number:	
Federal Job Number:	
County:	MIAMI-DADE COUNTY
Elevation:	
Station:	
Designer:	L.F.

Design Life (years): 25

Manning's n Value: ≥0.020

pH	6.9
Resistivity	1810
Chlorides	63
Sulfates	9
Diameter	18

Type Of Culvert	Computed Service Life (years)
Non-Reinforced Concrete (NRCP)	360
Steel-Reinforced Concrete (RCP), Typical Dry Cast	257
16 ga. Aluminum (CAP)	168
Polyvinyl Chloride, ASTM F-949 (PVC)	100
High Density Polyethylene, Cl. II (HDPE)	100
16 ga. Aluminized Steel (CASP)	70
High Density Polyethylene, Cl. I (HDPE)	50
14 ga. Galvanized Steel (CSP)	30

This program is intended for use as an environmental durability estimator ONLY. It is the designer's responsibility to choose the proper culvert to meet all structural and hydraulic requirements. For all metal pipe, the gage indicated is the minimum allowable for the selected pipe diameter and environmental conditions. Additional gauge requirements must be determined by the designer.

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Corrosion Research Laboratory

Culvert Service Life Estimator

Project Name:	SR-826/SR-836
Work Program Item Number:	249581-1-52-01
State Job Number:	
Federal Job Number:	
County:	MIAMI-DADE COUNTY
Elevation:	
Station:	
Designer:	L.F.

Design Life (years)	pH	6.9
25	Resistivity	1810
	Chlorides	63
	Sulfates	9
Manning's n Value		
≥0.020	Diameter	24

Type Of Culvert	Computed Service Life (years)
Non-Reinforced Concrete (NRCP)	360
Steel-Reinforced Concrete (RCP), Typical Dry Cast	294
16 ga. Aluminum (CAP)	168
Polyvinyl Chloride, ASTM F-949 (PVC)	100
High Density Polyethylene, Cl. II (HDPE)	100
16 ga. Aluminized Steel (CASP)	70
High Density Polyethylene, Cl. I (HDPE)	50
14 ga. Galvanized Steel (CSP)	30

This program is intended for use as an environmental durability estimator ONLY. It is the designer's responsibility to choose the proper culvert to meet all structural and hydraulic requirements. For all metal pipe, the gage indicated is the minimum allowable for the selected pipe diameter and environmental conditions. Additional gauge requirements must be determined by the designer.

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APPENDIX D
WATER QUALITY CALCULATIONS

APCTE Corporation

Made by:	L.F	**Date:**	9/29/10
Checked by:	A.A	**Time:**	10:56 AM

Basin Design Information

Location =	Drainage System 700 (East of S.R. 826)	
DESIGN STORM FREQUENCY =	10	years
TIME OF CONCENTRATION =	10.00	minutes
IMPERVIOUS AREA =	6.77	acres
IMPERVIOUS RUNOFF COEFFICIENT =	0.95	
PERVIOUS AREA =	2.53	acres
PERVIOUS RUNOFF COEFFICIENT =	0.25	
TOTAL AREA =	**9.30**	acres
COMPOSITE RUNOFF COEFFICIENT =	**0.76**	

Water Quality Calculations per SFWMD

WET-DETENTION TREATMENT VOLUME =	2.5" x %impervious AREA or 1" x Total Area	
2.5 inch VOLUME =	1.41	ac.-ft.
1 inch VOLUME =	0.78	ac.-ft.
WET-DETENTION VOLUME trmt =	**1.41**	**ac.-ft.**
DRY-DETENTION VOLUMEtrmt =	WET-DETENTION VOLUME x	75.00%
DRY-DETENTION VOLUME trmt =	**1.06**	**ac.-ft.**
RETENTION VOLUMEtrmt =	WET-DETENTION VOLUME x	50.00%
RETENTION VOLUME trmt =	**0.71**	**ac.-ft.**

TREATMENT VOLUME REQUIRED:

V trmt = 0.71 ac.-ft. or 8.4625 ac.-in.

Water Quality Calculations per DERM

TIME TO GENERATE 1" RUNOFF =	12.29	minutes
REQUIRED WATER QUALITY TREATMENT TIME =	22.29	minutes
STORM INTENSITY =	5.55	in/hr
FLOW Q =	39.17	cfs

TREATMENT VOLUME REQUIRED:

V trmt = 1.20 ac.-ft.

Volume to be treated: 1.20 ac.-ft. or 14.43 ac.-in.

APCTE Corporation

Made by:	L.F	**Date:**	9/29/10
Checked by:	A.A	**Time:**	10:57 AM

Basin Design Information

Location =	Drainage System 700 (West of S.R. 826)	
DESIGN STORM FREQUENCY =	10	years
TIME OF CONCENTRATION =	10.00	minutes
IMPERVIOUS AREA =	10.09	acres
IMPERVIOUS RUNOFF COEFFICIENT =	0.95	
PERVIOUS AREA =	6.21	acres
PERVIOUS RUNOFF COEFFICIENT =	0.25	
TOTAL AREA =	**16.30**	acres
COMPOSITE RUNOFF COEFFICIENT =	**0.68**	

Water Quality Calculations per SFWMD

WET-DETENTION TREATMENT VOLUME =	2.5" x %impervious AREA or 1" x Total Area	
2.5 inch VOLUME =	2.10	ac.-ft.
1 inch VOLUME =	1.36	ac.-ft.
WET-DETENTION VOLUME trmt =	**2.10**	**ac.-ft.**
DRY-DETENTION VOLUMEtrmt =	WET-DETENTION VOLUME x	75.00%
DRY-DETENTION VOLUME trmt =	**1.58**	**ac.-ft.**
RETENTION VOLUMEtrmt =	WET-DETENTION VOLUME x	50.00%
RETENTION VOLUME trmt =	**1.05**	**ac.-ft.**

TREATMENT VOLUME REQUIRED:

V trmt = 1.05 ac.-ft. or 12.6125 ac.-in.

Water Quality Calculations per DERM

TIME TO GENERATE 1" RUNOFF =	14.07	minutes
REQUIRED WATER QUALITY TREATMENT TIME =	24.07	minutes
STORM INTENSITY =	5.41	in/hr
FLOW Q =	60.22	cfs

TREATMENT VOLUME REQUIRED:

V trmt = 2.00 ac.-ft.

Volume to be treated: 2.00 ac.-ft. or 23.96 ac.-in.

APPENDIX E
STAGE-STORAGE CALCULATIONS

STAGE-STORAGE CALCULATIONS
(EAST OF S.R.826)

E-2			
STAGE Ft., NGVD-29	AREA (Ac)	VOLUME (Ac-Ft)	CUMULATIVE VOLUME (Ac-Ft)
4.00	1.27	0.00	0.00
4.50	1.32	0.65	0.65
4.75	1.34	0.33	0.98
4.80	1.35	0.07	1.05
5.00	1.36	0.27	1.32

WEIR ELEVATION = 4.80
TREATMENT PROVIDED = 1.05 Ac-Ft

STAGE-STORAGE CALCULATIONS
(WEST OF S.R.826)

POND 7-1			
STAGE Ft., NGVD-29	AREA (Ac)	VOLUME (Ac-Ft)	CUMULATIVE VOLUME (Ac-Ft)
4.00	0.12	0.00	0.00
4.50	0.17	0.07	0.07
4.75	0.20	0.05	0.12
5.00	0.22	0.05	0.17

D-1			
STAGE Ft., NGVD-29	AREA (Ac)	VOLUME (Ac-Ft)	CUMULATIVE VOLUME (Ac-Ft)
4.00	3.09	0.00	0.00
4.50	3.18	1.57	1.57
4.75	3.22	0.80	2.37
5.00	3.27	0.81	3.18

D-2			
STAGE Ft., NGVD-29	AREA (Ac)	VOLUME (Ac-Ft)	CUMULATIVE VOLUME (Ac-Ft)
4.00	0.03	0.00	0.00
4.50	0.04	0.02	0.02
4.75	0.19	0.03	0.04
5.00	0.352	0.07	0.11

WEIR ELEVATION = 5.00
TREATMENT PROVIDED = 3.46 Ac-Ft

APPENDIX F
POST-DEVELOPMENT CONDITIONS (ICPR MODELING) SYSTEM 700

DRAINAGE SYSTEM 700
POST-DEVELOPMENT CONDITIONS

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Input Data

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Arnello Alfonso, P.E. No. 52566

ENGINEERS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE MAP

SHEET NO. 01

F-1

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE MAP

SHEET NO. 02

F-2

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE MAP

SHEET NO. 03

F-3

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CURVE NUMBER CALCULATIONS (EAST OF S.R. 826)
(POST-DEVELOPMENT CONDITIONS)

BASIN	NODE	TOTAL DRAINAGE AREA (ACRES)	PERVIOUS DRAINAGE AREA (ACRES)	PERVIOUS AREA CURVE NUMBER	IMPERVIOUS DRAINAGE AREA (ACRES)	IMPERVIOUS AREA CURVE NUMBER	COMPOSITE CURVE NUMBER
E2	E-2	2.78	2.53	39	0.25	96	44.13
E2-S29	S-29	0.66	0.00	39	0.66	96	96.00
E2-S31	S-31	0.17	0.00	39	0.17	96	96.00
E2-S33	S-33	0.21	0.00	39	0.21	96	96.00
E2-S35	S-35	0.16	0.00	39	0.16	96	96.00
E2-S36	S-36	0.32	0.00	39	0.32	96	96.00
E2-S40	S-40	0.67	0.00	39	0.67	96	96.00
E2-S41	S-41	0.57	0.00	39	0.57	96	96.00
E2-S43	S-43	0.23	0.00	39	0.23	96	96.00
E2-S68	S-68	0.35	0.00	39	0.35	96	96.00
E2-SDE4	SD-E4	0.27	0.00	39	0.27	96	96.00
E4	E-4	1.47	0.00	39	1.47	96	96.00
B1-11	N-710C	0.56	0.00	39	0.56	96	96.00
B1-06	N7-10E	0.32	0.00	39	0.32	96	96.00
B1-03		0.56	0.00	39	0.56	96	96.00
Total On-Site Area		**9.30**	**2.53**		**6.77**		
OFF-E	F-E	0.93	0.52	39	0.41	96	64.13
OFF-710A	N-710A	1.81	0.66	39	1.15	96	75.22
OFF-710B	N-710B	0.18	0.08	39	0.10	96	70.67
OFF-710C	N-710C	0.07	0.03	39	0.04	96	71.57
OFF-710D	N-710D	0.46	0.18	39	0.28	96	73.70
OFF-710E	N-710E	0.73	0.26	39	0.47	96	75.70
Total Off-Site Area		**4.18**	**1.73**		**2.45**		
Grand Total		**13.48**	**4.26**		**9.22**		

CURVE NUMBER CALCULATIONS (WEST OF S.R. 826) (POST-DEVELOPMENT CONDITIONS)

BASIN	NODE	TOTAL DRAINAGE AREA (ACRES)	PERVIOUS DRAINAGE AREA (ACRES)	PERVIOUS AREA CURVE NUMBER	IMPERVIOUS DRAINAGE AREA (ACRES)	IMPERVIOUS AREA CURVE NUMBER	COMPOSITE CURVE NUMBER
D1	D-1	5.86	4.73	39	1.13	96	49.99
D1-S28	S-28	0.23	0.00	39	0.23	96	96.00
D1-S30	S-30	0.43	0.00	39	0.43	96	96.00
D1-S32	S-32	0.20	0.00	39	0.20	96	96.00
D1-S34	S-34	0.34	0.00	39	0.34	96	96.00
D1-S37	S-37	0.11	0.00	39	0.11	96	96.00
D1-S39	S-39	0.60	0.00	39	0.60	96	96.00
D2	D-2	1.81	0.46	39	1.35	96	81.51
B-701	N-701	0.14	0.14	39	0.00	96	39.00
B1-13	S1-13	0.18	0.18	39	0.00	96	39.00
B1-12	S1-12	1.38	0.70	39	0.68	96	67.09
B1-21	S1-21	0.72	0.00	39	0.72	96	96.00
B1-19	S1-19	0.80	0.00	39	0.80	96	96.00
B1-17	S1-17	0.59	0.00	39	0.59	96	96.00
B1-16	S1-16	0.19	0.00	39	0.19	96	96.00
B1-15	S1-15	0.19	0.00	39	0.19	96	96.00
B1-14	S1-14	0.58	0.00	39	0.58	96	96.00
B1-09	S1-09	0.57	0.00	39	0.57	96	96.00
B1-08	S1-08	0.32	0.00	39	0.32	96	96.00
B1-07	S1-07	0.32	0.00	39	0.32	96	96.00
B1-04	S1-04	0.16	0.00	39	0.16	96	96.00
B1-05	S1-05	0.16	0.00	39	0.16	96	96.00
B1-02	S1-02	0.33	0.00	39	0.33	96	96.00
B1-01	S1-01	0.09	0.00	39	0.09	96	96.00
Total On-Site Area		**16.30**	**6.21**		**10.09**		
OFF-D	F-D	0.99	0.46	39	0.53	96	69.52
OFF-701	N-701	0.23	0.14	39	0.09	96	61.30
OFF-B1-13	S1-13	0.17	0.11	39	0.06	96	59.12
OFF-701B	N-701B	0.22	0.13	39	0.09	96	62.32
OFF-B1-12	S1-12	1.39	0.45	39	0.94	96	77.55
Total Off-Site Area		**3.00**	**1.29**		**1.71**		
Grand Total		**19.30**	**7.50**		**11.80**		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:

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(305) 592-7283 / fax: (305) 593-1594
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ACT ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
836	MIAMI-DADE	249581-1-52-01

NODAL DIAGRAM (SEGMENT 1)

SHEET NO. 01

F-6

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LEGEND

B10-13 0.28 AC CN=90	CONTRIBUTING BASIN BASIN NAME BASIN AREA CURVE NUMBER
S1-12	NODE NAME
GW	BOUNDARY NODE WITH VARIABLE TAILWATER
S37-S39 100'-24" 6.00 9.00	PIPE LINK WITH SIZE LENGTH INVERT ELEVATIONS
RC1	RATING CURVE LINK
WFD-FD2	WEIR LINK
R710E-FE CHANNEL 296' 5.80 5.80	CHANNEL LINK WITH LENGTH AND INVERT ELEVATIONS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007797
Arnaldo Alfonso, P.E. No. 52566

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249581-1-52-01

NODAL DIAGRAM (SEGMENT 1)

SHEET NO. 02

F-7

==== Basins ====

```
        Name: B-701                    Node: N-701                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.140                   Time Shift(hrs): 0.00
       Curve Number: 39.00               Max Allowable Q(cfs): 999999.000
            DCIA(%): 0.00

--------------------------------------------------------------------------------
        Name: B1-01                    Node: S1-01                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.090                   Time Shift(hrs): 0.00
       Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
            DCIA(%): 0.00

--------------------------------------------------------------------------------
        Name: B1-02                    Node: S1-02                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.330                   Time Shift(hrs): 0.00
       Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
            DCIA(%): 0.00

--------------------------------------------------------------------------------
        Name: B1-03                    Node: N-710E                   Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.560                   Time Shift(hrs): 0.00
       Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
            DCIA(%): 0.00

--------------------------------------------------------------------------------
        Name: B1-04                    Node: S1-04                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.160                   Time Shift(hrs): 0.00
       Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
            DCIA(%): 0.00

--------------------------------------------------------------------------------
        Name: B1-05                    Node: S1-05                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN
```

```
Unit Hydrograph: Uh256                    Peaking Factor: 256.0
  Rainfall File:                        Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                Time of Conc(min): 10.00
        Area(ac): 0.160                     Time Shift(hrs): 0.00
    Curve Number: 96.00                 Max Allowable Q(cfs): 999999.000
         DCIA(%): 0.00
```

```
  Name: B1-06                     Node: N-710E                  Status: Onsite
 Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                    Peaking Factor: 256.0
  Rainfall File:                        Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                Time of Conc(min): 10.00
        Area(ac): 0.320                     Time Shift(hrs): 0.00
    Curve Number: 96.00                 Max Allowable Q(cfs): 999999.000
         DCIA(%): 0.00
```

```
  Name: B1-07                     Node: S1-07                   Status: Onsite
 Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                    Peaking Factor: 256.0
  Rainfall File:                        Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                Time of Conc(min): 10.00
        Area(ac): 0.320                     Time Shift(hrs): 0.00
    Curve Number: 96.00                 Max Allowable Q(cfs): 999999.000
         DCIA(%): 0.00
```

```
  Name: B1-08                     Node: S1-08                   Status: Onsite
 Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                    Peaking Factor: 256.0
  Rainfall File:                        Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                Time of Conc(min): 10.00
        Area(ac): 0.320                     Time Shift(hrs): 0.00
    Curve Number: 96.00                 Max Allowable Q(cfs): 999999.000
         DCIA(%): 0.00
```

```
  Name: B1-09                     Node: S1-09                   Status: Onsite
 Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                    Peaking Factor: 256.0
  Rainfall File:                        Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                Time of Conc(min): 10.00
        Area(ac): 0.570                     Time Shift(hrs): 0.00
    Curve Number: 96.00                 Max Allowable Q(cfs): 999999.000
         DCIA(%): 0.00
```

```
  Name: B1-11                     Node: N-710C                  Status: Onsite
 Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                    Peaking Factor: 256.0
  Rainfall File:                        Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                Time of Conc(min): 10.00
        Area(ac): 0.560                     Time Shift(hrs): 0.00
    Curve Number: 96.00                 Max Allowable Q(cfs): 999999.000
         DCIA(%): 0.00
```

```
-----------------------------------------------------------------------------------------------
        Name: B1-12                    Node: S1-12                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                     Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 1.380                   Time Shift(hrs): 0.00
        Curve Number: 67.09               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
        Name: B1-13                    Node: S1-13                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                     Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.180                   Time Shift(hrs): 0.00
        Curve Number: 39.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
        Name: B1-14                    Node: S1-14                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                     Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.580                   Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
        Name: B1-15                    Node: S1-15                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                     Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.190                   Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
        Name: B1-16                    Node: S1-16                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                     Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.190                   Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
        Name: B1-17                    Node: S1-17                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                     Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
```

```
              Area(ac): 0.590                    Time Shift(hrs): 0.00
          Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
         Name: B1-19                    Node: S1-19                    Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                   Peaking Factor: 256.0
         Rainfall File:                   Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
              Area(ac): 0.800                  Time Shift(hrs): 0.00
          Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
         Name: B1-21                    Node: S1-21                    Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                   Peaking Factor: 256.0
         Rainfall File:                   Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
              Area(ac): 0.720                  Time Shift(hrs): 0.00
          Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
         Name: D1                       Node: D-1                      Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                   Peaking Factor: 256.0
         Rainfall File:                   Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
              Area(ac): 5.860                  Time Shift(hrs): 0.00
          Curve Number: 49.99               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
         Name: D1-S28                   Node: S-28                     Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                   Peaking Factor: 256.0
         Rainfall File:                   Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
              Area(ac): 0.230                  Time Shift(hrs): 0.00
          Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
         Name: D1-S30                   Node: S-30                     Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                   Peaking Factor: 256.0
         Rainfall File:                   Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
              Area(ac): 0.430                  Time Shift(hrs): 0.00
          Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
         Name: D1-S32                   Node: S-32                     Status: Onsite
```

```
Group: BASE                          Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                     Peaking Factor: 256.0
  Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
        Area(ac): 0.200                  Time Shift(hrs): 0.00
     Curve Number: 96.00             Max Allowable Q(cfs): 999999.000
          DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
Name: D1-S34                         Node: S-34                    Status: Onsite
Group: BASE                          Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                     Peaking Factor: 256.0
  Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
        Area(ac): 0.340                  Time Shift(hrs): 0.00
     Curve Number: 96.00             Max Allowable Q(cfs): 999999.000
          DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
Name: D1-S37                         Node: S-37                    Status: Onsite
Group: BASE                          Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                     Peaking Factor: 256.0
  Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
        Area(ac): 0.110                  Time Shift(hrs): 0.00
     Curve Number: 96.00             Max Allowable Q(cfs): 999999.000
          DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
Name: D1-S39                         Node: S-39                    Status: Onsite
Group: BASE                          Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                     Peaking Factor: 256.0
  Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
        Area(ac): 0.600                  Time Shift(hrs): 0.00
     Curve Number: 96.00             Max Allowable Q(cfs): 999999.000
          DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
Name: D2                             Node: D-2                     Status: Onsite
Group: BASE                          Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                     Peaking Factor: 256.0
  Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
        Area(ac): 1.810                  Time Shift(hrs): 0.00
     Curve Number: 81.51             Max Allowable Q(cfs): 999999.000
          DCIA(%): 0.00

-----------------------------------------------------------------------------------------------
Name: E2                             Node: E-2                     Status: Onsite
Group: BASE                          Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                     Peaking Factor: 256.0
  Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
        Area(ac): 2.780                  Time Shift(hrs): 0.00
     Curve Number: 44.13             Max Allowable Q(cfs): 999999.000
          DCIA(%): 0.00
```

```
-----------------------------------------------------------------------------------------------------
        Name: E2-S29                    Node: S-29                    Status: Onsite
       Group: BASE                      Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.660                    Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------------
        Name: E2-S31                    Node: S-31                    Status: Onsite
       Group: BASE                      Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.170                    Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------------
        Name: E2-S33                    Node: S-33                    Status: Onsite
       Group: BASE                      Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.210                    Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------------
        Name: E2-S35                    Node: S-35                    Status: Onsite
       Group: BASE                      Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.160                    Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------------
        Name: E2-S36                    Node: S-36                    Status: Onsite
       Group: BASE                      Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
       Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
            Area(ac): 0.320                    Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00

-----------------------------------------------------------------------------------------------------
        Name: E2-S40                    Node: S-40                    Status: Onsite
       Group: BASE                      Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                     Peaking Factor: 256.0
```

```
        Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                  Time of Conc(min): 10.00
            Area(ac): 0.670                     Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
       Name: E2-S41                   Node: S-41                    Status: Onsite
      Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                  Time of Conc(min): 10.00
            Area(ac): 0.570                     Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
       Name: E2-S43                   Node: S-43                    Status: Onsite
      Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                  Time of Conc(min): 10.00
            Area(ac): 0.230                     Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
       Name: E2-S68                   Node: S-68                    Status: Onsite
      Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                  Time of Conc(min): 10.00
            Area(ac): 0.350                     Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
       Name: E2-SDE4                  Node: SD-E4                   Status: Onsite
      Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                  Time of Conc(min): 10.00
            Area(ac): 0.270                     Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
       Name: E4                       Node: E-4                     Status: Onsite
      Group: BASE                     Type: SCS Unit Hydrograph CN

     Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                      Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000                  Time of Conc(min): 10.00
            Area(ac): 1.470                     Time Shift(hrs): 0.00
        Curve Number: 96.00               Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00
```

```
-----------------------------------------------------------------------------------------------
        Name: OFF-701                  Node: N-701                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.230                   Time Shift(hrs): 0.00
        Curve Number: 61.30              Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-701B                 Node: N-701B                   Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.220                   Time Shift(hrs): 0.00
        Curve Number: 62.32              Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-710A                 Node: N-710A                   Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 1.810                   Time Shift(hrs): 0.00
        Curve Number: 75.22              Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-710B                 Node: N-710B                   Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.180                   Time Shift(hrs): 0.00
        Curve Number: 70.67              Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-710C                 Node: N-710C                   Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.070                   Time Shift(hrs): 0.00
        Curve Number: 71.57              Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-710D                 Node: N-710D                   Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

    Unit Hydrograph: Uh256                     Peaking Factor: 256.0
      Rainfall File:                     Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
           Area(ac): 0.460                   Time Shift(hrs): 0.00
```

```
          Curve Number: 73.70              Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-710E                 Node: N-710E                    Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

      Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                   Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
            Area(ac): 0.730                  Time Shift(hrs): 0.00
          Curve Number: 75.70              Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-B1-12                Node: S1-12                     Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

      Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                   Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
            Area(ac): 1.390                  Time Shift(hrs): 0.00
          Curve Number: 77.55              Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-B1-13                Node: S1-13                     Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

      Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                   Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
            Area(ac): 0.170                  Time Shift(hrs): 0.00
          Curve Number: 59.12              Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-D                    Node: F-D                       Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

      Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                   Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
            Area(ac): 0.990                  Time Shift(hrs): 0.00
          Curve Number: 69.52              Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-----------------------------------------------------------------------------------------------
        Name: OFF-E                    Node: F-E                       Status: Onsite
       Group: BASE                     Type: SCS Unit Hydrograph CN

      Unit Hydrograph: Uh256                   Peaking Factor: 256.0
        Rainfall File:                   Storm Duration(hrs): 0.00
  Rainfall Amount(in): 0.000               Time of Conc(min): 10.00
            Area(ac): 0.930                  Time Shift(hrs): 0.00
          Curve Number: 64.13              Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


===============================================================================================
==== Nodes ====================================================================================
===============================================================================================
```

Name: CANAL Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 99.000
Type: Time/Stage

C-4 CANAL

Time(hrs)	Stage(ft)
0.00	3.000
24.00	3.000
48.00	3.000
60.00	3.000
72.00	3.000
96.00	3.000
100.00	3.000

POND 14B1

Name: D-1 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 5.350
Type: Stage/Area

1.43' NAVD
2.93
3.18
3.43
3.78

Stage(ft)	Area(ac)
3.000	3.0900
4.500	3.1800
4.750	3.2200
5.000	3.2700
5.350	3.3300

Name: D-2 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 5.350
Type: Stage/Area

1.43' NAVD
2.43
2.93
3.43
3.78

Stage(ft)	Area(ac)
3.000	0.0001
4.000	0.0260
4.500	0.0350
5.000	0.1732
5.350	0.2374

POND 14B2

Name: E-2 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 9.770
Type: Stage/Area

1.43' NAVD
2.43
2.93
3.18
3.43
3.78
3.98
4.43
5.53
5.71
6.10
6.24
6.43
7.43
8.20

Stage(ft)	Area(ac)
3.000	0.0001
4.000	1.2700
4.500	1.3200
4.750	1.3400
5.000	1.3600
5.350	1.4000
5.550	1.4200
6.000	1.4600
7.100	1.5600
7.280	1.5800
7.670	1.6100
7.810	1.6300
8.000	1.6400
9.000	1.7400
9.770	1.8100

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POND 14B3

```
Name: E-4                    Base Flow(cfs): 0.000          Init Stage(ft): 3.000
Group: BASE                                                 Warn Stage(ft): 6.000
Type: Stage/Area
```

Stage(ft)	Area(ac)
3.000	0.0001
5.000	0.8500
5.350	0.8900
5.550	0.9100
6.000	0.9500

1.43' NAVD
3.43
3.78
3.98
4.43

```
Name: F-D                    Base Flow(cfs): 0.000          Init Stage(ft): 3.000
Group: BASE                                                 Warn Stage(ft): 7.000
Type: Stage/Area
```

Stage(ft)	Area(ac)
3.000	0.0001
6.000	0.5260
6.500	0.8750
7.000	0.9900

1.43' NAVD
4.43
4.93
5.43

```
Name: F-E                    Base Flow(cfs): 0.000          Init Stage(ft): 5.500
Group: BASE                                                 Warn Stage(ft): 8.500
Type: Stage/Area
```

Stage(ft)	Area(ac)
5.500	0.0000
6.000	0.2580
6.500	0.6650
7.000	0.8940
7.500	0.9450
8.000	0.9780
8.500	0.9900

3.93' NAVD
4.43
4.93
5.43
5.93
6.43
6.93

```
Name: GW                     Base Flow(cfs): 0.000          Init Stage(ft): 3.000
Group: BASE                                                 Warn Stage(ft): 99.000
Type: Time/Stage
```

GROUND RECEIVING FRENCH DRAIN EXFILTRATION VOLUME

Time(hrs)	Stage(ft)
0.00	3.000
24.00	3.000
48.00	3.000
60.00	3.000
72.00	3.000
96.00	3.000
100.00	3.000

1.43' NAVD

```
Name: N-701                  Base Flow(cfs): 0.000          Init Stage(ft): 6.293
Group: BASE                                                 Warn Stage(ft): 6.935
Type: Stage/Volume
```

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION XS-701 FOR A D

Stage(ft)	Volume(af)
6.293	0.0000
6.716	0.0018

```
          6.935          0.0041

-----------------------------------------------------------------------------------------
      Name: N-701B              Base Flow(cfs): 0.000          Init Stage(ft): 3.000
     Group: BASE                                              Warn Stage(ft): 7.077
      Type: Stage/Volume

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION FOR A DISTANCE

      Stage(ft)       Volume(af)
--------------- ---------------
          3.000          0.0000
          6.685          0.0121
          6.867          0.0155

-----------------------------------------------------------------------------------------
      Name: N-710A              Base Flow(cfs): 0.000          Init Stage(ft): 6.730
     Group: BASE                                              Warn Stage(ft): 7.584
      Type: Stage/Volume

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION XS-710A FOR A

      Stage(ft)       Volume(af)
--------------- ---------------
          6.730          0.0000
          7.387          0.0027
          7.584          0.0052

-----------------------------------------------------------------------------------------
      Name: N-710B              Base Flow(cfs): 0.000          Init Stage(ft): 5.910
     Group: BASE                                              Warn Stage(ft): 6.988
      Type: Stage/Volume

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION XS-710B FOR A

      Stage(ft)       Volume(af)
--------------- ---------------
          5.910          0.0000
          6.735          0.0023
          6.988          0.0045

-----------------------------------------------------------------------------------------
      Name: N-710C              Base Flow(cfs): 0.000          Init Stage(ft): 5.560
     Group: BASE                                              Warn Stage(ft): 6.758
      Type: Stage/Volume

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION XS-710C FOR A
                                                3.99' NAVD
      Stage(ft)       Volume(af)
--------------- ---------------
          5.560          0.0000
          6.277          0.0031
          6.756          0.0074
                                                4.71' NAVD
-----------------------------------------------------------------------------------------
      Name: N-710D              Base Flow(cfs): 0.000          Init Stage(ft): 5.560
     Group: BASE                                              Warn Stage(ft): 7.289
                                                5.19' NAVD
      Type: Stage/Volume

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION XS-710D FOR A

      Stage(ft)       Volume(af)
--------------- ---------------
          5.560          0.0000
          6.277          0.0031
          6.756          0.0074

-----------------------------------------------------------------------------------------
      Name: N-710E              Base Flow(cfs): 0.000          Init Stage(ft): 5.800
     Group: BASE                                              Warn Stage(ft): 7.302
      Type: Stage/Volume

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION XS-710E FOR A
```

4.23' NAVD

Stage(ft)	Volume(af)
5.800	0.0000
6.822	0.0035
7.220	0.0064

5.25' NAVD

5.65' NAVD

Name: N-FD1 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 99.000
Type: Stage/Volume

STORAGE WITHIN 440' OF 24" FD PLUS TWO (2) DITCH BOTTOM INLETS TYPE G AND ONE (1) DITCH BOTTOM INLET

Stage(ft)	Volume(af)
-8.550	0.0000
-3.000	0.1121
0.500	0.1877
4.500	0.2900
5.560	0.3020
5.800	0.3022
6.800	0.3036
99.000	0.3036

Name: N-FD2 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 99.000
Type: Stage/Volume

STORAGE WITHIN 803' OF 36" FD PLUS FOUR (4) DITCH BOTTOM INLETS TYPE G (7'X7' BOTTOM)

Stage(ft)	Volume(af)
-11.000	0.0000
-6.350	0.2143
-2.850	0.3913
3.500	0.7777
5.000	0.8288
6.000	0.8333
99.000	0.8333

Name: S-28 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 28.300
Type: Stage/Area

22.43' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
24.000	0.0003
28.300	0.0003

26.73' NAVD

Name: S-29 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 28.000
Type: Stage/Area

23.43' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
25.000	0.0003
28.000	0.0003

26.43' NAVD

Name: S-30 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 27.240
Type: Stage/Area

16.93' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
18.500	0.0003
27.240	0.0003

25.67' NAVD

Name: S-31 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 28.290
Type: Stage/Area

17.93' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
19.500	0.0003
28.290	0.0003

26.72' NAVD

Name: S-32 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 23.780
Type: Stage/Area

16.43' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
18.000	0.0003
23.780	0.0003

22.21' NAVD

Name: S-33 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 25.290
Type: Stage/Area

17.73' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
19.300	0.0003
25.290	0.0003

23.72' NAVD

Name: S-34 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 22.010
Type: Stage/Area

11.83' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
13.400	0.0003
22.010	0.0003

20.44' NAVD

Name: S-35 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 23.500
Type: Stage/Area

16.43' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
18.000	0.0003
23.500	0.0003

21.93' NAVD

```
-----------------------------------------------------------------------------------------------
      Name: S-36                Base Flow(cfs): 0.000          Init Stage(ft): 3.000
     Group: BASE                                              Warn Stage(ft): 21.430
      Type: Stage/Area

                                16.23' NAVD
      Stage(ft)          Area(ac)
--------------- ---------------
          3.000             0.0001
         17.800             0.0003
         21.430             0.0003
                                19.86' NAVD
-----------------------------------------------------------------------------------------------
      Name: S-37                Base Flow(cfs): 0.000          Init Stage(ft): 3.000
     Group: BASE                                              Warn Stage(ft): 14.360
      Type: Stage/Area
                                7.43' NAVD

      Stage(ft)          Area(ac)
--------------- ---------------
          3.000             0.0001
          9.000             0.0003
         14.360             0.0003
                                12.79' NAVD
-----------------------------------------------------------------------------------------------
      Name: S-39                Base Flow(cfs): 0.000          Init Stage(ft): 3.000
     Group: BASE                                              Warn Stage(ft): 12.910
      Type: Stage/Area

                                4.43' NAVD
      Stage(ft)          Area(ac)
--------------- ---------------
          3.000             0.0001
          6.000             0.0003
         12.910             0.0003
                                11.34' NAVD
-----------------------------------------------------------------------------------------------
      Name: S-40                Base Flow(cfs): 0.000          Init Stage(ft): 3.000
     Group: BASE                                              Warn Stage(ft): 13.420
      Type: Stage/Area

                                3.88' NAVD
      Stage(ft)          Area(ac)
--------------- ---------------
          3.000             0.0001
          5.450             0.0003
         13.420             0.0003
                                11.85' NAVD
-----------------------------------------------------------------------------------------------
      Name: S-41                Base Flow(cfs): 0.000          Init Stage(ft): 3.000
     Group: BASE                                              Warn Stage(ft): 10.810
      Type: Stage/Area

                                4.43' NAVD
      Stage(ft)          Area(ac)
--------------- ---------------
          3.000             0.0001
          6.000             0.0003
         10.810             0.0003
                                9.24' NAVD
-----------------------------------------------------------------------------------------------
      Name: S-43                Base Flow(cfs): 0.000          Init Stage(ft): 3.000
     Group: BASE                                              Warn Stage(ft): 10.300
      Type: Stage/Area


      Stage(ft)          Area(ac)
```

4.68' NAVD

3.000	0.0001
6.250	0.0003
10.300	0.0003

8.73' NAVD

Name: S-68 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 9.110
Type: Stage/Area

3.53' NAVD

Stage(ft)	Area(ac)
3.000	0.0001
5.100	0.0003
9.110	0.0003

7.54' NAVD

Name: S1-01 Base Flow(cfs): 0.000 Init Stage(ft): 4.500
Group: BASE Warn Stage(ft): 9.510
Type: Stage/Area

Stage(ft)	Area(ac)
3.000	0.0004
9.510	0.0004
10.010	0.0450
10.510	0.0900

Name: S1-02 Base Flow(cfs): 0.000 Init Stage(ft): 3.900
Group: BASE Warn Stage(ft): 8.900
Type: Stage/Area

Stage(ft)	Area(ac)
3.000	0.0004
8.900	0.0004
9.400	0.1650
9.900	0.3300

Name: S1-04 Base Flow(cfs): 0.000 Init Stage(ft): 5.350
Group: BASE Warn Stage(ft): 10.350
Type: Stage/Area

Stage(ft)	Area(ac)
3.350	0.0004
10.350	0.0004
10.850	0.0800
11.350	0.1600

Name: S1-05 Base Flow(cfs): 0.000 Init Stage(ft): 3.800
Group: BASE Warn Stage(ft): 10.190
Type: Stage/Area

Stage(ft)	Area(ac)
3.000	0.0004
10.190	0.0004
10.690	0.0800
11.190	0.1600

```
-----------------------------------------------------------------------------------------
      Name: S1-07                Base Flow(cfs): 0.000          Init Stage(ft): 5.100
     Group: BASE                                               Warn Stage(ft): 14.460
      Type: Stage/Area


      Stage(ft)         Area(ac)
--------------- ---------------
          3.100            0.0004
         14.460            0.0004
         14.960            0.1600
         15.460            0.3200

-----------------------------------------------------------------------------------------
      Name: S1-08                Base Flow(cfs): 0.000          Init Stage(ft): 5.100
     Group: BASE                                               Warn Stage(ft): 14.540
      Type: Stage/Area


      Stage(ft)         Area(ac)
--------------- ---------------
          3.100            0.0004
         14.540            0.0004
         15.040            0.1600
         15.540            0.3200

-----------------------------------------------------------------------------------------
      Name: S1-09                Base Flow(cfs): 0.000          Init Stage(ft): 4.000
     Group: BASE                                               Warn Stage(ft): 13.720
      Type: Stage/Area


      Stage(ft)         Area(ac)
--------------- ---------------
          3.000            0.0004
         13.720            0.0004
         14.220            0.2850
         14.720            0.5700

-----------------------------------------------------------------------------------------
      Name: S1-12                Base Flow(cfs): 0.000          Init Stage(ft): 3.000
     Group: BASE                                               Warn Stage(ft): 6.713
      Type: Stage/Volume

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION FOR A DISTANCE

      Stage(ft)        Volume(af)
--------------- ---------------
          3.000            0.0000
          6.685            0.0121
          6.867            0.0155

-----------------------------------------------------------------------------------------
      Name: S1-13                Base Flow(cfs): 0.000          Init Stage(ft): 4.000
     Group: BASE                                               Warn Stage(ft): 6.856
      Type: Stage/Volume

ASSUME THAT THE STORAGE WITHIN THIS NODE IS EQUAL TO THE STORAGE WITHIN CROSS SECTION FOR A DISTANCE

      Stage(ft)        Volume(af)
--------------- ---------------
          4.000            0.0000
          6.117            0.0026
          6.595            0.0048

-----------------------------------------------------------------------------------------
      Name: S1-14                Base Flow(cfs): 0.000          Init Stage(ft): 19.250
     Group: BASE                                               Warn Stage(ft): 24.280
      Type: Stage/Area
```

1.43' NAVD
5.12
5.30

2.43' NAVD
4.55
5.03

Stage(ft)	Area(ac)
17.250	0.0004
24.280	0.0004
24.780	0.2900
25.280	0.5800

Name: S1-15 Base Flow(cfs): 0.000 Init Stage(ft): 19.150
Group: BASE Warn Stage(ft): 25.290
Type: Stage/Area

Stage(ft)	Area(ac)
17.150	0.0004
25.290	0.0004
25.720	0.0950
26.290	0.1900

Name: S1-16 Base Flow(cfs): 0.000 Init Stage(ft): 19.150
Group: BASE Warn Stage(ft): 25.220
Type: Stage/Area

Stage(ft)	Area(ac)
17.150	0.0004
25.220	0.0004
25.720	0.0950
26.220	0.1900

Name: S1-17 Base Flow(cfs): 0.000 Init Stage(ft): 4.000
Group: BASE Warn Stage(ft): 24.390
Type: Stage/Area

Stage(ft)	Area(ac)
4.000	0.0001
18.850	0.0001
18.860	0.0004
24.390	0.0004
24.890	0.2950
25.390	0.5900

Name: S1-19 Base Flow(cfs): 0.000 Init Stage(ft): 25.750
Group: BASE Warn Stage(ft): 30.890
Type: Stage/Area

Stage(ft)	Area(ac)
23.750	0.0004
30.890	0.0004
31.390	0.4000
31.890	0.8000

Name: S1-20 Base Flow(cfs): 0.000 Init Stage(ft): 25.550
Group: BASE Warn Stage(ft): 33.070
Type: Stage/Area

Stage(ft)	Area(ac)
23.550	0.0004
33.070	0.0004

Name: S1-21 Base Flow(cfs): 0.000 Init Stage(ft): 25.650
Group: BASE Warn Stage(ft): 30.650
Type: Stage/Area

Stage(ft)	Area(ac)
23.650	0.0004
30.650	0.0004
31.150	0.3600
31.650	0.7200

Name: SD-E4 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 9.400
Type: Stage/Area

Stage(ft)	Area(ac)
3.000	0.0001
8.680	0.0003
9.400	0.0003

Name: SD-S43 Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: BASE Warn Stage(ft): 9.820
Type: Stage/Area

Stage(ft)	Area(ac)
3.000	0.0001
6.600	0.0003
9.820	0.0003

==========
==== Cross Sections ==========
==========

Name: XS-701 Group: BASE
Encroachment: No

EXISTING SWALE ADJACENT TO THE SOUTHBOUND S.R.826 AT STA.2011+77.13

Station(ft)	Elevation(ft)	Manning's N
-168.655	6.935	0.060000
-157.312	6.671	0.060000
-152.409	6.409	0.060000
-148.179	6.302	0.060000
-147.429	6.293	0.060000
-143.372	6.385	0.060000
-141.410	6.432	0.060000
-126.081	6.681	0.060000
-124.779	6.716	0.060000
-122.965	6.669	0.060000
-119.677	6.577	0.060000
-118.356	6.993	0.060000
-116.504	7.454	0.060000
-114.324	7.929	0.060000
-43.994	6.340	0.060000

Name: XS-701B Group: BASE
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-168.441	6.867	0.060000
-162.070	6.726	0.060000
-155.722	6.701	0.060000
-147.777	6.559	0.060000
-137.880	4.000	0.060000
-126.000	4.000	0.060000
-118.000	6.000	0.060000
-114.000	6.000	0.060000
-114.000	20.000	0.060000

Name: XS-710A Group: BASE
Encroachment: No

EXISTING SWALE ADJACENT TO THE NORTHBOUND S.R.826 AT STA.2011+77.13

Station(ft)	Elevation(ft)	Manning's N
103.060	16.000	0.060000
103.060	6.730	0.060000
111.297	7.158	0.060000
113.980	7.127	0.060000
123.573	7.154	0.060000
124.959	7.387	0.060000
131.889	7.363	0.060000
134.279	7.453	0.060000
138.240	7.584	0.060000

Name: XS-710B Group: BASE
Encroachment: No

EXISTING SWALE ADJACENT TO THE NORTHBOUND S.R.826 AT STA.2006+00.00

Station(ft)	Elevation(ft)	Manning's N
97.000	10.000	0.060000
97.000	5.910	0.060000
98.591	6.046	0.060000
111.135	6.735	0.060000
115.725	6.660	0.060000
119.123	6.726	0.060000
129.225	6.948	0.060000
134.769	6.988	0.060000

Name: XS-710C Group: BASE
Encroachment: No

EXISTING SWALE ADJACENT TO THE NORTHBOUND S.R.826 AT STA.2005+00.00

Station(ft)	Elevation(ft)	Manning's N
97.000	10.000	0.060000
97.000	5.560	0.060000
101.103	5.560	0.060000
115.411	5.560	0.060000
116.624	5.682	0.060000
122.046	6.277	0.060000
130.440	6.380	0.060000
150.327	6.756	0.060000

8.43' NAVD
3.99
3.99
3.99
4.11
4.71
4.81
5.19

Name: XS-710D Group: BAS

Encroachment: No

EXISTING SWALE ADJACENT TO THE NORTHBOUND S.R.826 AT STA.2004+00.00

Station(ft)	Elevation(ft)	Manning's N
97.510	10.000	0.060000
97.510	5.800	0.060000
101.103	5.560	0.060000
115.411	5.560	0.060000
116.624	5.682	0.060000
122.046	6.277	0.060000
130.440	6.380	0.060000
150.327	6.756	0.060000

Name: XS-710E Group: BASE
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
97.510	20.000	0.060000
97.510	5.800	0.060000
109.510	5.800	0.060000
115.310	6.770	0.060000
128.760	7.300	0.060000
146.658	7.220	0.060000

18.43' NAVD
4.23
4.23
5.2
5.73
5.65

Name: XS-EOUT Group: BASE
Encroachment: No

EXISTING SWALE ADJACENT TO THE NORTHBOUND S.R.826 AT STA.2000+00.00

Station(ft)	Elevation(ft)	Manning's N
97.510	20.000	0.060000
97.510	5.800	0.060000
109.510	5.800	0.060000
114.680	6.662	0.060000
128.646	6.743	0.060000
159.085	6.903	0.060000

18.43' NAVD
4.23
4.23
5.09
5.17
5.33

Name: XS-S1-12 Group: BASE
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-168.441	6.867	0.060000
-162.070	6.726	0.060000
-155.722	6.701	0.060000
-152.250	6.480	0.060000
-142.320	4.000	0.060000
-124.870	4.000	0.060000
-116.870	6.000	0.060000
-114.000	6.000	0.060000
-114.000	20.000	0.060000

5.30' NAVD
5.16
5.13
4.91
2.43
2.43
4.43
4.43
18.43

Name: XS-S1-13 Group: BASE
Encroachment: No

5.03' NAVD
4.81

Station(ft)	Elevation(ft)	Manning's N
-147.212	6.595	0.060000
-145.010	6.380	0.060000

2.43' NAVD
2.43
4.43
4.43
18.43

-135.510	4.000	0.060000
-126.000	4.000	0.060000
-118.000	6.000	0.060000
-114.000	6.000	0.060000
-114.000	20.000	0.060000

Name: XS-WOUT Group: BASE
Encroachment: No

EXISTING SWALE ADJACENT TO THE SOUTHBOUND S.R.826 AT STA.2000+00.00

Station(ft)	Elevation(ft)	Manning's N
-155.751	20.000	0.060000
-155.750	6.636	0.060000
-149.720	6.000	0.060000
-146.720	5.000	0.060000
-133.720	5.000	0.060000
-120.171	7.258	0.060000
-108.140	7.980	0.060000

18.43' NAVD
5.07
4.43
3.43
3.43
5.67
6.41

==== Operating Tables ====

Name: OT1 Group: BASE
Type: Rating Curve
Function: Family of Tailwater-Headwater-Discharge Relationships

EXFILTRATION RATE FOR FRENCH DRAIN 1

Tailwater(ft)	Headwater(ft)	Discharge(cfs)
3.000	3.00	0.00
3.000	3.50	9.60
3.000	4.00	21.16
3.000	8.00	22.10
4.000	4.00	0.00
4.000	8.00	22.10

Name: OT2 Group: BASE
Type: Rating Curve
Function: Family of Tailwater-Headwater-Discharge Relationships

EXFILTRATION RATE FOR FRENCH DRAIN 2

Tailwater(ft)	Headwater(ft)	Discharge(cfs)
3.000	3.00	0.00
3.000	3.50	20.88
3.000	4.00	40.25
3.000	8.00	40.25
4.000	4.00	0.00
4.000	8.00	40.25

==== Pipes ====

Name: D2D1 From Node: D-2 Length(ft): 50.00
Group: BASE To Node: D-1 Count: 1
Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.50
Exit Loss Coef: 0.10
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dn
Stabilizer Option: None

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	48.00	48.00
Rise(in):	48.00	48.00
Invert(ft):	-2.950	-2.950
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

-4.52' NAVD

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name:	E4E2	From Node: E-4	Length(ft):	50.00
Group:	BASE	To Node: E-2	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Horz Ellipse	Horz Ellipse	Flow:	Both
Span(in):	68.00	68.00	Entrance Loss Coef:	0.50
Rise(in):	43.00	43.00	Exit Loss Coef:	0.10
Invert(ft):	-1.000	-1.000	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dn
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

-2.57' NAVD

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Name:	S1-01_S1-02	From Node: S1-01	Length(ft):	10.00
Group:	BASE	To Node: S1-02	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	18.00	18.00	Entrance Loss Coef:	0.50
Rise(in):	18.00	18.00	Exit Loss Coef:	0.10
Invert(ft):	4.500	3.900	Bend Loss Coef:	1.36
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name:	S1-02_S1-05	From Node: S1-02	Length(ft):	204.00
Group:	BASE	To Node: S1-05	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	18.00	18.00	Entrance Loss Coef:	0.50
Rise(in):	18.00	18.00	Exit Loss Coef:	0.10
Invert(ft):	3.900	3.800	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name:	S1-04_S1-05	From Node: S1-04	Length(ft):	3.00
Group:	BASE	To Node: S1-05	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	18.00	18.00	Entrance Loss Coef:	0.50
Rise(in):	18.00	18.00	Exit Loss Coef:	0.10
Invert(ft):	5.350	5.350	Bend Loss Coef:	1.36
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name:	S1-05_S1-07	From Node: S1-05	Length(ft):	197.00
Group:	BASE	To Node: S1-07	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	18.00	18.00	Entrance Loss Coef:	0.50
Rise(in):	18.00	18.00	Exit Loss Coef:	0.10
Invert(ft):	5.200	5.100	Bend Loss Coef:	1.36
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name:	S1-07_S1-08	From Node: S1-07	Length(ft):	3.00
Group:	BASE	To Node: S1-08	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	24.00	24.00	Entrance Loss Coef:	0.50
Rise(in):	24.00	24.00	Exit Loss Coef:	0.10
Invert(ft):	5.100	5.100	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

```
-----------------------------------------------------------------------------------------------------
        Name: S1-08_S1-09          From Node: S1-08              Length(ft): 93.00
       Group: BASE                   To Node: S1-09                   Count: 1
                                                          Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                 Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                               Flow: Both
    Span(in): 24.00           24.00                      Entrance Loss Coef: 0.50
    Rise(in): 24.00           24.00                          Exit Loss Coef: 0.10
  Invert(ft): 5.100           4.900                          Bend Loss Coef: 0.00
 Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                         Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000           0.000                       Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
        Name: S1-09_S1-12          From Node: S1-09              Length(ft): 12.00
       Group: BASE                   To Node: S1-12                   Count: 1
                                                          Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                 Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                               Flow: Both
    Span(in): 24.00           24.00                      Entrance Loss Coef: 0.50
    Rise(in): 24.00           24.00                          Exit Loss Coef: 1.00
  Invert(ft): 4.000           4.000                          Bend Loss Coef: 0.00
 Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                         Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000           0.000                       Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
        Name: S1-14_S1-15          From Node: S1-14              Length(ft): 96.00
       Group: BASE                   To Node: S1-15                   Count: 1
                                                          Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                 Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                               Flow: Both
    Span(in): 18.00           18.00                      Entrance Loss Coef: 0.50
    Rise(in): 18.00           18.00                          Exit Loss Coef: 0.10
  Invert(ft): 19.250          19.150                         Bend Loss Coef: 0.00
 Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                         Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000           0.000                       Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
        Name: S1-15_S1-16          From Node: S1-15              Length(ft): 3.00
```

```
       Group: BASE                    To Node: S1-16                    Count: 1
                                                              Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                   Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                                   Flow: Both
    Span(in): 24.00           24.00                      Entrance Loss Coef: 0.50
    Rise(in): 24.00           24.00                          Exit Loss Coef: 0.10
  Invert(ft): 19.150          19.150                         Bend Loss Coef: 0.00
 Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                          Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000           0.000                       Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
        Name: S1-16_S1-17         From Node: S1-16                Length(ft): 93.00
       Group: BASE                  To Node: S1-17                    Count: 1
                                                              Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                   Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                                   Flow: Both
    Span(in): 24.00           24.00                      Entrance Loss Coef: 0.50
    Rise(in): 24.00           24.00                          Exit Loss Coef: 0.10
  Invert(ft): 19.150          18.850                         Bend Loss Coef: 1.36
 Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                          Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000           0.000                       Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
        Name: S1-17_S1-13         From Node: S1-17                Length(ft): 21.00
       Group: BASE                  To Node: S1-13                    Count: 1
                                                              Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                   Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                                   Flow: Both
    Span(in): 24.00           24.00                      Entrance Loss Coef: 0.50
    Rise(in): 24.00           24.00                          Exit Loss Coef: 1.00
  Invert(ft): 18.850          4.000                          Bend Loss Coef: 0.00
 Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                          Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000           0.000                       Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
        Name: S1-19_S1-20         From Node: S1-19                Length(ft): 104.00
       Group: BASE                  To Node: S1-20                    Count: 1
                                                              Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                   Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                                   Flow: Both
```

```
     Span(in): 18.00          18.00                    Entrance Loss Coef: 0.50
     Rise(in): 18.00          18.00                        Exit Loss Coef: 0.10
   Invert(ft): 25.750         25.550                       Bend Loss Coef: 1.36
  Manning's N: 0.012000       0.012000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                        Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                     Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
         Name: S1-20_S1-15        From Node: S1-20              Length(ft): 297.00
        Group: BASE                 To Node: S1-15                     Count: 1
                                                             Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM                   Solution Algorithm: Most Restrictive
     Geometry: Circular       Circular                                  Flow: Both
     Span(in): 18.00          18.00                        Entrance Loss Coef: 0.50
     Rise(in): 18.00          18.00                            Exit Loss Coef: 0.10
   Invert(ft): 25.550         19.150                           Bend Loss Coef: 1.36
  Manning's N: 0.012000       0.012000                       Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                            Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                         Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
         Name: S1-21_S1-20        From Node: S1-21              Length(ft): 123.00
        Group: BASE                 To Node: S1-20                     Count: 1
                                                             Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM                   Solution Algorithm: Most Restrictive
     Geometry: Circular       Circular                                  Flow: Both
     Span(in): 18.00          18.00                        Entrance Loss Coef: 0.50
     Rise(in): 18.00          18.00                            Exit Loss Coef: 0.10
   Invert(ft): 25.650         25.550                           Bend Loss Coef: 1.36
  Manning's N: 0.012000       0.012000                       Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                            Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                         Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
         Name: S28S30             From Node: S-28               Length(ft): 165.00
        Group: BASE                 To Node: S-30                     Count: 1
                                                             Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM                   Solution Algorithm: Most Restrictive
     Geometry: Circular       Circular                                  Flow: Both
     Span(in): 18.00          18.00                        Entrance Loss Coef: 0.50
     Rise(in): 18.00          18.00                            Exit Loss Coef: 0.10
   Invert(ft): 24.000         23.500                           Bend Loss Coef: 0.00
  Manning's N: 0.012000       0.012000                       Outlet Ctrl Spec: Use dc or tw
```

22.43' NAVD

21.93' NAVD

```
 Top Clip(in): 0.000          0.000                        Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                     Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
         Name: S29S33              From Node: S-29                Length(ft): 288.00
        Group: BASE                  To Node: S-33                     Count: 1
                                                             Friction Equation: Automatic
               UPSTREAM        DOWNSTREAM                 Solution Algorithm: Most Restrictive
     Geometry: Circular        Circular                               Flow: Both
     Span(in): 18.00           18.00                      Entrance Loss Coef: 0.50
     Rise(in): 18.00           18.00                          Exit Loss Coef: 0.10
   Invert(ft): 25.000          19.300                         Bend Loss Coef: 0.00
  Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000           0.000                          Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000           0.000                       Stabilizer Option: None
```

23.43' NAVD

17.73' NAVD

```
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


-----------------------------------------------------------------------------------------------------
         Name: S30S32              From Node: S-30                Length(ft): 70.00
        Group: BASE                  To Node: S-32                     Count: 1
                                                             Friction Equation: Automatic
               UPSTREAM        DOWNSTREAM                 Solution Algorithm: Most Restrictive
     Geometry: Circular        Circular                               Flow: Both
     Span(in): 18.00           18.00                      Entrance Loss Coef: 0.50
     Rise(in): 18.00           18.00                          Exit Loss Coef: 0.10
   Invert(ft): 18.500          18.000                         Bend Loss Coef: 0.00
  Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000           0.000                          Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000           0.000                       Stabilizer Option: None
```

16.93' NAVD

16.43' NAVD

```
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

S31S29

```
-----------------------------------------------------------------------------------------------------
         Name: S31S33              From Node: S-31                Length(ft): 110.00
        Group: BASE                  To Node: S-33                     Count: 1
                                                             Friction Equation: Automatic
               UPSTREAM        DOWNSTREAM                 Solution Algorithm: Most Restrictive
     Geometry: Circular        Circular                               Flow: Both
     Span(in): 18.00           18.00                      Entrance Loss Coef: 0.50
     Rise(in): 18.00           18.00                          Exit Loss Coef: 0.10
   Invert(ft): 19.500          19.300                         Bend Loss Coef: 0.00
  Manning's N: 0.012000        0.012000                     Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000           0.000                          Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000           0.000                       Stabilizer Option: None
```

17.93' NAVD

17.73' NAVD

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

S30S34 S-30

```
---------------------------------------------------------------------------------------------------
         Name: S32S34              From Node: S-32              Length(ft): 167.00
        Group: BASE                  To Node: S-34                   Count: 1
                                                          Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM                  Solution Algorithm: Most Restrictive
     Geometry: Circular       Circular                               Flow: Both
     Span(in): 18.00          18.00                     Entrance Loss Coef: 0.50
     Rise(in): 18.00          18.00                         Exit Loss Coef: 0.10
   Invert(ft): 18.000         13.400                        Bend Loss Coef: 0.00
  Manning's N: 0.012000       0.012000                    Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                         Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                      Stabilizer Option: None
```

16.43' NAVD 11.83' NAVD

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

```
---------------------------------------------------------------------------------------------------
         Name: S33S35              From Node: S-33              Length(ft): 115.00
        Group: BASE                  To Node: S-35                   Count: 1
                                                          Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM                  Solution Algorithm: Most Restrictive
     Geometry: Circular       Circular                               Flow: Both
     Span(in): 18.00          18.00                     Entrance Loss Coef: 0.50
     Rise(in): 18.00          18.00                         Exit Loss Coef: 0.10
   Invert(ft): 19.300         18.000                        Bend Loss Coef: 0.00
  Manning's N: 0.012000       0.012000                    Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                         Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                      Stabilizer Option: None
```

17.73' NAVD 16.43' NAVD

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

```
---------------------------------------------------------------------------------------------------
         Name: S34S37              From Node: S-34              Length(ft): 200.00
        Group: BASE                  To Node: S-37                   Count: 1
                                                          Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM                  Solution Algorithm: Most Restrictive
     Geometry: Circular       Circular                               Flow: Both
     Span(in): 24.00          24.00                     Entrance Loss Coef: 0.50
     Rise(in): 24.00          24.00                         Exit Loss Coef: 0.10
   Invert(ft): 13.400         9.000                         Bend Loss Coef: 0.00
  Manning's N: 0.012000       0.012000                    Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                         Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                      Stabilizer Option: None
```

11.83' NAVD 7.43' NAVD

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name:	S35E2	From Node: S-35	Length(ft):	73.00
Group:	BASE	To Node: E-2	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	18.00	18.00	Entrance Loss Coef:	0.50
Rise(in):	18.00	18.00	Exit Loss Coef:	0.10
Invert(ft):	18.000	4.500	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dn
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

16.43' NAVD

2.93' NAVD

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name:	S36S40	From Node: S-36	Length(ft):	288.00
Group:	BASE	To Node: S-40	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	18.00	18.00	Entrance Loss Coef:	0.50
Rise(in):	18.00	18.00	Exit Loss Coef:	0.10
Invert(ft):	17.800	9.150	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dn
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

16.23' NAVD

7.58' NAVD

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name:	S37S39	From Node: S-37	Length(ft):	100.00
Group:	BASE	To Node: S-39	Count:	1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	24.00	24.00	Entrance Loss Coef:	0.50
Rise(in):	24.00	24.00	Exit Loss Coef:	0.10
Invert(ft):	9.000	6.000	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dn
Bot Clip(in):	0.000	0.000	Stabilizer Option:	None

7.43' NAVD

4.43' NAVD

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

```
-----------------------------------------------------------------------------------------------------
        Name: S39D1                 From Node: S-39                Length(ft): 78.00
       Group: BASE                    To Node: D-1                     Count: 1
                                                             Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                   Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                                  Flow: Both
    Span(in): 24.00           24.00                        Entrance Loss Coef: 0.50
    Rise(in): 24.00           24.00                            Exit Loss Coef: 0.10
  Invert(ft): 6.000           4.500                            Bend Loss Coef: 0.00
 Manning's N: 0.012000        0.012000                       Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                            Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000           0.000                         Stabilizer Option: None
```

4.43' NAVD

2.93' NAVD

```
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

```
-----------------------------------------------------------------------------------------------------
        Name: S40E2                 From Node: S-40                Length(ft): 113.00
       Group: BASE                    To Node: E-2                     Count: 1
                                                             Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                   Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                                  Flow: Both
    Span(in): 24.00           24.00                        Entrance Loss Coef: 0.50
    Rise(in): 24.00           24.00                            Exit Loss Coef: 0.10
  Invert(ft): 5.450           4.000                            Bend Loss Coef: 0.00
 Manning's N: 0.012000        0.012000                       Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                            Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000           0.000                         Stabilizer Option: None
```

3.88' NAVD

2.43' NAVD

```
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

```
-----------------------------------------------------------------------------------------------------
        Name: S41S40                From Node: S-41                Length(ft): 288.00
       Group: BASE                    To Node: S-40                     Count: 1
                                                             Friction Equation: Automatic
              UPSTREAM        DOWNSTREAM                   Solution Algorithm: Most Restrictive
    Geometry: Circular        Circular                                  Flow: Both
    Span(in): 24.00           24.00                        Entrance Loss Coef: 0.50
    Rise(in): 24.00           24.00                            Exit Loss Coef: 0.10
  Invert(ft): 6.000           5.450                            Bend Loss Coef: 0.00
 Manning's N: 0.012000        0.012000                       Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000           0.000                            Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000           0.000                         Stabilizer Option: None
```

4.43' NAVD

3.88' NAVD

```
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

```
-----------------------------------------------------------------------------------------------------
        Name: S43S41                From Node: S-43                Length(ft): 118.00
       Group: BASE                    To Node: S-41                     Count: 1
```

```
                                                        Friction Equation: Automatic
                UPSTREAM        DOWNSTREAM            Solution Algorithm: Most Restrictive
     Geometry: Circular        Circular                            Flow: Both
     Span(in): 24.00           24.00                 Entrance Loss Coef: 0.50
     Rise(in): 24.00           24.00                     Exit Loss Coef: 0.10
   Invert(ft): 6.250           6.000                     Bend Loss Coef: 0.00
  Manning's N: 0.012000        0.012000                Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000           0.000                     Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000           0.000                  Stabilizer Option: None
```

4.68' NAVD

4.43' NAVD

```
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

```
         Name: S68E2                 From Node: S-68              Length(ft): 43.00
        Group: BASE                    To Node: E-2                    Count: 1
                                                        Friction Equation: Automatic
                UPSTREAM        DOWNSTREAM            Solution Algorithm: Most Restrictive
     Geometry: Circular        Circular                            Flow: Both
     Span(in): 18.00           18.00                 Entrance Loss Coef: 0.50
     Rise(in): 18.00           18.00                     Exit Loss Coef: 0.10
   Invert(ft): 5.100           4.000                     Bend Loss Coef: 0.00
  Manning's N: 0.012000        0.012000                Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000           0.000                     Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000           0.000                  Stabilizer Option: None
```

3.53' NAVD

2.43' NAVD

```
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

```
         Name: SDS43S43              From Node: SD-S43            Length(ft): 140.00
        Group: BASE                    To Node: S-43                   Count: 1
                                                        Friction Equation: Automatic
                UPSTREAM        DOWNSTREAM            Solution Algorithm: Most Restrictive
     Geometry: Circular        Circular                            Flow: Both
     Span(in): 18.00           18.00                 Entrance Loss Coef: 0.50
     Rise(in): 18.00           18.00                     Exit Loss Coef: 0.10
   Invert(ft): 6.600           6.250                     Bend Loss Coef: 0.00
  Manning's N: 0.012000        0.012000                Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000           0.000                     Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000           0.000                  Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

```
         Name: SFD1E4                From Node: N-FD1             Length(ft): 278.00
        Group: BASE                    To Node: E-4                    Count: 1
                                                        Friction Equation: Automatic
                UPSTREAM        DOWNSTREAM            Solution Algorithm: Most Restrictive
     Geometry: Circular        Circular                            Flow: Both
     Span(in): 24.00           24.00                 Entrance Loss Coef: 0.50
```

```
     Rise(in): 24.00          24.00                    Exit Loss Coef: 0.10
   Invert(ft): 1.000          0.500                     Bend Loss Coef: 0.00
  Manning's N: 0.012000       0.012000               Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                   Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                 Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


=================================================================================
==== Channels ===================================================================
=================================================================================

          Name: 701_S1-13          From Node: N-701              Length(ft): 359.00
         Group: BASE                 To Node: S1-13                   Count: 1

                UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
     Geometry:  Irregular      Irregular               Solution Algorithm: Automatic
    Invert(ft): 6.293          4.000                              Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                  Contraction Coef: 0.000
   Manning's N:                                              Expansion Coef: 0.000
  Top Clip(ft): 0.000          0.000                  Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000          0.000                      Exit Loss Coef: 0.000
     Main XSec: XS-701         XS-S1-13                  Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                     Inlet Ctrl Spec: Use dn
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------------
          Name: 701B_S1-12         From Node: N-701B             Length(ft): 68.00
         Group: BASE                 To Node: S1-12                   Count: 1

                UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
     Geometry:  Irregular      Irregular               Solution Algorithm: Automatic
    Invert(ft): 4.000          4.000                              Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                  Contraction Coef: 0.000
   Manning's N:                                              Expansion Coef: 0.000
  Top Clip(ft): 0.000          0.000                  Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000          0.000                      Exit Loss Coef: 0.000
     Main XSec: XS-701B        XS-S1-12                  Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                     Inlet Ctrl Spec: Use dn
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------------
          Name: R710A-710B         From Node: N-710A             Length(ft): 608.00
         Group: BASE                 To Node: N-710B                   Count: 1

                UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
     Geometry:  Irregular      Irregular               Solution Algorithm: Automatic
```

2.43' NAVD

```
    Invert(ft): 6.730          5.910                                  Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                   Contraction Coef: 0.000
   Manning's N:                                             Expansion Coef: 0.000
  Top Clip(ft): 0.000          0.000                    Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000          0.000                        Exit Loss Coef: 0.000
     Main XSec: XS-710A        XS-710B                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                       Inlet Ctrl Spec: Use dn
     Aux XSec1:                                           Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-----------------------------------------------------------------------------------------------------
          Name: R710B-710C          From Node: N-710B              Length(ft): 65.00
         Group: BASE                  To Node: N-710C                   Count: 1

                UPSTREAM        DOWNSTREAM                   Friction Equation: Automatic
      Geometry: Irregular       Irregular                  Solution Algorithm: Automatic
    Invert(ft): 5.910           5.560                                  Flow: Both
 TClpInitZ(ft): 9999.000        9999.000                   Contraction Coef: 0.000
   Manning's N:                                             Expansion Coef: 0.000
  Top Clip(ft): 0.000           0.000                    Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000           0.000                        Exit Loss Coef: 0.000
     Main XSec: XS-710B         XS-710C                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dn
     Aux XSec1:                                           Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-----------------------------------------------------------------------------------------------------
          Name: R710C-710D          From Node: N-710C              Length(ft): 25.00
         Group: BASE                  To Node: N-710D                   Count: 1

                UPSTREAM        DOWNSTREAM                   Friction Equation: Automatic
      Geometry: Irregular       Irregular                  Solution Algorithm: Automatic
    Invert(ft): 5.560           5.560                                  Flow: Both
 TClpInitZ(ft): 9999.000        9999.000                   Contraction Coef: 0.000
   Manning's N:                                             Expansion Coef: 0.000
  Top Clip(ft): 0.000           0.000                    Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000           0.000                        Exit Loss Coef: 0.000
     Main XSec: XS-710C         XS-710D                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dn
     Aux XSec1:                                           Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-----------------------------------------------------------------------------------------------------
          Name: R710D-710E          From Node: N-710D              Length(ft): 173.00
         Group: BASE                  To Node: N-710E                   Count: 1

                UPSTREAM        DOWNSTREAM                   Friction Equation: Automatic
      Geometry: Irregular       Irregular                  Solution Algorithm: Automatic
    Invert(ft): 5.560           5.800                                  Flow: Both
```

3.99' NAVD

4.23' NAVD

```
 TClpInitZ(ft): 9999.000        9999.000                    Contraction Coef: 0.000
   Manning's N:                                               Expansion Coef: 0.000
  Top Clip(ft): 0.000           0.000                    Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000           0.000                        Exit Loss Coef: 0.000
     Main XSec: XS-710D         XS-710E                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dn
     Aux XSec1:                                            Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-----------------------------------------------------------------------------------------------------------
          Name: R710E-FE            From Node: N-710E              Length(ft): 296.00
         Group: BASE                  To Node: F-E                      Count: 1

                UPSTREAM        DOWNSTREAM                   Friction Equation: Automatic
      Geometry: Irregular       Irregular                  Solution Algorithm: Automatic
    Invert(ft): 5.800           5.800                                  Flow: Both
 TClpInitZ(ft): 9999.000        9999.000                     Contraction Coef: 0.000
   Manning's N:                                                 Expansion Coef: 0.000
  Top Clip(ft): 0.000           0.000                    Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000           0.000                        Exit Loss Coef: 0.000
     Main XSec: XS-710E         XS-EOUT                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dn
     Aux XSec1:                                            Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):
```

4.23' NAVD

```
-----------------------------------------------------------------------------------------------------------
          Name: S1-12_FD            From Node: S1-12               Length(ft): 492.00
         Group: BASE                  To Node: F-D                      Count: 1

                UPSTREAM        DOWNSTREAM                   Friction Equation: Automatic
      Geometry: Irregular       Irregular                  Solution Algorithm: Automatic
    Invert(ft): 4.000           5.000                                  Flow: Both
 TClpInitZ(ft): 9999.000        9999.000                     Contraction Coef: 0.000
   Manning's N:                                                 Expansion Coef: 0.000
  Top Clip(ft): 0.000           0.000                    Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000           0.000                        Exit Loss Coef: 0.000
     Main XSec: XS-S1-12        XS-WOUT                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dn
     Aux XSec1:                                            Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):
```

2.43' NAVD

3.43' NAVD

```
-----------------------------------------------------------------------------------------------------------
          Name: S1-13_701B          From Node: S1-13               Length(ft): 248.00
         Group: BASE                  To Node: N-701B                   Count: 1

                UPSTREAM        DOWNSTREAM                   Friction Equation: Automatic
      Geometry: Irregular       Irregular                  Solution Algorithm: Automatic
    Invert(ft): 4.000           4.000                                  Flow: Both
 TClpInitZ(ft): 9999.000        9999.000                     Contraction Coef: 0.000
```

2.43' NAVD

```
   Manning's N:                                          Expansion Coef: 0.000
  Top Clip(ft): 0.000          0.000                  Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000          0.000                      Exit Loss Coef: 0.000
     Main XSec: XS-S1-13       XS-701B                  Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                     Inlet Ctrl Spec: Use dn
     Aux XSec1:                                         Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-----------------------------------------------------------------------------------------------------
          Name: SDE4S43_1          From Node: SD-E4              Length(ft): 85.00
         Group: BASE                 To Node: SD-S43                 Count: 1

                UPSTREAM       DOWNSTREAM                  Friction Equation: Automatic
     Geometry: Trapezoidal    Trapezoidal                Solution Algorithm: Automatic
    Invert(ft): 8.680         7.770                                  Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                     Contraction Coef: 0.000
   Manning's N: 0.012000      0.012000                       Expansion Coef: 0.000
  Top Clip(ft): 0.000         0.000                      Entrance Loss Coef: 0.500
  Bot Clip(ft): 0.000         0.000                          Exit Loss Coef: 0.000
     Main XSec:                                            Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft):                                             Inlet Ctrl Spec: Use dn
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft):
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft): 1.000         1.000
  LtSdSlp(h/v): 1.00          1.00
  RtSdSlp(h/v): 1.00          1.00


-----------------------------------------------------------------------------------------------------
          Name: SDE4S43_2          From Node: SD-S43             Length(ft): 140.00
         Group: BASE                 To Node: S-43                   Count: 1

                UPSTREAM       DOWNSTREAM                  Friction Equation: Automatic
     Geometry: Trapezoidal    Trapezoidal                Solution Algorithm: Automatic
    Invert(ft): 9.190         8.340                                  Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                     Contraction Coef: 0.000
   Manning's N: 0.012000      0.012000                       Expansion Coef: 0.000
  Top Clip(ft): 0.000         0.000                      Entrance Loss Coef: 0.500
  Bot Clip(ft): 0.000         0.000                          Exit Loss Coef: 0.000
     Main XSec:                                            Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft):                                             Inlet Ctrl Spec: Use dn
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft):
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft): 1.000         1.000
  LtSdSlp(h/v): 1.00          1.00
  RtSdSlp(h/v): 1.00          1.00


=================================================================================
==== Drop Structures ============================================================
=================================================================================

          Name: DISCH-D1          From Node: D-1                Length(ft): 90.00
         Group: BASE                 To Node: CANAL                  Count: 3

                UPSTREAM       DOWNSTREAM                  Friction Equation: Automatic
     Geometry: Circular       Circular                   Solution Algorithm: Most Restrictive
```

```
     Span(in): 42.00          42.00                                  Flow: Positive
     Rise(in): 42.00          42.00                   Entrance Loss Coef: 0.500
   Invert(ft): -1.500         -1.750                      Exit Loss Coef: 1.000
  Manning's N: 0.012000       0.012000                  Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                      Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                        Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

-3.32' NAVD

-3.07' NAVD

```
*** Weir 1 of 1 for Drop Structure DISCH-D1 ***
                                                                          TABLE
                 Count: 3                        Bottom Clip(in): 0.000
                  Type: Horizontal                  Top Clip(in): 0.000
                  Flow: Both                     Weir Disc Coef: 3.200
              Geometry: Rectangular            Orifice Disc Coef: 0.600

              Span(in): 36.00                        Invert(ft): 5.000
              Rise(in): 79.00                  Control Elev(ft): 5.000
```

3.43' NAVD

```
-----------------------------------------------------------------------------------------------
         Name: DISCH-E2            From Node: E-2                 Length(ft): 42.00
        Group: BASE                  To Node: CANAL                    Count: 2

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
     Geometry: Circular       Circular                 Solution Algorithm: Most Restrictive
     Span(in): 36.00          36.00                                  Flow: Positive
     Rise(in): 36.00          36.00                   Entrance Loss Coef: 0.500
   Invert(ft): -0.750         -1.350                      Exit Loss Coef: 1.000
  Manning's N: 0.012000       0.012000                  Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                      Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                        Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

-2.92' NAVD

-2.32' NAVD

```
*** Weir 1 of 1 for Drop Structure DISCH-E2 ***
                                                                          TABLE
                 Count: 1                        Bottom Clip(in): 0.000
                  Type: Horizontal                  Top Clip(in): 0.000
                  Flow: Both                     Weir Disc Coef: 3.200
              Geometry: Rectangular            Orifice Disc Coef: 0.600

              Span(in): 72.00                        Invert(ft): 4.800
              Rise(in): 144.00                 Control Elev(ft): 4.800
```

3.23' NAVD

```
==============================================================================
==== Weirs ===================================================================
==============================================================================

         Name: FD_D2               From Node: F-D
        Group: BASE                  To Node: D-2
         Flow: Both                     Count: 1
         Type: Vertical: Fread      Geometry: Rectangular

                   Span(in): 50.00
                   Rise(in): 999999.00
                 Invert(ft): 6.000
       Control Elevation(ft): 6.000
                                                TABLE
             Bottom Clip(in): 0.000
```

4.43' NAVD

```
                Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600


-----------------------------------------------------------------------------------------------
        Name: OFF-E                 From Node: F-E
       Group: BASE                    To Node: E-4
        Flow: Both                      Count: 1
        Type: Vertical: Fread        Geometry: Rectangular

                   Span(in): 488.00
                   Rise(in): 999999.00
                 Invert(ft): 5.500
     Control Elevation(ft): 5.500
                                                TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600
```

3.93' NAVD

```
-----------------------------------------------------------------------------------------------
        Name: S1-12_FD2             From Node: S1-12
       Group: BASE                    To Node: N-FD2
        Flow: Both                      Count: 2
        Type: Horizontal             Geometry: Rectangular

                   Span(in): 60.00
                   Rise(in): 58.00
                 Invert(ft): 4.000
     Control Elevation(ft): 4.000
                                                TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 3.130
     Orifice Discharge Coef: 0.600


-----------------------------------------------------------------------------------------------
        Name: S1-13_FD2             From Node: S1-13
       Group: BASE                    To Node: N-FD2
        Flow: Both                      Count: 1
        Type: Horizontal             Geometry: Rectangular

                   Span(in): 60.00
                   Rise(in): 58.00
                 Invert(ft): 4.000
     Control Elevation(ft): 4.000
                                                TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 3.130
     Orifice Discharge Coef: 0.600


-----------------------------------------------------------------------------------------------
        Name: W710C-FD1             From Node: N-710C
       Group: BASE                    To Node: N-FD1
        Flow: Both                      Count: 1
        Type: Horizontal             Geometry: Rectangular

                   Span(in): 49.00
                   Rise(in): 37.00
                 Invert(ft): 5.560
     Control Elevation(ft): 5.560
                                                TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
```

```
      Weir Discharge Coef: 3.130
   Orifice Discharge Coef: 0.600


-----------------------------------------------------------------------------------------------
      Name: W710E-FD1            From Node: N-710E
     Group: BASE                   To Node: N-FD1
      Flow: Both                     Count: 1
      Type: Horizontal            Geometry: Rectangular

                 Span(in): 60.00
                 Rise(in): 58.00
               Invert(ft): 5.800
    Control Elevation(ft): 5.800
                                            TABLE
          Bottom Clip(in): 0.000
             Top Clip(in): 0.000
      Weir Discharge Coef: 3.130
   Orifice Discharge Coef: 0.600


-----------------------------------------------------------------------------------------------
      Name: WFD_FD2              From Node: F-D
     Group: BASE                   To Node: N-FD2
      Flow: Both                     Count: 1
      Type: Horizontal            Geometry: Rectangular

                 Span(in): 60.00
                 Rise(in): 58.00
               Invert(ft): 5.000
    Control Elevation(ft): 5.000
                                            TABLE
          Bottom Clip(in): 0.000
             Top Clip(in): 0.000
      Weir Discharge Coef: 3.130
   Orifice Discharge Coef: 0.600


-----------------------------------------------------------------------------------------------
      Name: WFE-FD1              From Node: F-E
     Group: BASE                   To Node: N-FD1
      Flow: Both                     Count: 1
      Type: Horizontal            Geometry: Rectangular

                 Span(in): 60.00
                 Rise(in): 58.00
               Invert(ft): 5.800
    Control Elevation(ft): 5.800
                                            TABLE
          Bottom Clip(in): 0.000
             Top Clip(in): 0.000
      Weir Discharge Coef: 3.130
   Orifice Discharge Coef: 0.600


===============================================================================================
==== Rating Curves ============================================================================
===============================================================================================

      Name: RC1                  From Node: N-FD1                    Count: 1
     Group: BASE                   To Node: GW                        Flow: None

          TABLE          ELEV ON(ft)     ELEV OFF(ft)
      #1: OT1            3.010           3.000
      #2:                0.000           0.000
      #3:                0.000           0.000
      #4:                0.000           0.000

EXFILTRATION RATE FOR FRENCH DRAIN 1
```

```
-----------------------------------------------------------------------------------------------------
         Name: RC2                  From Node: N-FD2                    Count: 1
        Group: BASE                   To Node: GW                        Flow: None

               TABLE           ELEV ON(ft)      ELEV OFF(ft)
           #1: OT2             3.010            3.000
           #2:                 0.000            0.000
           #3:                 0.000            0.000
           #4:                 0.000            0.000

EXFILTRATION RATE FOR FRENCH DRAIN 2

=========================================================================================
==== Hydrology Simulations ==============================================================
=========================================================================================

         Name: 100YR-1HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\100YR-1HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 1.00
          Rainfall File: Fdot-1
    Rainfall Amount(in): 5.00

Time(hrs)        Print Inc(min)
--------------- ---------------
1.000            1.00
1.330            1.00

-----------------------------------------------------------------------------------------------------
         Name: 100YR-24HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\100YR-24HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Fdot-24
    Rainfall Amount(in): 13.44

Time(hrs)        Print Inc(min)
--------------- ---------------
8.000            5.00
16.000           1.00
24.000           5.00
24.330           5.00

-----------------------------------------------------------------------------------------------------
         Name: 100YR-72HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\100YR-72HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 16.50

Time(hrs)        Print Inc(min)
--------------- ---------------
48.000           15.00
56.000           5.00
64.000           1.00
72.000           5.00
72.330           5.00

-----------------------------------------------------------------------------------------------------
         Name: 100YR-8HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\100YR-8HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 8.00
          Rainfall File: Fdot-8
    Rainfall Amount(in): 9.60

Time(hrs)        Print Inc(min)
```

```
--------------- ---------------
2.000           5.00
6.000           1.00
8.000           5.00
8.330           5.00

-----------------------------------------------------------------------------------------------------
         Name: 10YR-1HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\10YR-1HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 1.00
          Rainfall File: Fdot-1
    Rainfall Amount(in): 3.50

Time(hrs)       Print Inc(min)
--------------- ---------------
1.000           1.00
1.330           1.00

-----------------------------------------------------------------------------------------------------
         Name: 10YR-24HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\10YR-24HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Fdot-24
    Rainfall Amount(in): 8.88

Time(hrs)       Print Inc(min)
--------------- ---------------
8.000           5.00
16.000          1.00
24.000          5.00
24.330          5.00

-----------------------------------------------------------------------------------------------------
         Name: 10YR-8HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\10YR-8HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 8.00
          Rainfall File: Fdot-8
    Rainfall Amount(in): 6.40

Time(hrs)       Print Inc(min)
--------------- ---------------
2.000           5.00
6.000           1.00
8.000           5.00
8.330           5.00

-----------------------------------------------------------------------------------------------------
         Name: 25YR-72HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\25YR-72HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 14.00

Time(hrs)       Print Inc(min)
--------------- ---------------
48.000          15.00
56.000          5.00
64.000          1.00
72.000          5.00
72.330          5.00

=============================================================================================
==== Routing Simulations ====================================================================
=============================================================================================
```

```
         Name: 100YR-1HR          Hydrology Sim: 100YR-1HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\100YR-1HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.01000
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 25.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages: 1HR                      Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
1.000           1.000
25.000          15.000

Group           Run
--------------- -----
BASE            Yes


-----------------------------------------------------------------------------------------------------
         Name: 100YR-24HR         Hydrology Sim: 100YR-24HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\100YR-24HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.01000
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 48.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages: 100YR-24HR               Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
8.000           5.000
16.000          1.000
24.000          5.000
48.000          15.000

Group           Run
--------------- -----
BASE            Yes


-----------------------------------------------------------------------------------------------------
         Name: 100YR-72HR         Hydrology Sim: 100YR-72HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\100YR-72HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.01000
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 96.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages: 100YR-72HR               Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
8.000           5.000
16.000          1.000
24.000          5.000
96.000          15.000
```

```
Group           Run
--------------- -----
BASE            Yes


-----------------------------------------------------------------------------------------------------
         Name: 100YR-8HR           Hydrology Sim: 100YR-8HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\100YR-8HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.01000
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 36.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages: 100YR-8HR                Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
2.000           5.000
6.000           1.000
8.000           5.000
36.000          15.000

Group           Run
--------------- -----
BASE            Yes


-----------------------------------------------------------------------------------------------------
         Name: 10YR-1HR            Hydrology Sim: 10YR-1HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\10YR-1HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.01000
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 25.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages: 1HR                      Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
1.000           1.000
25.000          15.000

Group           Run
--------------- -----
BASE            Yes


-----------------------------------------------------------------------------------------------------
         Name: 10YR-24HR           Hydrology Sim: 10YR-24HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\10YR-24HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.01000
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 48.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages: 10YR-24HR                Boundary Flows:


Time(hrs)       Print Inc(min)
```

8.000	5.000
16.000	1.000
24.000	5.000
48.000	15.000

Group	Run
BASE	Yes

```
         Name: 10YR-8HR            Hydrology Sim: 10YR-8HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\10YR-8HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.01000
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 36.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages: 10YR-8HR                 Boundary Flows:
```

Time(hrs)	Print Inc(min)
2.000	5.000
6.000	1.000
8.000	5.000
36.000	15.000

Group	Run
BASE	Yes

```
         Name: 25YR-72HR           Hydrology Sim: 25YR-72HR
     Filename: P:\24958115201-SECTION 5\DRAINAGE\ADICPR_APCTE\SYSTEM 7\POST DEV\25YR-72HR.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.01000
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 96.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages: 25YR-72HR                Boundary Flows:
```

Time(hrs)	Print Inc(min)
8.000	5.000
16.000	1.000
24.000	5.000
96.000	15.000

Group	Run
BASE	Yes

```
==========================================================================================
==== Boundary Conditions ================================================================
==========================================================================================

      Name: 10YR-8HR              Node: CANAL                 Type: Stage

      Time(hrs)       Stage(ft)
--------------- ---------------
```

0.000	3.000
8.000	4.000
12.000	4.000
36.000	3.000

Name: 10YR-8HR Node: GW Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
1.000	3.020
2.000	3.130
3.000	3.280
4.000	3.700
5.000	3.860
6.000	3.920
7.000	3.970
8.000	4.000
12.000	3.000
36.000	3.000

Name: 10YR-24HR Node: CANAL Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
12.500	4.000
24.000	4.000
48.000	3.000

Name: 10YR-24HR Node: GW Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
1.000	3.010
2.000	3.030
3.000	3.060
4.000	3.090
5.000	3.120
6.000	3.160
7.000	3.200
8.000	3.240
9.000	3.300
10.000	3.360
11.000	3.440
12.000	3.540
13.000	3.610
14.000	3.670
15.000	3.730
16.000	3.780
17.000	3.820
18.000	3.860
19.000	3.900
20.000	3.930
21.000	3.960
22.000	3.980
23.000	3.990
24.000	4.000
36.000	3.000
48.000	3.000

Name: 25YR-72HR Node: CANAL Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
60.500	4.000
72.000	4.000

96.000	3.000

Name: 25YR-72HR Node: GW Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
24.000	3.110
36.000	3.190
48.000	3.260
49.000	3.270
50.000	3.280
51.000	3.290
52.000	3.300
53.000	3.310
54.000	3.330
55.000	3.340
56.000	3.370
57.000	3.390
57.500	3.400
58.000	3.420
58.500	3.440
59.000	3.460
59.500	3.500
60.000	3.750
60.500	3.800
61.000	3.830
61.500	3.850
62.000	3.870
62.500	3.880
63.000	3.890
64.000	3.910
65.000	3.920
66.000	3.940
68.000	3.960
70.000	3.980
72.000	4.000
96.000	3.000

Name: 1HR Node: CANAL Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
25.000	3.000

Name: 1HR Node: GW Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
25.000	3.000

Name: 100YR-8HR Node: CANAL Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
8.000	4.000
12.000	4.000
36.000	3.000

Name: 100YR-8HR Node: GW Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
1.000	3.020

2.000	3.130
3.000	3.280
4.000	3.700
5.000	3.860
6.000	3.920
7.000	3.970
8.000	4.000
12.000	3.000
36.000	3.000

Name: 100YR-24HR Node: CANAL Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
12.500	4.000
24.000	4.000
48.000	3.000

Name: 100YR-24HR Node: GW Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
1.000	3.010
2.000	3.030
3.000	3.060
4.000	3.090
5.000	3.120
6.000	3.160
7.000	3.200
8.000	3.240
9.000	3.300
10.000	3.360
11.000	3.440
12.000	3.540
13.000	3.610
14.000	3.670
15.000	3.730
16.000	3.780
17.000	3.820
18.000	3.860
19.000	3.900
20.000	3.930
21.000	3.960
22.000	3.980
23.000	3.990
24.000	4.000
36.000	3.000
48.000	3.000

Name: 100YR-72HR Node: CANAL Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
60.500	4.000
72.000	4.000
96.000	3.000

Name: 100YR-72HR Node: GW Type: Stage

Time(hrs)	Stage(ft)
0.000	3.000
24.000	3.110
36.000	3.190
48.000	3.260
49.000	3.270

50.000	3.280
51.000	3.290
52.000	3.300
53.000	3.310
54.000	3.330
55.000	3.340
56.000	3.370
57.000	3.390
57.500	3.400
58.000	3.420
58.500	3.440
59.000	3.460
59.500	3.500
60.000	3.750
60.500	3.800
61.000	3.830
61.500	3.850
62.000	3.870
62.500	3.880
63.000	3.890
64.000	3.910
65.000	3.920
66.000	3.940
68.000	3.960
70.000	3.980
72.000	4.000
96.000	3.000

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK CONNECTIVITY REPORT

Name	Group	From Node	To Node	Type	U/S Geometry	D/S Geometry	Flow Dir	Count
D2D1	BASE	D-2	D-1	Pipe	Circular	Circular	Both	1
E4E2	BASE	E-4	E-2	Pipe	Horz Ellipse	Horz Ellipse	Both	1
S1-01_S1-02	BASE	S1-01	S1-02	Pipe	Circular	Circular	Both	1
S1-02_S1-05	BASE	S1-02	S1-05	Pipe	Circular	Circular	Both	1
S1-04_S1-05	BASE	S1-04	S1-05	Pipe	Circular	Circular	Both	1
S1-05_S1-07	BASE	S1-05	S1-07	Pipe	Circular	Circular	Both	1
S1-07_S1-08	BASE	S1-07	S1-08	Pipe	Circular	Circular	Both	1
S1-08_S1-09	BASE	S1-08	S1-09	Pipe	Circular	Circular	Both	1
S1-09_S1-12	BASE	S1-09	S1-12	Pipe	Circular	Circular	Both	1
S1-14_S1-15	BASE	S1-14	S1-15	Pipe	Circular	Circular	Both	1
S1-15_S1-16	BASE	S1-15	S1-16	Pipe	Circular	Circular	Both	1
S1-16_S1-17	BASE	S1-16	S1-17	Pipe	Circular	Circular	Both	1
S1-17_S1-13	BASE	S1-17	S1-13	Pipe	Circular	Circular	Both	1
S1-19_S1-20	BASE	S1-19	S1-20	Pipe	Circular	Circular	Both	1
S1-20_S1-15	BASE	S1-20	S1-15	Pipe	Circular	Circular	Both	1
S1-21_S1-20	BASE	S1-21	S1-20	Pipe	Circular	Circular	Both	1
S28S30	BASE	S-28	S-30	Pipe	Circular	Circular	Both	1
S29S33	BASE	S-29	S-33	Pipe	Circular	Circular	Both	1
S30S32	BASE	S-30	S-32	Pipe	Circular	Circular	Both	1
S31S33	BASE	S-31	S-33	Pipe	Circular	Circular	Both	1
S32S34	BASE	S-32	S-34	Pipe	Circular	Circular	Both	1
S33S35	BASE	S-33	S-35	Pipe	Circular	Circular	Both	1
S34S37	BASE	S-34	S-37	Pipe	Circular	Circular	Both	1
S35E2	BASE	S-35	E-2	Pipe	Circular	Circular	Both	1
S36S40	BASE	S-36	S-40	Pipe	Circular	Circular	Both	1
S37S39	BASE	S-37	S-39	Pipe	Circular	Circular	Both	1
S39D1	BASE	S-39	D-1	Pipe	Circular	Circular	Both	1
S40E2	BASE	S-40	E-2	Pipe	Circular	Circular	Both	1
S41S40	BASE	S-41	S-40	Pipe	Circular	Circular	Both	1
S43S41	BASE	S-43	S-41	Pipe	Circular	Circular	Both	1
S68E2	BASE	S-68	E-2	Pipe	Circular	Circular	Both	1
SDS43S43	BASE	SD-S43	S-43	Pipe	Circular	Circular	Both	1
SFD1E4	BASE	N-FD1	E-4	Pipe	Circular	Circular	Both	1
701_S1-13	BASE	N-701	S1-13	Channel	Irregular	Irregular	Both	1
701B_S1-12	BASE	N-701B	S1-12	Channel	Irregular	Irregular	Both	1
R710A-710B	BASE	N-710A	N-710B	Channel	Irregular	Irregular	Both	1
R710B-710C	BASE	N-710B	N-710C	Channel	Irregular	Irregular	Both	1
R710C-710D	BASE	N-710C	N-710D	Channel	Irregular	Irregular	Both	1
R710D-710E	BASE	N-710D	N-710E	Channel	Irregular	Irregular	Both	1
R710E-FE	BASE	N-710E	F-E	Channel	Irregular	Irregular	Both	1
S1-12_FD	BASE	S1-12	F-D	Channel	Irregular	Irregular	Both	1
S1-13_701B	BASE	S1-13	N-701B	Channel	Irregular	Irregular	Both	1
SDE4S43_1	BASE	SD-E4	SD-S43	Channel	Trapezoidal	Trapezoidal	Both	1
SDE4S43_2	BASE	SD-S43	S-43	Channel	Trapezoidal	Trapezoidal	Both	1
FD_D2	BASE	F-D	D-2	Vertical WGO Fread	Rectangular		Both	1
OFF-E	BASE	F-E	E-4	Vertical WGO Fread	Rectangular		Both	1
S1-12_FD2	BASE	S1-12	N-FD2	Horizontal WGO	Rectangular		Both	2
S1-13_FD2	BASE	S1-13	N-FD2	Horizontal WGO	Rectangular		Both	1
W710C-FD1	BASE	N-710C	N-FD1	Horizontal WGO	Rectangular		Both	1
W710E-FD1	BASE	N-710E	N-FD1	Horizontal WGO	Rectangular		Both	1
WFD_FD2	BASE	F-D	N-FD2	Horizontal WGO	Rectangular		Both	1
WFE-FD1	BASE	F-E	N-FD1	Horizontal WGO	Rectangular		Both	1
DISCH-D1	BASE	D-1	CANAL	Drop Structure	Circular	Circular	Positive	3
--> slot	BASE	D-1	CANAL	Horizontal WGO	Rectangular		Both	3
DISCH-E2	BASE	E-2	CANAL	Drop Structure	Circular	Circular	Positive	2
--> slot	BASE	E-2	CANAL	Horizontal WGO	Rectangular		Both	1
RC1	BASE	N-FD1	GW	Rating Curve			None	1
RC2	BASE	N-FD2	GW	Rating Curve			None	1

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ICPR Modeling Results

10-Year / 1-Hour Storm
FDOT Distribution

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
10YR-1HR	B-701	BASE	0.89	0.003	0.009	4.4
10YR-1HR	B1-01	BASE	0.64	0.461	3.044	994.6
10YR-1HR	B1-02	BASE	0.64	1.691	3.044	3646.7
10YR-1HR	B1-03	BASE	0.64	2.869	3.044	6188.4
10YR-1HR	B1-04	BASE	0.64	0.820	3.044	1768.1
10YR-1HR	B1-05	BASE	0.64	0.820	3.044	1768.1
10YR-1HR	B1-06	BASE	0.64	1.640	3.044	3536.2
10YR-1HR	B1-07	BASE	0.64	1.640	3.044	3536.2
10YR-1HR	B1-08	BASE	0.64	1.640	3.044	3536.2
10YR-1HR	B1-09	BASE	0.64	2.921	3.044	6298.9
10YR-1HR	B1-11	BASE	0.64	2.869	3.044	6188.4
10YR-1HR	B1-12	BASE	0.76	2.244	0.854	4279.8
10YR-1HR	B1-13	BASE	0.89	0.004	0.009	5.6
10YR-1HR	B1-14	BASE	0.64	2.972	3.044	6409.4
10YR-1HR	B1-15	BASE	0.64	0.974	3.044	2099.6
10YR-1HR	B1-16	BASE	0.64	0.974	3.044	2099.6
10YR-1HR	B1-17	BASE	0.64	3.023	3.044	6519.9
10YR-1HR	B1-19	BASE	0.64	4.099	3.044	8840.6
10YR-1HR	B1-21	BASE	0.64	3.689	3.044	7956.5
10YR-1HR	D1	BASE	0.82	2.522	0.195	4154.9
10YR-1HR	D1-S28	BASE	0.64	1.178	3.044	2541.7
10YR-1HR	D1-S30	BASE	0.64	2.203	3.044	4751.8
10YR-1HR	D1-S32	BASE	0.64	1.025	3.044	2210.1
10YR-1HR	D1-S34	BASE	0.64	1.742	3.044	3757.2
10YR-1HR	D1-S37	BASE	0.64	0.564	3.044	1215.6
10YR-1HR	D1-S39	BASE	0.64	3.074	3.044	6630.4
10YR-1HR	D2	BASE	0.69	5.697	1.746	11468.5
10YR-1HR	E2	BASE	0.84	0.468	0.069	693.5
10YR-1HR	E2-S29	BASE	0.64	3.382	3.044	7293.5
10YR-1HR	E2-S31	BASE	0.64	0.871	3.044	1878.6
10YR-1HR	E2-S33	BASE	0.64	1.076	3.044	2320.7
10YR-1HR	E2-S35	BASE	0.64	0.820	3.044	1768.1
10YR-1HR	E2-S36	BASE	0.64	1.640	3.044	3536.2
10YR-1HR	E2-S40	BASE	0.64	3.433	3.044	7404.0
10YR-1HR	E2-S41	BASE	0.64	2.921	3.044	6298.9
10YR-1HR	E2-S43	BASE	0.64	1.178	3.044	2541.7
10YR-1HR	E2-S68	BASE	0.64	1.793	3.044	3867.8
10YR-1HR	E2-SDE4	BASE	0.64	1.383	3.044	2983.7
10YR-1HR	E4	BASE	0.64	7.532	3.044	16244.6
10YR-1HR	OFF-701	BASE	0.78	0.265	0.585	488.6
10YR-1HR	OFF-701B	BASE	0.76	0.271	0.629	502.5
10YR-1HR	OFF-710A	BASE	0.71	4.378	1.315	8641.2
10YR-1HR	OFF-710B	BASE	0.73	0.352	1.045	682.7
10YR-1HR	OFF-710C	BASE	0.73	0.143	1.096	278.4
10YR-1HR	OFF-710D	BASE	0.71	1.039	1.221	2039.3
10YR-1HR	OFF-710E	BASE	0.71	1.803	1.346	3565.8
10YR-1HR	OFF-B1-12	BASE	0.69	3.721	1.467	7399.9
10YR-1HR	OFF-B1-13	BASE	0.78	0.169	0.496	306.1
10YR-1HR	OFF-D	BASE	0.73	1.829	0.982	3527.6
10YR-1HR	OFF-E	BASE	0.76	1.280	0.711	2399.8

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	10YR-1HR	0.00	3.000	99.000	0.0000	0	0.00	0.000	0.00	0.000
D-1	BASE	10YR-1HR	25.00	3.191	5.350	0.0001	135105	0.93	15.188	0.00	0.000
D-2	BASE	10YR-1HR	25.00	3.189	5.350	-0.0239	223	0.68	5.695	0.30	12.455
E-2	BASE	10YR-1HR	1.19	3.907	9.770	-0.0094	50318	0.11	16.004	0.00	0.000
E-4	BASE	10YR-1HR	1.18	3.905	6.000	0.0098	16771	0.62	8.004	0.11	16.004
F-D	BASE	10YR-1HR	1.33	3.801	7.000	0.0002	7237	0.73	1.829	0.00	0.000
F-E	BASE	10YR-1HR	0.76	5.559	8.500	-0.0001	3160	0.73	1.859	0.76	1.853
GW	BASE	10YR-1HR	0.00	3.000	99.000	0.0000	0	0.76	44.122	0.00	0.000
N-701	BASE	10YR-1HR	0.89	6.401	6.935	0.0001	2277	0.78	0.265	0.90	0.223
N-701B	BASE	10YR-1HR	0.73	4.290	7.077	0.0012	2343	0.63	2.615	0.75	2.319
N-710A	BASE	10YR-1HR	0.88	7.495	7.584	0.0004	8633	0.70	4.373	0.88	3.474
N-710B	BASE	10YR-1HR	0.96	6.447	6.988	0.0003	5013	0.87	3.770	0.97	3.442
N-710C	BASE	10YR-1HR	0.86	5.853	6.758	-0.0003	1017	0.87	5.229	0.89	5.251
N-710D	BASE	10YR-1HR	0.84	5.870	7.289	-0.0002	2065	0.36	0.132	0.00	0.000
N-710E	BASE	10YR-1HR	0.68	5.970	7.302	-0.0002	3301	0.67	4.944	0.68	4.907
N-FD1	BASE	10YR-1HR	0.89	3.703	99.000	0.0003	862	0.80	10.845	0.81	10.718
N-FD2	BASE	10YR-1HR	0.73	3.768	99.000	0.0008	1848	0.72	31.372	0.73	31.276
S-28	BASE	10YR-1HR	1.33	23.854	28.300	0.0054	119	0.65	1.177	0.00	0.000
S-29	BASE	10YR-1HR	0.71	25.964	28.000	0.0136	318	0.65	3.377	0.71	3.221
S-30	BASE	10YR-1HR	0.70	19.262	27.240	0.0090	171	0.65	2.200	0.70	2.121
S-31	BASE	10YR-1HR	1.21	19.826	28.290	0.0054	184	0.65	0.870	1.24	0.165
S-32	BASE	10YR-1HR	0.86	18.789	23.780	0.0079	286	0.70	3.110	0.86	2.334
S-33	BASE	10YR-1HR	0.93	20.000	25.290	0.0066	468	0.70	4.248	0.93	1.839
S-34	BASE	10YR-1HR	0.88	14.279	22.010	0.0071	414	0.86	3.591	0.88	3.469
S-35	BASE	10YR-1HR	1.04	18.536	23.500	0.0093	237	0.93	2.301	1.04	1.688
S-36	BASE	10YR-1HR	0.80	18.374	21.430	0.0066	312	0.65	1.637	0.80	1.347
S-37	BASE	10YR-1HR	0.90	9.914	14.360	0.0038	379	0.88	3.851	0.90	3.773
S-39	BASE	10YR-1HR	0.90	7.180	12.910	0.0055	273	0.89	5.775	0.90	5.741
S-40	BASE	10YR-1HR	0.82	6.957	13.420	0.0050	647	0.79	8.550	0.82	8.462
S-41	BASE	10YR-1HR	0.82	7.139	10.810	0.0059	506	0.76	4.530	0.82	4.386
S-43	BASE	10YR-1HR	0.82	7.177	10.300	0.0036	336	0.76	2.152	0.83	2.063
S-68	BASE	10YR-1HR	0.65	5.778	9.110	0.0037	144	0.65	1.791	0.65	1.789
S1-01	BASE	10YR-1HR	0.69	6.827	9.510	-0.0092	113	0.65	0.460	1.56	2.939
S1-02	BASE	10YR-1HR	0.69	6.826	8.900	-0.0082	121	1.56	2.939	0.69	2.092
S1-04	BASE	10YR-1HR	0.69	6.726	10.350	0.0017	114	0.65	0.819	0.70	0.798
S1-05	BASE	10YR-1HR	0.69	6.724	10.190	0.0031	146	0.68	3.689	0.70	3.688
S1-07	BASE	10YR-1HR	0.69	6.494	14.460	0.0012	172	0.68	5.286	0.69	5.285
S1-08	BASE	10YR-1HR	0.69	6.435	14.540	0.0011	205	0.68	6.890	0.68	6.886
S1-09	BASE	10YR-1HR	0.68	5.993	13.720	-0.0014	210	0.67	9.759	0.68	9.752
S1-12	BASE	10YR-1HR	0.72	4.276	6.713	0.0036	4376	0.71	17.853	0.72	17.804
S1-13	BASE	10YR-1HR	0.71	4.365	6.856	0.0012	3799	0.68	15.787	0.70	15.685
S1-14	BASE	10YR-1HR	0.68	21.392	24.280	0.0016	117	0.65	2.968	0.67	2.940
S1-15	BASE	10YR-1HR	0.68	21.264	25.290	0.0010	287	0.67	11.638	0.68	11.615
S1-16	BASE	10YR-1HR	0.68	21.129	25.220	0.0009	148	0.67	12.576	0.68	12.573
S1-17	BASE	10YR-1HR	0.68	20.464	24.390	0.0230	195	0.67	15.561	0.68	15.552
S1-19	BASE	10YR-1HR	0.67	27.559	30.890	-0.0020	117	0.65	4.093	0.66	4.073
S1-20	BASE	10YR-1HR	0.67	27.302	33.070	-0.0008	185	0.66	7.737	0.67	7.732
S1-21	BASE	10YR-1HR	0.67	27.530	30.650	-0.0017	118	0.65	3.684	0.66	3.665

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SD-E4	BASE	10YR-1HR	0.65	9.078	9.400	0.0053	186	0.65	1.381	0.65	1.380
SD-S43	BASE	10YR-1HR	0.82	7.236	9.820	0.0034	285	0.65	1.380	0.81	1.124

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
701_S1-13	BASE	10YR-1HR	0.90	0.223	-0.050	0.89	6.401	0.71	4.365
701B_S1-12	BASE	10YR-1HR	0.75	2.319	0.339	0.73	4.290	0.72	4.276
D2D1	BASE	10YR-1HR	0.30	12.455	-8.836	25.00	3.189	25.00	3.191
DISCH-D1	BASE	10YR-1HR	0.00	0.000	0.000	25.00	3.191	0.00	3.000
DISCH-E2	BASE	10YR-1HR	0.00	0.000	0.000	1.19	3.907	0.00	3.000
E4E2	BASE	10YR-1HR	0.11	16.004	13.537	1.18	3.905	1.19	3.907
FD_D2	BASE	10YR-1HR	0.00	0.000	0.000	1.33	3.801	25.00	3.189
OFF-E	BASE	10YR-1HR	0.76	1.853	-0.002	0.76	5.559	1.18	3.905
R710A-710B	BASE	10YR-1HR	0.88	3.474	-0.004	0.88	7.495	0.96	6.447
R710B-710C	BASE	10YR-1HR	0.97	3.442	-0.041	0.96	6.447	0.86	5.853
R710C-710D	BASE	10YR-1HR	0.35	0.114	-0.007	0.86	5.853	0.84	5.870
R710D-710E	BASE	10YR-1HR	0.00	0.000	-0.070	0.84	5.870	0.68	5.970
R710E-FE	BASE	10YR-1HR	0.68	0.604	-0.000	0.68	5.970	0.68	5.843
RC1	BASE	10YR-1HR	0.89	14.287	0.192	0.89	3.703	0.00	3.000
RC2	BASE	10YR-1HR	0.73	31.276	0.418	0.73	3.768	0.00	3.000
S1-01_S1-02	BASE	10YR-1HR	1.56	2.939	-3.746	0.69	6.827	0.69	6.826
S1-02_S1-05	BASE	10YR-1HR	0.69	2.092	-0.960	0.69	6.826	0.69	6.724
S1-04_S1-05	BASE	10YR-1HR	0.70	0.798	-0.011	0.69	6.726	0.69	6.724
S1-05_S1-07	BASE	10YR-1HR	0.70	3.688	0.114	0.69	6.724	0.69	6.494
S1-07_S1-08	BASE	10YR-1HR	0.69	5.285	0.019	0.69	6.494	0.69	6.435
S1-08_S1-09	BASE	10YR-1HR	0.68	6.886	0.008	0.69	6.435	0.68	6.023
S1-09_S1-12	BASE	10YR-1HR	0.68	9.752	0.008	0.68	5.993	0.68	5.117
S1-12_FD	BASE	10YR-1HR	0.00	0.000	0.000	0.72	4.276	1.33	3.801
S1-12_FD2	BASE	10YR-1HR	0.72	17.804	0.027	0.72	4.276	0.73	3.768
S1-13_701B	BASE	10YR-1HR	0.63	2.407	0.007	0.71	4.365	0.73	4.290
S1-13_FD2	BASE	10YR-1HR	0.71	13.601	0.036	0.71	4.365	0.73	3.768
S1-14_S1-15	BASE	10YR-1HR	0.67	2.940	0.136	0.68	21.392	0.68	21.264
S1-15_S1-16	BASE	10YR-1HR	0.68	11.615	0.007	0.68	21.264	0.68	21.129
S1-16_S1-17	BASE	10YR-1HR	0.68	12.573	0.009	0.68	21.129	0.68	20.338
S1-17_S1-13	BASE	10YR-1HR	0.68	15.552	-2.242	0.68	20.464	0.68	4.372
S1-19_S1-20	BASE	10YR-1HR	0.66	4.073	-0.251	0.67	27.559	0.67	27.302
S1-20_S1-15	BASE	10YR-1HR	0.67	7.732	0.005	0.67	27.302	0.67	19.867
S1-21_S1-20	BASE	10YR-1HR	0.66	3.665	0.011	0.67	27.530	0.67	27.302
S28S30	BASE	10YR-1HR	0.00	0.000	0.000	1.33	23.854	0.70	19.262
S29S33	BASE	10YR-1HR	0.71	3.221	0.015	0.71	25.964	0.71	19.756
S30S32	BASE	10YR-1HR	0.70	2.121	0.015	0.70	19.262	0.86	18.789
S31S33	BASE	10YR-1HR	1.24	0.165	0.042	0.93	19.829	0.93	20.000
S32S34	BASE	10YR-1HR	0.86	2.334	0.012	0.86	18.789	0.72	13.981
S33S35	BASE	10YR-1HR	0.93	1.839	0.013	0.93	20.000	0.93	18.395
S34S37	BASE	10YR-1HR	0.88	3.469	0.008	0.88	14.279	0.88	9.417
S35E2	BASE	10YR-1HR	1.04	1.688	0.082	1.04	18.536	1.04	4.691
S36S40	BASE	10YR-1HR	0.80	1.347	0.005	0.80	18.374	0.80	9.416
S37S39	BASE	10YR-1HR	0.90	3.773	0.008	0.90	9.914	0.66	6.822
S39D1	BASE	10YR-1HR	0.90	5.741	0.007	0.90	7.180	0.90	5.056
S40E2	BASE	10YR-1HR	0.82	8.462	0.008	0.82	6.957	0.82	4.757
S41S40	BASE	10YR-1HR	0.82	4.386	0.007	0.82	7.139	0.82	6.957
S43S41	BASE	10YR-1HR	0.83	2.063	0.124	0.82	7.177	0.82	7.139
S68E2	BASE	10YR-1HR	0.65	1.789	0.005	0.65	5.778	0.65	4.318

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
SDE4S43_1	BASE	10YR-1HR	0.65	1.380	0.009	0.65	9.078	0.65	8.030
SDE4S43_2	BASE	10YR-1HR	0.00	0.000	0.000	0.82	7.236	0.82	7.177
SDS43S43	BASE	10YR-1HR	0.81	1.124	0.103	0.82	7.236	0.82	7.177
SFD1E4	BASE	10YR-1HR	6.64	1.587	-1.263	0.89	3.703	1.18	3.905
W710C-FD1	BASE	10YR-1HR	0.86	7.133	-0.009	0.86	5.853	0.89	3.703
W710E-FD1	BASE	10YR-1HR	0.68	4.303	-0.004	0.68	5.970	0.89	3.703
WFD_FD2	BASE	10YR-1HR	0.00	0.000	0.000	1.33	3.801	0.73	3.768
WFE-FD1	BASE	10YR-1HR	0.00	0.000	0.000	0.76	5.559	0.89	3.703

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
MASS BALANCE REPORT

Simulation	Time hrs	Inflow Volume ft3	Outflow Volume ft3	Change in Sys Storage ft3	Difference ft3	Error %
10YR-1HR	0.00	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.02	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.03	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.05	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.07	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.08	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.10	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.12	0.5	0.0	0.5	0.0	0.00
10YR-1HR	0.13	2.4	0.0	2.4	0.0	0.00
10YR-1HR	0.15	9.1	0.0	9.1	0.0	0.00
10YR-1HR	0.17	25.5	0.0	25.5	0.0	0.00
10YR-1HR	0.18	58.2	0.0	58.2	-0.0	-0.00
10YR-1HR	0.20	114.7	0.9	113.8	-0.0	-0.00
10YR-1HR	0.22	209.8	11.5	198.3	-0.0	-0.00
10YR-1HR	0.23	361.7	24.6	337.1	0.0	0.00
10YR-1HR	0.25	586.0	40.4	545.6	-0.0	-0.00
10YR-1HR	0.27	899.8	65.0	834.8	-0.0	-0.00
10YR-1HR	0.28	1327.7	99.5	1228.2	-0.0	-0.00
10YR-1HR	0.30	1893.1	145.2	1747.9	-0.0	-0.00
10YR-1HR	0.32	2613.6	203.5	2410.1	-0.0	-0.00
10YR-1HR	0.33	3508.2	276.1	3232.1	0.0	0.00
10YR-1HR	0.35	4604.9	364.7	4240.2	-0.0	-0.00
10YR-1HR	0.37	5937.8	474.0	5463.8	-0.0	-0.00
10YR-1HR	0.38	7537.7	632.0	6905.6	0.0	0.00
10YR-1HR	0.40	9431.3	831.8	8599.5	-0.0	-0.00
10YR-1HR	0.42	11637.3	1082.2	10555.1	-0.0	-0.00
10YR-1HR	0.43	14161.9	1390.4	12771.5	-0.0	-0.00
10YR-1HR	0.45	17004.7	1761.9	15242.8	-0.0	-0.00
10YR-1HR	0.47	20163.6	2199.9	17963.6	0.0	0.00
10YR-1HR	0.48	23633.0	2707.3	20925.7	0.0	0.00
10YR-1HR	0.50	27402.6	3307.3	24095.3	0.0	0.00
10YR-1HR	0.52	31458.3	4120.1	27338.2	-0.0	-0.00
10YR-1HR	0.53	35783.0	5211.1	30571.9	-0.0	-0.00
10YR-1HR	0.55	40352.5	6539.8	33812.7	-0.0	-0.00
10YR-1HR	0.57	45139.8	8055.5	37084.3	0.0	0.00
10YR-1HR	0.58	50122.4	9722.5	40399.9	-0.0	-0.00
10YR-1HR	0.60	55280.1	11515.5	43764.6	-0.0	-0.00
10YR-1HR	0.62	60583.1	13415.2	47167.9	-0.0	-0.00
10YR-1HR	0.63	65998.5	15411.7	50586.8	-0.0	-0.00
10YR-1HR	0.65	71498.3	17512.7	53985.7	-0.0	-0.00
10YR-1HR	0.67	77049.3	19774.9	57274.4	-0.0	-0.00
10YR-1HR	0.68	82601.0	22189.1	60411.9	-0.0	-0.00
10YR-1HR	0.70	88112.3	24709.5	63402.7	-0.0	-0.00
10YR-1HR	0.72	93567.0	27295.8	66271.2	0.0	0.00
10YR-1HR	0.73	98952.3	29919.6	69032.8	0.0	0.00
10YR-1HR	0.75	104254.4	32561.6	71692.8	-0.0	-0.00
10YR-1HR	0.77	109457.4	35208.5	74248.9	-0.0	-0.00
10YR-1HR	0.78	114548.5	37850.4	76698.1	-0.0	-0.00
10YR-1HR	0.80	119518.2	40479.3	79038.9	-0.0	-0.00
10YR-1HR	0.82	124354.9	43088.3	81266.6	-0.0	-0.00
10YR-1HR	0.83	129046.2	45671.1	83375.1	-0.0	-0.00
10YR-1HR	0.85	133578.4	48221.7	85356.7	-0.0	-0.00
10YR-1HR	0.87	137931.1	50734.0	87197.1	-0.0	-0.00
10YR-1HR	0.88	142103.3	53220.4	88882.9	-0.0	-0.00
10YR-1HR	0.90	146019.0	55640.5	90378.5	-0.0	-0.00
10YR-1HR	0.92	149656.3	57969.1	91687.2	-0.0	-0.00
10YR-1HR	0.93	153135.6	60273.3	92862.4	-0.0	-0.00
10YR-1HR	0.95	156376.5	62488.3	93888.2	-0.0	-0.00
10YR-1HR	0.97	159420.1	64630.5	94789.6	-0.0	-0.00
10YR-1HR	0.98	162277.6	66698.4	95579.2	-0.0	-0.00
10YR-1HR	1.00	164960.0	68691.5	96268.6	-0.0	-0.00
10YR-1HR	1.25	190015.5	91360.8	98654.7	-0.0	-0.00
10YR-1HR	1.50	193920.3	103956.8	89963.5	-0.0	-0.00
10YR-1HR	1.75	193920.3	111730.3	82190.0	0.0	0.00
10YR-1HR	2.00	193920.3	118174.6	75745.7	0.0	0.00
10YR-1HR	2.25	193920.3	123613.9	70306.4	0.0	0.00
10YR-1HR	2.50	193920.3	128013.4	65906.9	0.0	0.00
10YR-1HR	2.75	193920.3	131170.6	62749.7	0.0	0.00
10YR-1HR	3.00	193920.3	132529.7	61390.6	0.0	0.00
10YR-1HR	3.25	193920.3	132580.4	61339.9	0.0	0.00
10YR-1HR	3.50	193920.3	132600.8	61319.5	0.0	0.00
10YR-1HR	3.75	193920.3	132616.8	61303.5	0.0	0.00
10YR-1HR	4.00	193920.3	132629.6	61290.7	0.0	0.00
10YR-1HR	4.25	193920.3	132639.9	61280.4	0.0	0.00
10YR-1HR	4.50	193920.3	132648.2	61272.1	0.0	0.00
10YR-1HR	4.75	193920.3	132654.1	61266.2	0.0	0.00
10YR-1HR	5.00	193920.3	132656.2	61264.1	0.0	0.00
10YR-1HR	5.25	193920.3	132658.3	61262.0	0.0	0.00
10YR-1HR	5.50	193920.3	132660.0	61260.3	0.0	0.00
10YR-1HR	5.75	193920.3	132661.5	61258.8	0.0	0.00
10YR-1HR	6.00	193920.3	132663.1	61257.2	0.0	0.00

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
MASS BALANCE REPORT

Simulation	Time hrs	Inflow Volume ft3	Outflow Volume ft3	Change in Sys Storage ft3	Difference ft3	Error %
10YR-1HR	6.25	193920.3	132664.3	61256.0	0.0	0.00
10YR-1HR	6.50	193920.3	132665.4	61254.9	0.0	0.00
10YR-1HR	6.75	193920.3	132679.9	61240.4	-0.0	-0.00
10YR-1HR	7.00	193920.3	132680.7	61239.6	-0.0	-0.00
10YR-1HR	7.25	193920.3	132681.4	61238.9	-0.0	-0.00
10YR-1HR	7.50	193920.3	132682.1	61238.2	-0.0	-0.00
10YR-1HR	7.75	193920.3	132682.7	61237.6	-0.0	-0.00
10YR-1HR	8.00	193920.3	132683.2	61237.1	-0.0	-0.00
10YR-1HR	8.25	193920.3	132683.7	61236.6	-0.0	-0.00
10YR-1HR	8.50	193920.3	132684.1	61236.2	-0.0	-0.00
10YR-1HR	8.75	193920.3	132684.5	61235.7	-0.0	-0.00
10YR-1HR	9.00	193920.3	132684.9	61235.4	-0.0	-0.00
10YR-1HR	9.25	193920.3	132685.3	61235.0	-0.0	-0.00
10YR-1HR	9.50	193920.3	132685.6	61234.7	-0.0	-0.00
10YR-1HR	9.75	193920.3	132685.9	61234.4	-0.0	-0.00
10YR-1HR	10.00	193920.3	132686.2	61234.1	-0.0	-0.00
10YR-1HR	10.25	193920.3	132686.4	61233.8	-0.0	-0.00
10YR-1HR	10.50	193920.3	132686.7	61233.6	-0.0	-0.00
10YR-1HR	10.75	193920.3	132686.9	61233.4	-0.0	-0.00
10YR-1HR	11.00	193920.3	132687.2	61233.1	-0.0	-0.00
10YR-1HR	11.25	193920.3	132687.4	61232.9	-0.0	-0.00
10YR-1HR	11.50	193920.3	132687.6	61232.7	-0.0	-0.00
10YR-1HR	11.75	193920.3	132687.8	61232.5	-0.0	-0.00
10YR-1HR	12.00	193920.3	132687.9	61232.4	-0.0	-0.00
10YR-1HR	12.25	193920.3	132688.1	61232.2	-0.0	-0.00
10YR-1HR	12.50	193920.3	132688.3	61232.0	-0.0	-0.00
10YR-1HR	12.75	193920.3	132688.4	61231.9	-0.0	-0.00
10YR-1HR	13.00	193920.3	132688.6	61231.7	-0.0	-0.00
10YR-1HR	13.25	193920.3	132688.7	61231.6	-0.0	-0.00
10YR-1HR	13.50	193920.3	132688.9	61231.4	-0.0	-0.00
10YR-1HR	13.75	193920.3	132689.0	61231.3	-0.0	-0.00
10YR-1HR	14.00	193920.3	132689.1	61231.2	-0.0	-0.00
10YR-1HR	14.25	193920.3	132689.3	61231.0	-0.0	-0.00
10YR-1HR	14.50	193920.3	132689.4	61230.9	-0.0	-0.00
10YR-1HR	14.75	193920.3	132689.5	61230.8	-0.0	-0.00
10YR-1HR	15.00	193920.3	132689.6	61230.7	-0.0	-0.00
10YR-1HR	15.25	193920.3	132689.7	61230.6	-0.0	-0.00
10YR-1HR	15.50	193920.3	132689.8	61230.5	-0.0	-0.00
10YR-1HR	15.75	193920.3	132689.9	61230.4	-0.0	-0.00
10YR-1HR	16.00	193920.3	132690.0	61230.3	-0.0	-0.00
10YR-1HR	16.25	193920.3	132690.1	61230.2	-0.0	-0.00
10YR-1HR	16.50	193920.3	132690.1	61230.2	-0.0	-0.00
10YR-1HR	16.75	193920.3	132690.2	61230.1	-0.0	-0.00
10YR-1HR	17.00	193920.3	132690.3	61230.0	-0.0	-0.00
10YR-1HR	17.25	193920.3	132690.3	61230.0	-0.0	-0.00
10YR-1HR	17.50	193920.3	132690.4	61229.9	-0.0	-0.00
10YR-1HR	17.75	193920.3	132690.5	61229.8	-0.0	-0.00
10YR-1HR	18.00	193920.3	132690.5	61229.8	-0.0	-0.00
10YR-1HR	18.25	193920.3	132690.6	61229.7	-0.0	-0.00
10YR-1HR	18.50	193920.3	132690.6	61229.7	-0.0	-0.00
10YR-1HR	18.75	193920.3	132690.6	61229.7	-0.0	-0.00
10YR-1HR	19.00	193920.3	132690.7	61229.6	-0.0	-0.00
10YR-1HR	19.25	193920.3	132690.7	61229.6	-0.0	-0.00
10YR-1HR	19.50	193920.3	132690.7	61229.6	-0.0	-0.00
10YR-1HR	19.75	193920.3	132690.7	61229.6	-0.0	-0.00
10YR-1HR	20.00	193920.3	132690.8	61229.5	-0.0	-0.00
10YR-1HR	20.25	193920.3	132690.8	61229.5	-0.0	-0.00
10YR-1HR	20.50	193920.3	132690.8	61229.5	-0.0	-0.00
10YR-1HR	20.75	193920.3	132690.8	61229.5	-0.0	-0.00
10YR-1HR	21.00	193920.3	132690.8	61229.5	-0.0	-0.00
10YR-1HR	21.25	193920.3	132690.8	61229.5	-0.0	-0.00
10YR-1HR	21.50	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	21.75	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	22.00	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	22.25	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	22.50	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	22.75	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	23.00	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	23.25	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	23.50	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	23.75	193920.3	132690.9	61229.4	-0.0	-0.00
10YR-1HR	24.00	193920.3	132690.9	61229.3	-0.0	-0.00
10YR-1HR	24.25	193920.3	132691.0	61229.3	-0.0	-0.00
10YR-1HR	24.50	193920.3	132691.0	61229.3	-0.0	-0.00
10YR-1HR	24.75	193920.3	132691.0	61229.3	-0.0	-0.00
10YR-1HR	25.00	193920.3	132691.0	61229.3	-0.0	-0.00

10-Year / 8-Hour Storm
FDOT Distribution

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
10YR-8HR	B-701	BASE	4.07	0.035	0.566	287.5
10YR-8HR	B1-01	BASE	4.00	0.241	5.924	1935.3
10YR-8HR	B1-02	BASE	4.00	0.884	5.924	7096.1
10YR-8HR	B1-03	BASE	4.00	1.501	5.924	12041.9
10YR-8HR	B1-04	BASE	4.00	0.429	5.924	3440.5
10YR-8HR	B1-05	BASE	4.00	0.429	5.924	3440.5
10YR-8HR	B1-06	BASE	4.00	0.858	5.924	6881.1
10YR-8HR	B1-07	BASE	4.00	0.858	5.924	6881.1
10YR-8HR	B1-08	BASE	4.00	0.858	5.924	6881.1
10YR-8HR	B1-09	BASE	4.00	1.527	5.924	12256.9
10YR-8HR	B1-11	BASE	4.00	1.501	5.924	12041.9
10YR-8HR	B1-12	BASE	4.02	2.203	2.843	14243.1
10YR-8HR	B1-13	BASE	4.07	0.044	0.566	369.7
10YR-8HR	B1-14	BASE	4.00	1.554	5.924	12471.9
10YR-8HR	B1-15	BASE	4.00	0.509	5.924	4085.6
10YR-8HR	B1-16	BASE	4.00	0.509	5.924	4085.6
10YR-8HR	B1-17	BASE	4.00	1.581	5.924	12687.0
10YR-8HR	B1-19	BASE	4.00	2.144	5.924	17202.7
10YR-8HR	B1-21	BASE	4.00	1.929	5.924	15482.4
10YR-8HR	D1	BASE	4.04	4.447	1.343	28572.1
10YR-8HR	D1-S28	BASE	4.00	0.616	5.924	4945.8
10YR-8HR	D1-S30	BASE	4.00	1.152	5.924	9246.4
10YR-8HR	D1-S32	BASE	4.00	0.536	5.924	4300.7
10YR-8HR	D1-S34	BASE	4.00	0.911	5.924	7311.1
10YR-8HR	D1-S37	BASE	4.00	0.295	5.924	2365.4
10YR-8HR	D1-S39	BASE	4.00	1.608	5.924	12902.0
10YR-8HR	D2	BASE	4.00	4.070	4.303	28270.9
10YR-8HR	E2	BASE	4.04	1.326	0.905	9131.3
10YR-8HR	E2-S29	BASE	4.00	1.769	5.924	14192.2
10YR-8HR	E2-S31	BASE	4.00	0.456	5.924	3655.6
10YR-8HR	E2-S33	BASE	4.00	0.563	5.924	4515.7
10YR-8HR	E2-S35	BASE	4.00	0.429	5.924	3440.5
10YR-8HR	E2-S36	BASE	4.00	0.858	5.924	6881.1
10YR-8HR	E2-S40	BASE	4.00	1.795	5.924	14407.2
10YR-8HR	E2-S41	BASE	4.00	1.527	5.924	12256.9
10YR-8HR	E2-S43	BASE	4.00	0.616	5.924	4945.8
10YR-8HR	E2-S68	BASE	4.00	0.938	5.924	7526.2
10YR-8HR	E2-SDE4	BASE	4.00	0.724	5.924	5805.9
10YR-8HR	E4	BASE	4.00	3.939	5.924	31609.9
10YR-8HR	OFF-701	BASE	4.02	0.302	2.304	1923.7
10YR-8HR	OFF-701B	BASE	4.02	0.300	2.397	1914.2
10YR-8HR	OFF-710A	BASE	4.00	3.578	3.647	23959.7
10YR-8HR	OFF-710B	BASE	4.02	0.318	3.191	2084.8
10YR-8HR	OFF-710C	BASE	4.02	0.127	3.280	833.3
10YR-8HR	OFF-710D	BASE	4.00	0.877	3.493	5831.9
10YR-8HR	OFF-710E	BASE	4.00	1.459	3.696	9793.3
10YR-8HR	OFF-B1-12	BASE	4.00	2.893	3.886	19609.1
10YR-8HR	OFF-B1-13	BASE	4.02	0.205	2.109	1301.4
10YR-8HR	OFF-D	BASE	4.02	1.695	3.078	11061.2
10YR-8HR	OFF-E	BASE	4.02	1.351	2.564	8655.9

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	10YR-8HR	8.00	4.000	99.000	0.0021	0	0.00	0.000	0.00	0.000
D-1	BASE	10YR-8HR	11.55	3.648	5.350	0.0002	136300	4.08	18.168	0.00	0.000
D-2	BASE	10YR-8HR	13.13	3.654	5.350	-0.0096	747	4.00	4.070	4.08	8.898
E-2	BASE	10YR-8HR	5.74	4.764	9.770	-0.0079	58552	13.34	17.384	0.00	0.000
E-4	BASE	10YR-8HR	5.74	4.764	6.000	0.0083	32672	4.00	9.966	13.34	17.384
F-D	BASE	10YR-8HR	8.33	4.539	7.000	0.0004	12869	4.02	1.694	0.00	0.000
F-E	BASE	10YR-8HR	4.04	5.556	8.500	-0.0000	3075	4.02	1.716	4.04	1.711
GW	BASE	10YR-8HR	8.00	4.000	99.000	0.0003	0	4.13	20.688	0.00	0.000
N-701	BASE	10YR-8HR	4.11	6.421	6.935	-0.0000	2827	4.03	0.335	4.09	0.305
N-701B	BASE	10YR-8HR	4.17	4.968	7.077	0.0006	3225	4.09	1.758	4.28	1.796
N-710A	BASE	10YR-8HR	4.07	7.491	7.584	-0.0003	8632	4.00	3.578	4.07	3.393
N-710B	BASE	10YR-8HR	4.13	6.457	6.988	-0.0001	5078	4.07	3.699	4.13	3.604
N-710C	BASE	10YR-8HR	4.06	5.842	6.758	-0.0001	1015	4.05	5.098	4.07	5.098
N-710D	BASE	10YR-8HR	4.05	5.856	7.289	0.0001	2047	1.17	0.005	0.00	0.000
N-710E	BASE	10YR-8HR	4.02	5.923	7.302	-0.0001	3250	4.00	3.019	4.02	3.008
N-FD1	BASE	10YR-8HR	5.25	4.720	99.000	-0.0018	706	4.04	9.355	4.05	9.184
N-FD2	BASE	10YR-8HR	4.18	4.954	99.000	0.0006	878	4.11	15.755	4.13	15.648
S-28	BASE	10YR-8HR	4.02	24.391	28.300	0.0062	220	4.00	0.616	4.01	0.613
S-29	BASE	10YR-8HR	4.00	25.678	28.000	0.0040	319	4.00	1.769	4.00	1.768
S-30	BASE	10YR-8HR	4.02	19.193	27.240	0.0027	268	4.00	1.764	4.02	1.755
S-31	BASE	10YR-8HR	4.02	20.194	28.290	0.0059	195	4.00	0.456	4.03	0.453
S-32	BASE	10YR-8HR	4.03	18.779	23.780	0.0042	286	4.02	2.287	4.03	2.281
S-33	BASE	10YR-8HR	4.02	20.187	25.290	0.0043	467	4.00	2.782	4.02	2.776
S-34	BASE	10YR-8HR	4.04	14.235	22.010	0.0020	412	4.02	3.182	4.04	3.171
S-35	BASE	10YR-8HR	4.02	18.836	23.500	0.0065	246	4.01	3.203	4.02	3.201
S-36	BASE	10YR-8HR	4.00	18.246	21.430	0.0028	299	4.00	0.857	3.99	0.857
S-37	BASE	10YR-8HR	4.05	9.868	14.360	0.0018	376	4.04	3.461	4.05	3.451
S-39	BASE	10YR-8HR	4.05	7.089	12.910	0.0037	272	4.03	5.021	4.04	5.014
S-40	BASE	10YR-8HR	4.01	6.608	13.420	0.0035	669	4.00	5.512	4.00	5.507
S-41	BASE	10YR-8HR	4.01	6.814	10.810	0.0032	511	4.00	2.864	4.01	2.861
S-43	BASE	10YR-8HR	4.01	6.870	10.300	0.0014	318	4.00	1.339	4.02	1.338
S-68	BASE	10YR-8HR	4.00	5.572	9.110	0.0023	141	4.00	0.938	4.00	0.938
S1-01	BASE	10YR-8HR	4.00	6.233	9.510	-0.0099	113	4.00	0.241	8.31	2.956
S1-02	BASE	10YR-8HR	4.02	6.228	8.900	-0.0100	121	1.98	3.091	4.03	1.204
S1-04	BASE	10YR-8HR	4.01	6.198	10.350	-0.0007	115	4.00	0.429	4.02	0.502
S1-05	BASE	10YR-8HR	4.01	6.196	10.190	-0.0019	258	4.02	2.130	4.01	1.981
S1-07	BASE	10YR-8HR	4.01	6.072	14.460	-0.0005	252	3.99	2.837	4.01	2.836
S1-08	BASE	10YR-8HR	4.00	6.030	14.540	-0.0005	208	3.99	3.691	4.00	3.691
S1-09	BASE	10YR-8HR	3.96	5.389	13.720	0.0007	222	4.00	5.218	4.00	5.267
S1-12	BASE	10YR-8HR	4.17	4.967	6.713	0.0053	5640	4.03	11.136	4.11	9.780
S1-13	BASE	10YR-8HR	4.17	4.970	6.856	0.0048	5298	4.01	8.747	4.11	7.458
S1-14	BASE	10YR-8HR	4.01	20.562	24.280	-0.0008	158	4.00	1.554	4.00	1.553
S1-15	BASE	10YR-8HR	4.01	20.540	25.290	0.0011	362	4.00	6.128	4.01	6.126
S1-16	BASE	10YR-8HR	4.01	20.454	25.220	0.0012	206	4.01	6.634	4.00	6.633
S1-17	BASE	10YR-8HR	4.01	19.634	24.390	-0.0099	224	4.00	8.213	4.00	8.211
S1-19	BASE	10YR-8HR	4.00	26.734	30.890	-0.0007	186	4.00	2.144	4.00	2.142
S1-20	BASE	10YR-8HR	4.01	26.664	33.070	0.0009	463	4.00	4.070	4.00	4.067
S1-21	BASE	10YR-8HR	4.00	26.726	30.650	-0.0007	195	4.00	1.929	4.00	1.928

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SD-E4	BASE	10YR-8HR	4.00	8.951	9.400	0.0018	177	4.00	0.724	4.00	0.723
SD-S43	BASE	10YR-8HR	4.01	7.026	9.820	0.0014	270	4.00	0.723	4.00	0.723

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
701_S1-13	BASE	10YR-8HR	4.09	0.305	0.027	4.11	6.421	4.17	4.970
701B_S1-12	BASE	10YR-8HR	4.28	1.796	0.040	4.17	4.968	4.17	4.967
D2D1	BASE	10YR-8HR	4.08	8.898	9.384	13.13	3.654	11.55	3.648
DISCH-D1	BASE	10YR-8HR	0.00	0.000	0.000	11.55	3.648	8.00	4.000
DISCH-E2	BASE	10YR-8HR	0.00	0.000	0.000	5.74	4.764	8.00	4.000
E4E2	BASE	10YR-8HR	13.34	17.384	12.600	5.74	4.764	5.74	4.764
FD_D2	BASE	10YR-8HR	0.00	0.000	0.000	8.33	4.539	13.13	3.654
OFF-E	BASE	10YR-8HR	4.04	1.711	-0.002	4.04	5.556	5.74	4.764
R710A-710B	BASE	10YR-8HR	4.07	3.393	-0.004	4.07	7.491	4.13	6.457
R710B-710C	BASE	10YR-8HR	4.13	3.604	-0.041	4.13	6.457	4.06	5.842
R710C-710D	BASE	10YR-8HR	1.17	0.005	0.001	4.06	5.842	4.05	5.856
R710D-710E	BASE	10YR-8HR	0.00	0.000	-0.006	4.05	5.856	4.02	5.923
R710E-FE	BASE	10YR-8HR	4.02	0.366	-0.000	4.02	5.923	4.02	5.831
RC1	BASE	10YR-8HR	12.00	7.105	-0.267	5.25	4.720	8.00	4.000
RC2	BASE	10YR-8HR	4.13	15.648	-2.419	4.18	4.954	8.00	4.000
S1-01_S1-02	BASE	10YR-8HR	8.31	2.956	-3.755	4.00	6.233	4.02	6.228
S1-02_S1-05	BASE	10YR-8HR	4.03	1.204	-1.006	4.02	6.228	4.01	6.196
S1-04_S1-05	BASE	10YR-8HR	4.02	0.502	0.073	4.01	6.198	4.01	6.196
S1-05_S1-07	BASE	10YR-8HR	4.01	1.981	0.008	4.01	6.196	4.01	6.072
S1-07_S1-08	BASE	10YR-8HR	4.01	2.836	-0.003	4.01	6.072	4.00	6.030
S1-08_S1-09	BASE	10YR-8HR	4.00	3.691	-0.004	4.00	6.030	4.00	5.684
S1-09_S1-12	BASE	10YR-8HR	4.00	5.267	-0.005	3.96	5.389	4.17	4.967
S1-12_FD	BASE	10YR-8HR	0.00	0.000	0.000	4.17	4.967	8.33	4.539
S1-12_FD2	BASE	10YR-8HR	4.11	9.780	0.026	4.17	4.967	4.18	4.954
S1-13_701B	BASE	10YR-8HR	4.11	1.482	-0.069	4.17	4.970	4.17	4.968
S1-13_FD2	BASE	10YR-8HR	4.11	5.975	-0.079	4.17	4.970	4.18	4.954
S1-14_S1-15	BASE	10YR-8HR	4.00	1.553	-0.002	4.01	20.562	4.01	20.540
S1-15_S1-16	BASE	10YR-8HR	4.01	6.126	-0.006	4.01	20.540	4.01	20.454
S1-16_S1-17	BASE	10YR-8HR	4.00	6.633	-0.007	4.01	20.454	4.00	19.822
S1-17_S1-13	BASE	10YR-8HR	4.00	8.211	2.264	4.01	19.634	5.26	4.533
S1-19_S1-20	BASE	10YR-8HR	4.00	2.142	-0.002	4.00	26.734	4.01	26.664
S1-20_S1-15	BASE	10YR-8HR	4.00	4.067	-0.004	4.01	26.664	4.00	19.654
S1-21_S1-20	BASE	10YR-8HR	4.00	1.928	-0.002	4.00	26.726	4.01	26.664
S28S30	BASE	10YR-8HR	4.01	0.613	0.007	4.02	24.391	4.01	23.817
S29S33	BASE	10YR-8HR	4.00	1.768	-0.002	4.00	25.678	4.00	19.637
S30S32	BASE	10YR-8HR	4.02	1.755	0.005	4.02	19.193	4.03	18.779
S31S33	BASE	10YR-8HR	4.03	0.453	0.165	4.02	20.194	4.02	20.187
S32S34	BASE	10YR-8HR	4.03	2.281	0.007	4.03	18.779	3.44	13.787
S33S35	BASE	10YR-8HR	4.02	2.776	0.009	4.02	20.187	4.02	18.489
S34S37	BASE	10YR-8HR	4.04	3.171	0.005	4.04	14.235	4.04	9.399
S35E2	BASE	10YR-8HR	4.02	3.201	0.087	4.02	18.836	4.02	4.760
S36S40	BASE	10YR-8HR	3.99	0.857	0.004	4.00	18.246	3.99	9.363
S37S39	BASE	10YR-8HR	4.05	3.451	0.006	4.05	9.868	3.31	6.501
S39D1	BASE	10YR-8HR	4.04	5.014	-0.006	4.05	7.089	4.04	5.019
S40E2	BASE	10YR-8HR	4.00	5.507	-0.006	4.01	6.608	4.00	4.604
S41S40	BASE	10YR-8HR	4.01	2.861	-0.004	4.01	6.814	4.01	6.608
S43S41	BASE	10YR-8HR	4.02	1.338	0.003	4.01	6.870	4.01	6.814
S68E2	BASE	10YR-8HR	4.00	0.938	0.002	4.00	5.572	8.53	4.642

E-70

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
SDE4S43_1	BASE	10YR-8HR	4.00	0.723	-0.002	4.00	8.951	4.00	7.948
SDE4S43_2	BASE	10YR-8HR	0.00	0.000	0.000	4.01	7.026	4.01	6.870
SDS43S43	BASE	10YR-8HR	4.00	0.723	0.001	4.01	7.026	4.00	6.611
SFD1E4	BASE	10YR-8HR	4.01	4.335	-1.181	5.25	4.720	5.74	4.764
W710C-FD1	BASE	10YR-8HR	4.06	6.734	-0.003	4.06	5.842	5.25	4.720
W710E-FD1	BASE	10YR-8HR	4.02	2.642	-0.003	4.02	5.923	5.25	4.720
WFD_FD2	BASE	10YR-8HR	0.00	0.000	0.000	8.33	4.539	4.18	4.954
WFE-FD1	BASE	10YR-8HR	0.00	0.000	0.000	4.04	5.556	5.25	4.720

F-71

10-Year / 24-Hour Storm
FDOT Distribution

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
10YR-24HR	B-701	BASE	15.02	0.023	1.546	785.6
10YR-24HR	B1-01	BASE	12.00	0.080	8.396	2743.0
10YR-24HR	B1-02	BASE	12.00	0.293	8.396	10057.6
10YR-24HR	B1-03	BASE	12.00	0.497	8.396	17067.4
10YR-24HR	B1-04	BASE	12.00	0.142	8.396	4876.4
10YR-24HR	B1-05	BASE	12.00	0.142	8.396	4876.4
10YR-24HR	B1-06	BASE	12.00	0.284	8.396	9752.8
10YR-24HR	B1-07	BASE	12.00	0.284	8.396	9752.8
10YR-24HR	B1-08	BASE	12.00	0.284	8.396	9752.8
10YR-24HR	B1-09	BASE	12.00	0.506	8.396	17372.2
10YR-24HR	B1-11	BASE	12.00	0.497	8.396	17067.4
10YR-24HR	B1-12	BASE	12.00	0.821	4.871	24401.7
10YR-24HR	B1-13	BASE	15.02	0.030	1.546	1010.1
10YR-24HR	B1-14	BASE	12.00	0.515	8.396	17677.0
10YR-24HR	B1-15	BASE	12.00	0.169	8.396	5790.7
10YR-24HR	B1-16	BASE	12.00	0.169	8.396	5790.7
10YR-24HR	B1-17	BASE	12.00	0.524	8.396	17981.7
10YR-24HR	B1-19	BASE	12.00	0.710	8.396	24382.0
10YR-24HR	B1-21	BASE	12.00	0.639	8.396	21943.8
10YR-24HR	D1	BASE	12.02	1.920	2.802	59604.1
10YR-24HR	D1-S28	BASE	12.00	0.204	8.396	7009.8
10YR-24HR	D1-S30	BASE	12.00	0.382	8.396	13105.3
10YR-24HR	D1-S32	BASE	12.00	0.178	8.396	6095.5
10YR-24HR	D1-S34	BASE	12.00	0.302	8.396	10362.4
10YR-24HR	D1-S37	BASE	12.00	0.098	8.396	3352.5
10YR-24HR	D1-S39	BASE	12.00	0.533	8.396	18286.5
10YR-24HR	D2	BASE	12.00	1.414	6.637	43605.7
10YR-24HR	E2	BASE	12.02	0.641	2.119	21385.8
10YR-24HR	E2-S29	BASE	12.00	0.586	8.396	20115.2
10YR-24HR	E2-S31	BASE	12.00	0.151	8.396	5181.2
10YR-24HR	E2-S33	BASE	12.00	0.186	8.396	6400.3
10YR-24HR	E2-S35	BASE	12.00	0.142	8.396	4876.4
10YR-24HR	E2-S36	BASE	12.00	0.284	8.396	9752.8
10YR-24HR	E2-S40	BASE	12.00	0.595	8.396	20419.9
10YR-24HR	E2-S41	BASE	12.00	0.506	8.396	17372.2
10YR-24HR	E2-S43	BASE	12.00	0.204	8.396	7009.8
10YR-24HR	E2-S68	BASE	12.00	0.311	8.396	10667.1
10YR-24HR	E2-SDE4	BASE	12.00	0.240	8.396	8228.9
10YR-24HR	E4	BASE	12.00	1.305	8.396	44802.0
10YR-24HR	OFF-701	BASE	12.00	0.117	4.164	3476.4
10YR-24HR	OFF-701B	BASE	12.00	0.115	4.288	3424.5
10YR-24HR	OFF-710A	BASE	12.00	1.279	5.867	38549.6
10YR-24HR	OFF-710B	BASE	12.00	0.116	5.310	3469.4
10YR-24HR	OFF-710C	BASE	12.00	0.046	5.420	1377.2
10YR-24HR	OFF-710D	BASE	12.00	0.316	5.681	9486.2
10YR-24HR	OFF-710E	BASE	12.00	0.520	5.926	15703.4
10YR-24HR	OFF-B1-12	BASE	12.00	1.023	6.153	31044.0
10YR-24HR	OFF-B1-13	BASE	12.00	0.081	3.899	2405.9
10YR-24HR	OFF-D	BASE	12.00	0.624	5.169	18575.1
10YR-24HR	OFF-E	BASE	12.00	0.513	4.509	15222.4

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	10YR-24HR	12.50	4.000	99.000	0.0013	0	0.00	0.000	0.00	0.000
D-1	BASE	10YR-24HR	27.11	4.111	5.350	0.0001	137512	2.93	12.560	0.00	0.000
D-2	BASE	10YR-24HR	35.02	4.117	5.350	-0.0180	1229	12.00	1.413	2.93	12.560
E-2	BASE	10YR-24HR	21.15	4.504	9.770	-0.0082	57632	36.08	17.419	0.00	0.000
E-4	BASE	10YR-24HR	21.15	4.504	6.000	0.0086	27862	11.76	1.028	36.08	17.419
F-D	BASE	10YR-24HR	22.09	5.008	7.000	0.0001	18827	12.00	0.624	22.09	0.048
F-E	BASE	10YR-24HR	12.02	5.528	8.500	-0.0000	2430	12.00	0.616	12.02	0.616
GW	BASE	10YR-24HR	24.00	4.000	99.000	0.0002	0	12.07	10.913	0.00	0.000
N-701	BASE	10YR-24HR	12.08	6.393	6.935	-0.0000	2031	12.02	0.137	12.08	0.134
N-701B	BASE	10YR-24HR	21.11	4.166	7.077	0.0003	2171	12.02	0.432	12.12	0.445
N-710A	BASE	10YR-24HR	12.06	7.278	7.584	-0.0002	5594	12.00	1.279	12.06	1.257
N-710B	BASE	10YR-24HR	12.11	6.280	6.988	-0.0002	3368	12.05	1.372	12.09	1.360
N-710C	BASE	10YR-24HR	12.04	5.711	6.758	-0.0000	905	12.03	1.895	12.04	1.895
N-710D	BASE	10YR-24HR	12.03	5.736	7.289	-0.0001	1849	1.36	0.001	0.00	0.000
N-710E	BASE	10YR-24HR	12.01	5.854	7.302	-0.0000	3129	12.00	0.870	12.01	0.869
N-FD1	BASE	10YR-24HR	21.09	4.481	99.000	-0.0013	819	12.02	3.404	12.02	3.353
N-FD2	BASE	10YR-24HR	21.11	4.161	99.000	0.0012	1526	12.02	6.645	12.05	6.587
S-28	BASE	10YR-24HR	12.00	24.221	28.300	0.0013	199	11.98	0.204	11.96	0.204
S-29	BASE	10YR-24HR	12.00	25.369	28.000	0.0022	289	11.98	0.586	11.94	0.586
S-30	BASE	10YR-24HR	12.00	18.878	27.240	0.0015	240	11.98	0.586	11.95	0.586
S-31	BASE	10YR-24HR	12.01	19.793	28.290	0.0012	181	11.98	0.151	12.01	0.151
S-32	BASE	10YR-24HR	12.01	18.420	23.780	0.0010	260	11.98	0.763	11.97	0.763
S-33	BASE	10YR-24HR	12.00	19.779	25.290	0.0009	420	12.00	0.923	12.00	0.923
S-34	BASE	10YR-24HR	12.01	13.858	22.010	0.0011	364	11.98	1.065	11.98	1.065
S-35	BASE	10YR-24HR	12.02	18.387	23.500	-0.0015	228	12.00	1.065	11.99	1.065
S-36	BASE	10YR-24HR	12.00	18.042	21.430	0.0011	262	11.98	0.284	11.96	0.284
S-37	BASE	10YR-24HR	12.01	9.473	14.360	0.0004	331	11.98	1.162	11.99	1.162
S-39	BASE	10YR-24HR	12.00	6.593	12.910	0.0020	249	11.99	1.695	12.00	1.695
S-40	BASE	10YR-24HR	12.00	6.074	13.420	0.0019	576	11.98	1.828	12.00	1.828
S-41	BASE	10YR-24HR	12.00	6.451	10.810	0.0018	433	11.98	0.950	11.98	0.949
S-43	BASE	10YR-24HR	12.01	6.554	10.300	0.0007	274	11.98	0.444	11.96	0.444
S-68	BASE	10YR-24HR	11.95	5.357	9.110	0.0013	136	11.98	0.311	11.95	0.311
S1-01	BASE	10YR-24HR	12.01	5.742	9.510	-0.0100	117	11.98	0.080	22.49	2.966
S1-02	BASE	10YR-24HR	12.01	5.735	8.900	0.0100	122	22.49	3.000	22.07	0.812
S1-04	BASE	10YR-24HR	12.01	5.736	10.350	-0.0002	115	11.98	0.142	11.49	0.140
S1-05	BASE	10YR-24HR	12.01	5.735	10.190	-0.0030	259	22.07	0.867	12.01	0.658
S1-07	BASE	10YR-24HR	12.00	5.638	14.460	-0.0002	252	12.00	0.942	12.01	0.940
S1-08	BASE	10YR-24HR	12.00	5.614	14.540	-0.0002	196	12.00	1.224	12.00	1.224
S1-09	BASE	10YR-24HR	12.01	4.775	13.720	-0.0003	209	12.00	1.730	12.01	1.730
S1-12	BASE	10YR-24HR	21.11	4.166	6.713	0.0014	4181	12.00	4.003	12.02	4.001
S1-13	BASE	10YR-24HR	21.11	4.167	6.856	0.0006	3175	12.02	2.963	12.03	2.961
S1-14	BASE	10YR-24HR	12.00	19.910	24.280	-0.0003	185	11.98	0.515	11.99	0.515
S1-15	BASE	10YR-24HR	12.01	19.898	25.290	-0.0002	374	11.99	2.032	12.00	2.032
S1-16	BASE	10YR-24HR	12.01	19.850	25.220	-0.0002	203	12.00	2.200	12.00	2.200
S1-17	BASE	10YR-24HR	12.00	18.932	24.390	-0.0100	206	12.00	2.724	12.00	2.724
S1-19	BASE	10YR-24HR	12.00	26.204	30.890	-0.0003	186	11.98	0.710	12.00	0.710
S1-20	BASE	10YR-24HR	12.01	26.131	33.070	-0.0002	484	12.00	1.349	11.99	1.349
S1-21	BASE	10YR-24HR	12.00	26.184	30.650	-0.0003	202	11.98	0.639	12.00	0.639

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SD-E4	BASE	10YR-24HR	12.00	8.816	9.400	0.0010	166	11.98	0.240	12.00	0.240
SD-S43	BASE	10YR-24HR	12.00	6.840	9.820	0.0003	244	12.00	0.240	11.98	0.240

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
701_S1-13	BASE	10YR-24HR	12.08	0.134	-0.001	12.08	6.393	5.63	4.058
701B_S1-12	BASE	10YR-24HR	12.12	0.445	0.040	21.11	4.166	21.11	4.166
D2D1	BASE	10YR-24HR	2.93	12.560	-8.953	35.02	4.117	27.11	4.111
DISCH-D1	BASE	10YR-24HR	0.00	0.000	0.000	27.11	4.111	12.50	4.000
DISCH-E2	BASE	10YR-24HR	0.00	0.000	0.000	21.15	4.504	12.50	4.000
E4E2	BASE	10YR-24HR	36.08	17.419	12.823	21.15	4.504	21.15	4.504
FD_D2	BASE	10YR-24HR	0.00	0.000	0.000	22.09	5.008	35.02	4.117
OFF-E	BASE	10YR-24HR	12.02	0.616	-0.000	12.02	5.528	21.15	4.504
R710A-710B	BASE	10YR-24HR	12.06	1.257	-0.004	12.06	7.278	12.11	6.280
R710B-710C	BASE	10YR-24HR	12.09	1.360	-0.041	12.11	6.280	12.04	5.711
R710C-710D	BASE	10YR-24HR	1.36	0.001	-0.000	12.04	5.711	12.03	5.736
R710D-710E	BASE	10YR-24HR	0.00	0.000	-0.004	12.03	5.736	12.01	5.854
R710E-FE	BASE	10YR-24HR	12.01	0.104	-0.000	12.01	5.854	12.01	5.814
RC1	BASE	10YR-24HR	12.43	4.418	-0.115	21.09	4.481	24.00	4.000
RC2	BASE	10YR-24HR	12.05	6.587	-1.048	21.11	4.161	24.00	4.000
S1-01_S1-02	BASE	10YR-24HR	22.49	2.966	-3.776	12.01	5.742	12.01	5.735
S1-02_S1-05	BASE	10YR-24HR	22.07	0.812	-1.072	12.01	5.735	12.01	5.735
S1-04_S1-05	BASE	10YR-24HR	11.49	0.140	0.031	12.01	5.736	12.01	5.735
S1-05_S1-07	BASE	10YR-24HR	12.01	0.658	-0.003	12.01	5.735	12.00	5.638
S1-07_S1-08	BASE	10YR-24HR	12.01	0.940	-0.000	12.00	5.638	12.00	5.614
S1-08_S1-09	BASE	10YR-24HR	12.00	1.224	-0.001	12.00	5.614	12.00	5.343
S1-09_S1-12	BASE	10YR-24HR	12.01	1.730	-0.001	12.01	4.775	12.01	4.455
S1-12_FD	BASE	10YR-24HR	0.00	0.000	-0.000	21.11	4.166	22.09	5.008
S1-12_FD2	BASE	10YR-24HR	12.02	4.001	-0.007	21.11	4.166	21.11	4.161
S1-13_701B	BASE	10YR-24HR	12.04	0.317	0.045	21.11	4.167	21.11	4.166
S1-13_FD2	BASE	10YR-24HR	12.03	2.644	0.050	21.11	4.167	21.11	4.161
S1-14_S1-15	BASE	10YR-24HR	11.99	0.515	-0.000	12.00	19.910	12.01	19.898
S1-15_S1-16	BASE	10YR-24HR	12.00	2.032	-0.001	12.01	19.898	12.01	19.850
S1-16_S1-17	BASE	10YR-24HR	12.00	2.200	-0.001	12.01	19.850	12.00	19.388
S1-17_S1-13	BASE	10YR-24HR	12.00	2.724	2.264	12.00	18.932	21.11	4.167
S1-19_S1-20	BASE	10YR-24HR	12.00	0.710	-0.000	12.00	26.204	12.01	26.131
S1-20_S1-15	BASE	10YR-24HR	11.99	1.349	0.001	12.01	26.131	11.99	19.438
S1-21_S1-20	BASE	10YR-24HR	12.00	0.639	-0.000	12.00	26.184	12.01	26.131
S28S30	BASE	10YR-24HR	11.96	0.204	0.001	12.00	24.221	11.96	23.686
S29S33	BASE	10YR-24HR	11.94	0.586	0.002	12.00	25.369	11.94	19.496
S30S32	BASE	10YR-24HR	11.95	0.586	0.001	12.00	18.878	11.95	18.251
S31S33	BASE	10YR-24HR	12.01	0.151	0.012	12.01	19.793	12.00	19.779
S32S34	BASE	10YR-24HR	11.97	0.763	0.002	12.01	18.420	11.97	13.606
S33S35	BASE	10YR-24HR	12.00	0.923	0.001	12.00	19.779	12.00	18.280
S34S37	BASE	10YR-24HR	11.98	1.065	0.004	12.01	13.858	11.98	9.235
S35E2	BASE	10YR-24HR	11.99	1.065	0.083	12.02	18.387	11.99	4.653
S36S40	BASE	10YR-24HR	11.96	0.284	0.003	12.00	18.042	11.96	9.276
S37S39	BASE	10YR-24HR	11.99	1.162	0.005	12.01	9.473	11.99	6.228
S39D1	BASE	10YR-24HR	12.00	1.695	0.003	12.00	6.593	12.00	4.804
S40E2	BASE	10YR-24HR	12.00	1.828	0.001	12.00	6.074	12.00	4.348
S41S40	BASE	10YR-24HR	11.98	0.949	-0.001	12.00	6.451	11.98	5.852
S43S41	BASE	10YR-24HR	11.96	0.444	0.000	12.01	6.554	11.96	6.271
S68E2	BASE	10YR-24HR	11.95	0.311	0.002	11.95	5.357	24.50	4.363

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
SDE4S43_1	BASE	10YR-24HR	12.00	0.240	-0.001	12.00	8.816	11.98	7.862
SDE4S43_2	BASE	10YR-24HR	0.00	0.000	0.000	12.00	6.840	12.01	6.554
SDS43S43	BASE	10YR-24HR	11.98	0.240	-0.000	12.00	6.840	11.98	6.460
SFD1E4	BASE	10YR-24HR	1.33	0.222	-1.201	21.09	4.481	21.15	4.504
W710C-FD1	BASE	10YR-24HR	12.04	2.639	-0.001	12.04	5.711	21.09	4.481
W710E-FD1	BASE	10YR-24HR	12.01	0.766	-0.000	12.01	5.854	21.09	4.481
WFD_FD2	BASE	10YR-24HR	22.09	0.048	0.000	22.09	5.008	21.11	4.161
WFE-FD1	BASE	10YR-24HR	0.00	0.000	0.000	12.02	5.528	21.09	4.481

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100-Year / 1-Hour Storm
FDOT Distribution

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100YR-1HR	B-701	BASE	0.84	0.064	0.200	101.6
100YR-1HR	B1-01	BASE	0.64	0.678	4.531	1480.3
100YR-1HR	B1-02	BASE	0.64	2.487	4.531	5427.7
100YR-1HR	B1-03	BASE	0.64	4.221	4.531	9210.7
100YR-1HR	B1-04	BASE	0.64	1.206	4.531	2631.6
100YR-1HR	B1-05	BASE	0.64	1.206	4.531	2631.6
100YR-1HR	B1-06	BASE	0.64	2.412	4.531	5263.3
100YR-1HR	B1-07	BASE	0.64	2.412	4.531	5263.3
100YR-1HR	B1-08	BASE	0.64	2.412	4.531	5263.3
100YR-1HR	B1-09	BASE	0.64	4.296	4.531	9375.2
100YR-1HR	B1-11	BASE	0.64	4.221	4.531	9210.7
100YR-1HR	B1-12	BASE	0.71	4.605	1.809	9063.3
100YR-1HR	B1-13	BASE	0.84	0.082	0.200	130.7
100YR-1HR	B1-14	BASE	0.64	4.372	4.531	9539.7
100YR-1HR	B1-15	BASE	0.64	1.432	4.531	3125.1
100YR-1HR	B1-16	BASE	0.64	1.432	4.531	3125.1
100YR-1HR	B1-17	BASE	0.64	4.447	4.531	9704.1
100YR-1HR	B1-19	BASE	0.64	6.030	4.531	13158.2
100YR-1HR	B1-21	BASE	0.64	5.427	4.531	11842.3
100YR-1HR	D1	BASE	0.78	8.121	0.692	14710.2
100YR-1HR	D1-S28	BASE	0.64	1.734	4.531	3783.0
100YR-1HR	D1-S30	BASE	0.64	3.241	4.531	7072.5
100YR-1HR	D1-S32	BASE	0.64	1.507	4.531	3289.5
100YR-1HR	D1-S34	BASE	0.64	2.563	4.531	5592.2
100YR-1HR	D1-S37	BASE	0.64	0.829	4.531	1809.2
100YR-1HR	D1-S39	BASE	0.64	4.522	4.531	9868.6
100YR-1HR	D2	BASE	0.67	9.758	3.032	19920.9
100YR-1HR	E2	BASE	0.82	2.368	0.402	4061.5
100YR-1HR	E2-S29	BASE	0.64	4.975	4.531	10855.5
100YR-1HR	E2-S31	BASE	0.64	1.281	4.531	2796.1
100YR-1HR	E2-S33	BASE	0.64	1.583	4.531	3454.0
100YR-1HR	E2-S35	BASE	0.64	1.206	4.531	2631.6
100YR-1HR	E2-S36	BASE	0.64	2.412	4.531	5263.3
100YR-1HR	E2-S40	BASE	0.64	5.050	4.531	11020.0
100YR-1HR	E2-S41	BASE	0.64	4.296	4.531	9375.2
100YR-1HR	E2-S43	BASE	0.64	1.734	4.531	3783.0
100YR-1HR	E2-S68	BASE	0.64	2.638	4.531	5756.7
100YR-1HR	E2-SDE4	BASE	0.64	2.035	4.531	4440.9
100YR-1HR	E4	BASE	0.64	11.080	4.531	24178.1
100YR-1HR	OFF-701	BASE	0.73	0.602	1.389	1159.9
100YR-1HR	OFF-701B	BASE	0.73	0.603	1.460	1166.2
100YR-1HR	OFF-710A	BASE	0.69	8.060	2.467	16211.0
100YR-1HR	OFF-710B	BASE	0.69	0.686	2.089	1365.1
100YR-1HR	OFF-710C	BASE	0.69	0.276	2.162	549.4
100YR-1HR	OFF-710D	BASE	0.69	1.949	2.338	3904.3
100YR-1HR	OFF-710E	BASE	0.69	3.300	2.509	6647.8
100YR-1HR	OFF-B1-12	BASE	0.67	6.663	2.671	13475.7
100YR-1HR	OFF-B1-13	BASE	0.76	0.401	1.242	766.3
100YR-1HR	OFF-D	BASE	0.71	3.619	1.998	7178.8
100YR-1HR	OFF-E	BASE	0.73	2.752	1.589	5365.9

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	100YR-1HR	0.00	3.000	99.000	0.0000	0	0.00	0.000	0.00	0.000
D-1	BASE	100YR-1HR	25.00	3.401	5.350	0.0004	135653	0.75	28.544	0.00	0.000
D-2	BASE	100YR-1HR	3.94	3.407	5.350	-0.0239	469	0.67	9.758	0.26	12.458
E-2	BASE	100YR-1HR	1.24	4.346	9.770	-0.0086	56997	0.79	25.522	0.00	0.000
E-4	BASE	100YR-1HR	1.23	4.342	6.000	0.0090	24865	0.65	15.140	4.98	17.263
F-D	BASE	100YR-1HR	1.33	4.191	7.000	0.0007	10228	0.70	3.619	0.00	0.000
F-E	BASE	100YR-1HR	0.74	5.594	8.500	-0.0002	3980	0.72	3.760	0.74	3.750
GW	BASE	100YR-1HR	0.00	3.000	99.000	0.0000	0	0.90	61.433	0.00	0.000
N-701	BASE	100YR-1HR	0.85	6.448	6.935	-0.0001	3225	0.75	0.655	0.85	0.596
N-701B	BASE	100YR-1HR	0.88	4.790	7.077	-0.0024	2976	0.75	3.849	1.01	4.981
N-710A	BASE	100YR-1HR	0.79	7.630	7.584	0.0005	9772	0.68	8.057	0.79	7.389
N-710B	BASE	100YR-1HR	0.88	6.657	6.988	-0.0004	6288	0.78	8.040	0.88	7.316
N-710C	BASE	100YR-1HR	0.83	5.998	6.758	-0.0007	1140	0.84	10.566	0.85	10.592
N-710D	BASE	100YR-1HR	0.82	6.007	7.289	-0.0004	2210	0.33	0.165	0.00	0.000
N-710E	BASE	100YR-1HR	0.69	6.038	7.302	-0.0005	3399	0.67	8.198	0.69	8.148
N-FD1	BASE	100YR-1HR	0.90	4.099	99.000	-0.0014	840	0.80	19.631	0.80	19.378
N-FD2	BASE	100YR-1HR	0.88	4.743	99.000	-0.0087	1050	0.62	42.859	0.61	40.250
S-28	BASE	100YR-1HR	0.88	24.553	28.300	0.0073	231	0.65	1.730	0.87	1.179
S-29	BASE	100YR-1HR	0.66	26.270	28.000	0.0185	282	0.65	4.965	0.66	4.954
S-30	BASE	100YR-1HR	0.88	19.504	27.240	0.0125	277	0.86	3.455	0.88	3.388
S-31	BASE	100YR-1HR	0.86	20.712	28.290	0.0086	172	0.65	1.279	0.88	0.919
S-32	BASE	100YR-1HR	0.73	19.176	23.780	0.0126	271	0.65	4.738	0.72	4.448
S-33	BASE	100YR-1HR	0.86	20.703	25.290	0.0103	414	0.65	6.532	0.86	5.690
S-34	BASE	100YR-1HR	0.74	14.696	22.010	0.0090	416	0.72	6.840	0.74	6.725
S-35	BASE	100YR-1HR	0.87	19.414	23.500	0.0121	219	0.86	6.548	0.87	6.505
S-36	BASE	100YR-1HR	0.70	18.586	21.430	0.0099	320	0.65	2.407	0.69	2.326
S-37	BASE	100YR-1HR	0.76	10.367	14.360	0.0057	389	0.74	7.477	0.76	7.398
S-39	BASE	100YR-1HR	0.76	7.830	12.910	0.0060	255	0.75	11.426	0.76	11.389
S-40	BASE	100YR-1HR	0.73	7.606	13.420	0.0052	378	0.72	14.261	0.73	14.227
S-41	BASE	100YR-1HR	0.74	7.897	10.810	0.0051	273	0.73	7.362	0.75	7.370
S-43	BASE	100YR-1HR	0.74	7.928	10.300	0.0044	213	0.74	3.442	0.77	3.489
S-68	BASE	100YR-1HR	0.65	5.949	9.110	0.0040	144	0.65	2.633	0.65	2.633
S1-01	BASE	100YR-1HR	0.69	7.744	9.510	-0.0096	113	0.65	0.677	1.59	2.935
S1-02	BASE	100YR-1HR	0.69	7.740	8.900	-0.0100	121	0.67	3.089	0.70	3.064
S1-04	BASE	100YR-1HR	0.69	7.533	10.350	-0.0098	113	0.65	1.204	0.94	2.079
S1-05	BASE	100YR-1HR	0.69	7.523	10.190	-0.0075	128	0.69	5.400	0.70	5.404
S1-07	BASE	100YR-1HR	0.68	6.879	14.460	-0.0018	122	0.68	7.742	0.69	7.746
S1-08	BASE	100YR-1HR	0.68	6.804	14.540	-0.0019	183	0.68	10.109	0.68	10.109
S1-09	BASE	100YR-1HR	0.67	6.507	13.720	-0.0031	190	0.67	14.343	0.67	14.340
S1-12	BASE	100YR-1HR	0.88	4.786	6.713	0.0040	5287	0.67	27.619	0.62	25.279
S1-13	BASE	100YR-1HR	0.88	4.811	6.856	-0.0024	5112	0.72	23.150	0.70	20.581
S1-14	BASE	100YR-1HR	0.71	23.674	24.280	-0.0097	117	0.65	4.364	0.69	4.152
S1-15	BASE	100YR-1HR	0.71	23.419	25.290	-0.0093	283	0.67	16.860	0.71	16.665
S1-16	BASE	100YR-1HR	0.71	22.748	25.220	-0.0084	118	0.70	18.027	0.72	18.027
S1-17	BASE	100YR-1HR	0.71	21.479	24.390	0.0268	123	0.70	22.254	0.71	22.247
S1-19	BASE	100YR-1HR	0.67	28.718	30.890	-0.0055	117	0.65	6.019	0.66	5.965
S1-20	BASE	100YR-1HR	0.68	28.168	33.070	-0.0029	184	0.67	11.330	0.68	11.306
S1-21	BASE	100YR-1HR	0.67	28.655	30.650	-0.0041	118	0.65	5.417	0.67	5.365

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SD-E4	BASE	100YR-1HR	0.65	9.178	9.400	0.0066	194	0.65	2.031	0.65	2.031
SD-S43	BASE	100YR-1HR	0.74	7.973	9.820	0.0056	234	0.65	2.031	0.77	1.893

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
701_S1-13	BASE	100YR-1HR	0.85	0.596	-0.085	0.85	6.448	0.88	4.811
701B_S1-12	BASE	100YR-1HR	1.01	4.981	0.425	0.88	4.790	0.88	4.786
D2D1	BASE	100YR-1HR	0.26	12.458	-8.878	3.94	3.407	25.00	3.401
DISCH-D1	BASE	100YR-1HR	0.00	0.000	0.000	25.00	3.401	0.00	3.000
DISCH-E2	BASE	100YR-1HR	0.00	0.000	0.000	1.24	4.346	0.00	3.000
E4E2	BASE	100YR-1HR	4.98	17.263	13.031	1.23	4.342	1.24	4.346
FD_D2	BASE	100YR-1HR	0.00	0.000	0.000	1.33	4.191	3.94	3.407
OFF-E	BASE	100YR-1HR	0.74	3.750	-0.007	0.74	5.594	1.23	4.342
R710A-710B	BASE	100YR-1HR	0.79	7.389	-0.012	0.79	7.630	0.88	6.657
R710B-710C	BASE	100YR-1HR	0.88	7.316	-0.041	0.88	6.657	0.83	5.998
R710C-710D	BASE	100YR-1HR	0.32	0.135	-0.011	0.83	5.998	0.82	6.007
R710D-710E	BASE	100YR-1HR	0.00	0.000	-0.087	0.82	6.007	0.69	6.038
R710E-FE	BASE	100YR-1HR	0.69	1.016	-0.002	0.69	6.038	0.69	5.861
RC1	BASE	100YR-1HR	0.90	21.183	0.186	0.90	4.099	0.00	3.000
RC2	BASE	100YR-1HR	0.61	40.250	0.420	0.88	4.743	0.00	3.000
S1-01_S1-02	BASE	100YR-1HR	1.59	2.935	-3.743	0.69	7.744	0.69	7.740
S1-02_S1-05	BASE	100YR-1HR	0.70	3.064	-1.003	0.69	7.740	0.69	7.523
S1-04_S1-05	BASE	100YR-1HR	0.94	2.079	2.347	0.69	7.533	0.69	7.523
S1-05_S1-07	BASE	100YR-1HR	0.70	5.404	0.104	0.69	7.523	0.68	6.879
S1-07_S1-08	BASE	100YR-1HR	0.69	7.746	0.023	0.68	6.879	0.68	6.804
S1-08_S1-09	BASE	100YR-1HR	0.68	10.109	-0.015	0.68	6.804	0.67	6.507
S1-09_S1-12	BASE	100YR-1HR	0.67	14.340	-0.022	0.67	6.507	0.67	5.365
S1-12_FD	BASE	100YR-1HR	0.00	0.000	0.000	0.88	4.786	1.33	4.191
S1-12_FD2	BASE	100YR-1HR	0.62	25.279	-0.210	0.88	4.786	0.88	4.743
S1-13_701B	BASE	100YR-1HR	0.78	3.254	-0.009	0.88	4.811	0.88	4.790
S1-13_FD2	BASE	100YR-1HR	0.62	17.581	-0.106	0.88	4.811	0.88	4.743
S1-14_S1-15	BASE	100YR-1HR	0.69	4.152	0.147	0.71	23.674	0.71	23.419
S1-15_S1-16	BASE	100YR-1HR	0.71	16.665	-0.080	0.71	23.419	0.71	22.748
S1-16_S1-17	BASE	100YR-1HR	0.72	18.027	-0.066	0.71	22.748	0.71	21.479
S1-17_S1-13	BASE	100YR-1HR	0.71	22.247	2.254	0.71	21.479	0.71	4.444
S1-19_S1-20	BASE	100YR-1HR	0.66	5.965	-0.219	0.67	28.718	0.68	28.168
S1-20_S1-15	BASE	100YR-1HR	0.68	11.306	-0.016	0.68	28.168	0.68	20.054
S1-21_S1-20	BASE	100YR-1HR	0.67	5.365	-0.027	0.67	28.655	0.68	28.168
S28S30	BASE	100YR-1HR	0.87	1.179	0.015	0.88	24.553	0.87	23.941
S29S33	BASE	100YR-1HR	0.66	4.954	0.023	0.66	26.270	0.66	19.873
S30S32	BASE	100YR-1HR	0.88	3.388	-0.247	0.88	19.504	0.98	18.974
S31S33	BASE	100YR-1HR	0.88	0.919	0.321	0.86	20.712	0.86	20.703
S32S34	BASE	100YR-1HR	0.72	4.448	0.026	0.73	19.176	0.66	14.139
S33S35	BASE	100YR-1HR	0.86	5.690	0.021	0.86	20.703	0.86	18.724
S34S37	BASE	100YR-1HR	0.74	6.725	0.016	0.74	14.696	0.74	9.583
S35E2	BASE	100YR-1HR	0.87	6.505	0.084	0.87	19.414	0.87	4.869
S36S40	BASE	100YR-1HR	0.69	2.326	0.010	0.70	18.586	0.69	9.498
S37S39	BASE	100YR-1HR	0.76	7.398	0.015	0.76	10.367	0.64	7.023
S39D1	BASE	100YR-1HR	0.76	11.389	-0.019	0.76	7.830	0.76	5.298
S40E2	BASE	100YR-1HR	0.73	14.227	-0.021	0.73	7.606	0.73	5.015
S41S40	BASE	100YR-1HR	0.75	7.370	0.012	0.74	7.897	0.73	7.606
S43S41	BASE	100YR-1HR	0.77	3.489	0.160	0.74	7.928	0.74	7.897
S68E2	BASE	100YR-1HR	0.65	2.633	0.006	0.65	5.949	0.65	4.385

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
SDE4S43_1	BASE	100YR-1HR	0.65	2.031	0.012	0.65	9.178	0.65	8.094
SDE4S43_2	BASE	100YR-1HR	0.00	0.000	0.000	0.74	7.973	0.74	7.928
SDS43S43	BASE	100YR-1HR	0.77	1.893	0.307	0.74	7.973	0.74	7.928
SFD1E4	BASE	100YR-1HR	0.54	1.064	-1.218	0.90	4.099	1.23	4.342
W710C-FD1	BASE	100YR-1HR	0.83	13.021	-0.021	0.83	5.998	0.90	4.099
W710E-FD1	BASE	100YR-1HR	0.69	7.131	-0.012	0.69	6.038	0.90	4.099
WFD_FD2	BASE	100YR-1HR	0.00	0.000	0.000	1.33	4.191	0.88	4.743
WFE-FD1	BASE	100YR-1HR	0.00	0.000	0.000	0.74	5.594	0.90	4.099

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
MASS BALANCE REPORT

Simulation	Time hrs	Inflow Volume ft3	Outflow Volume ft3	Change in Sys Storage ft3	Difference ft3	Error %
100YR-1HR	0.00	0.0	0.0	0.0	0.0	0.00
100YR-1HR	0.02	0.0	0.0	0.0	0.0	0.00
100YR-1HR	0.03	0.0	0.0	0.0	0.0	0.00
100YR-1HR	0.05	0.0	0.0	0.0	-0.0	-0.00
100YR-1HR	0.07	0.0	0.0	0.0	-0.0	-0.00
100YR-1HR	0.08	0.0	0.0	0.0	-0.0	-0.00
100YR-1HR	0.10	0.6	0.0	0.6	0.0	0.00
100YR-1HR	0.12	3.9	0.0	3.9	-0.0	-0.00
100YR-1HR	0.13	13.4	0.0	13.4	-0.0	-0.00
100YR-1HR	0.15	37.6	0.0	37.6	-0.0	-0.00
100YR-1HR	0.17	88.9	0.0	88.9	0.0	0.00
100YR-1HR	0.18	180.4	8.1	172.3	-0.0	-0.00
100YR-1HR	0.20	326.5	20.8	305.7	-0.0	-0.00
100YR-1HR	0.22	551.2	36.3	514.9	-0.0	-0.00
100YR-1HR	0.23	881.8	60.8	821.0	-0.0	-0.00
100YR-1HR	0.25	1340.9	96.1	1244.8	0.0	0.00
100YR-1HR	0.27	1954.4	143.6	1810.8	-0.0	-0.00
100YR-1HR	0.28	2759.4	204.9	2554.5	0.0	0.00
100YR-1HR	0.30	3792.1	282.7	3509.4	0.0	0.00
100YR-1HR	0.32	5079.2	379.0	4700.3	0.0	0.00
100YR-1HR	0.33	6650.6	508.0	6142.6	0.0	0.00
100YR-1HR	0.35	8551.2	688.5	7862.7	0.0	0.00
100YR-1HR	0.37	10836.6	922.2	9914.5	0.0	0.00
100YR-1HR	0.38	13555.8	1220.6	12335.2	0.0	0.00
100YR-1HR	0.40	16751.5	1594.3	15157.2	0.0	0.00
100YR-1HR	0.42	20451.4	2052.1	18399.3	0.0	0.00
100YR-1HR	0.43	24663.0	2601.7	22061.2	0.0	0.00
100YR-1HR	0.45	29383.8	3271.7	26112.1	0.0	0.00
100YR-1HR	0.47	34609.5	4210.0	30399.5	0.0	0.00
100YR-1HR	0.48	40332.3	5511.7	34820.7	0.0	0.00
100YR-1HR	0.50	46538.0	7141.3	39396.7	0.0	0.00
100YR-1HR	0.52	53206.4	9040.1	44166.3	0.0	0.00
100YR-1HR	0.53	60312.7	11168.6	49144.2	0.0	0.00
100YR-1HR	0.55	67820.2	13502.6	54317.6	0.0	0.00
100YR-1HR	0.57	75686.5	16017.0	59669.5	-0.0	-0.00
100YR-1HR	0.58	83874.5	18736.5	65138.0	-0.0	-0.00
100YR-1HR	0.60	92350.7	21739.9	70610.8	-0.0	-0.00
100YR-1HR	0.62	101064.9	24965.3	76099.6	-0.0	-0.00
100YR-1HR	0.63	109961.6	28251.3	81710.3	0.0	0.00
100YR-1HR	0.65	118993.6	31581.6	87412.1	-0.0	-0.00
100YR-1HR	0.67	128105.0	34955.9	93149.2	-0.0	-0.00
100YR-1HR	0.68	137212.2	38373.8	98838.4	0.0	0.00
100YR-1HR	0.70	146247.1	41834.7	104412.4	0.0	0.00
100YR-1HR	0.72	155182.8	45337.6	109845.2	-0.0	-0.00
100YR-1HR	0.73	163998.4	48879.8	115118.6	-0.0	-0.00
100YR-1HR	0.75	172671.2	52458.6	120212.6	-0.0	-0.00
100YR-1HR	0.77	181175.8	56070.8	125105.0	-0.0	-0.00
100YR-1HR	0.78	189491.7	59713.5	129778.1	-0.0	-0.00
100YR-1HR	0.80	197603.5	63384.5	134219.0	-0.0	-0.00
100YR-1HR	0.82	205541.8	67092.2	138449.6	-0.0	-0.00
100YR-1HR	0.83	213215.8	70790.8	142425.0	-0.0	-0.00
100YR-1HR	0.85	220722.6	74539.8	146182.8	-0.0	-0.00
100YR-1HR	0.87	227702.2	78171.9	149530.3	-0.0	-0.00
100YR-1HR	0.88	234551.4	81921.4	152630.1	-0.0	-0.00
100YR-1HR	0.90	240810.9	85553.7	155257.1	-0.0	-0.00
100YR-1HR	0.92	246760.4	89221.8	157538.6	-0.0	-0.00
100YR-1HR	0.93	252414.0	92933.7	159480.3	-0.0	-0.00
100YR-1HR	0.95	257739.4	96659.5	161079.9	-0.0	-0.00
100YR-1HR	0.97	262606.7	100285.0	162321.7	-0.0	-0.00
100YR-1HR	0.98	267243.9	103961.8	163282.1	-0.0	-0.00
100YR-1HR	1.00	271627.9	107652.5	163975.4	-0.0	-0.00
100YR-1HR	1.25	312341.2	145542.2	166798.9	-0.0	-0.00
100YR-1HR	1.50	318679.0	163142.7	155536.3	-0.0	-0.00
100YR-1HR	1.75	318679.0	173601.3	145077.7	-0.0	-0.00
100YR-1HR	2.00	318679.0	182632.3	136046.7	-0.0	-0.00
100YR-1HR	2.25	318679.0	190815.2	127863.8	-0.0	-0.00
100YR-1HR	2.50	318679.0	198319.2	120359.8	-0.0	-0.00
100YR-1HR	2.75	318679.0	205143.1	113535.9	-0.0	-0.00
100YR-1HR	3.00	318679.0	211227.0	107452.1	-0.0	-0.00
100YR-1HR	3.25	318679.0	216496.6	102182.5	-0.0	-0.00
100YR-1HR	3.50	318679.0	220786.7	97892.3	-0.0	-0.00
100YR-1HR	3.75	318679.0	223843.3	94835.7	-0.0	-0.00
100YR-1HR	4.00	318679.0	225054.8	93624.2	-0.0	-0.00
100YR-1HR	4.25	318679.0	225086.9	93592.2	-0.0	-0.00
100YR-1HR	4.50	318679.0	225095.7	93583.3	-0.0	-0.00
100YR-1HR	4.75	318679.0	225102.8	93576.2	0.0	0.00
100YR-1HR	5.00	318679.0	225108.3	93570.7	0.0	0.00
100YR-1HR	5.25	318679.0	225110.3	93568.7	0.0	0.00
100YR-1HR	5.50	318679.0	225112.1	93566.9	-0.0	-0.00
100YR-1HR	5.75	318679.0	225113.6	93565.5	-0.0	-0.00
100YR-1HR	6.00	318679.0	225115.1	93563.9	-0.0	-0.00

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
MASS BALANCE REPORT

Simulation	Time hrs	Inflow Volume ft3	Outflow Volume ft3	Change in Sys Storage ft3	Difference ft3	Error %
100YR-1HR	6.25	318679.0	225116.3	93562.7	-0.0	-0.00
100YR-1HR	6.50	318679.0	225117.3	93561.7	-0.0	-0.00
100YR-1HR	6.75	318679.0	225118.2	93560.8	-0.0	-0.00
100YR-1HR	7.00	318679.0	225119.0	93560.0	-0.0	-0.00
100YR-1HR	7.25	318679.0	225119.8	93559.3	-0.0	-0.00
100YR-1HR	7.50	318679.0	225120.4	93558.6	-0.0	-0.00
100YR-1HR	7.75	318679.0	225121.0	93558.0	-0.0	-0.00
100YR-1HR	8.00	318679.0	225121.6	93557.5	-0.0	-0.00
100YR-1HR	8.25	318679.0	225122.0	93557.0	-0.0	-0.00
100YR-1HR	8.50	318679.0	225122.5	93556.6	-0.0	-0.00
100YR-1HR	8.75	318679.0	225122.9	93556.1	-0.0	-0.00
100YR-1HR	9.00	318679.0	225123.3	93555.8	-0.0	-0.00
100YR-1HR	9.25	318679.0	225123.6	93555.4	-0.0	-0.00
100YR-1HR	9.50	318679.0	225123.9	93555.1	-0.0	-0.00
100YR-1HR	9.75	318679.0	225124.2	93554.8	-0.0	-0.00
100YR-1HR	10.00	318679.0	225124.5	93554.5	-0.0	-0.00
100YR-1HR	10.25	318679.0	225124.8	93554.2	-0.0	-0.00
100YR-1HR	10.50	318679.0	225125.0	93554.0	-0.0	-0.00
100YR-1HR	10.75	318679.0	225125.3	93553.7	-0.0	-0.00
100YR-1HR	11.00	318679.0	225125.5	93553.5	-0.0	-0.00
100YR-1HR	11.25	318679.0	225125.7	93553.3	-0.0	-0.00
100YR-1HR	11.50	318679.0	225125.9	93553.1	-0.0	-0.00
100YR-1HR	11.75	318679.0	225126.1	93552.9	-0.0	-0.00
100YR-1HR	12.00	318679.0	225126.3	93552.7	-0.0	-0.00
100YR-1HR	12.25	318679.0	225126.5	93552.6	-0.0	-0.00
100YR-1HR	12.50	318679.0	225126.6	93552.4	-0.0	-0.00
100YR-1HR	12.75	318679.0	225126.8	93552.2	-0.0	-0.00
100YR-1HR	13.00	318679.0	225127.0	93552.1	-0.0	-0.00
100YR-1HR	13.25	318679.0	225127.1	93551.9	-0.0	-0.00
100YR-1HR	13.50	318679.0	225127.2	93551.8	-0.0	-0.00
100YR-1HR	13.75	318679.0	225127.4	93551.6	-0.0	-0.00
100YR-1HR	14.00	318679.0	225127.5	93551.5	-0.0	-0.00
100YR-1HR	14.25	318679.0	225127.6	93551.4	-0.0	-0.00
100YR-1HR	14.50	318679.0	225127.7	93551.3	-0.0	-0.00
100YR-1HR	14.75	318679.0	225127.9	93551.2	-0.0	-0.00
100YR-1HR	15.00	318679.0	225128.0	93551.1	-0.0	-0.00
100YR-1HR	15.25	318679.0	225128.1	93551.0	-0.0	-0.00
100YR-1HR	15.50	318679.0	225128.2	93550.9	-0.0	-0.00
100YR-1HR	15.75	318679.0	225128.3	93550.8	-0.0	-0.00
100YR-1HR	16.00	318679.0	225128.3	93550.7	-0.0	-0.00
100YR-1HR	16.25	318679.0	225128.4	93550.6	-0.0	-0.00
100YR-1HR	16.50	318679.0	225128.5	93550.5	-0.0	-0.00
100YR-1HR	16.75	318679.0	225128.6	93550.4	-0.0	-0.00
100YR-1HR	17.00	318679.0	225128.7	93550.4	-0.0	-0.00
100YR-1HR	17.25	318679.0	225128.7	93550.3	-0.0	-0.00
100YR-1HR	17.50	318679.0	225128.8	93550.2	-0.0	-0.00
100YR-1HR	17.75	318679.0	225128.8	93550.2	-0.0	-0.00
100YR-1HR	18.00	318679.0	225128.9	93550.1	-0.0	-0.00
100YR-1HR	18.25	318679.0	225128.9	93550.1	-0.0	-0.00
100YR-1HR	18.50	318679.0	225129.0	93550.1	-0.0	-0.00
100YR-1HR	18.75	318679.0	225129.0	93550.0	-0.0	-0.00
100YR-1HR	19.00	318679.0	225129.0	93550.0	-0.0	-0.00
100YR-1HR	19.25	318679.0	225129.1	93550.0	-0.0	-0.00
100YR-1HR	19.50	318679.0	225129.1	93549.9	-0.0	-0.00
100YR-1HR	19.75	318679.0	225129.1	93549.9	-0.0	-0.00
100YR-1HR	20.00	318679.0	225129.1	93549.9	-0.0	-0.00
100YR-1HR	20.25	318679.0	225129.2	93549.9	-0.0	-0.00
100YR-1HR	20.50	318679.0	225129.2	93549.8	-0.0	-0.00
100YR-1HR	20.75	318679.0	225129.2	93549.8	-0.0	-0.00
100YR-1HR	21.00	318679.0	225129.2	93549.8	-0.0	-0.00
100YR-1HR	21.25	318679.0	225129.2	93549.8	-0.0	-0.00
100YR-1HR	21.50	318679.0	225129.2	93549.8	-0.0	-0.00
100YR-1HR	21.75	318679.0	225129.2	93549.8	-0.0	-0.00
100YR-1HR	22.00	318679.0	225129.3	93549.8	-0.0	-0.00
100YR-1HR	22.25	318679.0	225129.3	93549.8	-0.0	-0.00
100YR-1HR	22.50	318679.0	225129.3	93549.8	-0.0	-0.00
100YR-1HR	22.75	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	23.00	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	23.25	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	23.50	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	23.75	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	24.00	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	24.25	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	24.50	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	24.75	318679.0	225129.3	93549.7	-0.0	-0.00
100YR-1HR	25.00	318679.0	225129.4	93549.7	-0.0	-0.00
100YR-1HR	25.00	318679.0	225129.4	93549.7	-0.0	-0.00

100-Year / 8-Hour Storm
FDOT Distribution

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100YR-8HR	B-701	BASE	4.04	0.149	1.893	962.3
100YR-8HR	B1-01	BASE	4.00	0.364	9.114	2977.7
100YR-8HR	B1-02	BASE	4.00	1.334	9.114	10918.1
100YR-8HR	B1-03	BASE	4.00	2.264	9.114	18527.8
100YR-8HR	B1-04	BASE	4.00	0.647	9.114	5293.6
100YR-8HR	B1-05	BASE	4.00	0.647	9.114	5293.6
100YR-8HR	B1-06	BASE	4.00	1.294	9.114	10587.3
100YR-8HR	B1-07	BASE	4.00	1.294	9.114	10587.3
100YR-8HR	B1-08	BASE	4.00	1.294	9.114	10587.3
100YR-8HR	B1-09	BASE	4.00	2.305	9.114	18858.6
100YR-8HR	B1-11	BASE	4.00	2.264	9.114	18527.8
100YR-8HR	B1-12	BASE	4.00	4.105	5.491	27506.2
100YR-8HR	B1-13	BASE	4.04	0.191	1.893	1237.2
100YR-8HR	B1-14	BASE	4.00	2.345	9.114	19189.5
100YR-8HR	B1-15	BASE	4.00	0.768	9.114	6286.2
100YR-8HR	B1-16	BASE	4.00	0.768	9.114	6286.2
100YR-8HR	B1-17	BASE	4.00	2.385	9.114	19520.3
100YR-8HR	B1-19	BASE	4.00	3.235	9.114	26468.2
100YR-8HR	B1-21	BASE	4.00	2.911	9.114	23821.4
100YR-8HR	D1	BASE	4.02	10.985	3.279	69758.9
100YR-8HR	D1-S28	BASE	4.00	0.930	9.114	7609.6
100YR-8HR	D1-S30	BASE	4.00	1.739	9.114	14226.7
100YR-8HR	D1-S32	BASE	4.00	0.809	9.114	6617.1
100YR-8HR	D1-S34	BASE	4.00	1.375	9.114	11249.0
100YR-8HR	D1-S37	BASE	4.00	0.445	9.114	3639.4
100YR-8HR	D1-S39	BASE	4.00	2.426	9.114	19851.2
100YR-8HR	D2	BASE	4.00	6.650	7.326	48135.4
100YR-8HR	E2	BASE	4.04	4.026	2.531	25544.6
100YR-8HR	E2-S29	BASE	4.00	2.669	9.114	21836.3
100YR-8HR	E2-S31	BASE	4.00	0.687	9.114	5624.5
100YR-8HR	E2-S33	BASE	4.00	0.849	9.114	6947.9
100YR-8HR	E2-S35	BASE	4.00	0.647	9.114	5293.6
100YR-8HR	E2-S36	BASE	4.00	1.294	9.114	10587.3
100YR-8HR	E2-S40	BASE	4.00	2.709	9.114	22167.1
100YR-8HR	E2-S41	BASE	4.00	2.305	9.114	18858.6
100YR-8HR	E2-S43	BASE	4.00	0.930	9.114	7609.6
100YR-8HR	E2-S68	BASE	4.00	1.415	9.114	11579.9
100YR-8HR	E2-SDE4	BASE	4.00	1.092	9.114	8933.0
100YR-8HR	E4	BASE	4.00	5.944	9.114	48635.4
100YR-8HR	OFF-701	BASE	4.02	0.605	4.743	3959.9
100YR-8HR	OFF-701B	BASE	4.02	0.592	4.875	3893.2
100YR-8HR	OFF-710A	BASE	4.00	6.158	6.532	42914.3
100YR-8HR	OFF-710B	BASE	4.00	0.571	5.951	3888.3
100YR-8HR	OFF-710C	BASE	4.00	0.225	6.066	1541.4
100YR-8HR	OFF-710D	BASE	4.00	1.531	6.338	10583.3
100YR-8HR	OFF-710E	BASE	4.00	2.500	6.593	17469.6
100YR-8HR	OFF-B1-12	BASE	4.00	4.878	6.827	34447.5
100YR-8HR	OFF-B1-13	BASE	4.02	0.424	4.461	2752.6
100YR-8HR	OFF-D	BASE	4.00	3.079	5.803	20855.5
100YR-8HR	OFF-E	BASE	4.02	2.605	5.109	17247.7

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	100YR-8HR	8.00	4.000	99.000	0.0021	0	4.51	14.331	0.00	0.000
D-1	BASE	100YR-8HR	11.47	4.249	5.350	0.0004	137871	4.02	25.189	0.00	0.000
D-2	BASE	100YR-8HR	13.26	4.253	5.350	-0.0232	1336	4.00	6.650	1.36	12.416
E-2	BASE	100YR-8HR	4.51	5.049	9.770	-0.0093	59662	3.93	21.744	4.51	14.331
E-4	BASE	100YR-8HR	4.51	5.052	6.000	0.0097	37304	4.00	15.326	13.52	17.387
F-D	BASE	100YR-8HR	4.44	5.262	7.000	0.0018	21805	4.05	7.336	4.46	2.597
F-E	BASE	100YR-8HR	4.03	5.586	8.500	-0.0001	3771	4.02	3.270	4.03	3.263
GW	BASE	100YR-8HR	8.00	4.000	99.000	0.0003	0	3.81	30.062	0.00	0.000
N-701	BASE	100YR-8HR	4.07	6.467	6.935	0.0001	3709	4.02	0.752	4.07	0.723
N-701B	BASE	100YR-8HR	4.43	5.263	7.077	0.0012	3646	4.05	3.570	4.11	3.719
N-710A	BASE	100YR-8HR	4.03	7.606	7.584	-0.0003	9722	4.00	6.158	4.03	6.100
N-710B	BASE	100YR-8HR	4.07	6.621	6.988	0.0004	6109	4.03	6.668	4.08	6.569
N-710C	BASE	100YR-8HR	4.04	5.955	6.758	-0.0002	1109	4.03	8.979	4.04	8.978
N-710D	BASE	100YR-8HR	4.03	5.963	7.289	-0.0002	2161	0.81	0.001	0.00	0.000
N-710E	BASE	100YR-8HR	4.02	5.981	7.302	-0.0002	3335	4.00	5.408	4.02	5.394
N-FD1	BASE	100YR-8HR	4.10	5.118	99.000	-0.0018	503	4.03	15.839	4.04	15.696
N-FD2	BASE	100YR-8HR	4.43	5.250	99.000	0.0035	654	4.35	26.074	3.75	21.601
S-28	BASE	100YR-8HR	4.00	24.487	28.300	0.0054	227	4.00	0.930	3.98	0.929
S-29	BASE	100YR-8HR	4.00	25.860	28.000	0.0039	322	4.00	2.668	4.00	2.668
S-30	BASE	100YR-8HR	4.00	19.370	27.240	0.0026	275	4.00	2.668	3.99	2.667
S-31	BASE	100YR-8HR	4.01	20.452	28.290	0.0062	190	4.00	0.687	4.00	0.686
S-32	BASE	100YR-8HR	4.00	19.004	23.780	0.0026	281	4.00	3.476	4.00	3.475
S-33	BASE	100YR-8HR	4.01	20.445	25.290	0.0029	460	4.00	4.203	4.00	4.200
S-34	BASE	100YR-8HR	4.00	14.465	22.010	0.0019	421	4.00	4.850	4.00	4.848
S-35	BASE	100YR-8HR	4.01	19.127	23.500	0.0074	242	4.00	4.847	4.01	4.846
S-36	BASE	100YR-8HR	4.00	18.361	21.430	0.0019	311	4.00	1.294	3.99	1.293
S-37	BASE	100YR-8HR	4.01	10.113	14.360	0.0013	388	4.00	5.293	4.00	5.291
S-39	BASE	100YR-8HR	4.00	7.415	12.910	0.0036	273	4.00	7.715	4.00	7.714
S-40	BASE	100YR-8HR	4.01	6.939	13.420	0.0034	649	4.00	8.316	4.00	8.310
S-41	BASE	100YR-8HR	4.01	7.123	10.810	0.0032	507	4.00	4.320	4.01	4.315
S-43	BASE	100YR-8HR	4.01	7.160	10.300	0.0013	337	4.00	2.019	4.03	2.019
S-68	BASE	100YR-8HR	4.00	5.694	9.110	0.0023	143	4.00	1.415	3.98	1.415
S1-01	BASE	100YR-8HR	3.99	6.569	9.510	-0.0097	113	4.00	0.364	8.39	2.931
S1-02	BASE	100YR-8HR	4.01	6.563	8.900	-0.0099	121	1.67	3.170	4.01	1.833
S1-04	BASE	100YR-8HR	4.01	6.506	10.350	-0.0100	115	4.00	0.647	4.01	2.031
S1-05	BASE	100YR-8HR	3.99	6.493	10.190	0.0057	224	4.01	4.509	3.99	2.999
S1-07	BASE	100YR-8HR	4.00	6.329	14.460	-0.0009	223	3.99	4.293	4.01	4.281
S1-08	BASE	100YR-8HR	4.00	6.277	14.540	-0.0009	208	3.99	5.573	3.99	5.572
S1-09	BASE	100YR-8HR	3.67	5.707	13.720	-0.0010	221	4.00	7.876	4.00	7.874
S1-12	BASE	100YR-8HR	4.43	5.263	6.713	0.0047	7153	4.02	20.160	4.05	19.884
S1-13	BASE	100YR-8HR	4.43	5.264	6.856	0.0012	6034	4.01	13.715	4.06	13.467
S1-14	BASE	100YR-8HR	4.00	21.035	24.280	-0.0029	117	4.00	2.345	4.00	2.344
S1-15	BASE	100YR-8HR	4.01	20.953	25.290	-0.0015	298	4.00	9.253	4.00	9.251
S1-16	BASE	100YR-8HR	4.01	20.842	25.220	-0.0014	188	4.00	10.018	4.00	10.017
S1-17	BASE	100YR-8HR	4.00	20.106	24.390	-0.0100	216	4.00	12.402	4.00	12.400
S1-19	BASE	100YR-8HR	4.00	27.127	30.890	-0.0015	150	4.00	3.234	4.00	3.233
S1-20	BASE	100YR-8HR	4.00	27.023	33.070	-0.0013	262	4.00	6.143	4.00	6.142
S1-21	BASE	100YR-8HR	4.00	27.121	30.650	-0.0014	138	4.00	2.911	4.00	2.910

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SD-E4	BASE	100YR-8HR	4.00	9.027	9.400	0.0017	182	4.00	1.092	4.00	1.092
SD-S43	BASE	100YR-8HR	4.01	7.221	9.820	0.0011	284	4.00	1.092	4.02	1.090

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
701_S1-13	BASE	100YR-8HR	4.07	0.723	0.054	4.07	6.467	4.43	5.264
701B_S1-12	BASE	100YR-8HR	4.11	3.719	2.665	4.43	5.263	4.43	5.263
D2D1	BASE	100YR-8HR	1.36	12.416	-8.411	13.26	4.253	11.47	4.249
DISCH-D1	BASE	100YR-8HR	0.00	0.000	0.000	11.47	4.249	8.00	4.000
DISCH-E2	BASE	100YR-8HR	4.51	14.331	0.039	4.51	5.049	8.00	4.000
E4E2	BASE	100YR-8HR	13.52	17.387	13.486	4.51	5.052	4.51	5.049
FD_D2	BASE	100YR-8HR	0.00	0.000	0.000	4.44	5.262	13.26	4.253
OFF-E	BASE	100YR-8HR	4.03	3.263	-0.004	4.03	5.586	4.51	5.052
R710A-710B	BASE	100YR-8HR	4.03	6.100	-0.007	4.03	7.606	4.07	6.621
R710B-710C	BASE	100YR-8HR	4.08	6.569	-0.041	4.07	6.621	4.04	5.955
R710C-710D	BASE	100YR-8HR	0.81	0.001	0.002	4.04	5.955	4.03	5.963
R710D-710E	BASE	100YR-8HR	0.00	0.000	0.016	4.03	5.963	4.02	5.981
R710E-FE	BASE	100YR-8HR	4.02	0.665	-0.001	4.02	5.981	4.02	5.846
RC1	BASE	100YR-8HR	4.08	9.741	-0.098	4.10	5.118	8.00	4.000
RC2	BASE	100YR-8HR	3.75	21.601	-1.738	4.43	5.250	8.00	4.000
S1-01_S1-02	BASE	100YR-8HR	8.39	2.931	-3.735	3.99	6.569	4.01	6.563
S1-02_S1-05	BASE	100YR-8HR	4.01	1.833	-0.975	4.01	6.563	3.99	6.493
S1-04_S1-05	BASE	100YR-8HR	4.01	2.031	1.619	4.01	6.506	3.99	6.493
S1-05_S1-07	BASE	100YR-8HR	3.99	2.999	0.055	3.99	6.493	4.00	6.329
S1-07_S1-08	BASE	100YR-8HR	4.01	4.281	-0.008	4.00	6.329	4.00	6.277
S1-08_S1-09	BASE	100YR-8HR	3.99	5.572	-0.007	4.00	6.277	3.99	5.888
S1-09_S1-12	BASE	100YR-8HR	4.00	7.874	-0.010	3.67	5.707	4.43	5.263
S1-12_FD	BASE	100YR-8HR	4.07	4.335	-0.135	4.43	5.263	4.44	5.262
S1-12_FD2	BASE	100YR-8HR	4.04	15.578	-2.831	4.43	5.263	4.43	5.250
S1-13_701B	BASE	100YR-8HR	4.08	2.994	-0.484	4.43	5.264	4.43	5.263
S1-13_FD2	BASE	100YR-8HR	4.06	10.475	-1.358	4.43	5.264	4.43	5.250
S1-14_S1-15	BASE	100YR-8HR	4.00	2.344	-0.134	4.00	21.035	4.01	20.953
S1-15_S1-16	BASE	100YR-8HR	4.00	9.251	-0.013	4.01	20.953	4.01	20.842
S1-16_S1-17	BASE	100YR-8HR	4.00	10.017	-0.013	4.01	20.842	4.00	20.106
S1-17_S1-13	BASE	100YR-8HR	4.00	12.400	2.262	4.00	20.106	5.59	4.863
S1-19_S1-20	BASE	100YR-8HR	4.00	3.233	-0.004	4.00	27.127	4.00	27.023
S1-20_S1-15	BASE	100YR-8HR	4.00	6.142	-0.007	4.00	27.023	4.00	19.780
S1-21_S1-20	BASE	100YR-8HR	4.00	2.910	-0.004	4.00	27.121	4.00	27.023
S28S30	BASE	100YR-8HR	3.98	0.929	0.012	4.00	24.487	3.98	23.890
S29S33	BASE	100YR-8HR	4.00	2.668	-0.004	4.00	25.860	4.00	19.714
S30S32	BASE	100YR-8HR	3.99	2.667	-0.229	4.00	19.370	4.10	18.964
S31S33	BASE	100YR-8HR	4.00	0.686	0.130	4.01	20.452	4.01	20.445
S32S34	BASE	100YR-8HR	4.00	3.475	0.009	4.00	19.004	4.00	13.836
S33S35	BASE	100YR-8HR	4.00	4.200	0.009	4.01	20.445	4.00	18.610
S34S37	BASE	100YR-8HR	4.00	4.848	0.008	4.00	14.465	4.00	9.493
S35E2	BASE	100YR-8HR	4.01	4.846	0.083	4.01	19.127	4.01	4.819
S36S40	BASE	100YR-8HR	3.99	1.293	0.003	4.00	18.361	3.99	9.410
S37S39	BASE	100YR-8HR	4.00	5.291	0.007	4.01	10.113	4.00	6.477
S39D1	BASE	100YR-8HR	4.00	7.714	-0.010	4.00	7.415	4.00	5.148
S40E2	BASE	100YR-8HR	4.00	8.310	-0.009	4.01	6.939	4.00	4.750
S41S40	BASE	100YR-8HR	4.01	4.315	-0.005	4.01	7.123	4.01	6.939
S43S41	BASE	100YR-8HR	4.03	2.019	0.006	4.01	7.160	4.01	7.123
S68E2	BASE	100YR-8HR	3.98	1.415	0.003	4.00	5.694	8.54	4.760

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
SDE4S43_1	BASE	100YR-8HR	4.00	1.092	-0.002	4.00	9.027	3.99	7.997
SDE4S43_2	BASE	100YR-8HR	0.00	0.000	0.000	4.01	7.221	4.01	7.160
SDS43S43	BASE	100YR-8HR	4.02	1.090	-0.002	4.01	7.221	4.01	7.160
SFD1E4	BASE	100YR-8HR	4.00	6.136	-1.258	4.10	5.118	4.51	5.052
W710C-FD1	BASE	100YR-8HR	4.04	11.120	-0.008	4.04	5.955	4.10	5.118
W710E-FD1	BASE	100YR-8HR	4.02	4.728	-0.007	4.02	5.981	4.10	5.118
WFD_FD2	BASE	100YR-8HR	4.46	2.597	-0.401	4.44	5.262	4.43	5.250
WFE-FD1	BASE	100YR-8HR	0.00	0.000	0.000	4.03	5.586	4.10	5.118

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100-Year / 24-Hour Storm
FDOT Distribution

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100YR-24HR	B-701	BASE	12.02	0.067	4.096	2081.5
100YR-24HR	B1-01	BASE	12.00	0.121	12.948	4230.2
100YR-24HR	B1-02	BASE	12.00	0.445	12.948	15510.7
100YR-24HR	B1-03	BASE	12.00	0.756	12.948	26321.2
100YR-24HR	B1-04	BASE	12.00	0.216	12.948	7520.3
100YR-24HR	B1-05	BASE	12.00	0.216	12.948	7520.3
100YR-24HR	B1-06	BASE	12.00	0.432	12.948	15040.7
100YR-24HR	B1-07	BASE	12.00	0.432	12.948	15040.7
100YR-24HR	B1-08	BASE	12.00	0.432	12.948	15040.7
100YR-24HR	B1-09	BASE	12.00	0.769	12.948	26791.2
100YR-24HR	B1-11	BASE	12.00	0.756	12.948	26321.2
100YR-24HR	B1-12	BASE	12.00	1.484	8.936	44765.5
100YR-24HR	B1-13	BASE	12.02	0.086	4.096	2676.2
100YR-24HR	B1-14	BASE	12.00	0.783	12.948	27261.2
100YR-24HR	B1-15	BASE	12.00	0.256	12.948	8930.4
100YR-24HR	B1-16	BASE	12.00	0.256	12.948	8930.4
100YR-24HR	B1-17	BASE	12.00	0.796	12.948	27731.3
100YR-24HR	B1-19	BASE	12.00	1.079	12.948	37601.7
100YR-24HR	B1-21	BASE	12.00	0.971	12.948	33841.5
100YR-24HR	D1	BASE	12.00	4.357	6.100	129765.1
100YR-24HR	D1-S28	BASE	12.00	0.310	12.948	10810.5
100YR-24HR	D1-S30	BASE	12.00	0.580	12.948	20210.9
100YR-24HR	D1-S32	BASE	12.00	0.270	12.948	9400.4
100YR-24HR	D1-S34	BASE	12.00	0.459	12.948	15980.7
100YR-24HR	D1-S37	BASE	12.00	0.148	12.948	5170.2
100YR-24HR	D1-S39	BASE	12.00	0.809	12.948	28201.3
100YR-24HR	D2	BASE	12.00	2.284	11.051	72611.5
100YR-24HR	E2	BASE	12.02	1.684	5.047	50928.5
100YR-24HR	E2-S29	BASE	12.00	0.890	12.948	31021.4
100YR-24HR	E2-S31	BASE	12.00	0.229	12.948	7990.4
100YR-24HR	E2-S33	BASE	12.00	0.283	12.948	9870.4
100YR-24HR	E2-S35	BASE	12.00	0.216	12.948	7520.3
100YR-24HR	E2-S36	BASE	12.00	0.432	12.948	15040.7
100YR-24HR	E2-S40	BASE	12.00	0.904	12.948	31491.4
100YR-24HR	E2-S41	BASE	12.00	0.769	12.948	26791.2
100YR-24HR	E2-S43	BASE	12.00	0.310	12.948	10810.5
100YR-24HR	E2-S68	BASE	12.00	0.472	12.948	16450.7
100YR-24HR	E2-SDE4	BASE	12.00	0.364	12.948	12690.6
100YR-24HR	E4	BASE	12.00	1.983	12.948	69093.1
100YR-24HR	OFF-701	BASE	12.00	0.224	8.017	6693.3
100YR-24HR	OFF-701B	BASE	12.00	0.219	8.182	6534.1
100YR-24HR	OFF-710A	BASE	12.00	2.157	10.158	66744.2
100YR-24HR	OFF-710B	BASE	12.00	0.203	9.484	6197.0
100YR-24HR	OFF-710C	BASE	12.00	0.080	9.619	2444.3
100YR-24HR	OFF-710D	BASE	12.00	0.539	9.936	16591.0
100YR-24HR	OFF-710E	BASE	12.00	0.874	10.228	27103.7
100YR-24HR	OFF-B1-12	BASE	12.00	1.696	10.494	52951.9
100YR-24HR	OFF-B1-13	BASE	12.00	0.159	7.660	4727.0
100YR-24HR	OFF-D	BASE	12.00	1.102	9.310	33456.9
100YR-24HR	OFF-E	BASE	12.00	0.954	8.471	28598.9

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	100YR-24HR	12.50	4.000	99.000	0.0013	0	15.46	1.719	0.00	0.000
D-1	BASE	100YR-24HR	24.28	5.019	5.350	0.0001	142622	12.00	9.160	24.28	0.471
D-2	BASE	100YR-24HR	24.25	5.019	5.350	-0.0081	7699	12.00	2.284	12.00	2.227
E-2	BASE	100YR-24HR	15.46	4.861	9.770	-0.0084	58904	36.08	17.419	15.46	1.719
E-4	BASE	100YR-24HR	15.46	4.860	6.000	0.0088	34460	11.61	1.277	36.08	17.419
F-D	BASE	100YR-24HR	15.03	5.031	7.000	0.0001	19040	12.00	1.102	15.03	0.334
F-E	BASE	100YR-24HR	12.01	5.542	8.500	-0.0000	2757	12.00	1.135	12.01	1.133
GW	BASE	100YR-24HR	24.00	4.000	99.000	0.0002	0	12.09	17.722	0.00	0.000
N-701	BASE	100YR-24HR	12.00	6.423	6.935	-0.0001	2529	12.00	0.291	12.00	0.394
N-701B	BASE	100YR-24HR	19.12	4.352	7.077	0.0002	2403	12.02	0.776	12.21	0.785
N-710A	BASE	100YR-24HR	12.07	7.401	7.584	-0.0002	7752	12.00	2.157	12.07	2.095
N-710B	BASE	100YR-24HR	12.13	6.361	6.988	-0.0002	4414	12.06	2.294	12.12	2.262
N-710C	BASE	100YR-24HR	12.05	5.765	6.758	-0.0001	952	12.05	3.066	12.07	3.066
N-710D	BASE	100YR-24HR	12.05	5.783	7.289	-0.0001	1951	1.08	0.001	0.00	0.000
N-710E	BASE	100YR-24HR	12.01	5.877	7.302	-0.0000	3180	12.00	1.501	12.01	1.499
N-FD1	BASE	100YR-24HR	19.06	4.788	99.000	-0.0014	671	12.04	5.468	12.04	5.403
N-FD2	BASE	100YR-24HR	19.12	4.345	99.000	0.0006	1376	12.05	10.306	12.07	10.245
S-28	BASE	100YR-24HR	11.96	24.274	28.300	0.0012	207	11.98	0.310	11.96	0.310
S-29	BASE	100YR-24HR	11.99	25.463	28.000	0.0020	302	11.98	0.890	11.98	0.890
S-30	BASE	100YR-24HR	12.00	18.973	27.240	0.0013	251	11.98	0.890	11.97	0.890
S-31	BASE	100YR-24HR	12.01	19.911	28.290	0.0011	188	11.98	0.229	12.00	0.229
S-32	BASE	100YR-24HR	12.01	18.530	23.780	0.0010	270	11.98	1.160	11.97	1.160
S-33	BASE	100YR-24HR	12.01	19.901	25.290	0.0009	442	11.99	1.403	11.98	1.402
S-34	BASE	100YR-24HR	12.01	13.976	22.010	0.0010	384	11.98	1.618	12.01	1.619
S-35	BASE	100YR-24HR	12.00	18.521	23.500	0.0014	237	11.98	1.618	11.99	1.618
S-36	BASE	100YR-24HR	11.97	18.105	21.430	0.0010	276	11.98	0.432	11.97	0.432
S-37	BASE	100YR-24HR	12.01	9.596	14.360	0.0005	349	12.01	1.767	12.01	1.767
S-39	BASE	100YR-24HR	12.00	6.746	12.910	0.0019	260	12.01	2.575	11.99	2.575
S-40	BASE	100YR-24HR	12.01	6.235	13.420	0.0018	612	12.00	2.779	11.99	2.778
S-41	BASE	100YR-24HR	12.00	6.561	10.810	0.0016	472	12.00	1.443	12.00	1.443
S-43	BASE	100YR-24HR	12.00	6.638	10.300	0.0007	293	11.98	0.674	12.01	0.674
S-68	BASE	100YR-24HR	11.94	5.424	9.110	0.0012	138	11.98	0.472	11.94	0.472
S1-01	BASE	100YR-24HR	12.01	5.887	9.510	-0.0099	116	11.98	0.121	24.17	2.962
S1-02	BASE	100YR-24HR	12.01	5.878	8.900	0.0100	122	24.17	2.988	23.62	0.784
S1-04	BASE	100YR-24HR	12.00	5.874	10.350	-0.0002	115	11.98	0.216	12.00	0.217
S1-05	BASE	100YR-24HR	12.01	5.873	10.190	-0.0045	265	12.00	0.932	12.01	1.000
S1-07	BASE	100YR-24HR	12.00	5.771	14.460	-0.0002	258	12.00	1.431	12.01	1.429
S1-08	BASE	100YR-24HR	12.01	5.741	14.540	-0.0002	202	12.00	1.861	11.97	1.860
S1-09	BASE	100YR-24HR	12.00	4.963	13.720	-0.0004	215	11.98	2.629	12.00	2.629
S1-12	BASE	100YR-24HR	19.12	4.352	6.713	0.0020	4812	12.01	6.471	12.00	6.278
S1-13	BASE	100YR-24HR	19.12	4.353	6.856	0.0048	3849	12.00	4.778	12.03	4.591
S1-14	BASE	100YR-24HR	12.00	20.102	24.280	-0.0004	184	11.98	0.782	12.00	0.782
S1-15	BASE	100YR-24HR	12.00	20.089	25.290	-0.0003	384	12.00	3.088	12.00	3.088
S1-16	BASE	100YR-24HR	12.00	20.029	25.220	-0.0002	207	12.00	3.344	12.00	3.344
S1-17	BASE	100YR-24HR	12.01	19.137	24.390	-0.0099	216	12.00	4.140	11.99	4.139
S1-19	BASE	100YR-24HR	12.00	26.353	30.890	-0.0005	190	11.98	1.079	12.00	1.079
S1-20	BASE	100YR-24HR	12.01	26.286	33.070	-0.0002	497	12.00	2.050	11.98	2.050
S1-21	BASE	100YR-24HR	12.00	26.339	30.650	-0.0004	205	11.98	0.971	12.00	0.971

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SD-E4	BASE	100YR-24HR	12.00	8.857	9.400	0.0009	169	11.98	0.364	12.00	0.364
SD-S43	BASE	100YR-24HR	12.01	6.898	9.820	0.0004	253	12.00	0.364	11.96	0.364

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
701_S1-13	BASE	100YR-24HR	12.00	0.394	0.108	12.00	6.423	19.12	4.353
701B_S1-12	BASE	100YR-24HR	12.21	0.785	0.040	19.12	4.352	19.12	4.352
D2D1	BASE	100YR-24HR	12.00	2.227	-4.318	24.25	5.019	24.28	5.019
DISCH-D1	BASE	100YR-24HR	24.28	0.471	-0.000	24.28	5.019	12.50	4.000
DISCH-E2	BASE	100YR-24HR	15.46	1.719	0.001	15.46	4.861	12.50	4.000
E4E2	BASE	100YR-24HR	36.08	17.419	12.919	15.46	4.860	15.46	4.861
FD_D2	BASE	100YR-24HR	0.00	0.000	0.000	15.03	5.031	24.25	5.019
OFF-E	BASE	100YR-24HR	12.01	1.133	-0.001	12.01	5.542	15.46	4.860
R710A-710B	BASE	100YR-24HR	12.07	2.095	-0.004	12.07	7.401	12.13	6.361
R710B-710C	BASE	100YR-24HR	12.12	2.262	-0.041	12.13	6.361	12.05	5.765
R710C-710D	BASE	100YR-24HR	1.08	0.001	0.000	12.05	5.765	12.05	5.783
R710D-710E	BASE	100YR-24HR	0.00	0.000	-0.003	12.05	5.783	12.01	5.877
R710E-FE	BASE	100YR-24HR	12.01	0.180	-0.000	12.01	5.877	12.01	5.820
RC1	BASE	100YR-24HR	12.52	7.528	-0.018	19.06	4.788	24.00	4.000
RC2	BASE	100YR-24HR	12.07	10.245	-0.593	19.12	4.345	24.00	4.000
S1-01_S1-02	BASE	100YR-24HR	24.17	2.962	-3.767	12.01	5.887	12.01	5.878
S1-02_S1-05	BASE	100YR-24HR	23.62	0.784	-1.039	12.01	5.878	12.01	5.873
S1-04_S1-05	BASE	100YR-24HR	12.00	0.217	0.045	12.00	5.874	12.01	5.873
S1-05_S1-07	BASE	100YR-24HR	12.01	1.000	-0.004	12.01	5.873	12.00	5.771
S1-07_S1-08	BASE	100YR-24HR	12.01	1.429	-0.001	12.00	5.771	12.01	5.741
S1-08_S1-09	BASE	100YR-24HR	11.97	1.860	0.001	12.01	5.741	11.97	5.447
S1-09_S1-12	BASE	100YR-24HR	12.00	2.629	-0.001	12.00	4.963	12.00	4.565
S1-12_FD	BASE	100YR-24HR	0.00	0.000	-0.001	12.12	4.240	15.03	5.031
S1-12_FD2	BASE	100YR-24HR	12.00	6.278	0.013	19.12	4.352	19.12	4.345
S1-13_701B	BASE	100YR-24HR	12.02	0.558	-0.071	19.12	4.353	19.12	4.352
S1-13_FD2	BASE	100YR-24HR	12.03	4.033	-0.072	19.12	4.353	19.12	4.345
S1-14_S1-15	BASE	100YR-24HR	12.00	0.782	-0.000	12.00	20.102	12.00	20.089
S1-15_S1-16	BASE	100YR-24HR	12.00	3.088	-0.001	12.00	20.089	12.00	20.029
S1-16_S1-17	BASE	100YR-24HR	12.00	3.344	-0.002	12.00	20.029	12.00	19.517
S1-17_S1-13	BASE	100YR-24HR	11.99	4.139	2.273	12.01	19.137	19.12	4.353
S1-19_S1-20	BASE	100YR-24HR	12.00	1.079	-0.000	12.00	26.353	12.01	26.286
S1-20_S1-15	BASE	100YR-24HR	11.98	2.050	0.001	12.01	26.286	11.98	19.505
S1-21_S1-20	BASE	100YR-24HR	12.00	0.971	-0.000	12.00	26.339	12.01	26.286
S28S30	BASE	100YR-24HR	11.96	0.310	0.001	11.96	24.274	11.96	23.727
S29S33	BASE	100YR-24HR	11.98	0.890	0.002	11.99	25.463	11.98	19.540
S30S32	BASE	100YR-24HR	11.97	0.890	0.001	12.00	18.973	11.97	18.308
S31S33	BASE	100YR-24HR	12.00	0.229	0.017	12.01	19.911	12.01	19.901
S32S34	BASE	100YR-24HR	11.97	1.160	0.002	12.01	18.530	11.97	13.652
S33S35	BASE	100YR-24HR	11.98	1.402	-0.001	12.01	19.901	11.98	18.345
S34S37	BASE	100YR-24HR	12.01	1.619	0.004	12.01	13.976	12.01	9.288
S35E2	BASE	100YR-24HR	11.99	1.618	0.082	12.00	18.521	11.99	4.687
S36S40	BASE	100YR-24HR	11.97	0.432	0.003	11.97	18.105	11.97	9.303
S37S39	BASE	100YR-24HR	12.01	1.767	0.005	12.01	9.596	12.01	6.278
S39D1	BASE	100YR-24HR	11.99	2.575	0.003	12.00	6.746	25.12	5.013
S40E2	BASE	100YR-24HR	11.99	2.778	0.001	12.01	6.235	25.38	4.496
S41S40	BASE	100YR-24HR	12.00	1.443	-0.001	12.00	6.561	12.00	5.946
S43S41	BASE	100YR-24HR	12.01	0.674	-0.001	12.00	6.638	12.00	6.561
S68E2	BASE	100YR-24HR	11.94	0.472	0.002	11.94	5.424	24.51	4.610

E-96

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
SDE4S43_1	BASE	100YR-24HR	12.00	0.364	-0.001	12.00	8.857	11.99	7.889
SDE4S43_2	BASE	100YR-24HR	0.00	0.000	0.000	12.01	6.898	12.00	6.638
SDS43S43	BASE	100YR-24HR	11.96	0.364	0.000	12.01	6.898	11.96	6.507
SFD1E4	BASE	100YR-24HR	0.00	0.000	-1.210	19.06	4.788	15.46	4.860
W710C-FD1	BASE	100YR-24HR	12.05	4.156	-0.001	12.05	5.765	19.06	4.788
W710E-FD1	BASE	100YR-24HR	12.01	1.319	-0.001	12.01	5.877	19.06	4.788
WFD_FD2	BASE	100YR-24HR	15.03	0.334	0.000	15.03	5.031	19.12	4.345
WFE-FD1	BASE	100YR-24HR	0.00	0.000	0.000	12.01	5.542	19.06	4.788

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25-Year / 72-Hour Storm
SFWMD Distribution

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
25YR-72HR	B-701	BASE	60.02	0.413	4.456	2264.8
25YR-72HR	B1-01	BASE	60.02	0.558	13.507	4412.9
25YR-72HR	B1-02	BASE	60.02	2.048	13.507	16180.5
25YR-72HR	B1-03	BASE	60.02	3.475	13.507	27457.9
25YR-72HR	B1-04	BASE	60.02	0.993	13.507	7845.1
25YR-72HR	B1-05	BASE	60.02	0.993	13.507	7845.1
25YR-72HR	B1-06	BASE	60.02	1.986	13.507	15690.2
25YR-72HR	B1-07	BASE	60.02	1.986	13.507	15690.2
25YR-72HR	B1-08	BASE	60.02	1.986	13.507	15690.2
25YR-72HR	B1-09	BASE	60.02	3.537	13.507	27948.2
25YR-72HR	B1-11	BASE	60.02	3.475	13.507	27457.9
25YR-72HR	B1-12	BASE	60.02	7.348	9.453	47352.3
25YR-72HR	B1-13	BASE	60.02	0.531	4.456	2911.8
25YR-72HR	B1-14	BASE	60.02	3.599	13.507	28438.5
25YR-72HR	B1-15	BASE	60.02	1.179	13.507	9316.1
25YR-72HR	B1-16	BASE	60.02	1.179	13.507	9316.1
25YR-72HR	B1-17	BASE	60.02	3.661	13.507	28928.8
25YR-72HR	B1-19	BASE	60.02	4.964	13.507	39225.6
25YR-72HR	B1-21	BASE	60.02	4.468	13.507	35303.0
25YR-72HR	D1	BASE	60.02	23.893	6.541	139145.0
25YR-72HR	D1-S28	BASE	60.02	1.427	13.507	11277.3
25YR-72HR	D1-S30	BASE	60.02	2.668	13.507	21083.7
25YR-72HR	D1-S32	BASE	60.02	1.241	13.507	9806.4
25YR-72HR	D1-S34	BASE	60.02	2.110	13.507	16670.9
25YR-72HR	D1-S37	BASE	60.02	0.683	13.507	5393.5
25YR-72HR	D1-S39	BASE	60.02	3.723	13.507	29419.2
25YR-72HR	D2	BASE	60.02	10.759	11.599	76210.3
25YR-72HR	E2	BASE	60.02	9.758	5.449	54984.4
25YR-72HR	E2-S29	BASE	60.02	4.095	13.507	32361.1
25YR-72HR	E2-S31	BASE	60.02	1.055	13.507	8335.4
25YR-72HR	E2-S33	BASE	60.02	1.303	13.507	10296.7
25YR-72HR	E2-S35	BASE	60.02	0.993	13.507	7845.1
25YR-72HR	E2-S36	BASE	60.02	1.986	13.507	15690.2
25YR-72HR	E2-S40	BASE	60.02	4.157	13.507	32851.4
25YR-72HR	E2-S41	BASE	60.02	3.537	13.507	27948.2
25YR-72HR	E2-S43	BASE	60.02	1.427	13.507	11277.3
25YR-72HR	E2-S68	BASE	60.02	2.172	13.507	17161.2
25YR-72HR	E2-SDE4	BASE	60.02	1.675	13.507	13238.6
25YR-72HR	E4	BASE	60.02	9.122	13.507	72077.0
25YR-72HR	OFF-701	BASE	60.02	1.143	8.513	7107.7
25YR-72HR	OFF-701B	BASE	60.02	1.108	8.682	6933.6
25YR-72HR	OFF-710A	BASE	60.02	10.353	10.695	70272.2
25YR-72HR	OFF-710B	BASE	60.02	0.992	10.011	6541.0
25YR-72HR	OFF-710C	BASE	60.02	0.389	10.148	2578.7
25YR-72HR	OFF-710D	BASE	60.02	2.601	10.470	17482.2
25YR-72HR	OFF-710E	BASE	60.02	4.190	10.766	28529.1
25YR-72HR	OFF-B1-12	BASE	60.02	8.077	11.036	55683.8
25YR-72HR	OFF-B1-13	BASE	60.02	0.819	8.147	5027.8
25YR-72HR	OFF-D	BASE	60.02	5.401	9.833	35337.9
25YR-72HR	OFF-E	BASE	60.02	4.790	8.978	30309.7

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	25YR-72HR	60.50	4.000	99.000	0.0003	0	60.42	24.993	0.00	0.000
D-1	BASE	25YR-72HR	72.00	5.032	5.350	0.0008	142722	60.02	45.846	72.00	1.036
D-2	BASE	25YR-72HR	72.00	5.032	5.350	-0.0081	7803	60.02	10.752	60.02	10.341
E-2	BASE	25YR-72HR	60.42	5.161	9.770	-0.0077	60229	60.05	36.861	60.42	24.993
E-4	BASE	25YR-72HR	60.41	5.172	6.000	0.0081	37902	60.03	25.956	1.27	16.258
F-D	BASE	25YR-72HR	60.39	5.923	7.000	0.0026	28273	59.97	13.571	60.39	21.739
F-E	BASE	25YR-72HR	60.05	5.628	8.500	0.0002	4759	60.03	5.992	60.05	5.961
GW	BASE	25YR-72HR	72.00	4.000	99.000	0.0003	0	60.15	37.496	0.00	0.000
N-701	BASE	25YR-72HR	60.11	6.530	6.935	0.0002	4986	60.02	1.553	60.06	1.354
N-701B	BASE	25YR-72HR	60.38	5.924	7.077	0.0026	4591	60.09	5.853	60.91	4.508
N-710A	BASE	25YR-72HR	60.06	7.686	7.584	0.0008	10842	60.02	10.346	60.06	10.032
N-710B	BASE	25YR-72HR	60.10	6.790	6.988	0.0009	9480	60.05	11.002	60.10	10.593
N-710C	BASE	25YR-72HR	60.09	6.085	6.758	0.0005	1295	60.07	14.096	60.09	14.052
N-710D	BASE	25YR-72HR	60.09	6.086	7.289	0.0005	2295	60.08	1.086	60.11	1.150
N-710E	BASE	25YR-72HR	60.07	6.074	7.302	0.0004	3463	60.05	10.153	60.07	10.080
N-FD1	BASE	25YR-72HR	60.09	5.750	99.000	0.0029	127	60.07	24.211	60.07	24.169
N-FD2	BASE	25YR-72HR	60.38	5.868	99.000	-0.0319	196	60.38	125.736	60.19	25.036
S-28	BASE	25YR-72HR	60.03	24.612	28.300	0.0009	233	60.02	1.427	60.02	1.422
S-29	BASE	25YR-72HR	60.03	26.118	28.000	0.0017	305	60.02	4.094	60.02	4.081
S-30	BASE	25YR-72HR	60.03	19.626	27.240	0.0017	277	60.02	4.088	60.03	4.077
S-31	BASE	25YR-72HR	60.04	20.837	28.290	0.0021	153	60.02	1.054	60.05	1.043
S-32	BASE	25YR-72HR	60.04	19.324	23.780	0.0023	254	60.02	5.314	60.03	5.305
S-33	BASE	25YR-72HR	60.04	20.825	25.290	0.0021	355	60.03	6.415	60.04	6.396
S-34	BASE	25YR-72HR	60.04	14.774	22.010	0.0020	409	60.03	7.402	60.04	7.388
S-35	BASE	25YR-72HR	60.05	19.566	23.500	0.0023	193	60.04	7.379	60.04	7.371
S-36	BASE	25YR-72HR	60.03	18.514	21.430	0.0011	319	60.02	1.985	60.02	1.976
S-37	BASE	25YR-72HR	60.05	10.443	14.360	0.0021	388	60.04	8.064	60.05	8.051
S-39	BASE	25YR-72HR	60.04	7.867	12.910	0.0026	252	60.03	11.731	60.04	11.721
S-40	BASE	25YR-72HR	60.05	7.410	13.420	0.0026	468	60.03	12.514	60.05	12.487
S-41	BASE	25YR-72HR	60.05	7.630	10.810	0.0019	397	60.03	6.486	60.07	6.477
S-43	BASE	25YR-72HR	60.06	7.660	10.300	0.0017	281	60.04	3.031	60.09	3.070
S-68	BASE	25YR-72HR	60.02	5.857	9.110	0.0011	144	60.02	2.171	60.02	2.168
S1-01	BASE	25YR-72HR	60.05	7.238	9.510	-0.0100	113	60.02	0.558	71.47	2.981
S1-02	BASE	25YR-72HR	60.05	7.235	8.900	-0.0100	121	59.95	3.514	60.06	2.546
S1-04	BASE	25YR-72HR	60.05	7.092	10.350	-0.0095	113	60.02	0.992	59.82	2.356
S1-05	BASE	25YR-72HR	60.05	7.085	10.190	0.0080	128	59.82	5.320	60.07	4.496
S1-07	BASE	25YR-72HR	60.04	6.675	14.460	0.0021	123	60.04	6.429	60.05	6.431
S1-08	BASE	25YR-72HR	60.04	6.609	14.540	0.0020	198	60.03	8.390	60.04	8.385
S1-09	BASE	25YR-72HR	60.07	6.120	13.720	0.0030	203	60.03	11.894	60.04	11.866
S1-12	BASE	25YR-72HR	60.38	5.925	6.713	0.0026	8781	60.04	31.341	60.37	71.381
S1-13	BASE	25YR-72HR	60.38	5.927	6.856	0.0026	7746	60.04	21.474	60.37	38.217
S1-14	BASE	25YR-72HR	60.05	22.086	24.280	0.0053	117	60.02	3.597	60.03	3.547
S1-15	BASE	25YR-72HR	60.05	21.900	25.290	0.0033	286	60.03	14.063	60.05	14.026
S1-16	BASE	25YR-72HR	60.05	21.425	25.220	0.0031	118	60.05	15.184	60.05	15.182
S1-17	BASE	25YR-72HR	60.04	20.847	24.390	-0.0099	122	60.04	18.788	60.04	18.784
S1-19	BASE	25YR-72HR	60.04	28.028	30.890	0.0062	117	60.02	4.962	60.03	4.928
S1-20	BASE	25YR-72HR	60.04	27.652	33.070	0.0028	185	60.03	9.360	60.04	9.348
S1-21	BASE	25YR-72HR	60.04	27.985	30.650	0.0035	118	60.02	4.466	60.03	4.433

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SD-E4	BASE	25YR-72HR	60.02	9.125	9.400	0.0007	190	60.02	1.675	60.02	1.673
SD-S43	BASE	25YR-72HR	60.06	7.696	9.820	0.0012	269	60.02	1.673	60.08	1.659

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
701_S1-13	BASE	25YR-72HR	60.06	1.354	0.133	60.11	6.530	60.38	5.927
701B_S1-12	BASE	25YR-72HR	60.91	4.508	-5.061	60.38	5.924	60.38	5.925
D2D1	BASE	25YR-72HR	60.02	10.341	-8.471	72.00	5.032	72.00	5.032
DISCH-D1	BASE	25YR-72HR	72.00	1.036	-0.001	72.00	5.032	60.50	4.000
DISCH-E2	BASE	25YR-72HR	60.42	24.993	0.045	60.42	5.161	60.50	4.000
E4E2	BASE	25YR-72HR	1.27	16.258	12.463	60.41	5.172	60.42	5.161
FD_D2	BASE	25YR-72HR	0.00	0.000	0.000	60.39	5.923	72.00	5.032
OFF-E	BASE	25YR-72HR	60.05	5.961	0.010	60.05	5.628	60.41	5.172
R710A-710B	BASE	25YR-72HR	60.06	10.032	0.033	60.06	7.686	60.10	6.790
R710B-710C	BASE	25YR-72HR	60.10	10.593	-0.041	60.10	6.790	60.09	6.085
R710C-710D	BASE	25YR-72HR	2.01	0.000	0.011	60.09	6.085	60.09	6.086
R710D-710E	BASE	25YR-72HR	60.11	1.150	0.031	60.09	6.086	60.07	6.074
R710E-FE	BASE	25YR-72HR	60.07	1.266	0.002	60.07	6.074	60.07	5.870
RC1	BASE	25YR-72HR	60.09	13.337	0.018	60.09	5.750	72.00	4.000
RC2	BASE	25YR-72HR	60.19	25.036	-0.381	60.38	5.868	72.00	4.000
S1-01_S1-02	BASE	25YR-72HR	71.47	2.981	-3.794	60.05	7.238	60.05	7.235
S1-02_S1-05	BASE	25YR-72HR	60.06	2.546	-1.090	60.05	7.235	60.05	7.085
S1-04_S1-05	BASE	25YR-72HR	59.82	2.356	1.675	60.05	7.092	60.05	7.085
S1-05_S1-07	BASE	25YR-72HR	60.07	4.496	0.056	60.05	7.085	60.04	6.675
S1-07_S1-08	BASE	25YR-72HR	60.05	6.431	0.011	60.04	6.675	60.04	6.609
S1-08_S1-09	BASE	25YR-72HR	60.04	8.385	0.015	60.04	6.609	60.04	6.178
S1-09_S1-12	BASE	25YR-72HR	60.04	11.866	0.030	60.07	6.120	60.38	5.925
S1-12_FD	BASE	25YR-72HR	59.97	8.328	-0.205	60.38	5.925	60.39	5.923
S1-12_FD2	BASE	25YR-72HR	60.38	69.104	-15.794	60.38	5.925	60.38	5.868
S1-13_701B	BASE	25YR-72HR	60.10	4.877	1.645	60.38	5.927	60.38	5.924
S1-13_FD2	BASE	25YR-72HR	60.38	34.908	-7.402	60.38	5.927	60.38	5.868
S1-14_S1-15	BASE	25YR-72HR	60.03	3.547	0.139	60.05	22.086	60.05	21.900
S1-15_S1-16	BASE	25YR-72HR	60.05	14.026	-0.027	60.05	21.900	60.05	21.425
S1-16_S1-17	BASE	25YR-72HR	60.05	15.182	0.028	60.05	21.425	60.01	20.850
S1-17_S1-13	BASE	25YR-72HR	60.04	18.784	2.271	60.04	20.847	61.27	5.297
S1-19_S1-20	BASE	25YR-72HR	60.03	4.928	0.242	60.04	28.028	60.04	27.652
S1-20_S1-15	BASE	25YR-72HR	60.04	9.348	0.017	60.04	27.652	60.04	19.952
S1-21_S1-20	BASE	25YR-72HR	60.03	4.433	0.024	60.04	27.985	60.04	27.652
S28S30	BASE	25YR-72HR	60.02	1.422	0.003	60.03	24.612	60.02	23.986
S29S33	BASE	25YR-72HR	60.02	4.081	0.008	60.03	26.118	60.02	19.816
S30S32	BASE	25YR-72HR	60.03	4.077	-0.241	60.03	19.626	60.25	18.971
S31S33	BASE	25YR-72HR	60.05	1.043	0.002	60.04	20.837	60.04	20.825
S32S34	BASE	25YR-72HR	60.03	5.305	0.013	60.04	19.324	60.03	13.944
S33S35	BASE	25YR-72HR	60.04	6.396	0.012	60.04	20.825	60.04	18.775
S34S37	BASE	25YR-72HR	60.04	7.388	0.014	60.04	14.774	60.04	9.612
S35E2	BASE	25YR-72HR	60.04	7.371	0.082	60.05	19.566	60.04	4.893
S36S40	BASE	25YR-72HR	60.02	1.976	0.004	60.03	18.514	60.02	9.471
S37S39	BASE	25YR-72HR	60.05	8.051	0.015	60.05	10.443	60.05	6.590
S39D1	BASE	25YR-72HR	60.04	11.721	0.021	60.04	7.867	60.04	5.310
S40E2	BASE	25YR-72HR	60.05	12.487	0.022	60.05	7.410	60.05	4.940
S41S40	BASE	25YR-72HR	60.07	6.477	0.012	60.05	7.630	60.05	7.410
S43S41	BASE	25YR-72HR	60.09	3.070	0.005	60.06	7.660	60.05	7.630
S68E2	BASE	25YR-72HR	60.02	2.168	0.040	60.02	5.857	60.42	5.161

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
SDE4S43_1	BASE	25YR-72HR	60.02	1.673	0.003	60.02	9.125	60.02	8.060
SDE4S43_2	BASE	25YR-72HR	0.00	0.000	0.000	60.06	7.696	60.06	7.660
SDS43S43	BASE	25YR-72HR	60.08	1.659	0.004	60.06	7.696	60.06	7.660
SFD1E4	BASE	25YR-72HR	60.04	10.954	-1.169	60.09	5.750	60.41	5.172
W710C-FD1	BASE	25YR-72HR	60.03	15.443	0.019	60.09	6.085	60.09	5.750
W710E-FD1	BASE	25YR-72HR	60.07	8.814	0.013	60.07	6.074	60.09	5.750
WFD_FD2	BASE	25YR-72HR	60.39	21.739	6.031	60.39	5.923	60.38	5.868
WFE-FD1	BASE	25YR-72HR	0.00	0.000	0.000	60.05	5.628	60.09	5.750

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	0.00	3.000	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.08	3.001	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.18	3.003	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.26	3.004	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.34	3.006	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.42	3.007	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.50	3.008	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.60	3.010	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.68	3.011	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.77	3.013	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.85	3.014	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.93	3.015	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.02	3.017	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.10	3.018	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.18	3.020	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.27	3.021	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.33	3.022	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.42	3.023	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.50	3.025	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.58	3.026	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.67	3.028	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.75	3.029	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.83	3.030	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.92	3.032	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.00	3.033	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.08	3.034	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.17	3.036	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.25	3.037	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.33	3.039	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.42	3.040	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.50	3.041	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.58	3.043	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.67	3.044	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.75	3.045	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.83	3.047	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.92	3.048	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.00	3.050	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.08	3.051	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.17	3.052	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.25	3.054	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.33	3.055	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.42	3.056	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.50	3.058	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.58	3.059	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.67	3.061	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.75	3.062	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.83	3.063	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.92	3.065	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	4.00	3.066	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.08	3.067	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.17	3.069	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.25	3.070	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.33	3.072	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.42	3.073	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.50	3.074	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.58	3.076	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.67	3.077	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.75	3.079	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.83	3.080	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.92	3.081	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.00	3.083	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.08	3.084	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.17	3.085	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.25	3.087	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.33	3.088	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.42	3.090	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.50	3.091	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.58	3.092	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.67	3.094	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.75	3.095	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.83	3.096	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.92	3.098	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.00	3.099	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.08	3.101	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.17	3.102	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.25	3.103	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.33	3.105	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.42	3.106	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.50	3.107	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.58	3.109	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.67	3.110	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.75	3.112	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.83	3.113	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.92	3.114	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.00	3.116	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.08	3.117	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.17	3.118	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.25	3.120	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.33	3.121	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.42	3.123	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.50	3.124	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.58	3.125	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.67	3.127	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.75	3.128	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.83	3.129	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.92	3.131	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	8.00	3.132	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.08	3.134	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.10	3.134	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.12	3.134	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.13	3.134	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.15	3.135	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.17	3.135	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.18	3.135	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.20	3.136	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.22	3.136	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.23	3.136	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.25	3.136	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.27	3.137	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.28	3.137	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.30	3.137	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.32	3.137	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.33	3.138	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.35	3.138	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.37	3.138	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.38	3.139	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.40	3.139	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.42	3.139	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.43	3.139	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.45	3.140	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.47	3.140	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.48	3.140	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.50	3.140	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.52	3.141	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.53	3.141	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.55	3.141	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.57	3.142	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.58	3.142	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.60	3.142	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.62	3.142	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.63	3.143	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.65	3.143	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.67	3.143	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.68	3.144	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.70	3.144	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.72	3.144	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.73	3.144	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.75	3.145	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.77	3.145	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.78	3.145	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.80	3.145	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.82	3.146	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.83	3.146	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.85	3.146	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	8.87	3.147	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.88	3.147	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.90	3.147	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.92	3.147	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.93	3.148	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.95	3.148	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.97	3.148	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.98	3.148	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.00	3.149	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.02	3.149	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.03	3.149	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.05	3.150	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.07	3.150	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.08	3.150	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.10	3.150	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.12	3.151	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.13	3.151	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.15	3.151	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.17	3.152	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.18	3.152	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.20	3.152	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.22	3.152	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.23	3.153	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.25	3.153	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.27	3.153	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.28	3.153	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.30	3.154	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.32	3.154	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.33	3.154	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.35	3.155	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.37	3.155	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.38	3.155	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.40	3.155	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.42	3.156	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.43	3.156	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.45	3.156	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.47	3.156	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.48	3.157	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.50	3.157	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.52	3.157	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.53	3.158	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.55	3.158	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.57	3.158	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.58	3.158	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.60	3.159	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.62	3.159	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.63	3.159	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.65	3.160	99.000	0	0.000	0.000	0.0	0.0

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	9.67	3.160	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.68	3.160	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.70	3.160	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.72	3.161	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.73	3.161	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.75	3.161	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.77	3.161	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.78	3.162	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.80	3.162	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.82	3.162	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.83	3.163	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.85	3.163	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.87	3.163	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.88	3.163	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.90	3.164	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.92	3.164	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.93	3.164	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.95	3.164	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.97	3.165	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.98	3.165	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.00	3.165	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.02	3.166	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.03	3.166	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.05	3.166	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.07	3.166	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.08	3.167	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.10	3.167	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.12	3.167	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.13	3.167	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.15	3.168	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.17	3.168	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.18	3.168	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.20	3.169	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.22	3.169	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.23	3.169	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.25	3.169	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.27	3.170	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.28	3.170	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.30	3.170	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.32	3.171	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.33	3.171	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.35	3.171	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.37	3.171	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.38	3.172	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.40	3.172	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.42	3.172	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.43	3.172	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.45	3.173	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	10.47	3.173	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.48	3.173	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.50	3.174	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.52	3.174	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.53	3.174	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.55	3.174	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.57	3.175	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.58	3.175	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.60	3.175	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.62	3.175	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.63	3.176	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.65	3.176	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.67	3.176	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.68	3.177	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.70	3.177	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.72	3.177	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.73	3.177	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.75	3.178	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.77	3.178	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.78	3.178	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.80	3.179	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.82	3.179	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.83	3.179	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.85	3.179	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.87	3.180	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.88	3.180	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.90	3.180	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.92	3.180	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.93	3.181	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.95	3.181	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.97	3.181	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.98	3.182	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.00	3.182	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.02	3.182	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.03	3.182	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.05	3.183	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.07	3.183	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.08	3.183	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.10	3.183	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.12	3.184	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.13	3.184	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.15	3.184	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.17	3.185	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.18	3.185	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.20	3.185	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.22	3.185	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.23	3.186	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.25	3.186	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	11.27	3.186	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.28	3.187	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.30	3.187	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.32	3.187	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.33	3.187	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.35	3.188	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.37	3.188	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.38	3.188	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.40	3.188	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.42	3.189	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.43	3.189	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.45	3.189	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.47	3.190	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.48	3.190	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.50	3.190	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.52	3.190	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.53	3.191	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.55	3.191	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.57	3.191	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.58	3.191	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.60	3.192	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.62	3.192	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.63	3.192	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.65	3.193	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.67	3.193	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.68	3.193	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.70	3.193	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.72	3.194	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.73	3.194	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.75	3.194	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.77	3.194	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.78	3.195	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.80	3.195	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.82	3.195	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.83	3.196	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.85	3.196	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.87	3.196	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.88	3.196	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.90	3.197	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.92	3.197	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.93	3.197	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.95	3.198	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.97	3.198	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.98	3.198	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.00	3.198	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.02	3.199	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.03	3.199	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.05	3.199	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	12.07	3.199	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.08	3.200	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.10	3.200	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.12	3.200	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.13	3.201	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.15	3.201	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.17	3.201	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.18	3.201	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.20	3.202	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.22	3.202	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.23	3.202	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.25	3.202	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.27	3.203	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.28	3.203	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.30	3.203	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.32	3.204	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.33	3.204	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.35	3.204	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.37	3.204	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.38	3.205	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.40	3.205	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.42	3.205	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.43	3.206	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.45	3.206	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.47	3.206	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.48	3.206	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.50	3.207	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.52	3.207	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.53	3.207	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.55	3.207	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.57	3.208	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.58	3.208	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.60	3.208	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.62	3.209	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.63	3.209	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.65	3.209	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.67	3.209	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.68	3.210	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.70	3.210	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.72	3.210	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.73	3.210	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.75	3.211	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.77	3.211	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.78	3.211	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.80	3.212	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.82	3.212	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.83	3.212	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.85	3.212	99.000	0	0.000	0.000	0.0	0.0

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	12.87	3.213	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.88	3.213	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.90	3.213	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.92	3.213	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.93	3.214	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.95	3.214	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.97	3.214	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.98	3.215	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.00	3.215	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.02	3.215	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.03	3.215	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.05	3.216	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.07	3.216	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.08	3.216	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.10	3.217	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.12	3.217	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.13	3.217	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.15	3.217	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.17	3.218	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.18	3.218	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.20	3.218	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.22	3.218	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.23	3.219	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.25	3.219	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.27	3.219	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.28	3.220	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.30	3.220	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.32	3.220	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.33	3.220	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.35	3.221	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.37	3.221	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.38	3.221	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.40	3.221	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.42	3.222	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.43	3.222	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.45	3.222	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.47	3.223	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.48	3.223	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.50	3.223	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.52	3.223	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.53	3.224	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.55	3.224	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.57	3.224	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.58	3.225	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.60	3.225	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.62	3.225	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.63	3.225	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.65	3.226	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	13.67	3.226	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.68	3.226	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.70	3.226	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.72	3.227	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.73	3.227	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.75	3.227	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.77	3.228	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.78	3.228	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.80	3.228	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.82	3.228	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.83	3.229	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.85	3.229	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.87	3.229	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.88	3.229	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.90	3.230	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.92	3.230	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.93	3.230	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.95	3.231	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.97	3.231	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.98	3.231	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.00	3.231	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.02	3.232	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.03	3.232	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.05	3.232	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.07	3.233	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.08	3.233	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.10	3.233	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.12	3.233	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.13	3.234	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.15	3.234	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.17	3.234	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.18	3.234	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.20	3.235	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.22	3.235	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.23	3.235	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.25	3.236	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.27	3.236	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.28	3.236	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.30	3.236	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.32	3.237	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.33	3.237	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.35	3.237	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.37	3.237	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.38	3.238	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.40	3.238	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.42	3.238	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.43	3.239	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.45	3.239	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	14.47	3.239	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.48	3.239	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.50	3.240	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.52	3.240	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.53	3.240	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.55	3.240	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.57	3.241	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.58	3.241	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.60	3.241	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.62	3.242	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.63	3.242	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.65	3.242	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.67	3.242	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.68	3.243	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.70	3.243	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.72	3.243	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.73	3.244	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.75	3.244	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.77	3.244	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.78	3.244	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.80	3.245	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.82	3.245	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.83	3.245	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.85	3.245	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.87	3.246	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.88	3.246	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.90	3.246	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.92	3.247	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.93	3.247	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.95	3.247	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.97	3.247	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.98	3.248	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.00	3.248	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.02	3.248	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.03	3.248	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.05	3.249	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.07	3.249	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.08	3.249	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.10	3.250	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.12	3.250	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.13	3.250	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.15	3.250	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.17	3.251	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.18	3.251	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.20	3.251	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.22	3.252	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.23	3.252	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.25	3.252	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	15.27	3.252	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.28	3.253	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.30	3.253	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.32	3.253	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.33	3.253	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.35	3.254	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.37	3.254	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.38	3.254	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.40	3.255	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.42	3.255	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.43	3.255	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.45	3.255	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.47	3.256	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.48	3.256	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.50	3.256	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.52	3.256	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.53	3.257	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.55	3.257	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.57	3.257	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.58	3.258	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.60	3.258	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.62	3.258	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.63	3.258	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.65	3.259	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.67	3.259	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.68	3.259	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.70	3.260	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.72	3.260	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.73	3.260	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.75	3.260	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.77	3.261	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.78	3.261	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.80	3.261	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.82	3.261	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.83	3.262	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.85	3.262	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.87	3.262	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.88	3.263	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.90	3.263	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.92	3.263	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.93	3.263	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.95	3.264	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.97	3.264	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.98	3.264	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.00	3.264	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.08	3.266	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.17	3.267	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.25	3.269	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	16.33	3.270	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.42	3.271	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.50	3.273	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.58	3.274	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.67	3.275	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.75	3.277	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.83	3.278	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.92	3.280	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.00	3.281	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.08	3.282	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.17	3.284	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.25	3.285	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.33	3.287	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.42	3.288	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.50	3.289	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.58	3.291	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.67	3.292	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.75	3.293	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.83	3.295	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.92	3.296	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.00	3.298	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.08	3.299	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.17	3.300	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.25	3.302	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.33	3.303	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.42	3.304	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.50	3.306	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.58	3.307	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.67	3.309	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.75	3.310	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.83	3.311	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.92	3.313	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.00	3.314	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.08	3.315	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.17	3.317	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.25	3.318	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.33	3.320	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.42	3.321	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.50	3.322	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.58	3.324	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.67	3.325	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.75	3.326	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.83	3.328	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.92	3.329	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.00	3.331	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.08	3.332	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.17	3.333	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.25	3.335	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	20.33	3.336	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.42	3.337	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.50	3.339	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.58	3.340	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.67	3.342	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.75	3.343	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.83	3.344	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.92	3.346	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.00	3.347	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.08	3.348	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.17	3.350	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.25	3.351	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.33	3.353	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.42	3.354	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.50	3.355	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.58	3.357	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.67	3.358	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.75	3.360	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.83	3.361	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.92	3.362	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.00	3.364	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.08	3.365	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.17	3.366	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.25	3.368	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.33	3.369	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.42	3.371	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.50	3.372	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.58	3.373	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.67	3.375	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.75	3.376	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.83	3.377	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.92	3.379	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.00	3.380	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.08	3.382	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.17	3.383	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.25	3.384	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.33	3.386	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.42	3.387	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.50	3.388	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.58	3.390	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.67	3.391	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.75	3.393	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.83	3.394	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.92	3.395	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	24.00	3.397	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	24.25	3.401	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	24.50	3.405	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	24.75	3.409	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	25.00	3.413	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	25.25	3.417	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	25.50	3.421	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	25.75	3.426	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	26.00	3.430	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	26.25	3.434	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	26.50	3.438	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	26.75	3.442	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	27.00	3.446	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	27.25	3.450	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	27.50	3.455	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	27.75	3.459	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	28.00	3.463	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	28.25	3.467	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	28.50	3.471	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	28.75	3.475	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	29.00	3.479	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	29.25	3.483	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	29.50	3.488	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	29.75	3.492	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	30.00	3.496	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	30.25	3.500	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	30.50	3.504	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	30.75	3.508	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	31.00	3.512	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	31.25	3.517	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	31.50	3.521	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	31.75	3.525	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	32.00	3.529	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	32.25	3.533	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	32.50	3.537	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	32.75	3.541	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	33.00	3.545	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	33.25	3.550	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	33.50	3.554	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	33.75	3.558	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	34.00	3.562	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	34.25	3.566	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	34.50	3.570	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	34.75	3.574	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	35.00	3.579	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	35.25	3.583	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	35.50	3.587	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	35.75	3.591	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	36.00	3.595	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	36.25	3.599	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	36.50	3.603	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	36.75	3.607	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	37.00	3.612	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	37.25	3.616	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	37.50	3.620	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	37.75	3.624	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	38.00	3.628	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	38.25	3.632	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	38.50	3.636	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	38.75	3.640	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	39.00	3.645	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	39.25	3.649	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	39.50	3.653	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	39.75	3.657	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	40.00	3.661	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	40.25	3.665	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	40.50	3.669	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	40.75	3.674	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	41.00	3.678	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	41.25	3.682	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	41.50	3.686	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	41.75	3.690	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	42.00	3.694	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	42.25	3.698	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	42.50	3.702	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	42.75	3.707	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	43.00	3.711	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	43.25	3.715	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	43.50	3.719	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	43.75	3.723	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	44.00	3.727	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	44.25	3.731	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	44.50	3.736	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	44.75	3.740	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	45.00	3.744	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	45.25	3.748	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	45.50	3.752	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	45.75	3.756	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	46.00	3.760	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	46.25	3.764	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	46.50	3.769	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	46.75	3.773	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	47.00	3.777	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	47.25	3.781	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	47.50	3.785	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	47.75	3.789	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	48.00	3.793	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	48.25	3.798	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	48.50	3.802	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	48.75	3.806	99.000	0	0.000	0.000	0.0	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	49.00	3.810	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	49.25	3.814	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	49.50	3.818	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	49.75	3.822	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	50.00	3.826	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	50.25	3.831	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	50.50	3.835	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	50.75	3.839	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	51.00	3.843	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	51.25	3.847	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	51.50	3.851	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	51.75	3.855	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	52.00	3.860	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	52.25	3.864	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	52.50	3.868	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	52.75	3.872	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	53.00	3.876	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	53.25	3.880	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	53.50	3.884	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	53.75	3.888	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	54.00	3.893	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	54.25	3.897	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	54.50	3.901	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	54.75	3.905	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	55.00	3.909	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	55.25	3.913	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	55.50	3.917	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	55.75	3.921	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	56.00	3.926	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	56.25	3.930	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	56.50	3.934	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	56.75	3.938	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	57.00	3.942	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	57.25	3.946	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	57.50	3.950	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	57.75	3.955	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	58.00	3.959	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	58.25	3.963	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	58.50	3.967	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	58.75	3.971	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	59.00	3.975	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	59.25	3.979	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	59.50	3.983	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	59.75	3.988	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	60.00	3.992	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	60.25	3.996	99.000	0	21.379	0.000	0.2	0.0
25YR-72HR	CANAL	BASE	60.50	4.000	99.000	0	24.410	0.000	0.7	0.0
25YR-72HR	CANAL	BASE	60.75	4.000	99.000	0	18.454	0.000	1.1	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	61.00	4.000	99.000	0	11.831	0.000	1.4	0.0
25YR-72HR	CANAL	BASE	61.25	4.000	99.000	0	7.701	0.000	1.7	0.0
25YR-72HR	CANAL	BASE	61.50	4.000	99.000	0	5.082	0.000	1.8	0.0
25YR-72HR	CANAL	BASE	61.75	4.000	99.000	0	3.475	0.000	1.9	0.0
25YR-72HR	CANAL	BASE	62.00	4.000	99.000	0	2.402	0.000	1.9	0.0
25YR-72HR	CANAL	BASE	62.25	4.000	99.000	0	1.646	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	62.50	4.000	99.000	0	1.004	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	62.75	4.000	99.000	0	0.538	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	63.00	4.000	99.000	0	0.212	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	63.25	4.000	99.000	0	0.029	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	63.50	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	63.75	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	64.00	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	64.25	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	64.50	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	64.75	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	65.00	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	65.25	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	65.50	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	65.75	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	66.00	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	66.25	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	66.50	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	66.75	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	67.00	4.000	99.000	0	0.000	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	67.25	4.000	99.000	0	0.036	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	67.50	4.000	99.000	0	0.239	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	67.75	4.000	99.000	0	0.482	0.000	2.0	0.0
25YR-72HR	CANAL	BASE	68.00	4.000	99.000	0	0.714	0.000	2.1	0.0
25YR-72HR	CANAL	BASE	68.25	4.000	99.000	0	0.878	0.000	2.1	0.0
25YR-72HR	CANAL	BASE	68.50	4.000	99.000	0	0.951	0.000	2.1	0.0
25YR-72HR	CANAL	BASE	68.75	4.000	99.000	0	0.982	0.000	2.1	0.0
25YR-72HR	CANAL	BASE	69.00	4.000	99.000	0	0.995	0.000	2.1	0.0
25YR-72HR	CANAL	BASE	69.25	4.000	99.000	0	1.004	0.000	2.1	0.0
25YR-72HR	CANAL	BASE	69.50	4.000	99.000	0	1.010	0.000	2.2	0.0
25YR-72HR	CANAL	BASE	69.75	4.000	99.000	0	1.015	0.000	2.2	0.0
25YR-72HR	CANAL	BASE	70.00	4.000	99.000	0	1.018	0.000	2.2	0.0
25YR-72HR	CANAL	BASE	70.25	4.000	99.000	0	1.022	0.000	2.2	0.0
25YR-72HR	CANAL	BASE	70.50	4.000	99.000	0	1.025	0.000	2.3	0.0
25YR-72HR	CANAL	BASE	70.75	4.000	99.000	0	1.028	0.000	2.3	0.0
25YR-72HR	CANAL	BASE	71.00	4.000	99.000	0	1.030	0.000	2.3	0.0
25YR-72HR	CANAL	BASE	71.25	4.000	99.000	0	1.032	0.000	2.3	0.0
25YR-72HR	CANAL	BASE	71.50	4.000	99.000	0	1.033	0.000	2.3	0.0
25YR-72HR	CANAL	BASE	71.75	4.000	99.000	0	1.035	0.000	2.4	0.0
25YR-72HR	CANAL	BASE	72.00	4.000	99.000	0	1.036	0.000	2.4	0.0
25YR-72HR	CANAL	BASE	72.25	3.990	99.000	0	0.968	0.000	2.4	0.0
25YR-72HR	CANAL	BASE	72.50	3.979	99.000	0	0.779	0.000	2.4	0.0
25YR-72HR	CANAL	BASE	72.75	3.969	99.000	0	0.610	0.000	2.4	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	73.00	3.958	99.000	0	0.484	0.000	2.4	0.0
25YR-72HR	CANAL	BASE	73.25	3.948	99.000	0	0.389	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	73.50	3.937	99.000	0	0.317	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	73.75	3.927	99.000	0	0.262	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	74.00	3.917	99.000	0	0.219	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	74.25	3.906	99.000	0	0.185	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	74.50	3.896	99.000	0	0.157	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	74.75	3.885	99.000	0	0.135	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	75.00	3.875	99.000	0	0.117	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	75.25	3.865	99.000	0	0.102	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	75.50	3.854	99.000	0	0.089	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	75.75	3.844	99.000	0	0.078	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	76.00	3.833	99.000	0	0.069	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	76.25	3.823	99.000	0	0.062	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	76.50	3.812	99.000	0	0.055	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	76.75	3.802	99.000	0	0.049	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	77.00	3.792	99.000	0	0.044	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	77.25	3.781	99.000	0	0.040	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	77.50	3.771	99.000	0	0.036	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	77.75	3.760	99.000	0	0.033	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	78.00	3.750	99.000	0	0.030	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	78.25	3.740	99.000	0	0.028	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	78.50	3.729	99.000	0	0.025	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	78.75	3.719	99.000	0	0.023	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	79.00	3.708	99.000	0	0.021	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	79.25	3.698	99.000	0	0.020	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	79.50	3.687	99.000	0	0.018	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	79.75	3.677	99.000	0	0.017	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	80.00	3.667	99.000	0	0.016	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	80.25	3.656	99.000	0	0.015	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	80.50	3.646	99.000	0	0.014	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	80.75	3.635	99.000	0	0.013	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	81.00	3.625	99.000	0	0.012	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	81.25	3.615	99.000	0	0.011	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	81.50	3.604	99.000	0	0.010	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	81.75	3.594	99.000	0	0.010	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	82.00	3.583	99.000	0	0.009	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	82.25	3.573	99.000	0	0.009	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	82.50	3.562	99.000	0	0.008	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	82.75	3.552	99.000	0	0.008	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	83.00	3.542	99.000	0	0.007	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	83.25	3.531	99.000	0	0.007	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	83.50	3.521	99.000	0	0.007	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	83.75	3.510	99.000	0	0.006	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	84.00	3.500	99.000	0	0.006	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	84.25	3.490	99.000	0	0.006	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	84.50	3.479	99.000	0	0.005	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	84.75	3.469	99.000	0	0.005	0.000	2.5	0.0

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	85.00	3.458	99.000	0	0.005	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	85.25	3.448	99.000	0	0.005	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	85.50	3.437	99.000	0	0.004	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	85.75	3.427	99.000	0	0.004	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	86.00	3.417	99.000	0	0.004	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	86.25	3.406	99.000	0	0.004	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	86.50	3.396	99.000	0	0.004	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	86.75	3.385	99.000	0	0.003	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	87.00	3.375	99.000	0	0.003	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	87.25	3.365	99.000	0	0.003	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	87.50	3.354	99.000	0	0.003	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	87.75	3.344	99.000	0	0.003	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	88.00	3.333	99.000	0	0.003	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	88.25	3.323	99.000	0	0.003	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	88.50	3.312	99.000	0	0.003	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	88.75	3.302	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	89.00	3.292	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	89.25	3.281	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	89.50	3.271	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	89.75	3.260	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	90.00	3.250	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	90.25	3.240	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	90.50	3.229	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	90.75	3.219	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	91.00	3.208	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	91.25	3.198	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	91.50	3.187	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	91.75	3.177	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	92.00	3.167	99.000	0	0.002	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	92.25	3.156	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	92.50	3.146	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	92.75	3.135	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	93.00	3.125	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	93.25	3.115	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	93.50	3.104	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	93.75	3.094	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	94.00	3.083	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	94.25	3.073	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	94.50	3.062	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	94.75	3.052	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	95.00	3.042	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	95.25	3.031	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	95.50	3.021	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	95.75	3.010	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	96.00	3.000	99.000	0	0.001	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	96.00	3.000	99.000	0	0.001	0.000	2.5	0.0

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100-Year / 72-Hour Storm
SFWMD Distribution

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100YR-72HR	B-701	BASE	60.02	0.559	6.161	3130.9
100YR-72HR	B1-01	BASE	60.02	0.659	16.005	5228.8
100YR-72HR	B1-02	BASE	60.02	2.415	16.005	19172.1
100YR-72HR	B1-03	BASE	60.02	4.098	16.005	32534.5
100YR-72HR	B1-04	BASE	60.02	1.171	16.005	9295.6
100YR-72HR	B1-05	BASE	60.02	1.171	16.005	9295.6
100YR-72HR	B1-06	BASE	60.02	2.341	16.005	18591.1
100YR-72HR	B1-07	BASE	60.02	2.341	16.005	18591.1
100YR-72HR	B1-08	BASE	60.02	2.341	16.005	18591.1
100YR-72HR	B1-09	BASE	60.02	4.171	16.005	33115.4
100YR-72HR	B1-11	BASE	60.02	4.098	16.005	32534.5
100YR-72HR	B1-12	BASE	60.02	8.963	11.788	59048.6
100YR-72HR	B1-13	BASE	60.02	0.719	6.161	4025.4
100YR-72HR	B1-14	BASE	60.02	4.244	16.005	33696.4
100YR-72HR	B1-15	BASE	60.02	1.390	16.005	11038.5
100YR-72HR	B1-16	BASE	60.02	1.390	16.005	11038.5
100YR-72HR	B1-17	BASE	60.02	4.317	16.005	34277.4
100YR-72HR	B1-19	BASE	60.02	5.854	16.005	46477.8
100YR-72HR	B1-21	BASE	60.02	5.268	16.005	41830.0
100YR-72HR	D1	BASE	60.02	30.598	8.577	182437.8
100YR-72HR	D1-S28	BASE	60.02	1.683	16.005	13362.4
100YR-72HR	D1-S30	BASE	60.02	3.146	16.005	24981.8
100YR-72HR	D1-S32	BASE	60.02	1.463	16.005	11619.5
100YR-72HR	D1-S34	BASE	60.02	2.488	16.005	19753.1
100YR-72HR	D1-S37	BASE	60.02	0.805	16.005	6390.7
100YR-72HR	D1-S39	BASE	60.02	4.390	16.005	34858.4
100YR-72HR	D2	BASE	60.02	12.821	14.054	92338.6
100YR-72HR	E2	BASE	60.02	12.821	7.324	73912.4
100YR-72HR	E2-S29	BASE	60.02	4.829	16.005	38344.2
100YR-72HR	E2-S31	BASE	60.02	1.244	16.005	9876.5
100YR-72HR	E2-S33	BASE	60.02	1.537	16.005	12200.4
100YR-72HR	E2-S35	BASE	60.02	1.171	16.005	9295.6
100YR-72HR	E2-S36	BASE	60.02	2.341	16.005	18591.1
100YR-72HR	E2-S40	BASE	60.02	4.902	16.005	38925.2
100YR-72HR	E2-S41	BASE	60.02	4.171	16.005	33115.4
100YR-72HR	E2-S43	BASE	60.02	1.683	16.005	13362.4
100YR-72HR	E2-S68	BASE	60.02	2.561	16.005	20334.0
100YR-72HR	E2-SDE4	BASE	60.02	1.976	16.005	15686.3
100YR-72HR	E4	BASE	60.02	10.756	16.005	85403.0
100YR-72HR	OFF-701	BASE	60.02	1.412	10.770	8991.7
100YR-72HR	OFF-701B	BASE	60.02	1.366	10.954	8747.9
100YR-72HR	OFF-710A	BASE	60.02	12.443	13.109	86132.4
100YR-72HR	OFF-710B	BASE	60.02	1.202	12.384	8091.9
100YR-72HR	OFF-710C	BASE	60.02	0.470	12.531	3184.0
100YR-72HR	OFF-710D	BASE	60.02	3.134	12.871	21492.3
100YR-72HR	OFF-710E	BASE	60.02	5.032	13.184	34935.6
100YR-72HR	OFF-B1-12	BASE	60.02	9.675	13.467	67949.4
100YR-72HR	OFF-B1-13	BASE	60.02	1.018	10.369	6398.6
100YR-72HR	OFF-D	BASE	60.02	6.556	12.195	43826.1
100YR-72HR	OFF-E	BASE	60.02	5.881	11.276	38065.3

POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	100YR-72HR	60.50	4.000	99.000	0.0003	0	60.32	102.938	0.00	0.000
D-1	BASE	100YR-72HR	60.55	5.389	5.350	0.0002	145423	60.05	69.704	60.55	44.680
D-2	BASE	100YR-72HR	60.51	5.530	5.350	-0.0177	11785	60.08	30.658	60.43	29.100
E-2	BASE	100YR-72HR	60.19	5.493	9.770	-0.0080	61766	60.09	72.424	60.19	66.487
E-4	BASE	100YR-72HR	60.20	5.634	6.000	0.0084	39986	60.06	46.207	60.20	38.163
F-D	BASE	100YR-72HR	60.53	7.496	7.000	0.0002	58740	60.07	37.542	0.00	0.000
F-E	BASE	100YR-72HR	60.08	5.844	8.500	0.0001	9701	60.03	9.101	60.10	8.739
GW	BASE	100YR-72HR	72.00	4.000	99.000	0.0001	0	0.00	0.000	0.00	0.000
N-701	BASE	100YR-72HR	60.52	7.512	6.935	0.0002	16821	60.02	1.969	60.63	3.689
N-701B	BASE	100YR-72HR	60.52	7.511	7.077	0.0002	11423	60.12	12.345	60.50	31.031
N-710A	BASE	100YR-72HR	60.06	7.726	7.584	0.0002	11176	60.02	12.435	60.05	12.068
N-710B	BASE	100YR-72HR	60.10	6.864	6.988	0.0003	10459	60.05	13.244	60.11	12.822
N-710C	BASE	100YR-72HR	60.08	6.352	6.758	0.0004	1700	60.07	16.979	60.08	16.950
N-710D	BASE	100YR-72HR	60.08	6.352	7.289	0.0003	3019	60.03	3.684	60.11	3.586
N-710E	BASE	100YR-72HR	60.07	6.305	7.302	0.0002	3927	60.03	14.695	60.05	14.370
N-FD1	BASE	100YR-72HR	60.08	6.237	99.000	0.0012	127	59.80	10.795	59.81	10.749
N-FD2	BASE	100YR-72HR	60.52	7.772	99.000	0.0152	113	9.27	0.240	0.00	0.000
S-28	BASE	100YR-72HR	60.03	24.670	28.300	0.0006	235	60.02	1.682	60.02	1.677
S-29	BASE	100YR-72HR	60.02	26.245	28.000	0.0016	287	60.02	4.827	60.02	4.814
S-30	BASE	100YR-72HR	60.03	19.754	27.240	0.0011	275	60.02	4.821	60.03	4.809
S-31	BASE	100YR-72HR	60.04	21.052	28.290	-0.0011	117	60.02	1.243	60.09	1.384
S-32	BASE	100YR-72HR	60.03	19.489	23.780	0.0007	206	60.02	6.267	60.03	6.260
S-33	BASE	100YR-72HR	60.04	21.028	25.290	0.0006	339	60.02	7.572	60.04	7.551
S-34	BASE	100YR-72HR	60.04	14.927	22.010	0.0008	384	60.03	8.734	60.04	8.721
S-35	BASE	100YR-72HR	60.05	19.830	23.500	0.0007	193	60.03	8.711	60.05	8.697
S-36	BASE	100YR-72HR	60.03	18.587	21.430	0.0008	320	60.02	2.340	60.02	2.331
S-37	BASE	100YR-72HR	60.05	10.608	14.360	0.0006	380	60.04	9.519	60.05	9.504
S-39	BASE	100YR-72HR	60.04	8.105	12.910	0.0015	225	60.03	13.848	60.04	13.837
S-40	BASE	100YR-72HR	60.04	7.667	13.420	0.0015	349	60.09	14.861	60.04	14.756
S-41	BASE	100YR-72HR	60.06	8.025	10.810	-0.0028	149	60.09	7.785	60.09	8.202
S-43	BASE	100YR-72HR	60.07	8.057	10.300	-0.0011	176	60.09	3.852	60.09	4.024
S-68	BASE	100YR-72HR	60.03	5.946	9.110	0.0009	140	60.02	2.560	60.02	2.551
S1-01	BASE	100YR-72HR	60.08	8.976	9.510	-0.0061	113	60.02	0.658	29.47	2.918
S1-02	BASE	100YR-72HR	60.08	8.973	8.900	0.0051	1078	60.03	3.008	60.12	2.942
S1-04	BASE	100YR-72HR	60.07	8.801	10.350	0.0009	113	60.02	1.170	60.05	1.117
S1-05	BASE	100YR-72HR	60.07	8.791	10.190	0.0009	128	60.02	5.068	60.10	5.015
S1-07	BASE	100YR-72HR	60.07	8.239	14.460	0.0017	120	60.03	7.305	60.04	7.251
S1-08	BASE	100YR-72HR	60.07	8.114	14.540	0.0021	118	60.03	9.574	60.04	9.523
S1-09	BASE	100YR-72HR	60.08	7.768	13.720	-0.0020	119	60.03	13.664	60.03	13.626
S1-12	BASE	100YR-72HR	60.52	7.509	6.713	0.0012	17800	60.07	56.996	30.27	0.551
S1-13	BASE	100YR-72HR	60.52	7.511	6.856	0.0047	14506	60.15	21.011	30.23	0.538
S1-14	BASE	100YR-72HR	60.06	23.499	24.280	-0.0028	117	60.02	4.242	60.04	4.084
S1-15	BASE	100YR-72HR	60.07	23.253	25.290	-0.0027	284	60.04	16.456	60.07	16.308
S1-16	BASE	100YR-72HR	60.07	22.611	25.220	-0.0024	118	60.06	17.639	60.07	17.648
S1-17	BASE	100YR-72HR	60.06	21.396	24.390	0.0057	123	60.05	21.787	60.06	21.779
S1-19	BASE	100YR-72HR	60.04	28.600	30.890	0.0023	117	60.02	5.851	60.03	5.801
S1-20	BASE	100YR-72HR	60.04	28.080	33.070	0.0010	185	60.03	11.018	60.04	10.997
S1-21	BASE	100YR-72HR	60.04	28.541	30.650	0.0013	118	60.02	5.266	60.03	5.218

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SD-E4	BASE	100YR-72HR	60.02	9.170	9.400	0.0007	194	60.02	1.975	60.02	1.973
SD-S43	BASE	100YR-72HR	60.07	8.122	9.820	-0.0013	194	60.02	1.973	60.09	2.331

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
701_S1-13	BASE	100YR-72HR	60.63	3.689	-0.718	60.52	7.512	60.52	7.511
701B_S1-12	BASE	100YR-72HR	60.50	31.031	-1.313	60.52	7.511	60.52	7.509
D2D1	BASE	100YR-72HR	60.43	29.100	7.124	60.51	5.530	60.55	5.389
DISCH-D1	BASE	100YR-72HR	60.55	44.680	0.022	60.55	5.389	60.50	4.000
DISCH-E2	BASE	100YR-72HR	60.19	66.487	0.018	60.19	5.493	60.50	4.000
E4E2	BASE	100YR-72HR	60.20	38.163	12.633	60.20	5.634	60.19	5.493
FD_D2	BASE	100YR-72HR	60.53	24.402	0.005	60.53	7.496	60.51	5.530
OFF-E	BASE	100YR-72HR	60.08	26.227	0.010	60.08	5.844	60.20	5.634
R710A-710B	BASE	100YR-72HR	60.05	12.068	0.011	60.06	7.726	60.10	6.864
R710B-710C	BASE	100YR-72HR	60.11	12.822	-0.041	60.10	6.864	60.08	6.352
R710C-710D	BASE	100YR-72HR	60.14	0.650	0.228	60.08	6.352	60.08	6.352
R710D-710E	BASE	100YR-72HR	60.11	3.586	0.030	60.08	6.352	60.07	6.305
R710E-FE	BASE	100YR-72HR	60.07	3.330	0.001	60.07	6.305	60.07	5.933
RC1	BASE	100YR-72HR	0.00	0.000	0.000	0.00	0.000	0.00	0.000
RC2	BASE	100YR-72HR	0.00	0.000	0.000	0.00	0.000	0.00	0.000
S1-01_S1-02	BASE	100YR-72HR	29.47	2.918	-3.620	60.08	8.976	60.08	8.973
S1-02_S1-05	BASE	100YR-72HR	60.12	2.942	-0.691	60.08	8.973	60.07	8.791
S1-04_S1-05	BASE	100YR-72HR	60.05	1.117	-0.122	60.07	8.801	60.07	8.791
S1-05_S1-07	BASE	100YR-72HR	60.10	5.015	0.157	60.07	8.791	60.07	8.239
S1-07_S1-08	BASE	100YR-72HR	60.04	7.251	-0.257	60.07	8.239	60.07	8.114
S1-08_S1-09	BASE	100YR-72HR	60.04	9.523	1.254	60.07	8.114	60.08	7.768
S1-09_S1-12	BASE	100YR-72HR	60.03	13.626	-0.294	60.08	7.768	60.52	7.509
S1-12_FD	BASE	100YR-72HR	60.08	31.312	0.480	60.52	7.509	60.53	7.496
S1-12_FD2	BASE	100YR-72HR	30.27	0.275	-6.290	60.52	7.509	60.52	7.772
S1-13_701B	BASE	100YR-72HR	60.13	11.234	2.406	60.52	7.511	60.52	7.511
S1-13_FD2	BASE	100YR-72HR	30.27	0.186	-3.144	60.52	7.511	60.52	7.772
S1-14_S1-15	BASE	100YR-72HR	60.04	4.084	0.150	60.06	23.499	60.07	23.253
S1-15_S1-16	BASE	100YR-72HR	60.07	16.308	-0.030	60.07	23.253	60.07	22.611
S1-16_S1-17	BASE	100YR-72HR	60.07	17.648	-0.056	60.07	22.611	60.06	21.396
S1-17_S1-13	BASE	100YR-72HR	60.06	21.779	2.242	60.06	21.396	61.54	7.191
S1-19_S1-20	BASE	100YR-72HR	60.03	5.801	0.232	60.04	28.600	60.04	28.080
S1-20_S1-15	BASE	100YR-72HR	60.04	10.997	0.006	60.04	28.080	60.04	20.038
S1-21_S1-20	BASE	100YR-72HR	60.03	5.218	0.010	60.04	28.541	60.04	28.080
S28S30	BASE	100YR-72HR	60.02	1.677	-0.001	60.03	24.670	60.02	24.030
S29S33	BASE	100YR-72HR	60.02	4.814	0.003	60.02	26.245	60.02	19.864
S30S32	BASE	100YR-72HR	60.03	4.809	-0.237	60.03	19.754	60.32	18.969
S31S33	BASE	100YR-72HR	60.09	1.384	0.194	60.04	21.052	60.04	21.028
S32S34	BASE	100YR-72HR	60.03	6.260	0.004	60.03	19.489	60.03	13.995
S33S35	BASE	100YR-72HR	60.04	7.551	0.004	60.04	21.028	60.04	18.858
S34S37	BASE	100YR-72HR	60.04	8.721	0.005	60.04	14.927	60.04	9.667
S35E2	BASE	100YR-72HR	60.05	8.697	0.082	60.05	19.830	60.05	4.928
S36S40	BASE	100YR-72HR	60.02	2.331	-0.003	60.03	18.587	60.02	9.498
S37S39	BASE	100YR-72HR	60.05	9.504	0.006	60.05	10.608	60.05	6.643
S39D1	BASE	100YR-72HR	60.04	13.837	0.008	60.04	8.105	60.04	5.388
S40E2	BASE	100YR-72HR	60.04	14.756	-0.011	60.04	7.667	60.04	5.037
S41S40	BASE	100YR-72HR	60.09	8.202	-0.797	60.06	8.025	60.04	7.667
S43S41	BASE	100YR-72HR	60.09	4.024	0.130	60.07	8.057	60.06	8.025
S68E2	BASE	100YR-72HR	60.02	2.551	0.042	60.03	5.946	60.19	5.493

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POST DEVELOPMENT CONDITIONS
SYSTEM 700 SUB-BASIN 1
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
SDE4S43_1	BASE	100YR-72HR	60.02	1.973	-0.004	60.02	9.170	60.02	8.089
SDE4S43_2	BASE	100YR-72HR	0.00	0.000	0.000	60.07	8.122	60.07	8.057
SDS43S43	BASE	100YR-72HR	60.09	2.331	0.304	60.07	8.122	60.07	8.057
SFD1E4	BASE	100YR-72HR	59.81	10.749	-1.184	60.08	6.237	60.20	5.634
W710C-FD1	BASE	100YR-72HR	60.08	16.328	0.006	60.08	6.352	60.08	6.237
W710E-FD1	BASE	100YR-72HR	60.05	11.062	0.005	60.07	6.305	60.08	6.237
WFD_FD2	BASE	100YR-72HR	0.00	0.000	-1.926	60.53	7.496	60.52	7.772
WFE-FD1	BASE	100YR-72HR	0.00	0.000	-0.008	60.08	5.844	60.08	6.237

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Summary of ICPR Results Tabulation

System 700-Segment 1
Summary of Result Tabulation
Node Maximum Elevations

Node Name	Rainfall Depth and Distribution						Warning Stage	FDOT design 10yr-1hr to 10yr-24hr		FDOT Check 100yr-1hr to 100yr-24hr	
	FDOT										
	Design			Check							
	10Y-1H (ft)	10Y-8H (ft)	10Y-24H (ft)	100Y-1H (ft)	100Y-8H (ft)	100Y-24H (ft)		Water Elev.	Remarks	Water Elev.	Remarks
D-1	3.19	3.65	4.11	3.40	4.25	5.02	5.35	4.11	Ok	5.02	Ok
D-2	3.19	3.65	4.12	3.41	4.25	5.02	5.35	4.12	Ok	5.02	Ok
E-2	3.91	4.76	4.50	4.35	5.05	4.86	9.77	4.76	Ok	5.05	Ok
E-4	3.91	4.76	4.50	4.34	5.05	4.86	6.00	4.76	Ok	5.05	Ok
F-D	3.80	4.54	5.01	4.19	5.26	5.03	7.00	5.01	Ok	5.26	Ok
F-E	5.56	5.56	5.53	5.59	5.59	5.54	8.50	5.56	Ok	5.59	Ok
GW	3.00	4.00	4.00	3.00	4.00	4.00	99.00	4.00	Ok	4.00	Ok
N-701	6.40	6.42	6.39	6.45	6.47	6.42	6.94	6.42	Ok	6.47	Ok
N-701B	4.29	4.97	4.17	4.79	5.26	4.35	7.08	4.97	Ok	5.26	Ok
N-710A	7.50	7.49	7.28	7.63	7.61	7.40	7.58	7.50	Ok	7.63	Flooding*
N-710B	6.45	6.46	6.28	6.66	6.62	6.36	6.99	6.46	Ok	6.66	Ok
N-710C	5.85	5.84	5.71	6.00	5.96	5.77	6.76	5.85	Ok	6.00	Ok
N-710D	5.87	5.86	5.74	6.01	5.96	5.78	7.29	5.87	Ok	6.01	Ok
N-710E	5.97	5.92	5.85	6.04	5.98	5.88	7.30	5.97	Ok	6.04	Ok
N-FD1	3.70	4.72	4.48	4.10	5.12	4.79	99.00	4.72	Ok	5.12	Ok
N-FD2	3.77	4.95	4.16	4.74	5.25	4.35	99.00	4.95	Ok	5.25	Ok
S-28	23.85	24.39	24.22	24.55	24.49	24.27	28.30	24.39	Ok	24.55	Ok
S-29	25.96	25.68	25.37	26.27	25.86	25.46	28.00	25.96	Ok	26.27	Ok
S-30	19.26	19.19	18.88	19.50	19.37	18.97	27.24	19.26	Ok	19.50	Ok
S-31	19.83	20.19	19.79	20.71	20.45	19.91	28.29	20.19	Ok	20.71	Ok
S-32	18.79	18.78	18.42	19.18	19.00	18.53	23.78	18.79	Ok	19.18	Ok
S-33	20.00	20.19	19.78	20.70	20.45	19.90	25.29	20.19	Ok	20.70	Ok
S-34	14.28	14.24	13.86	14.70	14.47	13.98	22.01	14.28	Ok	14.70	Ok
S-35	18.54	18.84	18.39	19.41	19.13	18.52	23.50	18.84	Ok	19.41	Ok
S-36	18.37	18.25	18.04	18.59	18.36	18.11	21.43	18.37	Ok	18.59	Ok
S-37	9.91	9.87	9.47	10.37	10.11	9.60	14.36	9.91	Ok	10.37	Ok
S-39	7.18	7.09	6.59	7.83	7.42	6.75	12.91	7.18	Ok	7.83	Ok
S-40	6.96	6.61	6.07	7.61	6.94	6.24	13.42	6.96	Ok	7.61	Ok
S-41	7.14	6.81	6.45	7.90	7.12	6.56	10.81	7.14	Ok	7.90	Ok
S-43	7.18	6.87	6.55	7.93	7.16	6.64	10.30	7.18	Ok	7.93	Ok

System 700-Segment 1
Summary of Result Tabulation
Node Maximum Elevations

Node Name	Rainfall Depth and Distribution						Warning Stage	FDOT design 10yr-1hr to 10yr-24hr		FDOT Check 100yr-1hr to 100yr-24hr	
	FDOT										
	Design			Check							
	10Y-1H (ft)	10Y-8H (ft)	10Y-24H (ft)	100Y-1H (ft)	100Y-8H (ft)	100Y-24H (ft)		Water Elev.	Remarks	Water Elev.	Remarks
S-68	5.78	5.57	5.36	5.95	5.69	5.42	9.11	5.78	Ok	5.95	Ok
S1-01	6.83	6.23	5.74	7.74	6.57	5.89	9.51	6.83	Ok	7.74	Ok
S1-02	6.83	6.23	5.74	7.74	6.56	5.88	8.90	6.83	Ok	7.74	Ok
S1-04	6.73	6.20	5.74	7.53	6.51	5.87	10.35	6.73	Ok	7.53	Ok
S1-05	6.72	6.20	5.74	7.52	6.49	5.87	10.19	6.72	Ok	7.52	Ok
S1-07	6.49	6.07	5.64	6.88	6.33	5.77	14.46	6.49	Ok	6.88	Ok
S1-08	6.44	6.03	5.61	6.80	6.28	5.74	14.54	6.44	Ok	6.80	Ok
S1-09	5.99	5.39	4.78	6.51	5.71	4.96	13.72	5.99	Ok	6.51	Ok
S1-12	4.28	4.97	4.17	4.79	5.26	4.35	6.71	4.97	Ok	5.26	Ok
S1-13	4.37	4.97	4.17	4.81	5.26	4.35	6.86	4.97	Ok	5.26	Ok
S1-14	21.39	20.56	19.91	23.67	21.04	20.10	24.28	21.39	Ok	23.67	Ok
S1-15	21.26	20.54	19.90	23.42	20.95	20.09	25.29	21.26	Ok	23.42	Ok
S1-16	21.13	20.45	19.85	22.75	20.84	20.03	25.22	21.13	Ok	22.75	Ok
S1-17	20.46	19.63	18.93	21.48	20.11	19.14	24.39	20.46	Ok	21.48	Ok
S1-19	27.56	26.73	26.20	28.72	27.13	26.35	30.89	27.56	Ok	28.72	Ok
S1-20	27.30	26.66	26.13	28.17	27.02	26.29	33.07	27.30	Ok	28.17	Ok
S1-21	27.53	26.73	26.18	28.66	27.12	26.34	30.65	27.53	Ok	28.66	Ok
SD-E4	9.08	8.95	8.82	9.18	9.03	8.86	9.40	9.08	Ok	9.18	Ok
SD-S43	7.24	7.03	6.84	7.97	7.22	6.90	9.82	7.24	Ok	7.97	Ok

*This structure that is showing flooding the stage is below pre-development conditions.

Offsite Impacts Analysis

OFFSITE PRE VS. POST DEVELOPMENT NODAL STAGE COMPARISON

EXISTING PERIMETER NODE	CORRESPONDING PROPOSED PERIMETER NODE	MAXIMUM NODE STAGES															
		10 YEAR - 1 HOUR		10 YEAR - 8 HOUR		10 YEAR - 24 HOUR		25 YEAR - 72 HOUR		100 YEAR - 1 HOUR		100 YEAR - 8 HOUR		100 YEAR - 24 HOUR		100 YEAR - 72 HOUR	
		PRE	POST	PRE	POST	PRE	POST	PRE	POST	PRE	POST	PRE	POST	PRE	POST	PRE	POST
N-701	N-701	6.716	6.401	6.647	6.421	6.518	6.393	6.799	6.530	6.785	6.448	6.724	6.467	6.580	6.393	7.142	**7.512***
N-701A	S1-13	5.208	4.365	5.155	4.970	5.079	4.167	5.559	**5.927***	5.287	4.811	5.225	**5.264***	5.112	4.167	7.136	**7.511***
N-701B	N-701B	5.015	4.290	5.150	4.968	5.076	4.166	5.556	**5.924***	5.225	4.790	5.217	**5.263***	5.108	4.166	7.136	**7.511***
N-701C	S1-12	5.123	4.276	5.140	4.967	5.071	4.166	5.553	**5.925***	5.205	4.786	5.204	**5.263***	5.101	4.166	7.134	**7.509***
F-D	F-D	3.726	**3.801***	4.588	4.539	5.028	5.008	5.546	**5.923***	4.192	4.191	5.051	**5.262***	5.061	5.008	7.119	**7.496***
N-710A	N-710A	7.551	7.495	7.500	7.491	7.311	7.278	7.798	7.686	7.712	7.630	7.640	7.606	7.408	7.278	7.844	7.726
N-710B	N-710B	6.514	6.447	6.459	6.457	6.238	**6.280***	6.841	6.790	6.761	6.657	6.661	6.621	6.334	6.280	6.941	6.864
N-710C	N-710C	5.884	5.853	5.868	5.842	5.728	5.711	6.215	6.085	6.015	5.998	5.986	5.955	5.797	5.711	6.509	6.352
N-710D	N-710D	5.884	5.870	5.870	5.856	5.736	5.736	6.212	6.086	6.014	6.007	5.984	5.963	5.803	5.736	6.506	6.352
F-E	F-E	5.575	5.559	5.566	5.556	5.532	5.528	5.697	5.628	5.614	5.594	5.596	5.586	5.546	5.528	5.928	5.844

*These elevations are still, however contained below the lowest adjacent edge of pavement elevation during the 10-year design storm events.

APPENDIX G
SPREAD CALCULATIONS

FLORIDA DEPARTMENT OF TRANSPORTATION
SPREAD TABULATION FORM

Financial Project Identification: 249581-1-52-01
Description: Segment 1

County: Miami-Dade
Organization:

Rainfall Zone: Zone 10
State Road: SR-826/SR-836

Prepared By: L.F.
Checked By: A.A.

Date: 12/13/2010
Date: 12/13/2010

Structure No.	Station	Type of Structure	Drainage Area (acres)	Composite Runoff Coefficient	Rainfall Intensity (in/hr)	Overland Runoff (cfs)	Previous Inlet Bypass (cfs)	Total Runoff (cfs)	Cross Slope (ft/ft)	Longitudinal Slope (%)	Manning's n	Calculated Spread (ft)	Allowable Spread (ft)	Sumped Spread (ft)	Intercepted Flow (cfs)	Bypass Flow to Next Inlet (cfs)	Bypass to Structure No.
S1-04	3002+80.00	BWI	0.16	0.95	4.00	0.61	0.00	0.61	0.060	1.5967	0.016	2.76	10.50	N/A	0.61	0.00	S1-01
S1-05	2002+80.00	BWI	0.16	0.95	4.00	0.61	0.00	0.61	0.060	1.5103	0.016	2.79	10.50	N/A	0.61	0.00	S1-02
S1-06	2002+99.36	BWI	0.32	0.95	4.00	1.22	0.00	1.22	0.060	1.6510	0.016	3.56	10.00	N/A	1.22	0.00	S1-03
S1-07	2004+80.00	BWI	0.32	0.95	4.00	1.22	0.00	1.22	0.060	2.8387	0.016	3.22	10.50	N/A	1.22	0.00	S1-05
S1-08	3004+80.00	BWI	0.32	0.95	4.00	1.22	0.00	1.22	0.060	2.9318	0.016	3.20	10.50	N/A	1.22	0.00	S1-04
S1-09	3004+80.00	BWI	0.57	0.95	4.00	2.17	0.00	2.17	0.060	2.9317	0.016	3.97	10.00	N/A	2.17	0.00	
S1-11	2004+99.50	BWI	0.56	0.95	4.00	2.13	0.00	2.13	0.060	3.0000	0.016	3.93	10.00	N/A	2.13	0.00	S1-06
S1-14	2008+40.00	BWI	0.58	0.95	4.00	2.26	0.06	2.31	0.060	2.6270	0.016	4.12	10.00	N/A	2.26	0.00	S1-11
S1-15	2008+40.00	BWI	0.19	0.95	4.00	0.72	0.00	0.72	0.060	2.6270	0.016	2.68	10.50	N/A	0.72	0.00	S1-07
S1-16	3008+40.00	BWI	0.19	0.95	4.00	0.72	0.00	0.72	0.060	2.6223	0.016	2.69	10.50	N/A	0.72	0.00	S1-08
S1-17	3008+40.00	BWI	0.59	0.95	4.00	2.28	0.04	2.32	0.060	2.6223	0.016	4.13	10.00	N/A	2.27	0.00	S1-09
S1-19	2011+40.60	BWI	0.80	0.95	4.00	3.04	0.00	3.04	0.060	1.7500	0.016	4.96	10.00	N/A	3.00	0.04	S1-14
S1-21	3011+41.63	BWI	0.72	0.95	4.00	2.74	0.00	2.74	0.060	1.3500	0.016	5.01	10.00	N/A	2.70	0.04	S1-17

Remarks:
HEC-12 is used for spread and bypass computations
All other computations done using GEOPAK Drainage

SPREAD CALCULATIONS

Based on procedure outlined in Storm Drain Handbook - January 2008

Project Name: SR-826/SR-836 (Segment 1)
County: Miami-Dade
Financial Project ID: 249581-1-52-01

Prepared by: L.F
Checked by: A.A

Date: 12/14/2010

Manning's Roughness Coeficient (n) = **0.016**

Intensity (in/hr) = **4.00**

GRADE INLETS ON SAG

Structure Number	Inlet Type	Station	Gutter Width (W) (ft)	Grate Length (ft)	Grate Area (ft^2)	Grate Perimeter (ft)	Cross Slope (S_x) (ft/ft)	Longitudinal Slope Right (S_L) (ft/ft)	Longitudinal Slope Left (S_L) (ft/ft)	Contributing Area Right (ac)	Contributing Area Left (ac)	Runoff Coefficient Right (C_W)	Runoff Coefficient Left (C_W)	Flow Q (Right) (cfs)	Flow Q (Left) (cfs)	Bypass Flow from Previous Inlet Right (cfs)	Bypass Flow from Previous Inlet Left (cfs)	Total flow (cfs)	**Spread "T" Right (ft)**	**Spread "T" Left (ft)**	Depth of Flow Right (d) (ft)	Depth of Flow (d) Left (ft)	Head at Grate (h) (ft)	Spread at Grate (T) (ft)	Allowable Spread (ft)	Remarks
S1-01	BWI	3000+61.38	10.00	4.25	15.60	15.80	0.06	0.005	0.029	0.0090	0.0810	0.95	0.95	0.03	0.73	0.00	0.00	0.76	**1.19**	**2.64**	0.07	0.16	0.10	**1.66**	10.50	OK
S1-02	BWI	2000+72.16	10.00	4.25	15.60	15.80	0.06	0.030	0.005	0.2310	0.0990	0.95	0.95	0.88	0.38	0.00	0.00	1.25	**2.82**	**2.89**	0.17	0.17	0.14	**2.30**	10.50	OK
S1-03	BWI	2001+40.00	10.00	4.25	15.60	15.80	0.06	0.030	0.005	0.2800	0.2800	0.95	0.95	1.06	1.06	0.00	0.00	2.13	**3.03**	**4.26**	0.18	0.26	0.20	**3.28**	10.00	OK

APPENDIX H
PRE-DEVELOPMENT CONDITIONS
(ICPR MODELING RESULTS)
SYSTEM 700

DRAINAGE SYSTEM 700
PRE-DEVELOPMENT CONDITIONS

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ICPR Modeling Results

10-Year / 1-Hour Storm
FDOT Distribution

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
10YR-1HR	B-701	BASE	0.84	0.216	0.166	349.2
10YR-1HR	B-701A	BASE	0.84	0.169	0.149	270.2
10YR-1HR	B-701B	BASE	0.76	0.451	0.730	847.4
10YR-1HR	B-701C	BASE	0.71	7.799	1.397	15469.5
10YR-1HR	B-702	BASE	0.64	1.896	3.044	4088.8
10YR-1HR	B-703	BASE	0.64	1.588	3.044	3425.7
10YR-1HR	B-704	BASE	0.64	2.562	3.044	5525.4
10YR-1HR	B-705	BASE	0.64	2.357	3.044	5083.3
10YR-1HR	B-706	BASE	0.64	2.408	3.044	5193.8
10YR-1HR	B-707	BASE	0.64	2.254	3.044	4862.3
10YR-1HR	B-710A	BASE	0.76	3.494	0.800	6621.6
10YR-1HR	B-710B	BASE	0.76	0.326	0.733	612.2
10YR-1HR	B-710C	BASE	0.76	0.117	0.758	220.1
10YR-1HR	B-710D	BASE	0.76	0.646	0.679	1207.3
10YR-1HR	B-710E	BASE	0.73	1.461	0.983	2818.0
10YR-1HR	B-711	BASE	0.64	0.615	3.044	1326.1
10YR-1HR	B-712	BASE	0.64	2.459	3.044	5304.4
10YR-1HR	B-713	BASE	0.64	4.868	3.044	10498.2
10YR-1HR	B-714	BASE	0.64	0.615	3.044	1326.1
10YR-1HR	D1	BASE	0.82	2.522	0.195	4154.9
10YR-1HR	D1-S28	BASE	0.64	1.178	3.044	2541.7
10YR-1HR	D1-S30	BASE	0.64	2.203	3.044	4751.8
10YR-1HR	D1-S32	BASE	0.64	1.025	3.044	2210.1
10YR-1HR	D1-S34	BASE	0.64	1.742	3.044	3757.2
10YR-1HR	D1-S37	BASE	0.64	0.564	3.044	1215.6
10YR-1HR	D1-S39	BASE	0.64	3.074	3.044	6630.4
10YR-1HR	D2	BASE	0.69	5.697	1.746	11468.5
10YR-1HR	E2	BASE	0.84	0.468	0.069	693.5
10YR-1HR	E2-S29	BASE	0.64	3.382	3.044	7293.5
10YR-1HR	E2-S31	BASE	0.64	0.871	3.044	1878.6
10YR-1HR	E2-S33	BASE	0.64	1.076	3.044	2320.7
10YR-1HR	E2-S35	BASE	0.64	0.820	3.044	1768.1
10YR-1HR	E2-S36	BASE	0.64	1.640	3.044	3536.2
10YR-1HR	E2-S40	BASE	0.64	3.433	3.044	7404.0
10YR-1HR	E2-S41	BASE	0.64	2.921	3.044	6298.9
10YR-1HR	E2-S43	BASE	0.64	1.178	3.044	2541.7
10YR-1HR	E2-S68	BASE	0.64	1.793	3.044	3867.8
10YR-1HR	E2-SDE4	BASE	0.64	1.383	3.044	2983.7
10YR-1HR	E4	BASE	0.64	7.532	3.044	16244.6
10YR-1HR	OFF-D	BASE	0.73	1.810	0.971	3488.7
10YR-1HR	OFF-E	BASE	0.69	2.588	1.430	5139.1

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	10YR-1HR	0.00	3.000	99.000	0.0000	0	0.00	0.000	0.00	0.000
D-1	BASE	10YR-1HR	25.00	3.191	5.350	0.0001	135105	0.93	15.202	0.00	0.000
D-2	BASE	10YR-1HR	25.00	3.189	5.350	-0.0093	223	0.68	5.695	0.93	7.782
E-2	BASE	10YR-1HR	1.21	3.966	9.770	-0.0094	53593	0.11	15.999	0.00	0.000
E-4	BASE	10YR-1HR	1.21	3.964	6.000	0.0098	17872	0.67	9.199	0.11	15.999
F-D	BASE	10YR-1HR	25.00	3.726	7.000	0.0002	5583	0.73	2.490	0.00	0.000
F-E	BASE	10YR-1HR	0.73	5.575	8.500	-0.0001	3493	0.70	2.701	0.73	2.694
GROUND	BASE	10YR-1HR	0.00	3.000	99.000	0.0000	0	0.85	26.879	0.00	0.000
N-701	BASE	10YR-1HR	0.75	6.716	6.935	0.0002	8291	0.67	4.550	0.75	4.223
N-701A	BASE	10YR-1HR	0.75	5.208	6.856	-0.0001	5129	0.72	6.585	0.75	6.539
N-701B	BASE	10YR-1HR	1.47	5.015	7.077	0.0007	3481	0.72	1.700	1.48	0.073
N-701C	BASE	10YR-1HR	0.72	5.123	6.713	0.0062	6553	0.68	6.044	0.72	6.001
N-710A	BASE	10YR-1HR	0.83	7.551	7.584	0.0002	14818	0.67	9.425	0.83	8.059
N-710B	BASE	10YR-1HR	0.93	6.514	6.988	0.0004	8599	0.82	8.859	0.93	8.047
N-710C	BASE	10YR-1HR	0.92	5.884	6.758	0.0002	982	0.92	8.130	0.93	8.136
N-710D	BASE	10YR-1HR	0.92	5.884	7.289	0.0002	1866	0.90	0.349	0.95	0.362
N-710E	BASE	10YR-1HR	0.89	5.876	7.302	-0.0001	3147	0.86	1.501	0.89	1.464
N-FD1	BASE	10YR-1HR	0.92	3.814	99.000	-0.0008	856	0.83	14.678	0.84	14.524
N-FD2	BASE	10YR-1HR	0.75	3.267	99.000	0.0002	2080	0.74	11.165	0.75	11.148
S-28	BASE	10YR-1HR	1.33	23.854	28.300	0.0054	119	0.65	1.177	0.00	0.000
S-29	BASE	10YR-1HR	0.71	25.964	28.000	0.0142	318	0.65	3.377	0.71	3.221
S-30	BASE	10YR-1HR	0.70	19.262	27.240	0.0091	171	0.65	2.200	0.70	2.121
S-31	BASE	10YR-1HR	1.21	19.826	28.290	0.0054	184	0.65	0.870	1.24	0.165
S-32	BASE	10YR-1HR	0.86	18.789	23.780	0.0079	286	0.70	3.110	0.86	2.334
S-33	BASE	10YR-1HR	0.93	20.000	25.290	0.0066	468	0.71	4.248	0.93	1.840
S-34	BASE	10YR-1HR	0.88	14.279	22.010	0.0069	414	0.86	3.591	0.88	3.469
S-35	BASE	10YR-1HR	1.04	18.536	23.500	0.0093	237	0.93	2.301	1.04	1.688
S-36	BASE	10YR-1HR	0.80	18.374	21.430	0.0066	312	0.65	1.637	0.80	1.347
S-37	BASE	10YR-1HR	0.90	9.914	14.360	0.0038	379	0.88	3.851	0.90	3.774
S-39	BASE	10YR-1HR	0.90	7.180	12.910	0.0056	273	0.89	5.775	0.90	5.741
S-40	BASE	10YR-1HR	0.82	6.957	13.420	0.0049	647	0.79	8.550	0.82	8.462
S-41	BASE	10YR-1HR	0.82	7.139	10.810	0.0058	506	0.76	4.530	0.82	4.386
S-43	BASE	10YR-1HR	0.82	7.177	10.300	0.0036	336	0.76	2.152	0.83	2.063
S-68	BASE	10YR-1HR	0.65	5.778	9.110	0.0037	144	0.65	1.791	0.65	1.789
SD-E4	BASE	10YR-1HR	0.65	9.078	9.400	0.0053	186	0.65	1.381	0.65	1.380
SD-S43	BASE	10YR-1HR	0.82	7.236	9.820	0.0034	285	0.65	1.380	0.81	1.124

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
D2D1	BASE	10YR-1HR	0.93	7.782	5.781	25.00	3.189	25.00	3.191
DISCH-D1	BASE	10YR-1HR	0.00	0.000	0.000	25.00	3.191	0.00	3.000
DISCH-E2	BASE	10YR-1HR	0.00	0.000	0.000	1.21	3.966	0.00	3.000
E4E2	BASE	10YR-1HR	0.11	15.999	13.536	1.21	3.964	1.21	3.966
OFF-D	BASE	10YR-1HR	0.00	0.000	0.000	25.00	3.726	25.00	3.189
OFF-E	BASE	10YR-1HR	0.73	2.694	-0.004	0.73	5.575	1.21	3.964
R701-701A	BASE	10YR-1HR	0.75	4.223	0.002	0.75	6.716	0.75	5.235
R701A-701B	BASE	10YR-1HR	0.75	0.682	0.001	0.75	5.208	0.75	5.029
R701B-701C	BASE	10YR-1HR	1.48	0.073	0.092	0.72	5.055	0.72	5.123
R701C-FD	BASE	10YR-1HR	0.72	0.680	-0.001	0.72	5.123	0.72	5.044
R710A-710B	BASE	10YR-1HR	0.83	8.059	-0.031	0.83	7.551	0.93	6.514
R710B-710C	BASE	10YR-1HR	0.93	8.047	-0.009	0.93	6.514	0.92	5.884
R710C-710D	BASE	10YR-1HR	0.47	0.009	0.002	0.92	5.884	0.92	5.884
R710D-710E	BASE	10YR-1HR	0.95	0.362	-0.030	0.92	5.884	0.89	5.876
R710E-FE	BASE	10YR-1HR	0.89	0.180	-0.000	0.89	5.876	0.89	5.819
RC1	BASE	10YR-1HR	0.92	16.864	0.186	0.92	3.814	0.00	3.000
RC2	BASE	10YR-1HR	0.75	11.148	0.417	0.75	3.267	0.00	3.000
S28S30	BASE	10YR-1HR	0.00	0.000	0.000	1.33	23.854	0.70	19.262
S29S33	BASE	10YR-1HR	0.71	3.221	0.015	0.71	25.964	0.71	19.756
S30S32	BASE	10YR-1HR	0.70	2.121	0.015	0.70	19.262	0.86	18.789
S31S33	BASE	10YR-1HR	1.24	0.165	0.031	0.93	19.829	0.93	20.000
S32S34	BASE	10YR-1HR	0.86	2.334	0.012	0.86	18.789	0.72	13.981
S33S35	BASE	10YR-1HR	0.93	1.840	0.013	0.93	20.000	0.93	18.395
S34S37	BASE	10YR-1HR	0.88	3.469	0.008	0.88	14.279	0.88	9.417
S35E2	BASE	10YR-1HR	1.04	1.688	0.083	1.04	18.536	1.04	4.691
S36S40	BASE	10YR-1HR	0.80	1.347	0.005	0.80	18.374	0.80	9.416
S37S39	BASE	10YR-1HR	0.90	3.774	0.008	0.90	9.914	0.66	6.822
S39D1	BASE	10YR-1HR	0.90	5.741	0.007	0.90	7.180	0.90	5.056
S40E2	BASE	10YR-1HR	0.82	8.462	0.008	0.82	6.957	0.82	4.757
S41S40	BASE	10YR-1HR	0.82	4.386	0.007	0.82	7.139	0.82	6.957
S43S41	BASE	10YR-1HR	0.83	2.063	0.121	0.82	7.177	0.82	7.139
S68E2	BASE	10YR-1HR	0.65	1.789	0.005	0.65	5.778	0.65	4.318
SDE4S43_1	BASE	10YR-1HR	0.65	1.380	0.009	0.65	9.078	0.65	8.030
SDE4S43_2	BASE	10YR-1HR	0.00	0.000	0.000	0.82	7.236	0.82	7.177
SDS43S43	BASE	10YR-1HR	0.81	1.124	0.107	0.82	7.236	0.82	7.177
SFD1E4	BASE	10YR-1HR	25.00	1.597	-1.268	0.92	3.814	1.21	3.964
W701A-FD2	BASE	10YR-1HR	0.75	5.857	-0.003	0.75	5.208	0.75	3.267
W701C-FD2	BASE	10YR-1HR	0.72	5.321	0.008	0.72	5.123	0.75	3.267
W710C-FD1	BASE	10YR-1HR	0.92	8.261	0.005	0.92	5.884	0.92	3.814
W710E-FD1	BASE	10YR-1HR	0.89	1.284	-0.001	0.89	5.876	0.92	3.814
WFD-FD2	BASE	10YR-1HR	0.00	0.000	0.000	25.00	3.726	0.75	3.267
WFE-FD1	BASE	10YR-1HR	0.00	0.000	0.000	0.73	5.575	0.92	3.814

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
MASS BALANCE REPORT

Simulation	Time hrs	Inflow Volume ft3	Outflow Volume ft3	Change in Sys Storage ft3	Difference ft3	Error %
10YR-1HR	0.00	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.02	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.03	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.05	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.07	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.08	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.10	0.0	0.0	0.0	0.0	0.00
10YR-1HR	0.12	0.4	0.0	0.4	-0.0	-0.00
10YR-1HR	0.13	2.0	0.0	2.0	-0.0	-0.00
10YR-1HR	0.15	7.5	0.0	7.5	-0.0	-0.00
10YR-1HR	0.17	21.3	0.0	21.3	0.0	0.00
10YR-1HR	0.18	48.5	0.0	48.5	-0.0	-0.00
10YR-1HR	0.20	95.6	10.4	85.1	-0.0	-0.00
10YR-1HR	0.22	174.9	23.6	151.2	-0.0	-0.00
10YR-1HR	0.23	303.8	40.7	263.0	0.0	0.00
10YR-1HR	0.25	488.7	65.9	422.8	0.0	0.00
10YR-1HR	0.27	750.4	102.0	648.4	-0.0	-0.00
10YR-1HR	0.28	1107.2	149.9	957.3	-0.0	-0.00
10YR-1HR	0.30	1579.1	215.3	1363.8	-0.0	-0.00
10YR-1HR	0.32	2180.9	310.1	1870.7	-0.0	-0.00
10YR-1HR	0.33	2929.0	420.2	2508.8	-0.0	-0.00
10YR-1HR	0.35	3847.9	552.4	3295.5	-0.0	-0.00
10YR-1HR	0.37	4967.8	711.5	4256.4	-0.0	-0.00
10YR-1HR	0.38	6315.9	901.4	5414.5	-0.0	-0.00
10YR-1HR	0.40	7916.3	1125.9	6790.4	-0.0	-0.00
10YR-1HR	0.42	9787.2	1389.8	8397.5	-0.0	-0.00
10YR-1HR	0.43	11936.5	1698.5	10238.0	-0.0	-0.00
10YR-1HR	0.45	14365.8	2058.5	12307.4	-0.0	-0.00
10YR-1HR	0.47	17075.6	2482.6	14593.1	-0.0	-0.00
10YR-1HR	0.48	20063.4	2981.6	17081.8	-0.0	-0.00
10YR-1HR	0.50	23322.2	3561.0	19761.2	-0.0	-0.00
10YR-1HR	0.52	26841.0	4222.2	22618.7	-0.0	-0.00
10YR-1HR	0.53	30606.0	4964.1	25641.9	-0.0	-0.00
10YR-1HR	0.55	34597.1	5784.3	28812.8	-0.0	-0.00
10YR-1HR	0.57	38791.7	6680.2	32111.5	-0.0	-0.00
10YR-1HR	0.58	43170.7	7648.6	35522.1	-0.0	-0.00
10YR-1HR	0.60	47716.9	8686.6	39030.3	-0.0	-0.00
10YR-1HR	0.62	52404.3	9792.5	42611.8	-0.0	-0.00
10YR-1HR	0.63	57203.8	10966.7	46237.1	-0.0	-0.00
10YR-1HR	0.65	62090.5	12205.8	49884.7	-0.0	-0.00
10YR-1HR	0.67	67034.0	13506.3	53527.7	-0.0	-0.00
10YR-1HR	0.68	71988.4	14862.4	57126.0	-0.0	-0.00
10YR-1HR	0.70	76916.0	16267.3	60648.7	-0.0	-0.00
10YR-1HR	0.72	81801.5	17714.4	64087.2	-0.0	-0.00
10YR-1HR	0.73	86633.0	19198.1	67434.9	-0.0	-0.00
10YR-1HR	0.75	91397.0	20713.4	70683.6	-0.0	-0.00
10YR-1HR	0.77	96078.5	22256.0	73822.5	-0.0	-0.00
10YR-1HR	0.78	100665.0	23821.6	76843.4	-0.0	-0.00
10YR-1HR	0.80	105147.2	25405.9	79741.3	-0.0	-0.00
10YR-1HR	0.82	109513.9	27004.4	82509.6	-0.0	-0.00
10YR-1HR	0.83	113752.9	28612.2	85140.8	-0.0	-0.00
10YR-1HR	0.85	117851.1	30224.3	87626.8	-0.0	-0.00
10YR-1HR	0.87	121789.2	31835.8	89953.5	-0.0	-0.00
10YR-1HR	0.88	125542.3	33443.4	92098.9	-0.0	-0.00
10YR-1HR	0.90	129087.7	35039.7	94048.0	-0.0	-0.00
10YR-1HR	0.92	132423.0	36617.3	95805.7	-0.0	-0.00
10YR-1HR	0.93	135547.0	38167.5	97379.4	-0.0	-0.00
10YR-1HR	0.95	138480.1	39691.4	98788.8	-0.0	-0.00
10YR-1HR	0.97	141234.6	41186.8	100047.8	0.0	0.00
10YR-1HR	0.98	143820.5	42652.5	101168.0	0.0	0.00
10YR-1HR	1.00	146239.3	44082.4	102157.0	0.0	0.00
10YR-1HR	1.25	168953.9	62037.8	106916.1	0.0	0.00
10YR-1HR	1.50	172511.3	73764.8	98746.5	0.0	0.00
10YR-1HR	1.75	172511.3	82077.4	90434.0	0.0	0.00
10YR-1HR	2.00	172511.3	89114.4	83397.0	0.0	0.00
10YR-1HR	2.25	172511.3	95181.7	77329.6	0.0	0.00
10YR-1HR	2.50	172511.3	100285.4	72225.9	0.0	0.00
10YR-1HR	2.75	172511.3	104300.6	68210.7	0.0	0.00
10YR-1HR	3.00	172511.3	106949.8	65561.5	0.0	0.00
10YR-1HR	3.25	172511.3	107646.2	64865.2	0.0	0.00
10YR-1HR	3.50	172511.3	107674.9	64836.4	0.0	0.00
10YR-1HR	3.75	172511.3	107692.7	64818.6	0.0	0.00
10YR-1HR	4.00	172511.3	107704.8	64806.5	0.0	0.00
10YR-1HR	4.25	172511.3	107713.5	64797.8	0.0	0.00
10YR-1HR	4.50	172511.3	107720.0	64791.3	0.0	0.00
10YR-1HR	4.75	172511.3	107724.7	64786.6	0.0	0.00
10YR-1HR	5.00	172511.3	107728.3	64783.0	-0.0	-0.00
10YR-1HR	5.25	172511.3	107731.1	64780.3	0.0	0.00
10YR-1HR	5.50	172511.3	107733.1	64778.3	0.0	0.00
10YR-1HR	5.75	172511.3	107734.4	64776.9	-0.0	-0.00
10YR-1HR	6.00	172511.3	107735.5	64775.8	-0.0	-0.00

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
MASS BALANCE REPORT

Simulation	Time hrs	Inflow Volume ft3	Outflow Volume ft3	Change in Sys Storage ft3	Difference ft3	Error %
10YR-1HR	6.25	172511.3	107736.5	64774.9	-0.0	-0.00
10YR-1HR	6.50	172511.3	107737.2	64774.1	-0.0	-0.00
10YR-1HR	6.75	172511.3	107737.9	64773.5	-0.0	-0.00
10YR-1HR	7.00	172511.3	107738.4	64773.0	-0.0	-0.00
10YR-1HR	7.25	172511.3	107738.8	64772.5	0.0	0.00
10YR-1HR	7.50	172511.3	107739.2	64772.1	0.0	0.00
10YR-1HR	7.75	172511.3	107739.7	64771.6	0.0	0.00
10YR-1HR	8.00	172511.3	107740.1	64771.2	0.0	0.00
10YR-1HR	8.25	172511.3	107740.6	64770.7	0.0	0.00
10YR-1HR	8.50	172511.3	107741.0	64770.3	0.0	0.00
10YR-1HR	8.75	172511.3	107741.5	64769.9	0.0	0.00
10YR-1HR	9.00	172511.3	107741.9	64769.4	0.0	0.00
10YR-1HR	9.25	172511.3	107742.4	64769.0	0.0	0.00
10YR-1HR	9.50	172511.3	107742.8	64768.5	0.0	0.00
10YR-1HR	9.75	172511.3	107743.2	64768.1	0.0	0.00
10YR-1HR	10.00	172511.3	107743.7	64767.6	0.0	0.00
10YR-1HR	10.25	172511.3	107744.1	64767.2	0.0	0.00
10YR-1HR	10.50	172511.3	107744.6	64766.8	0.0	0.00
10YR-1HR	10.75	172511.3	107745.0	64766.3	0.0	0.00
10YR-1HR	11.00	172511.3	107745.5	64765.9	0.0	0.00
10YR-1HR	11.25	172511.3	107745.9	64765.4	0.0	0.00
10YR-1HR	11.50	172511.3	107746.3	64765.0	0.0	0.00
10YR-1HR	11.75	172511.3	107746.8	64764.5	0.0	0.00
10YR-1HR	12.00	172511.3	107747.2	64764.1	0.0	0.00
10YR-1HR	12.25	172511.3	107747.7	64763.7	0.0	0.00
10YR-1HR	12.50	172511.3	107748.1	64763.2	0.0	0.00
10YR-1HR	12.75	172511.3	107748.6	64762.8	-0.0	-0.00
10YR-1HR	13.00	172511.3	107749.0	64762.3	-0.0	-0.00
10YR-1HR	13.25	172511.3	107749.4	64761.9	-0.0	-0.00
10YR-1HR	13.50	172511.3	107749.9	64761.4	-0.0	-0.00
10YR-1HR	13.75	172511.3	107750.3	64761.0	-0.0	-0.00
10YR-1HR	14.00	172511.3	107750.8	64760.6	-0.0	-0.00
10YR-1HR	14.25	172511.3	107751.2	64760.1	-0.0	-0.00
10YR-1HR	14.50	172511.3	107751.7	64759.7	-0.0	-0.00
10YR-1HR	14.75	172511.3	107752.1	64759.2	-0.0	-0.00
10YR-1HR	15.00	172511.3	107752.6	64758.8	-0.0	-0.00
10YR-1HR	15.25	172511.3	107753.0	64758.3	-0.0	-0.00
10YR-1HR	15.50	172511.3	107753.4	64757.9	-0.0	-0.00
10YR-1HR	15.75	172511.3	107753.9	64757.4	0.0	0.00
10YR-1HR	16.00	172511.3	107754.3	64757.0	0.0	0.00
10YR-1HR	16.25	172511.3	107754.8	64756.5	-0.0	-0.00
10YR-1HR	16.50	172511.3	107755.2	64756.1	-0.0	-0.00
10YR-1HR	16.75	172511.3	107755.7	64755.6	-0.0	-0.00
10YR-1HR	17.00	172511.3	107756.1	64755.2	-0.0	-0.00
10YR-1HR	17.25	172511.3	107756.6	64754.8	-0.0	-0.00
10YR-1HR	17.50	172511.3	107757.0	64754.3	-0.0	-0.00
10YR-1HR	17.75	172511.3	107757.5	64753.9	-0.0	-0.00
10YR-1HR	18.00	172511.3	107757.9	64753.4	-0.0	-0.00
10YR-1HR	18.25	172511.3	107758.4	64753.0	-0.0	-0.00
10YR-1HR	18.50	172511.3	107758.8	64752.5	-0.0	-0.00
10YR-1HR	18.75	172511.3	107759.3	64752.1	-0.0	-0.00
10YR-1HR	19.00	172511.3	107759.7	64751.6	-0.0	-0.00
10YR-1HR	19.25	172511.3	107760.2	64751.2	-0.0	-0.00
10YR-1HR	19.50	172511.3	107760.6	64750.7	-0.0	-0.00
10YR-1HR	19.75	172511.3	107761.1	64750.3	-0.0	-0.00
10YR-1HR	20.00	172511.3	107761.5	64749.8	-0.0	-0.00
10YR-1HR	20.25	172511.3	107761.9	64749.4	-0.0	-0.00
10YR-1HR	20.50	172511.3	107762.4	64748.9	-0.0	-0.00
10YR-1HR	20.75	172511.3	107762.8	64748.5	-0.0	-0.00
10YR-1HR	21.00	172511.3	107763.3	64748.0	-0.0	-0.00
10YR-1HR	21.25	172511.3	107763.7	64747.6	-0.0	-0.00
10YR-1HR	21.50	172511.3	107764.2	64747.1	-0.0	-0.00
10YR-1HR	21.75	172511.3	107764.6	64746.7	-0.0	-0.00
10YR-1HR	22.00	172511.3	107765.1	64746.2	-0.0	-0.00
10YR-1HR	22.25	172511.3	107765.5	64745.8	-0.0	-0.00
10YR-1HR	22.50	172511.3	107766.0	64745.3	-0.0	-0.00
10YR-1HR	22.75	172511.3	107766.4	64744.9	-0.0	-0.00
10YR-1HR	23.00	172511.3	107766.9	64744.4	-0.0	-0.00
10YR-1HR	23.25	172511.3	107767.3	64744.0	-0.0	-0.00
10YR-1HR	23.50	172511.3	107767.8	64743.5	-0.0	-0.00
10YR-1HR	23.75	172511.3	107768.2	64743.1	-0.0	-0.00
10YR-1HR	24.00	172511.3	107768.7	64742.6	-0.0	-0.00
10YR-1HR	24.25	172511.3	107769.1	64742.2	-0.0	-0.00
10YR-1HR	24.50	172511.3	107769.6	64741.7	-0.0	-0.00
10YR-1HR	24.75	172511.3	107770.0	64741.3	-0.0	-0.00
10YR-1HR	25.00	172511.3	107770.5	64740.8	-0.0	-0.00

10-Year / 8-Hour Storm
FDOT Distribution

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
10YR-8HR	B-701	BASE	4.04	0.407	1.253	2637.5
10YR-8HR	B-701A	BASE	4.04	0.334	1.198	2174.7
10YR-8HR	B-701B	BASE	4.02	0.471	2.601	3021.7
10YR-8HR	B-701C	BASE	4.00	6.205	3.778	41826.1
10YR-8HR	B-702	BASE	4.00	0.992	5.924	7956.2
10YR-8HR	B-703	BASE	4.00	0.831	5.924	6666.0
10YR-8HR	B-704	BASE	4.00	1.340	5.924	10751.7
10YR-8HR	B-705	BASE	4.00	1.233	5.924	9891.5
10YR-8HR	B-706	BASE	4.00	1.259	5.924	10106.6
10YR-8HR	B-707	BASE	4.00	1.179	5.924	9461.5
10YR-8HR	B-710A	BASE	4.02	3.520	2.740	22673.9
10YR-8HR	B-710B	BASE	4.02	0.340	2.609	2178.1
10YR-8HR	B-710C	BASE	4.02	0.120	2.658	771.8
10YR-8HR	B-710D	BASE	4.02	0.695	2.499	4445.1
10YR-8HR	B-710E	BASE	4.02	1.353	3.080	8832.2
10YR-8HR	B-711	BASE	4.00	0.322	5.924	2580.4
10YR-8HR	B-712	BASE	4.00	1.286	5.924	10321.6
10YR-8HR	B-713	BASE	4.00	2.546	5.924	20428.2
10YR-8HR	B-714	BASE	4.00	0.322	5.924	2580.4
10YR-8HR	D1	BASE	4.04	4.447	1.343	28572.1
10YR-8HR	D1-S28	BASE	4.00	0.616	5.924	4945.8
10YR-8HR	D1-S30	BASE	4.00	1.152	5.924	9246.4
10YR-8HR	D1-S32	BASE	4.00	0.536	5.924	4300.7
10YR-8HR	D1-S34	BASE	4.00	0.911	5.924	7311.1
10YR-8HR	D1-S37	BASE	4.00	0.295	5.924	2365.4
10YR-8HR	D1-S39	BASE	4.00	1.608	5.924	12902.0
10YR-8HR	D2	BASE	4.00	4.070	4.303	28270.9
10YR-8HR	E2	BASE	4.04	1.326	0.905	9131.3
10YR-8HR	E2-S29	BASE	4.00	1.769	5.924	14192.2
10YR-8HR	E2-S31	BASE	4.00	0.456	5.924	3655.6
10YR-8HR	E2-S33	BASE	4.00	0.563	5.924	4515.7
10YR-8HR	E2-S35	BASE	4.00	0.429	5.924	3440.5
10YR-8HR	E2-S36	BASE	4.00	0.858	5.924	6881.1
10YR-8HR	E2-S40	BASE	4.00	1.795	5.924	14407.2
10YR-8HR	E2-S41	BASE	4.00	1.527	5.924	12256.9
10YR-8HR	E2-S43	BASE	4.00	0.616	5.924	4945.8
10YR-8HR	E2-S68	BASE	4.00	0.938	5.924	7526.2
10YR-8HR	E2-SDE4	BASE	4.00	0.724	5.924	5805.9
10YR-8HR	E4	BASE	4.00	3.939	5.924	31609.9
10YR-8HR	OFF-D	BASE	4.02	1.686	3.058	10991.1
10YR-8HR	OFF-E	BASE	4.00	2.036	3.829	13761.6

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	10YR-8HR	8.00	4.000	99.000	0.0021	0	5.36	2.196	0.00	0.000
D-1	BASE	10YR-8HR	13.23	3.648	5.350	0.0002	136300	4.09	17.567	0.00	0.000
D-2	BASE	10YR-8HR	36.00	3.648	5.350	-0.0098	740	4.00	4.070	4.09	8.513
E-2	BASE	10YR-8HR	5.36	4.871	9.770	-0.0079	58937	36.00	17.512	5.36	2.196
E-4	BASE	10YR-8HR	5.36	4.871	6.000	0.0083	34665	4.01	12.133	36.00	17.512
F-D	BASE	10YR-8HR	36.00	4.588	7.000	0.0006	12165	4.03	2.506	0.00	0.000
F-E	BASE	10YR-8HR	4.02	5.566	8.500	-0.0001	3275	4.02	2.188	4.02	2.183
GROUND	BASE	10YR-8HR	8.00	4.000	99.000	0.0003	0	4.08	16.461	0.00	0.000
N-701	BASE	10YR-8HR	4.05	6.647	6.935	0.0003	6659	4.00	2.728	4.05	2.675
N-701A	BASE	10YR-8HR	4.06	5.155	6.856	-0.0001	4556	4.02	4.249	3.92	4.331
N-701B	BASE	10YR-8HR	4.06	5.150	7.077	0.0015	3665	3.92	1.562	4.11	1.263
N-701C	BASE	10YR-8HR	4.05	5.140	6.713	0.0014	6595	4.02	7.341	4.05	7.293
N-710A	BASE	10YR-8HR	4.07	7.500	7.584	0.0003	14307	4.00	6.751	4.06	6.496
N-710B	BASE	10YR-8HR	4.12	6.459	6.988	0.0004	8193	4.05	7.137	4.11	6.930
N-710C	BASE	10YR-8HR	4.08	5.868	6.758	-0.0001	961	4.10	7.037	4.11	7.046
N-710D	BASE	10YR-8HR	4.07	5.870	7.289	-0.0001	1849	1.84	0.026	4.14	0.049
N-710E	BASE	10YR-8HR	4.07	5.870	7.302	-0.0000	3138	4.06	1.320	4.07	1.302
N-FD1	BASE	10YR-8HR	5.20	4.857	99.000	-0.0013	636	4.03	12.500	4.05	12.335
N-FD2	BASE	10YR-8HR	4.09	4.494	99.000	0.0022	1254	4.05	10.225	4.08	10.029
S-28	BASE	10YR-8HR	4.02	24.391	28.300	0.0062	220	4.00	0.616	4.01	0.613
S-29	BASE	10YR-8HR	4.00	25.678	28.000	0.0063	319	4.00	1.769	3.99	1.768
S-30	BASE	10YR-8HR	4.02	19.193	27.240	0.0042	268	4.00	1.764	4.02	1.755
S-31	BASE	10YR-8HR	4.02	20.194	28.290	0.0059	195	4.00	0.456	4.03	0.453
S-32	BASE	10YR-8HR	4.03	18.779	23.780	0.0043	286	4.02	2.287	4.03	2.281
S-33	BASE	10YR-8HR	4.02	20.187	25.290	0.0044	467	4.00	2.782	4.01	2.776
S-34	BASE	10YR-8HR	4.04	14.235	22.010	0.0031	412	4.02	3.182	4.04	3.171
S-35	BASE	10YR-8HR	4.02	18.836	23.500	0.0065	246	4.01	3.203	4.02	3.201
S-36	BASE	10YR-8HR	4.00	18.246	21.430	0.0031	299	4.00	0.857	4.00	0.857
S-37	BASE	10YR-8HR	4.05	9.868	14.360	0.0018	376	4.04	3.460	4.05	3.451
S-39	BASE	10YR-8HR	4.05	7.089	12.910	0.0058	272	4.03	5.021	4.04	5.014
S-40	BASE	10YR-8HR	4.01	6.608	13.420	0.0055	669	4.00	5.513	4.00	5.508
S-41	BASE	10YR-8HR	4.01	6.814	10.810	0.0051	511	4.00	2.864	4.01	2.861
S-43	BASE	10YR-8HR	4.01	6.870	10.300	0.0021	318	4.00	1.339	4.02	1.337
S-68	BASE	10YR-8HR	4.00	5.572	9.110	0.0036	141	4.00	0.938	4.00	0.938
SD-E4	BASE	10YR-8HR	4.00	8.951	9.400	0.0028	177	4.00	0.724	4.00	0.723
SD-S43	BASE	10YR-8HR	4.01	7.026	9.820	0.0014	270	4.00	0.723	3.99	0.723

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
D2D1	BASE	10YR-8HR	4.09	8.513	10.024	36.00	3.648	13.23	3.648
DISCH-D1	BASE	10YR-8HR	0.00	0.000	0.000	13.23	3.648	8.00	4.000
DISCH-E2	BASE	10YR-8HR	5.36	2.196	0.004	5.36	4.871	8.00	4.000
E4E2	BASE	10YR-8HR	36.00	17.512	12.587	5.36	4.871	5.36	4.871
OFF-D	BASE	10YR-8HR	0.00	0.000	0.000	36.00	4.588	36.00	3.648
OFF-E	BASE	10YR-8HR	4.02	2.183	-0.002	4.02	5.566	5.36	4.871
R701-701A	BASE	10YR-8HR	4.05	2.675	-0.002	4.05	6.647	4.05	5.175
R701A-701B	BASE	10YR-8HR	3.92	0.795	0.008	4.06	5.155	4.06	5.150
R701B-701C	BASE	10YR-8HR	4.11	1.263	0.263	4.06	5.150	4.05	5.140
R701C-FD	BASE	10YR-8HR	4.05	0.829	0.003	4.05	5.140	4.05	5.050
R710A-710B	BASE	10YR-8HR	4.06	6.496	-0.003	4.07	7.500	4.12	6.459
R710B-710C	BASE	10YR-8HR	4.11	6.930	0.009	4.12	6.459	4.08	5.868
R710C-710D	BASE	10YR-8HR	1.84	0.026	-0.004	4.08	5.868	4.07	5.870
R710D-710E	BASE	10YR-8HR	4.14	0.049	0.013	4.07	5.870	4.07	5.870
R710E-FE	BASE	10YR-8HR	4.07	0.159	-0.000	4.07	5.870	4.07	5.818
RC1	BASE	10YR-8HR	12.00	7.442	-0.194	5.20	4.857	8.00	4.000
RC2	BASE	10YR-8HR	4.08	10.029	-1.527	4.09	4.494	8.00	4.000
S28S30	BASE	10YR-8HR	4.01	0.613	0.007	4.02	24.391	4.01	23.817
S29S33	BASE	10YR-8HR	3.99	1.768	-0.002	4.00	25.678	3.99	19.637
S30S32	BASE	10YR-8HR	4.02	1.755	0.006	4.02	19.193	4.03	18.779
S31S33	BASE	10YR-8HR	4.03	0.453	0.132	4.02	20.194	4.02	20.187
S32S34	BASE	10YR-8HR	4.03	2.281	0.007	4.03	18.779	3.44	13.787
S33S35	BASE	10YR-8HR	4.01	2.776	0.009	4.02	20.187	4.01	18.489
S34S37	BASE	10YR-8HR	4.04	3.171	0.005	4.04	14.235	4.04	9.399
S35E2	BASE	10YR-8HR	4.02	3.201	0.083	4.02	18.836	4.02	4.760
S36S40	BASE	10YR-8HR	4.00	0.857	0.004	4.00	18.246	4.00	9.363
S37S39	BASE	10YR-8HR	4.05	3.451	0.006	4.05	9.868	3.31	6.501
S39D1	BASE	10YR-8HR	4.04	5.014	-0.006	4.05	7.089	4.04	5.019
S40E2	BASE	10YR-8HR	4.00	5.508	-0.006	4.01	6.608	4.00	4.604
S41S40	BASE	10YR-8HR	4.01	2.861	-0.004	4.01	6.814	4.01	6.608
S43S41	BASE	10YR-8HR	4.02	1.337	0.003	4.01	6.870	4.01	6.814
S68E2	BASE	10YR-8HR	4.00	0.938	0.002	4.00	5.572	8.53	4.713
SDE4S43_1	BASE	10YR-8HR	4.00	0.723	-0.002	4.00	8.951	4.00	7.948
SDE4S43_2	BASE	10YR-8HR	0.00	0.000	0.000	4.01	7.026	4.01	6.870
SDS43S43	BASE	10YR-8HR	3.99	0.723	0.001	4.01	7.026	3.99	6.611
SFD1E4	BASE	10YR-8HR	4.01	6.026	-1.184	5.20	4.857	5.36	4.871
W701A-FD2	BASE	10YR-8HR	4.06	3.764	-0.003	4.06	5.155	4.09	4.494
W701C-FD2	BASE	10YR-8HR	4.05	6.464	0.025	4.05	5.140	4.09	4.494
W710C-FD1	BASE	10YR-8HR	4.08	7.669	-0.003	4.08	5.868	5.20	4.857
W710E-FD1	BASE	10YR-8HR	4.07	1.142	-0.001	4.07	5.870	5.20	4.857
WFD-FD2	BASE	10YR-8HR	0.00	0.000	0.000	36.00	4.588	4.09	4.494
WFE-FD1	BASE	10YR-8HR	0.00	0.000	0.000	4.02	5.566	5.20	4.857

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10-Year / 24-Hour Storm
FDOT Distribution

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
10YR-24HR	B-701	BASE	12.02	0.179	2.665	5611.1
10YR-24HR	B-701A	BASE	12.02	0.148	2.582	4685.8
10YR-24HR	B-701B	BASE	12.00	0.178	4.558	5294.6
10YR-24HR	B-701C	BASE	12.00	2.205	6.024	66694.9
10YR-24HR	B-702	BASE	12.00	0.329	8.396	11276.7
10YR-24HR	B-703	BASE	12.00	0.275	8.396	9448.0
10YR-24HR	B-704	BASE	12.00	0.444	8.396	15238.8
10YR-24HR	B-705	BASE	12.00	0.408	8.396	14019.7
10YR-24HR	B-706	BASE	12.00	0.417	8.396	14324.4
10YR-24HR	B-707	BASE	12.00	0.391	8.396	13410.1
10YR-24HR	B-710A	BASE	12.00	1.321	4.738	39211.7
10YR-24HR	B-710B	BASE	12.00	0.128	4.568	3813.6
10YR-24HR	B-710C	BASE	12.00	0.045	4.631	1344.9
10YR-24HR	B-710D	BASE	12.00	0.265	4.424	7868.3
10YR-24HR	B-710E	BASE	12.00	0.498	5.171	14829.6
10YR-24HR	B-711	BASE	12.00	0.107	8.396	3657.3
10YR-24HR	B-712	BASE	12.00	0.426	8.396	14629.2
10YR-24HR	B-713	BASE	12.00	0.843	8.396	28953.7
10YR-24HR	B-714	BASE	12.00	0.107	8.396	3657.3
10YR-24HR	D1	BASE	12.02	1.920	2.802	59604.1
10YR-24HR	D1-S28	BASE	12.00	0.204	8.396	7009.8
10YR-24HR	D1-S30	BASE	12.00	0.382	8.396	13105.3
10YR-24HR	D1-S32	BASE	12.00	0.178	8.396	6095.5
10YR-24HR	D1-S34	BASE	12.00	0.302	8.396	10362.4
10YR-24HR	D1-S37	BASE	12.00	0.098	8.396	3352.5
10YR-24HR	D1-S39	BASE	12.00	0.533	8.396	18286.5
10YR-24HR	D2	BASE	12.00	1.414	6.637	43605.7
10YR-24HR	E2	BASE	12.02	0.641	2.119	21385.8
10YR-24HR	E2-S29	BASE	12.00	0.586	8.396	20115.2
10YR-24HR	E2-S31	BASE	12.00	0.151	8.396	5181.2
10YR-24HR	E2-S33	BASE	12.00	0.186	8.396	6400.3
10YR-24HR	E2-S35	BASE	12.00	0.142	8.396	4876.4
10YR-24HR	E2-S36	BASE	12.00	0.284	8.396	9752.8
10YR-24HR	E2-S40	BASE	12.00	0.595	8.396	20419.9
10YR-24HR	E2-S41	BASE	12.00	0.506	8.396	17372.2
10YR-24HR	E2-S43	BASE	12.00	0.204	8.396	7009.8
10YR-24HR	E2-S68	BASE	12.00	0.311	8.396	10667.1
10YR-24HR	E2-SDE4	BASE	12.00	0.240	8.396	8228.9
10YR-24HR	E4	BASE	12.00	1.305	8.396	44802.0
10YR-24HR	OFF-D	BASE	12.00	0.621	5.144	18487.0
10YR-24HR	OFF-E	BASE	12.00	0.722	6.085	21868.5

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	10YR-24HR	12.50	4.000	99.000	0.0002	0	0.00	0.000	0.00	0.000
D-1	BASE	10YR-24HR	35.00	4.111	5.350	0.0001	137510	11.70	4.351	0.00	0.000
D-2	BASE	10YR-24HR	35.96	4.111	5.350	-0.0027	1225	12.00	1.413	11.70	0.922
E-2	BASE	10YR-24HR	19.63	4.602	9.770	-0.0036	57976	0.94	8.813	0.00	0.000
E-4	BASE	10YR-24HR	19.63	4.602	6.000	0.0039	29674	11.81	1.695	0.94	8.813
F-D	BASE	10YR-24HR	21.05	5.028	7.000	0.0001	19453	12.00	0.916	21.05	0.292
F-E	BASE	10YR-24HR	12.01	5.532	8.500	-0.0000	2511	12.00	0.756	12.01	0.755
GROUND	BASE	10YR-24HR	24.00	4.000	99.000	-0.0001	0	12.09	8.637	0.00	0.000
N-701	BASE	10YR-24HR	12.04	6.518	6.935	-0.0001	4029	12.00	0.951	12.04	0.944
N-701A	BASE	10YR-24HR	12.04	5.079	6.856	-0.0000	3585	12.02	1.508	12.04	1.506
N-701B	BASE	10YR-24HR	12.03	5.076	7.077	0.0001	3563	12.00	0.436	12.12	0.444
N-701C	BASE	10YR-24HR	12.02	5.071	6.713	0.0003	6447	12.00	2.636	12.02	2.632
N-710A	BASE	10YR-24HR	12.05	7.311	7.584	-0.0002	11051	12.00	2.395	12.06	2.360
N-710B	BASE	10YR-24HR	12.10	6.238	6.988	-0.0002	6053	12.04	2.592	12.09	2.573
N-710C	BASE	10YR-24HR	12.08	5.728	6.758	-0.0000	820	12.08	2.617	12.09	2.617
N-710D	BASE	10YR-24HR	12.07	5.736	7.289	-0.0001	1678	2.64	0.011	0.00	0.000
N-710E	BASE	10YR-24HR	12.03	5.826	7.302	-0.0000	3053	12.00	0.288	12.03	0.287
N-FD1	BASE	10YR-24HR	21.04	4.576	99.000	-0.0008	779	12.02	4.589	12.03	4.532
N-FD2	BASE	10YR-24HR	21.08	4.115	99.000	0.0002	1564	12.02	3.692	12.06	3.638
S-28	BASE	10YR-24HR	11.97	24.221	28.300	0.0009	199	11.98	0.204	11.97	0.204
S-29	BASE	10YR-24HR	12.00	25.369	28.000	0.0024	289	11.98	0.586	11.94	0.586
S-30	BASE	10YR-24HR	12.01	18.878	27.240	0.0016	240	11.98	0.586	11.94	0.586
S-31	BASE	10YR-24HR	12.01	19.793	28.290	0.0009	181	11.98	0.151	12.01	0.151
S-32	BASE	10YR-24HR	12.00	18.420	23.780	0.0007	260	11.98	0.763	11.97	0.763
S-33	BASE	10YR-24HR	12.00	19.779	25.290	0.0007	420	12.00	0.923	12.00	0.923
S-34	BASE	10YR-24HR	12.01	13.858	22.010	0.0012	364	11.98	1.065	11.97	1.065
S-35	BASE	10YR-24HR	12.02	18.387	23.500	-0.0011	228	12.00	1.065	11.98	1.064
S-36	BASE	10YR-24HR	11.98	18.042	21.430	0.0012	262	11.98	0.284	11.98	0.284
S-37	BASE	10YR-24HR	12.02	9.473	14.360	0.0004	331	11.98	1.162	12.02	1.163
S-39	BASE	10YR-24HR	12.00	6.593	12.910	0.0022	249	11.98	1.695	11.99	1.695
S-40	BASE	10YR-24HR	12.01	6.074	13.420	0.0021	576	12.00	1.828	11.98	1.828
S-41	BASE	10YR-24HR	12.00	6.451	10.810	0.0019	433	11.98	0.950	12.00	0.950
S-43	BASE	10YR-24HR	12.00	6.554	10.300	0.0008	274	11.98	0.444	11.98	0.444
S-68	BASE	10YR-24HR	12.00	5.357	9.110	0.0014	136	11.98	0.311	11.93	0.311
SD-E4	BASE	10YR-24HR	12.00	8.816	9.400	0.0011	166	11.98	0.240	12.00	0.240
SD-S43	BASE	10YR-24HR	12.01	6.840	9.820	0.0002	244	12.00	0.240	11.97	0.240

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
D2D1	BASE	10YR-24HR	11.70	0.922	-4.009	35.96	4.111	35.00	4.111
DISCH-D1	BASE	10YR-24HR	0.00	0.000	0.000	35.00	4.111	12.50	4.000
DISCH-E2	BASE	10YR-24HR	0.00	0.000	0.000	19.63	4.602	12.50	4.000
E4E2	BASE	10YR-24HR	0.94	8.813	8.476	19.63	4.602	19.63	4.602
OFF-D	BASE	10YR-24HR	0.00	0.000	0.000	21.05	5.028	35.96	4.111
OFF-E	BASE	10YR-24HR	12.01	0.755	-0.001	12.01	5.532	19.63	4.602
R701-701A	BASE	10YR-24HR	12.04	0.944	-0.002	12.04	6.518	12.04	5.089
R701A-701B	BASE	10YR-24HR	10.60	0.201	0.000	12.04	5.079	12.03	5.076
R701B-701C	BASE	10YR-24HR	12.12	0.444	0.094	12.03	5.076	12.02	5.071
R701C-FD	BASE	10YR-24HR	12.02	0.295	-0.001	12.02	5.071	21.05	5.028
R710A-710B	BASE	10YR-24HR	12.06	2.360	-0.002	12.05	7.311	12.10	6.238
R710B-710C	BASE	10YR-24HR	12.09	2.573	0.004	12.10	6.238	12.08	5.728
R710C-710D	BASE	10YR-24HR	2.64	0.011	-0.002	12.08	5.728	12.07	5.736
R710D-710E	BASE	10YR-24HR	0.00	0.000	-0.005	12.07	5.736	12.03	5.826
R710E-FE	BASE	10YR-24HR	12.03	0.034	-0.000	12.03	5.826	12.05	5.807
RC1	BASE	10YR-24HR	12.51	5.141	-0.086	21.04	4.576	24.00	4.000
RC2	BASE	10YR-24HR	12.06	3.638	-0.551	21.08	4.115	24.00	4.000
S28S30	BASE	10YR-24HR	11.97	0.204	0.001	11.97	24.221	11.97	23.686
S29S33	BASE	10YR-24HR	11.94	0.586	0.002	12.00	25.369	11.94	19.496
S30S32	BASE	10YR-24HR	11.94	0.586	0.001	12.01	18.878	11.94	18.251
S31S33	BASE	10YR-24HR	12.01	0.151	0.013	12.01	19.793	12.00	19.779
S32S34	BASE	10YR-24HR	11.97	0.763	0.002	12.00	18.420	11.97	13.606
S33S35	BASE	10YR-24HR	12.00	0.923	-0.001	12.00	19.779	12.00	18.280
S34S37	BASE	10YR-24HR	11.97	1.065	0.004	12.01	13.858	11.97	9.235
S35E2	BASE	10YR-24HR	11.98	1.064	0.083	12.02	18.387	11.98	4.653
S36S40	BASE	10YR-24HR	11.98	0.284	0.003	11.98	18.042	11.98	9.276
S37S39	BASE	10YR-24HR	12.02	1.163	-0.005	12.02	9.473	12.02	6.228
S39D1	BASE	10YR-24HR	11.99	1.695	0.003	12.00	6.593	11.99	4.804
S40E2	BASE	10YR-24HR	11.98	1.828	0.001	12.01	6.074	11.98	4.348
S41S40	BASE	10YR-24HR	12.00	0.950	-0.001	12.00	6.451	12.00	5.853
S43S41	BASE	10YR-24HR	11.98	0.444	-0.000	12.00	6.554	11.98	6.271
S68E2	BASE	10YR-24HR	11.93	0.311	0.002	12.00	5.357	24.49	4.437
SDE4S43_1	BASE	10YR-24HR	12.00	0.240	-0.001	12.00	8.816	11.98	7.862
SDE4S43_2	BASE	10YR-24HR	0.00	0.000	0.000	12.01	6.840	12.00	6.554
SDS43S43	BASE	10YR-24HR	11.97	0.240	-0.000	12.01	6.840	11.97	6.460
SFD1E4	BASE	10YR-24HR	0.00	0.000	-0.838	21.04	4.576	19.63	4.602
W701A-FD2	BASE	10YR-24HR	12.04	1.355	-0.000	12.04	5.079	21.08	4.115
W701C-FD2	BASE	10YR-24HR	12.02	2.337	0.001	12.02	5.071	21.08	4.115
W710C-FD1	BASE	10YR-24HR	12.08	3.083	-0.000	12.08	5.728	21.04	4.576
W710E-FD1	BASE	10YR-24HR	12.03	0.253	-0.000	12.03	5.826	21.04	4.576
WFD-FD2	BASE	10YR-24HR	21.05	0.292	0.000	21.05	5.028	21.08	4.115
WFE-FD1	BASE	10YR-24HR	0.00	0.000	0.000	12.01	5.532	21.04	4.576

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100-Year / 1-Hour Storm
FDOT Distribution

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100YR-1HR	B-701	BASE	0.80	0.738	0.630	1326.4
100YR-1HR	B-701A	BASE	0.80	0.604	0.593	1076.9
100YR-1HR	B-701B	BASE	0.73	0.963	1.619	1880.1
100YR-1HR	B-701C	BASE	0.67	14.142	2.578	28545.0
100YR-1HR	B-702	BASE	0.64	2.789	4.531	6085.6
100YR-1HR	B-703	BASE	0.64	2.337	4.531	5098.8
100YR-1HR	B-704	BASE	0.64	3.769	4.531	8223.9
100YR-1HR	B-705	BASE	0.64	3.467	4.531	7565.9
100YR-1HR	B-706	BASE	0.64	3.543	4.531	7730.4
100YR-1HR	B-707	BASE	0.64	3.316	4.531	7237.0
100YR-1HR	B-710A	BASE	0.71	7.287	1.727	14294.2
100YR-1HR	B-710B	BASE	0.73	0.694	1.624	1356.2
100YR-1HR	B-710C	BASE	0.71	0.247	1.663	482.8
100YR-1HR	B-710D	BASE	0.73	1.408	1.539	2737.5
100YR-1HR	B-710E	BASE	0.71	2.890	1.999	5733.0
100YR-1HR	B-711	BASE	0.64	0.904	4.531	1973.7
100YR-1HR	B-712	BASE	0.64	3.618	4.531	7894.9
100YR-1HR	B-713	BASE	0.64	7.161	4.531	15625.3
100YR-1HR	B-714	BASE	0.64	0.904	4.531	1973.7
100YR-1HR	D1	BASE	0.78	8.121	0.692	14710.2
100YR-1HR	D1-S28	BASE	0.64	1.734	4.531	3783.0
100YR-1HR	D1-S30	BASE	0.64	3.241	4.531	7072.5
100YR-1HR	D1-S32	BASE	0.64	1.507	4.531	3289.5
100YR-1HR	D1-S34	BASE	0.64	2.563	4.531	5592.2
100YR-1HR	D1-S37	BASE	0.64	0.829	4.531	1809.2
100YR-1HR	D1-S39	BASE	0.64	4.522	4.531	9868.6
100YR-1HR	D2	BASE	0.67	9.758	3.032	19920.9
100YR-1HR	E2	BASE	0.82	2.368	0.402	4061.5
100YR-1HR	E2-S29	BASE	0.64	4.975	4.531	10855.5
100YR-1HR	E2-S31	BASE	0.64	1.281	4.531	2796.1
100YR-1HR	E2-S33	BASE	0.64	1.583	4.531	3454.0
100YR-1HR	E2-S35	BASE	0.64	1.206	4.531	2631.6
100YR-1HR	E2-S36	BASE	0.64	2.412	4.531	5263.3
100YR-1HR	E2-S40	BASE	0.64	5.050	4.531	11020.0
100YR-1HR	E2-S41	BASE	0.64	4.296	4.531	9375.2
100YR-1HR	E2-S43	BASE	0.64	1.734	4.531	3783.0
100YR-1HR	E2-S68	BASE	0.64	2.638	4.531	5756.7
100YR-1HR	E2-SDE4	BASE	0.64	2.035	4.531	4440.9
100YR-1HR	E4	BASE	0.64	11.080	4.531	24178.1
100YR-1HR	OFF-D	BASE	0.71	3.593	1.982	7122.1
100YR-1HR	OFF-E	BASE	0.67	4.664	2.622	9423.1

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	100YR-1HR	0.00	3.000	99.000	0.0000	0	0.00	0.000	0.00	0.000
D-1	BASE	100YR-1HR	25.00	3.401	5.350	0.0007	135653	0.75	28.544	0.00	0.000
D-2	BASE	100YR-1HR	4.24	3.407	5.350	-0.0097	469	0.67	9.758	0.89	11.001
E-2	BASE	100YR-1HR	1.25	4.486	9.770	-0.0086	57607	0.79	29.999	0.00	0.000
E-4	BASE	100YR-1HR	1.24	4.483	6.000	0.0090	27470	0.67	18.517	0.10	15.936
F-D	BASE	100YR-1HR	25.00	4.192	7.000	0.0015	9142	0.70	4.836	0.00	0.000
F-E	BASE	100YR-1HR	0.73	5.614	8.500	-0.0004	4385	0.70	5.008	0.73	4.994
GROUND	BASE	100YR-1HR	0.00	3.000	99.000	0.0000	0	0.89	40.198	0.00	0.000
N-701	BASE	100YR-1HR	0.73	6.785	6.935	-0.0004	9233	0.67	7.120	0.73	6.788
N-701A	BASE	100YR-1HR	0.74	5.287	6.856	-0.0004	5521	0.70	10.690	0.74	10.614
N-701B	BASE	100YR-1HR	0.89	5.225	7.077	0.0022	3772	0.84	3.483	0.91	2.658
N-701C	BASE	100YR-1HR	0.89	5.205	6.713	0.0070	6735	0.86	13.434	0.89	12.928
N-710A	BASE	100YR-1HR	0.81	7.712	7.584	-0.0006	16341	0.67	16.191	0.78	14.215
N-710B	BASE	100YR-1HR	0.90	6.761	6.988	-0.0007	12480	0.77	15.665	0.90	14.185
N-710C	BASE	100YR-1HR	0.90	6.015	6.758	-0.0004	1195	0.90	14.368	0.91	14.372
N-710D	BASE	100YR-1HR	0.90	6.014	7.289	-0.0003	2035	0.87	1.701	0.92	1.669
N-710E	BASE	100YR-1HR	0.82	5.948	7.302	-0.0003	3258	0.79	4.018	0.82	3.991
N-FD1	BASE	100YR-1HR	1.02	4.371	99.000	-0.0022	825	0.78	25.254	0.80	24.793
N-FD2	BASE	100YR-1HR	0.73	3.455	99.000	0.0011	2070	0.88	19.114	0.73	19.003
S-28	BASE	100YR-1HR	0.88	24.553	28.300	0.0073	231	0.65	1.730	0.87	1.180
S-29	BASE	100YR-1HR	0.66	26.270	28.000	0.0187	282	0.65	4.965	0.65	4.954
S-30	BASE	100YR-1HR	0.88	19.504	27.240	0.0125	277	0.86	3.455	0.88	3.388
S-31	BASE	100YR-1HR	0.87	20.712	28.290	0.0086	172	0.65	1.279	0.88	0.919
S-32	BASE	100YR-1HR	0.73	19.176	23.780	0.0125	271	0.65	4.738	0.72	4.448
S-33	BASE	100YR-1HR	0.86	20.703	25.290	0.0103	414	0.65	6.532	0.86	5.690
S-34	BASE	100YR-1HR	0.74	14.696	22.010	0.0093	416	0.72	6.840	0.74	6.724
S-35	BASE	100YR-1HR	0.87	19.414	23.500	0.0121	219	0.86	6.549	0.87	6.505
S-36	BASE	100YR-1HR	0.70	18.586	21.430	0.0099	320	0.65	2.407	0.69	2.326
S-37	BASE	100YR-1HR	0.76	10.367	14.360	0.0058	389	0.74	7.478	0.76	7.398
S-39	BASE	100YR-1HR	0.76	7.830	12.910	0.0061	255	0.75	11.426	0.76	11.389
S-40	BASE	100YR-1HR	0.73	7.606	13.420	0.0054	378	0.72	14.261	0.73	14.227
S-41	BASE	100YR-1HR	0.74	7.897	10.810	0.0064	273	0.73	7.362	0.75	7.370
S-43	BASE	100YR-1HR	0.74	7.928	10.300	0.0044	213	0.74	3.442	0.77	3.489
S-68	BASE	100YR-1HR	0.65	5.949	9.110	0.0040	144	0.65	2.633	0.65	2.632
SD-E4	BASE	100YR-1HR	0.65	9.178	9.400	0.0066	194	0.65	2.031	0.65	2.031
SD-S43	BASE	100YR-1HR	0.74	7.973	9.820	0.0056	234	0.65	2.031	0.77	1.893

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
D2D1	BASE	100YR-1HR	0.89	11.001	5.997	4.24	3.407	25.00	3.401
DISCH-D1	BASE	100YR-1HR	0.00	0.000	0.000	25.00	3.401	0.00	3.000
DISCH-E2	BASE	100YR-1HR	0.00	0.000	0.000	1.25	4.486	0.00	3.000
E4E2	BASE	100YR-1HR	0.10	15.936	13.017	1.24	4.483	1.25	4.486
OFF-D	BASE	100YR-1HR	0.00	0.000	0.000	25.00	4.192	4.24	3.407
OFF-E	BASE	100YR-1HR	0.73	4.994	-0.013	0.73	5.614	1.24	4.483
R701-701A	BASE	100YR-1HR	0.73	6.788	-0.016	0.73	6.785	0.73	5.318
R701A-701B	BASE	100YR-1HR	0.84	1.932	-0.016	0.74	5.287	0.89	5.225
R701B-701C	BASE	100YR-1HR	0.91	2.658	0.769	0.89	5.225	0.89	5.205
R701C-FD	BASE	100YR-1HR	0.89	1.485	0.009	0.89	5.205	0.89	5.074
R710A-710B	BASE	100YR-1HR	0.78	14.215	-0.035	0.81	7.712	0.90	6.761
R710B-710C	BASE	100YR-1HR	0.90	14.185	-0.020	0.90	6.761	0.90	6.015
R710C-710D	BASE	100YR-1HR	0.93	0.626	0.143	0.90	6.015	0.90	6.014
R710D-710E	BASE	100YR-1HR	0.92	1.669	0.039	0.90	6.014	0.82	5.948
R710E-FE	BASE	100YR-1HR	0.82	0.499	-0.001	0.82	5.948	0.82	5.838
RC1	BASE	100YR-1HR	1.02	21.247	0.187	1.02	4.371	0.00	3.000
RC2	BASE	100YR-1HR	0.73	19.003	0.418	0.73	3.455	0.00	3.000
S28S30	BASE	100YR-1HR	0.87	1.180	0.015	0.88	24.553	0.87	23.941
S29S33	BASE	100YR-1HR	0.65	4.954	0.023	0.66	26.270	0.65	19.873
S30S32	BASE	100YR-1HR	0.88	3.388	-0.255	0.88	19.504	0.98	18.976
S31S33	BASE	100YR-1HR	0.88	0.919	0.308	0.87	20.712	0.86	20.703
S32S34	BASE	100YR-1HR	0.72	4.448	0.026	0.73	19.176	0.66	14.139
S33S35	BASE	100YR-1HR	0.86	5.690	0.021	0.86	20.703	0.86	18.724
S34S37	BASE	100YR-1HR	0.74	6.724	-0.017	0.74	14.696	0.74	9.583
S35E2	BASE	100YR-1HR	0.87	6.505	0.088	0.87	19.414	0.87	4.869
S36S40	BASE	100YR-1HR	0.69	2.326	0.010	0.70	18.586	0.69	9.498
S37S39	BASE	100YR-1HR	0.76	7.398	-0.016	0.76	10.367	0.64	7.023
S39D1	BASE	100YR-1HR	0.76	11.389	-0.023	0.76	7.830	0.76	5.298
S40E2	BASE	100YR-1HR	0.73	14.227	-0.032	0.73	7.606	0.73	5.015
S41S40	BASE	100YR-1HR	0.75	7.370	-0.017	0.74	7.897	0.73	7.606
S43S41	BASE	100YR-1HR	0.77	3.489	0.150	0.74	7.928	0.74	7.897
S68E2	BASE	100YR-1HR	0.65	2.632	-0.007	0.65	5.949	0.65	4.385
SDE4S43_1	BASE	100YR-1HR	0.65	2.031	0.012	0.65	9.178	0.65	8.094
SDE4S43_2	BASE	100YR-1HR	0.00	0.000	0.000	0.74	7.973	0.74	7.928
SDS43S43	BASE	100YR-1HR	0.77	1.893	0.296	0.74	7.973	0.74	7.928
SFD1E4	BASE	100YR-1HR	0.79	3.595	-1.222	1.02	4.371	1.24	4.483
W701A-FD2	BASE	100YR-1HR	0.74	9.477	-0.018	0.74	5.287	0.73	3.455
W701C-FD2	BASE	100YR-1HR	0.89	11.443	0.070	0.89	5.205	0.73	3.455
W710C-FD1	BASE	100YR-1HR	0.90	13.764	-0.015	0.90	6.015	1.02	4.371
W710E-FD1	BASE	100YR-1HR	0.82	3.492	-0.006	0.82	5.948	1.02	4.371
WFD-FD2	BASE	100YR-1HR	0.00	0.000	0.000	25.00	4.192	0.73	3.455
WFE-FD1	BASE	100YR-1HR	0.00	0.000	0.000	0.73	5.614	1.02	4.371

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
MASS BALANCE REPORT

Simulation	Time hrs	Inflow Volume ft3	Outflow Volume ft3	Change in Sys Storage ft3	Difference ft3	Error %
100YR-1HR	0.00	0.0	0.0	0.0	0.0	0.00
100YR-1HR	0.02	0.0	0.0	0.0	0.0	0.00
100YR-1HR	0.03	0.0	0.0	0.0	0.0	0.00
100YR-1HR	0.05	0.0	0.0	0.0	-0.0	-0.00
100YR-1HR	0.07	0.0	0.0	0.0	-0.0	-0.00
100YR-1HR	0.08	0.0	0.0	0.0	0.0	0.00
100YR-1HR	0.10	0.5	0.0	0.5	-0.0	-0.00
100YR-1HR	0.12	3.2	0.0	3.2	-0.0	-0.00
100YR-1HR	0.13	11.2	0.0	11.2	-0.0	-0.00
100YR-1HR	0.15	31.3	0.0	31.3	-0.0	-0.00
100YR-1HR	0.17	74.1	5.7	68.4	-0.0	-0.00
100YR-1HR	0.18	150.4	18.5	131.8	0.0	0.00
100YR-1HR	0.20	272.7	35.0	237.6	-0.0	-0.00
100YR-1HR	0.22	459.9	59.8	400.2	-0.0	-0.00
100YR-1HR	0.23	735.8	96.0	639.7	0.0	0.00
100YR-1HR	0.25	1119.0	145.4	973.6	0.0	0.00
100YR-1HR	0.27	1631.5	212.7	1418.7	0.0	0.00
100YR-1HR	0.28	2304.7	312.5	1992.3	0.0	0.00
100YR-1HR	0.30	3169.9	430.4	2739.5	0.0	0.00
100YR-1HR	0.32	4250.9	574.6	3676.3	0.0	0.00
100YR-1HR	0.33	5574.2	750.2	4824.1	0.0	0.00
100YR-1HR	0.35	7181.0	961.8	6219.2	0.0	0.00
100YR-1HR	0.37	9121.7	1214.6	7907.1	0.0	0.00
100YR-1HR	0.38	11441.5	1515.4	9926.0	0.0	0.00
100YR-1HR	0.40	14180.4	1874.8	12305.6	0.0	0.00
100YR-1HR	0.42	17367.0	2312.4	15054.7	0.0	0.00
100YR-1HR	0.43	21012.3	2846.5	18165.8	0.0	0.00
100YR-1HR	0.45	25117.6	3488.8	21628.8	0.0	0.00
100YR-1HR	0.47	29682.4	4244.6	25437.8	0.0	0.00
100YR-1HR	0.48	34703.9	5115.9	29587.9	0.0	0.00
100YR-1HR	0.50	40173.6	6103.6	34070.1	0.0	0.00
100YR-1HR	0.52	46076.7	7207.5	38869.2	0.0	0.00
100YR-1HR	0.53	52393.4	8431.6	43961.8	0.0	0.00
100YR-1HR	0.55	59093.2	9779.0	49314.2	0.0	0.00
100YR-1HR	0.57	66139.6	11249.5	54890.1	0.0	0.00
100YR-1HR	0.58	73499.7	12843.6	60656.1	0.0	0.00
100YR-1HR	0.60	81143.8	14558.7	66585.0	0.0	0.00
100YR-1HR	0.62	89026.0	16390.1	72636.0	0.0	0.00
100YR-1HR	0.63	97095.2	18331.0	78764.3	0.0	0.00
100YR-1HR	0.65	105307.4	20374.5	84932.9	0.0	0.00
100YR-1HR	0.67	113610.0	22512.8	91097.2	0.0	0.00
100YR-1HR	0.68	121924.2	24735.5	97188.7	0.0	0.00
100YR-1HR	0.70	130186.1	27028.7	103157.4	0.0	0.00
100YR-1HR	0.72	138369.7	29379.8	108990.0	0.0	0.00
100YR-1HR	0.73	146454.9	31777.5	114677.5	0.0	0.00
100YR-1HR	0.75	154419.3	34186.5	120232.8	-0.0	-0.00
100YR-1HR	0.77	162238.1	36590.8	125647.3	-0.0	-0.00
100YR-1HR	0.78	169891.1	38985.7	130905.4	-0.0	-0.00
100YR-1HR	0.80	177363.4	41367.4	135996.0	0.0	0.00
100YR-1HR	0.82	184681.7	43746.9	140934.9	-0.0	-0.00
100YR-1HR	0.83	191761.2	46098.7	145662.5	-0.0	-0.00
100YR-1HR	0.85	198584.1	48428.0	150156.2	-0.0	-0.00
100YR-1HR	0.87	205259.5	50832.7	154426.8	-0.0	-0.00
100YR-1HR	0.88	211374.6	53187.4	158187.3	-0.0	-0.00
100YR-1HR	0.90	217239.6	55596.1	161643.5	-0.0	-0.00
100YR-1HR	0.92	222701.9	57972.6	164729.3	-0.0	-0.00
100YR-1HR	0.93	227882.1	60346.0	167536.0	-0.0	-0.00
100YR-1HR	0.95	232863.0	62739.3	170123.7	-0.0	-0.00
100YR-1HR	0.97	237348.6	64991.1	172357.5	-0.0	-0.00
100YR-1HR	0.98	241673.8	67255.4	174418.4	-0.0	-0.00
100YR-1HR	1.00	245699.0	69452.2	176246.8	-0.0	-0.00
100YR-1HR	1.25	283353.2	97600.3	185753.0	-0.0	-0.00
100YR-1HR	1.50	289251.6	115399.8	173851.8	-0.0	-0.00
100YR-1HR	1.75	289251.6	127034.6	162217.0	-0.0	-0.00
100YR-1HR	2.00	289251.6	136959.7	152291.9	-0.0	-0.00
100YR-1HR	2.25	289251.6	145954.1	143297.5	-0.0	-0.00
100YR-1HR	2.50	289251.6	154236.0	135015.6	-0.0	-0.00
100YR-1HR	2.75	289251.6	161874.0	127377.6	-0.0	-0.00
100YR-1HR	3.00	289251.6	168853.3	120398.3	-0.0	-0.00
100YR-1HR	3.25	289251.6	175118.0	114133.6	-0.0	-0.00
100YR-1HR	3.50	289251.6	180601.9	108649.7	-0.0	-0.00
100YR-1HR	3.75	289251.6	185155.8	104095.8	-0.0	-0.00
100YR-1HR	4.00	289251.6	188556.2	100695.4	-0.0	-0.00
100YR-1HR	4.25	289251.6	190317.2	98934.4	-0.0	-0.00
100YR-1HR	4.50	289251.6	190416.9	98834.7	0.0	0.00
100YR-1HR	4.75	289251.6	190422.0	98829.6	0.0	0.00
100YR-1HR	5.00	289251.6	190425.8	98825.8	0.0	0.00
100YR-1HR	5.25	289251.6	190428.7	98822.9	0.0	0.00
100YR-1HR	5.50	289251.6	190430.9	98820.7	0.0	0.00
100YR-1HR	5.75	289251.6	190432.4	98819.2	0.0	0.00
100YR-1HR	6.00	289251.6	190433.6	98818.0	0.0	0.00

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
MASS BALANCE REPORT

Simulation	Time hrs	Inflow Volume ft3	Outflow Volume ft3	Change in Sys Storage ft3	Difference ft3	Error %
100YR-1HR	6.25	289251.6	190434.6	98817.0	0.0	0.00
100YR-1HR	6.50	289251.6	190435.4	98816.2	0.0	0.00
100YR-1HR	6.75	289251.6	190436.0	98815.6	0.0	0.00
100YR-1HR	7.00	289251.6	190436.6	98815.0	0.0	0.00
100YR-1HR	7.25	289251.6	190437.0	98814.6	0.0	0.00
100YR-1HR	7.50	289251.6	190437.5	98814.1	0.0	0.00
100YR-1HR	7.75	289251.6	190437.9	98813.7	0.0	0.00
100YR-1HR	8.00	289251.6	190438.4	98813.2	0.0	0.00
100YR-1HR	8.25	289251.6	190438.8	98812.8	0.0	0.00
100YR-1HR	8.50	289251.6	190439.3	98812.3	0.0	0.00
100YR-1HR	8.75	289251.6	190439.7	98811.9	0.0	0.00
100YR-1HR	9.00	289251.6	190440.2	98811.4	0.0	0.00
100YR-1HR	9.25	289251.6	190440.6	98811.0	0.0	0.00
100YR-1HR	9.50	289251.6	190441.1	98810.5	0.0	0.00
100YR-1HR	9.75	289251.6	190441.5	98810.1	0.0	0.00
100YR-1HR	10.00	289251.6	190442.0	98809.6	0.0	0.00
100YR-1HR	10.25	289251.6	190442.4	98809.2	0.0	0.00
100YR-1HR	10.50	289251.6	190442.8	98808.8	0.0	0.00
100YR-1HR	10.75	289251.6	190443.3	98808.3	0.0	0.00
100YR-1HR	11.00	289251.6	190443.7	98807.9	0.0	0.00
100YR-1HR	11.25	289251.6	190444.2	98807.4	0.0	0.00
100YR-1HR	11.50	289251.6	190444.6	98807.0	0.0	0.00
100YR-1HR	11.75	289251.6	190445.1	98806.5	0.0	0.00
100YR-1HR	12.00	289251.6	190445.5	98806.1	0.0	0.00
100YR-1HR	12.25	289251.6	190445.9	98805.7	0.0	0.00
100YR-1HR	12.50	289251.6	190446.4	98805.2	0.0	0.00
100YR-1HR	12.75	289251.6	190446.8	98804.8	0.0	0.00
100YR-1HR	13.00	289251.6	190447.3	98804.3	0.0	0.00
100YR-1HR	13.25	289251.6	190447.7	98803.9	0.0	0.00
100YR-1HR	13.50	289251.6	190448.2	98803.4	0.0	0.00
100YR-1HR	13.75	289251.6	190448.6	98803.0	0.0	0.00
100YR-1HR	14.00	289251.6	190449.1	98802.5	0.0	0.00
100YR-1HR	14.25	289251.6	190449.5	98802.1	0.0	0.00
100YR-1HR	14.50	289251.6	190449.9	98801.7	0.0	0.00
100YR-1HR	14.75	289251.6	190450.4	98801.2	0.0	0.00
100YR-1HR	15.00	289251.6	190450.8	98800.8	0.0	0.00
100YR-1HR	15.25	289251.6	190451.3	98800.3	0.0	0.00
100YR-1HR	15.50	289251.6	190451.7	98799.9	0.0	0.00
100YR-1HR	15.75	289251.6	190452.2	98799.4	0.0	0.00
100YR-1HR	16.00	289251.6	190452.6	98799.0	0.0	0.00
100YR-1HR	16.25	289251.6	190453.1	98798.5	0.0	0.00
100YR-1HR	16.50	289251.6	190453.5	98798.1	0.0	0.00
100YR-1HR	16.75	289251.6	190454.0	98797.6	0.0	0.00
100YR-1HR	17.00	289251.6	190454.4	98797.2	-0.0	-0.00
100YR-1HR	17.25	289251.6	190454.9	98796.7	-0.0	-0.00
100YR-1HR	17.50	289251.6	190455.3	98796.3	-0.0	-0.00
100YR-1HR	17.75	289251.6	190455.8	98795.8	-0.0	-0.00
100YR-1HR	18.00	289251.6	190456.2	98795.4	-0.0	-0.00
100YR-1HR	18.25	289251.6	190456.6	98795.0	-0.0	-0.00
100YR-1HR	18.50	289251.6	190457.1	98794.5	-0.0	-0.00
100YR-1HR	18.75	289251.6	190457.5	98794.1	-0.0	-0.00
100YR-1HR	19.00	289251.6	190458.0	98793.6	-0.0	-0.00
100YR-1HR	19.25	289251.6	190458.4	98793.2	-0.0	-0.00
100YR-1HR	19.50	289251.6	190458.9	98792.7	-0.0	-0.00
100YR-1HR	19.75	289251.6	190459.3	98792.3	-0.0	-0.00
100YR-1HR	20.00	289251.6	190459.8	98791.8	-0.0	-0.00
100YR-1HR	20.25	289251.6	190460.2	98791.4	-0.0	-0.00
100YR-1HR	20.50	289251.6	190460.7	98790.9	-0.0	-0.00
100YR-1HR	20.75	289251.6	190461.1	98790.5	-0.0	-0.00
100YR-1HR	21.00	289251.6	190461.6	98790.0	-0.0	-0.00
100YR-1HR	21.25	289251.6	190462.0	98789.6	-0.0	-0.00
100YR-1HR	21.50	289251.6	190462.5	98789.1	-0.0	-0.00
100YR-1HR	21.75	289251.6	190462.9	98788.7	-0.0	-0.00
100YR-1HR	22.00	289251.6	190463.4	98788.2	-0.0	-0.00
100YR-1HR	22.25	289251.6	190463.8	98787.8	-0.0	-0.00
100YR-1HR	22.50	289251.6	190464.3	98787.3	-0.0	-0.00
100YR-1HR	22.75	289251.6	190464.7	98786.9	-0.0	-0.00
100YR-1HR	23.00	289251.6	190465.2	98786.4	-0.0	-0.00
100YR-1HR	23.25	289251.6	190465.6	98786.0	-0.0	-0.00
100YR-1HR	23.50	289251.6	190466.1	98785.5	-0.0	-0.00
100YR-1HR	23.75	289251.6	190466.5	98785.1	-0.0	-0.00
100YR-1HR	24.00	289251.6	190467.0	98784.6	-0.0	-0.00
100YR-1HR	24.25	289251.6	190467.4	98784.2	-0.0	-0.00
100YR-1HR	24.50	289251.6	190467.9	98783.7	-0.0	-0.00
100YR-1HR	24.75	289251.6	190468.3	98783.3	-0.0	-0.00
100YR-1HR	25.00	289251.6	190468.8	98782.8	-0.0	-0.00
100YR-1HR	25.00	289251.6	190468.8	98782.8	-0.0	-0.00

100-Year / 8-Hour Storm
FDOT Distribution

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100YR-8HR	B-701	BASE	4.02	1.039	3.130	6590.5
100YR-8HR	B-701A	BASE	4.02	0.870	3.039	5516.2
100YR-8HR	B-701B	BASE	4.00	0.904	5.161	5994.7
100YR-8HR	B-701C	BASE	4.00	10.560	6.694	74113.6
100YR-8HR	B-702	BASE	4.00	1.496	9.114	12241.6
100YR-8HR	B-703	BASE	4.00	1.253	9.114	10256.4
100YR-8HR	B-704	BASE	4.00	2.022	9.114	16542.6
100YR-8HR	B-705	BASE	4.00	1.860	9.114	15219.2
100YR-8HR	B-706	BASE	4.00	1.900	9.114	15550.1
100YR-8HR	B-707	BASE	4.00	1.779	9.114	14557.5
100YR-8HR	B-710A	BASE	4.00	6.638	5.350	44282.5
100YR-8HR	B-710B	BASE	4.00	0.651	5.171	4317.3
100YR-8HR	B-710C	BASE	4.00	0.229	5.238	1521.2
100YR-8HR	B-710D	BASE	4.02	1.352	5.019	8926.6
100YR-8HR	B-710E	BASE	4.00	2.458	5.806	16649.6
100YR-8HR	B-711	BASE	4.00	0.485	9.114	3970.2
100YR-8HR	B-712	BASE	4.00	1.941	9.114	15880.9
100YR-8HR	B-713	BASE	4.00	3.841	9.114	31431.0
100YR-8HR	B-714	BASE	4.00	0.485	9.114	3970.2
100YR-8HR	D1	BASE	4.02	10.985	3.279	69758.9
100YR-8HR	D1-S28	BASE	4.00	0.930	9.114	7609.6
100YR-8HR	D1-S30	BASE	4.00	1.739	9.114	14226.7
100YR-8HR	D1-S32	BASE	4.00	0.809	9.114	6617.1
100YR-8HR	D1-S34	BASE	4.00	1.375	9.114	11249.0
100YR-8HR	D1-S37	BASE	4.00	0.445	9.114	3639.4
100YR-8HR	D1-S39	BASE	4.00	2.426	9.114	19851.2
100YR-8HR	D2	BASE	4.00	6.650	7.326	48135.4
100YR-8HR	E2	BASE	4.04	4.026	2.531	25544.6
100YR-8HR	E2-S29	BASE	4.00	2.669	9.114	21836.3
100YR-8HR	E2-S31	BASE	4.00	0.687	9.114	5624.5
100YR-8HR	E2-S33	BASE	4.00	0.849	9.114	6947.9
100YR-8HR	E2-S35	BASE	4.00	0.647	9.114	5293.6
100YR-8HR	E2-S36	BASE	4.00	1.294	9.114	10587.3
100YR-8HR	E2-S40	BASE	4.00	2.709	9.114	22167.1
100YR-8HR	E2-S41	BASE	4.00	2.305	9.114	18858.6
100YR-8HR	E2-S43	BASE	4.00	0.930	9.114	7609.6
100YR-8HR	E2-S68	BASE	4.00	1.415	9.114	11579.9
100YR-8HR	E2-SDE4	BASE	4.00	1.092	9.114	8933.0
100YR-8HR	E4	BASE	4.00	5.944	9.114	48635.4
100YR-8HR	OFF-D	BASE	4.00	3.068	5.778	20763.2
100YR-8HR	OFF-E	BASE	4.00	3.450	6.757	24284.3

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	100YR-8HR	8.00	4.000	99.000	0.0021	0	4.42	19.714	0.00	0.000
D-1	BASE	100YR-8HR	36.00	4.249	5.350	0.0014	137869	4.06	27.479	0.00	0.000
D-2	BASE	100YR-8HR	13.29	4.253	5.350	0.0099	1336	4.00	6.650	4.22	10.205
E-2	BASE	100YR-8HR	4.42	5.108	9.770	-0.0093	59963	4.07	25.446	4.42	19.714
E-4	BASE	100YR-8HR	4.41	5.117	6.000	0.0097	37629	4.00	18.578	36.00	17.512
F-D	BASE	100YR-8HR	5.69	5.051	7.000	0.0023	19678	4.02	4.527	5.69	0.707
F-E	BASE	100YR-8HR	4.02	5.596	8.500	-0.0002	3995	4.00	3.898	4.02	3.890
GROUND	BASE	100YR-8HR	8.00	4.000	99.000	0.0008	0	4.04	29.549	0.00	0.000
N-701	BASE	100YR-8HR	4.03	6.724	6.935	-0.0004	8397	4.00	4.549	4.03	4.502
N-701A	BASE	100YR-8HR	4.05	5.225	6.856	-0.0004	5223	4.02	7.255	4.05	7.192
N-701B	BASE	100YR-8HR	4.05	5.217	7.077	0.0025	3760	4.02	2.142	4.11	2.208
N-701C	BASE	100YR-8HR	4.04	5.204	6.713	0.0016	6732	4.00	12.633	3.98	12.535
N-710A	BASE	100YR-8HR	4.05	7.640	7.584	-0.0006	15519	4.00	11.530	4.05	11.264
N-710B	BASE	100YR-8HR	4.09	6.661	6.988	-0.0007	9612	4.04	12.382	4.09	12.162
N-710C	BASE	100YR-8HR	4.06	5.986	6.758	-0.0025	1083	4.08	12.371	4.09	13.822
N-710D	BASE	100YR-8HR	4.07	5.984	7.289	0.0013	1997	4.06	2.614	4.12	1.254
N-710E	BASE	100YR-8HR	4.05	5.939	7.302	-0.0002	3244	4.03	3.647	4.05	3.645
N-FD1	BASE	100YR-8HR	4.07	5.494	99.000	0.0034	312	4.05	21.285	4.04	21.124
N-FD2	BASE	100YR-8HR	4.06	5.031	99.000	-0.0032	817	3.98	17.515	3.99	17.220
S-28	BASE	100YR-8HR	4.00	24.487	28.300	0.0055	227	4.00	0.930	3.98	0.929
S-29	BASE	100YR-8HR	4.00	25.860	28.000	0.0049	322	4.00	2.668	4.00	2.668
S-30	BASE	100YR-8HR	4.00	19.370	27.240	0.0032	275	4.00	2.668	3.99	2.668
S-31	BASE	100YR-8HR	4.01	20.452	28.290	0.0062	190	4.00	0.687	4.02	0.686
S-32	BASE	100YR-8HR	4.00	19.004	23.780	-0.0047	281	4.00	3.476	4.00	3.475
S-33	BASE	100YR-8HR	4.01	20.445	25.290	0.0029	460	4.00	4.203	4.00	4.200
S-34	BASE	100YR-8HR	4.00	14.465	22.010	0.0024	421	4.00	4.850	4.00	4.848
S-35	BASE	100YR-8HR	4.01	19.127	23.500	0.0074	242	4.00	4.847	4.00	4.845
S-36	BASE	100YR-8HR	4.00	18.361	21.430	0.0024	311	4.00	1.294	3.98	1.293
S-37	BASE	100YR-8HR	4.01	10.114	14.360	-0.0021	388	4.00	5.293	4.00	5.291
S-39	BASE	100YR-8HR	4.00	7.415	12.910	0.0045	273	4.00	7.715	4.00	7.714
S-40	BASE	100YR-8HR	4.01	6.939	13.420	0.0042	649	4.00	8.316	4.00	8.311
S-41	BASE	100YR-8HR	4.01	7.123	10.810	0.0039	507	4.00	4.320	4.01	4.315
S-43	BASE	100YR-8HR	4.01	7.160	10.300	-0.0025	337	4.00	2.019	4.03	2.019
S-68	BASE	100YR-8HR	4.00	5.694	9.110	0.0028	143	4.00	1.415	3.98	1.415
SD-E4	BASE	100YR-8HR	4.00	9.027	9.400	0.0021	182	4.00	1.092	4.00	1.092
SD-S43	BASE	100YR-8HR	4.01	7.221	9.820	-0.0020	284	4.00	1.092	4.02	1.090

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
D2D1	BASE	100YR-8HR	4.22	10.205	9.112	13.29	4.253	36.00	4.249
DISCH-D1	BASE	100YR-8HR	0.00	0.000	0.000	36.00	4.249	8.00	4.000
DISCH-E2	BASE	100YR-8HR	4.42	19.714	0.153	4.42	5.108	8.00	4.000
E4E2	BASE	100YR-8HR	36.00	17.512	13.472	4.41	5.117	4.42	5.108
OFF-D	BASE	100YR-8HR	0.00	0.000	0.000	5.69	5.051	13.29	4.253
OFF-E	BASE	100YR-8HR	4.02	3.890	-0.014	4.02	5.596	4.41	5.117
R701-701A	BASE	100YR-8HR	4.03	4.502	-0.010	4.03	6.724	4.03	5.245
R701A-701B	BASE	100YR-8HR	3.47	1.026	0.016	4.05	5.225	4.05	5.217
R701B-701C	BASE	100YR-8HR	4.11	2.208	0.309	4.05	5.217	4.04	5.204
R701C-FD	BASE	100YR-8HR	4.04	1.469	0.006	4.04	5.204	4.04	5.073
R710A-710B	BASE	100YR-8HR	4.05	11.264	-0.025	4.05	7.640	4.09	6.661
R710B-710C	BASE	100YR-8HR	4.09	12.162	-0.026	4.09	6.661	4.06	5.986
R710C-710D	BASE	100YR-8HR	4.10	1.348	-1.629	4.06	5.986	4.07	5.984
R710D-710E	BASE	100YR-8HR	4.12	1.254	0.021	4.07	5.984	4.05	5.939
R710E-FE	BASE	100YR-8HR	4.05	0.455	-0.001	4.05	5.939	4.05	5.836
RC1	BASE	100YR-8HR	4.06	12.451	-0.083	4.07	5.494	8.00	4.000
RC2	BASE	100YR-8HR	3.99	17.220	-0.828	4.06	5.031	8.00	4.000
S28S30	BASE	100YR-8HR	3.98	0.929	0.012	4.00	24.487	3.98	23.890
S29S33	BASE	100YR-8HR	4.00	2.668	-0.011	4.00	25.860	4.00	19.714
S30S32	BASE	100YR-8HR	3.99	2.668	-0.241	4.00	19.370	4.10	18.966
S31S33	BASE	100YR-8HR	4.02	0.686	0.147	4.01	20.452	4.01	20.445
S32S34	BASE	100YR-8HR	4.00	3.475	-0.026	4.00	19.004	4.00	13.836
S33S35	BASE	100YR-8HR	4.00	4.200	-0.014	4.01	20.445	4.00	18.610
S34S37	BASE	100YR-8HR	4.00	4.848	-0.016	4.00	14.465	4.00	9.493
S35E2	BASE	100YR-8HR	4.00	4.845	0.090	4.01	19.127	4.00	4.819
S36S40	BASE	100YR-8HR	3.98	1.293	-0.005	4.00	18.361	3.98	9.410
S37S39	BASE	100YR-8HR	4.00	5.291	-0.016	4.01	10.114	4.00	6.477
S39D1	BASE	100YR-8HR	4.00	7.714	-0.024	4.00	7.415	4.00	5.148
S40E2	BASE	100YR-8HR	4.00	8.311	-0.025	4.01	6.939	4.00	4.750
S41S40	BASE	100YR-8HR	4.01	4.315	-0.012	4.01	7.123	4.01	6.939
S43S41	BASE	100YR-8HR	4.03	2.019	-0.007	4.01	7.160	4.01	7.123
S68E2	BASE	100YR-8HR	3.98	1.415	0.036	4.00	5.694	4.42	5.108
SDE4S43_1	BASE	100YR-8HR	4.00	1.092	-0.005	4.00	9.027	3.99	7.997
SDE4S43_2	BASE	100YR-8HR	0.00	0.000	0.000	4.01	7.221	4.01	7.160
SDS43S43	BASE	100YR-8HR	4.02	1.090	-0.006	4.01	7.221	4.01	7.160
SFD1E4	BASE	100YR-8HR	4.01	8.758	-1.262	4.07	5.494	4.41	5.117
W701A-FD2	BASE	100YR-8HR	4.04	6.424	-0.018	4.05	5.225	4.06	5.031
W701C-FD2	BASE	100YR-8HR	3.98	11.096	0.042	4.04	5.204	4.06	5.031
W710C-FD1	BASE	100YR-8HR	4.06	12.493	-0.110	4.06	5.986	4.07	5.494
W710E-FD1	BASE	100YR-8HR	4.05	3.190	-0.008	4.05	5.939	4.07	5.494
WFD-FD2	BASE	100YR-8HR	5.69	0.707	0.011	5.69	5.051	4.06	5.031
WFE-FD1	BASE	100YR-8HR	0.00	0.000	0.000	4.02	5.596	4.07	5.494

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100-Year / 24-Hour Storm
FDOT Distribution

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100YR-24HR	B-701	BASE	12.00	0.416	5.895	12411.1
100YR-24HR	B-701A	BASE	12.00	0.350	5.768	10469.5
100YR-24HR	B-701B	BASE	12.00	0.331	8.535	9914.2
100YR-24HR	B-701C	BASE	12.00	3.683	10.344	114521.5
100YR-24HR	B-702	BASE	12.00	0.499	12.948	17390.8
100YR-24HR	B-703	BASE	12.00	0.418	12.948	14570.7
100YR-24HR	B-704	BASE	12.00	0.675	12.948	23501.1
100YR-24HR	B-705	BASE	12.00	0.621	12.948	21621.0
100YR-24HR	B-706	BASE	12.00	0.634	12.948	22091.0
100YR-24HR	B-707	BASE	12.00	0.594	12.948	20680.9
100YR-24HR	B-710A	BASE	12.00	2.411	8.766	72554.1
100YR-24HR	B-710B	BASE	12.00	0.238	8.548	7136.4
100YR-24HR	B-710C	BASE	12.00	0.083	8.630	2506.1
100YR-24HR	B-710D	BASE	12.00	0.497	8.360	14869.9
100YR-24HR	B-710E	BASE	12.00	0.880	9.313	26706.6
100YR-24HR	B-711	BASE	12.00	0.162	12.948	5640.3
100YR-24HR	B-712	BASE	12.00	0.648	12.948	22561.0
100YR-24HR	B-713	BASE	12.00	1.282	12.948	44652.0
100YR-24HR	B-714	BASE	12.00	0.162	12.948	5640.3
100YR-24HR	D1	BASE	12.00	4.357	6.100	129765.1
100YR-24HR	D1-S28	BASE	12.00	0.310	12.948	10810.5
100YR-24HR	D1-S30	BASE	12.00	0.580	12.948	20210.9
100YR-24HR	D1-S32	BASE	12.00	0.270	12.948	9400.4
100YR-24HR	D1-S34	BASE	12.00	0.459	12.948	15980.7
100YR-24HR	D1-S37	BASE	12.00	0.148	12.948	5170.2
100YR-24HR	D1-S39	BASE	12.00	0.809	12.948	28201.3
100YR-24HR	D2	BASE	12.00	2.284	11.051	72611.5
100YR-24HR	E2	BASE	12.02	1.684	5.047	50928.5
100YR-24HR	E2-S29	BASE	12.00	0.890	12.948	31021.4
100YR-24HR	E2-S31	BASE	12.00	0.229	12.948	7990.4
100YR-24HR	E2-S33	BASE	12.00	0.283	12.948	9870.4
100YR-24HR	E2-S35	BASE	12.00	0.216	12.948	7520.3
100YR-24HR	E2-S36	BASE	12.00	0.432	12.948	15040.7
100YR-24HR	E2-S40	BASE	12.00	0.904	12.948	31491.4
100YR-24HR	E2-S41	BASE	12.00	0.769	12.948	26791.2
100YR-24HR	E2-S43	BASE	12.00	0.310	12.948	10810.5
100YR-24HR	E2-S68	BASE	12.00	0.472	12.948	16450.7
100YR-24HR	E2-SDE4	BASE	12.00	0.364	12.948	12690.6
100YR-24HR	E4	BASE	12.00	1.983	12.948	69093.1
100YR-24HR	OFF-D	BASE	12.00	1.099	9.279	33347.3
100YR-24HR	OFF-E	BASE	12.00	1.201	10.416	37430.9

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	100YR-24HR	12.50	4.000	99.000	0.0013	0	15.16	3.232	0.00	0.000
D-1	BASE	100YR-24HR	24.27	5.019	5.350	0.0006	142624	2.33	12.402	24.27	0.479
D-2	BASE	100YR-24HR	24.27	5.016	5.350	-0.0230	7673	12.00	2.284	2.33	12.402
E-2	BASE	100YR-24HR	15.16	4.892	9.770	-0.0084	59017	0.62	15.999	15.16	3.232
E-4	BASE	100YR-24HR	15.16	4.892	6.000	0.0088	35052	11.83	2.318	0.62	15.999
F-D	BASE	100YR-24HR	15.03	5.061	7.000	0.0004	19776	12.00	1.599	15.03	0.924
F-E	BASE	100YR-24HR	12.01	5.546	8.500	-0.0005	2823	12.00	1.278	12.01	1.277
GROUND	BASE	100YR-24HR	24.00	4.000	99.000	-0.0006	0	12.08	14.810	0.00	0.000
N-701	BASE	100YR-24HR	12.03	6.580	6.935	-0.0014	5119	12.00	1.590	12.03	1.581
N-701A	BASE	100YR-24HR	12.03	5.112	6.856	-0.0005	3987	12.00	2.564	12.03	2.561
N-701B	BASE	100YR-24HR	12.02	5.108	7.077	-0.0004	3607	12.00	0.756	12.11	0.768
N-701C	BASE	100YR-24HR	12.01	5.101	6.713	0.0007	6510	12.00	4.435	12.01	4.430
N-710A	BASE	100YR-24HR	12.04	7.408	7.584	-0.0024	13309	12.00	4.044	12.04	4.003
N-710B	BASE	100YR-24HR	12.09	6.334	6.988	-0.0019	7266	12.03	4.400	12.08	4.367
N-710C	BASE	100YR-24HR	12.07	5.797	6.758	-0.0004	887	12.07	4.448	12.08	4.449
N-710D	BASE	100YR-24HR	12.06	5.803	7.289	-0.0007	1762	2.22	0.014	0.00	0.000
N-710E	BASE	100YR-24HR	12.02	5.843	7.302	-0.0003	3090	12.00	0.635	12.02	0.633
N-FD1	BASE	100YR-24HR	15.08	4.841	99.000	-0.0050	644	12.02	7.642	12.02	7.569
N-FD2	BASE	100YR-24HR	19.07	4.216	99.000	-0.0020	1482	12.02	6.227	12.05	6.168
S-28	BASE	100YR-24HR	12.00	24.274	28.300	-0.0020	207	11.98	0.310	11.95	0.310
S-29	BASE	100YR-24HR	11.98	25.463	28.000	-0.0042	302	11.98	0.890	11.98	0.890
S-30	BASE	100YR-24HR	11.99	18.973	27.240	-0.0035	251	11.98	0.890	11.99	0.891
S-31	BASE	100YR-24HR	12.01	19.911	28.290	-0.0017	188	11.98	0.229	12.00	0.229
S-32	BASE	100YR-24HR	12.01	18.530	23.780	-0.0027	270	11.99	1.160	11.98	1.160
S-33	BASE	100YR-24HR	12.01	19.901	25.290	-0.0028	442	12.00	1.403	11.99	1.403
S-34	BASE	100YR-24HR	12.00	13.976	22.010	-0.0029	384	11.98	1.619	12.00	1.619
S-35	BASE	100YR-24HR	12.01	18.521	23.500	-0.0074	237	11.99	1.618	12.01	1.619
S-36	BASE	100YR-24HR	11.98	18.105	21.430	-0.0025	276	11.98	0.432	11.98	0.432
S-37	BASE	100YR-24HR	12.01	9.596	14.360	-0.0024	349	12.00	1.767	11.98	1.766
S-39	BASE	100YR-24HR	12.00	6.746	12.910	-0.0043	260	11.98	2.576	11.99	2.576
S-40	BASE	100YR-24HR	12.00	6.235	13.420	-0.0040	612	11.98	2.779	11.99	2.778
S-41	BASE	100YR-24HR	12.00	6.561	10.810	-0.0033	472	12.00	1.443	11.98	1.443
S-43	BASE	100YR-24HR	12.00	6.638	10.300	-0.0020	293	11.98	0.675	12.00	0.674
S-68	BASE	100YR-24HR	11.99	5.424	9.110	-0.0033	138	11.98	0.472	11.96	0.472
SD-E4	BASE	100YR-24HR	12.00	8.857	9.400	-0.0018	169	11.98	0.364	12.00	0.364
SD-S43	BASE	100YR-24HR	11.97	6.898	9.820	-0.0013	253	12.00	0.364	11.97	0.364

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
D2D1	BASE	100YR-24HR	2.33	12.402	-9.253	24.27	5.016	24.27	5.019
DISCH-D1	BASE	100YR-24HR	24.27	0.479	0.008	24.27	5.019	12.50	4.000
DISCH-E2	BASE	100YR-24HR	15.16	3.232	-0.006	15.16	4.892	12.50	4.000
E4E2	BASE	100YR-24HR	0.62	15.999	12.906	15.16	4.892	15.16	4.892
OFF-D	BASE	100YR-24HR	0.00	0.000	0.000	15.03	5.061	24.27	5.016
OFF-E	BASE	100YR-24HR	12.01	1.277	-0.006	12.01	5.546	15.16	4.892
R701-701A	BASE	100YR-24HR	12.03	1.581	-0.004	12.03	6.580	12.03	5.125
R701A-701B	BASE	100YR-24HR	12.10	0.266	-0.002	12.03	5.112	12.02	5.108
R701B-701C	BASE	100YR-24HR	12.11	0.768	0.094	12.02	5.108	12.01	5.101
R701C-FD	BASE	100YR-24HR	12.01	0.500	-0.006	12.01	5.101	15.03	5.061
R710A-710B	BASE	100YR-24HR	12.04	4.003	-0.006	12.04	7.408	12.09	6.334
R710B-710C	BASE	100YR-24HR	12.08	4.367	0.005	12.09	6.334	12.07	5.797
R710C-710D	BASE	100YR-24HR	2.22	0.014	0.003	12.07	5.797	12.06	5.803
R710D-710E	BASE	100YR-24HR	0.00	0.000	-0.005	12.06	5.803	12.02	5.843
R710E-FE	BASE	100YR-24HR	12.02	0.077	-0.000	12.02	5.843	12.02	5.811
RC1	BASE	100YR-24HR	12.32	8.769	-0.060	15.08	4.841	24.00	4.000
RC2	BASE	100YR-24HR	12.05	6.168	-0.291	19.07	4.216	24.00	4.000
S28S30	BASE	100YR-24HR	11.95	0.310	-0.001	12.00	24.274	11.95	23.727
S29S33	BASE	100YR-24HR	11.98	0.890	-0.003	11.98	25.463	11.98	19.540
S30S32	BASE	100YR-24HR	11.99	0.891	-0.003	11.99	18.973	11.99	18.308
S31S33	BASE	100YR-24HR	12.00	0.229	0.017	12.01	19.911	12.01	19.901
S32S34	BASE	100YR-24HR	11.98	1.160	-0.003	12.01	18.530	11.98	13.652
S33S35	BASE	100YR-24HR	11.99	1.403	-0.003	12.01	19.901	11.99	18.345
S34S37	BASE	100YR-24HR	12.00	1.619	-0.004	12.00	13.976	12.00	9.288
S35E2	BASE	100YR-24HR	12.01	1.619	-0.086	12.01	18.521	12.01	4.687
S36S40	BASE	100YR-24HR	11.98	0.432	0.003	11.98	18.105	11.98	9.303
S37S39	BASE	100YR-24HR	11.98	1.766	-0.006	12.01	9.596	11.98	6.278
S39D1	BASE	100YR-24HR	11.99	2.576	-0.007	12.00	6.746	25.12	5.013
S40E2	BASE	100YR-24HR	11.99	2.778	-0.006	12.00	6.235	25.36	4.529
S41S40	BASE	100YR-24HR	11.98	1.443	-0.004	12.00	6.561	11.98	5.946
S43S41	BASE	100YR-24HR	12.00	0.674	-0.002	12.00	6.638	12.00	6.561
S68E2	BASE	100YR-24HR	11.96	0.472	-0.002	11.99	5.424	24.51	4.642
SDE4S43_1	BASE	100YR-24HR	12.00	0.364	-0.002	12.00	8.857	11.99	7.889
SDE4S43_2	BASE	100YR-24HR	0.00	0.000	0.000	11.97	6.898	12.00	6.638
SDS43S43	BASE	100YR-24HR	11.97	0.364	-0.001	11.97	6.898	11.97	6.507
SFD1E4	BASE	100YR-24HR	36.40	1.599	-1.503	15.08	4.841	15.16	4.892
W701A-FD2	BASE	100YR-24HR	12.03	2.297	-0.006	12.03	5.112	19.07	4.216
W701C-FD2	BASE	100YR-24HR	12.01	3.930	-0.013	12.01	5.101	19.07	4.216
W710C-FD1	BASE	100YR-24HR	12.07	5.176	-0.006	12.07	5.797	15.08	4.841
W710E-FD1	BASE	100YR-24HR	12.02	0.557	-0.001	12.02	5.843	15.08	4.841
WFD-FD2	BASE	100YR-24HR	15.03	0.924	0.003	15.03	5.061	19.07	4.216
WFE-FD1	BASE	100YR-24HR	0.00	0.000	0.000	12.01	5.546	15.08	4.841

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25-Year / 72-Hour Storm
SFWMD Distribution

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
25YR-72HR	B-701	BASE	60.02	2.303	6.329	13324.5
25YR-72HR	B-701A	BASE	60.02	1.952	6.198	11248.8
25YR-72HR	B-701B	BASE	60.02	1.656	9.043	10504.4
25YR-72HR	B-701C	BASE	60.02	17.602	10.883	120494.4
25YR-72HR	B-702	BASE	60.02	2.296	13.507	18141.8
25YR-72HR	B-703	BASE	60.02	1.924	13.507	15199.9
25YR-72HR	B-704	BASE	60.02	3.103	13.507	24516.0
25YR-72HR	B-705	BASE	60.02	2.854	13.507	22554.7
25YR-72HR	B-706	BASE	60.02	2.916	13.507	23045.0
25YR-72HR	B-707	BASE	60.02	2.730	13.507	21574.1
25YR-72HR	B-710A	BASE	60.02	11.999	9.279	76799.9
25YR-72HR	B-710B	BASE	60.02	1.191	9.056	7560.9
25YR-72HR	B-710C	BASE	60.02	0.417	9.140	2654.2
25YR-72HR	B-710D	BASE	60.02	2.502	8.864	15766.9
25YR-72HR	B-710E	BASE	60.02	4.311	9.836	28207.8
25YR-72HR	B-711	BASE	60.02	0.745	13.507	5883.8
25YR-72HR	B-712	BASE	60.02	2.978	13.507	23535.3
25YR-72HR	B-713	BASE	60.02	5.895	13.507	46580.3
25YR-72HR	B-714	BASE	60.02	0.745	13.507	5883.8
25YR-72HR	D1	BASE	60.02	23.893	6.541	139145.0
25YR-72HR	D1-S28	BASE	60.02	1.427	13.507	11277.3
25YR-72HR	D1-S30	BASE	60.02	2.668	13.507	21083.7
25YR-72HR	D1-S32	BASE	60.02	1.241	13.507	9806.4
25YR-72HR	D1-S34	BASE	60.02	2.110	13.507	16670.9
25YR-72HR	D1-S37	BASE	60.02	0.683	13.507	5393.5
25YR-72HR	D1-S39	BASE	60.02	3.723	13.507	29419.2
25YR-72HR	D2	BASE	60.02	10.759	11.599	76210.3
25YR-72HR	E2	BASE	60.02	9.758	5.449	54984.4
25YR-72HR	E2-S29	BASE	60.02	4.095	13.507	32361.1
25YR-72HR	E2-S31	BASE	60.02	1.055	13.507	8335.4
25YR-72HR	E2-S33	BASE	60.02	1.303	13.507	10296.7
25YR-72HR	E2-S35	BASE	60.02	0.993	13.507	7845.1
25YR-72HR	E2-S36	BASE	60.02	1.986	13.507	15690.2
25YR-72HR	E2-S40	BASE	60.02	4.157	13.507	32851.4
25YR-72HR	E2-S41	BASE	60.02	3.537	13.507	27948.2
25YR-72HR	E2-S43	BASE	60.02	1.427	13.507	11277.3
25YR-72HR	E2-S68	BASE	60.02	2.172	13.507	17161.2
25YR-72HR	E2-SDE4	BASE	60.02	1.675	13.507	13238.6
25YR-72HR	E4	BASE	60.02	9.122	13.507	72077.0
25YR-72HR	OFF-D	BASE	60.02	5.391	9.802	35226.4
25YR-72HR	OFF-E	BASE	60.02	5.732	10.956	39373.0

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	25YR-72HR	60.50	4.000	99.000	-0.0004	0	60.37	32.329	0.00	0.000
D-1	BASE	25YR-72HR	71.95	5.032	5.350	0.0027	142724	60.02	45.847	71.95	1.052
D-2	BASE	25YR-72HR	72.00	5.028	5.350	-0.0083	7774	60.02	10.752	60.02	10.341
E-2	BASE	25YR-72HR	60.37	5.229	9.770	-0.0074	60565	60.09	41.987	60.37	32.329
E-4	BASE	25YR-72HR	60.36	5.256	6.000	0.0079	38321	60.07	31.503	60.29	17.292
F-D	BASE	25YR-72HR	60.30	5.546	7.000	0.0047	24522	59.98	8.138	60.37	6.489
F-E	BASE	25YR-72HR	60.10	5.697	8.500	0.0016	6321	60.03	6.835	60.10	6.305
GROUND	BASE	25YR-72HR	72.00	4.000	99.000	0.0009	0	60.15	35.929	0.00	0.000
N-701	BASE	25YR-72HR	60.05	6.799	6.935	-0.0014	9455	60.02	7.695	60.06	7.540
N-701A	BASE	25YR-72HR	60.27	5.559	6.856	-0.0029	5734	60.04	12.316	60.07	11.016
N-701B	BASE	25YR-72HR	60.27	5.556	7.077	-0.0027	4230	60.03	3.975	59.96	2.976
N-701C	BASE	25YR-72HR	60.27	5.553	6.713	-0.0028	7671	60.00	20.342	60.07	18.552
N-710A	BASE	25YR-72HR	60.07	7.798	7.584	-0.0027	16968	60.02	19.492	60.07	18.497
N-710B	BASE	25YR-72HR	60.12	6.841	6.988	-0.0021	13593	60.06	20.349	60.12	19.196
N-710C	BASE	25YR-72HR	60.12	6.215	6.758	0.0045	1374	60.12	19.542	60.13	19.551
N-710D	BASE	25YR-72HR	60.12	6.212	7.289	0.0040	2295	59.97	4.795	60.13	4.016
N-710E	BASE	25YR-72HR	60.10	6.076	7.302	0.0019	3458	60.07	7.885	60.10	7.701
N-FD1	BASE	25YR-72HR	60.10	5.990	99.000	0.0099	127	60.01	27.448	60.05	26.966
N-FD2	BASE	25YR-72HR	60.28	5.531	99.000	-0.0099	446	60.19	28.814	60.22	21.317
S-28	BASE	25YR-72HR	60.03	24.612	28.300	0.0021	233	60.02	1.427	60.02	1.422
S-29	BASE	25YR-72HR	60.02	26.118	28.000	0.0037	305	60.02	4.094	60.02	4.082
S-30	BASE	25YR-72HR	60.03	19.627	27.240	0.0037	277	60.02	4.088	60.02	4.077
S-31	BASE	25YR-72HR	60.04	20.837	28.290	0.0046	153	60.02	1.054	60.05	1.043
S-32	BASE	25YR-72HR	60.04	19.325	23.780	0.0049	254	60.02	5.314	60.03	5.306
S-33	BASE	25YR-72HR	60.04	20.825	25.290	0.0046	355	60.03	6.416	60.04	6.397
S-34	BASE	25YR-72HR	60.04	14.774	22.010	0.0044	409	60.03	7.403	60.04	7.390
S-35	BASE	25YR-72HR	60.05	19.566	23.500	-0.0085	193	60.04	7.380	60.04	7.372
S-36	BASE	25YR-72HR	60.03	18.515	21.430	0.0024	319	60.02	1.985	60.02	1.977
S-37	BASE	25YR-72HR	60.05	10.443	14.360	0.0046	388	60.04	8.065	60.05	8.053
S-39	BASE	25YR-72HR	60.04	7.867	12.910	0.0055	252	60.03	11.732	60.04	11.722
S-40	BASE	25YR-72HR	60.05	7.410	13.420	0.0057	468	60.03	12.516	60.05	12.489
S-41	BASE	25YR-72HR	60.05	7.630	10.810	0.0040	396	60.03	6.487	60.07	6.479
S-43	BASE	25YR-72HR	60.05	7.660	10.300	0.0038	281	60.04	3.032	60.09	3.071
S-68	BASE	25YR-72HR	60.02	5.857	9.110	-0.0030	144	60.02	2.171	60.02	2.169
SD-E4	BASE	25YR-72HR	60.02	9.125	9.400	0.0017	190	60.02	1.675	60.02	1.673
SD-S43	BASE	25YR-72HR	60.06	7.696	9.820	0.0030	269	60.02	1.673	60.08	1.660

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
D2D1	BASE	25YR-72HR	60.02	10.341	-8.193	72.00	5.028	71.95	5.032
DISCH-D1	BASE	25YR-72HR	71.95	1.052	0.012	71.95	5.032	60.50	4.000
DISCH-E2	BASE	25YR-72HR	60.37	32.329	0.252	60.37	5.229	60.50	4.000
E4E2	BASE	25YR-72HR	60.29	17.292	12.242	60.36	5.256	60.37	5.229
OFF-D	BASE	25YR-72HR	0.00	0.000	0.000	60.30	5.546	72.00	5.028
OFF-E	BASE	25YR-72HR	60.10	11.411	0.124	60.10	5.697	60.36	5.256
R701-701A	BASE	25YR-72HR	60.06	7.540	-0.656	60.05	6.799	60.27	5.559
R701A-701B	BASE	25YR-72HR	60.12	1.736	-0.384	60.27	5.559	60.27	5.556
R701B-701C	BASE	25YR-72HR	59.96	2.976	0.203	60.27	5.556	60.27	5.553
R701C-FD	BASE	25YR-72HR	59.95	2.917	-0.117	60.27	5.553	60.30	5.546
R710A-710B	BASE	25YR-72HR	60.07	18.497	0.062	60.07	7.798	60.12	6.841
R710B-710C	BASE	25YR-72HR	60.12	19.196	0.112	60.12	6.841	60.12	6.215
R710C-710D	BASE	25YR-72HR	59.97	2.374	-1.421	60.12	6.215	60.12	6.212
R710D-710E	BASE	25YR-72HR	60.13	4.016	0.062	60.12	6.212	60.10	6.076
R710E-FE	BASE	25YR-72HR	60.10	1.315	0.013	60.10	6.076	60.10	5.872
RC1	BASE	25YR-72HR	60.08	14.958	0.090	60.10	5.990	72.00	4.000
RC2	BASE	25YR-72HR	60.22	21.317	-0.119	60.28	5.531	72.00	4.000
S28S30	BASE	25YR-72HR	60.02	1.422	0.006	60.03	24.612	60.02	23.986
S29S33	BASE	25YR-72HR	60.02	4.082	0.016	60.02	26.118	60.02	19.817
S30S32	BASE	25YR-72HR	60.02	4.077	-0.216	60.03	19.627	60.25	18.958
S31S33	BASE	25YR-72HR	60.05	1.043	0.004	60.04	20.837	60.04	20.825
S32S34	BASE	25YR-72HR	60.03	5.306	0.027	60.04	19.325	60.03	13.944
S33S35	BASE	25YR-72HR	60.04	6.397	0.024	60.04	20.825	60.04	18.775
S34S37	BASE	25YR-72HR	60.04	7.390	0.029	60.04	14.774	60.04	9.612
S35E2	BASE	25YR-72HR	60.04	7.372	-0.086	60.05	19.566	60.04	4.893
S36S40	BASE	25YR-72HR	60.02	1.977	0.008	60.03	18.515	60.02	9.471
S37S39	BASE	25YR-72HR	60.05	8.053	0.031	60.05	10.443	60.05	6.590
S39D1	BASE	25YR-72HR	60.04	11.722	0.044	60.04	7.867	60.04	5.310
S40E2	BASE	25YR-72HR	60.05	12.489	0.046	60.05	7.410	60.05	4.940
S41S40	BASE	25YR-72HR	60.07	6.479	0.025	60.05	7.630	60.05	7.410
S43S41	BASE	25YR-72HR	60.09	3.071	0.012	60.05	7.660	60.05	7.630
S68E2	BASE	25YR-72HR	60.02	2.169	0.038	60.02	5.857	60.37	5.229
SDE4S43_1	BASE	25YR-72HR	60.02	1.673	0.007	60.02	9.125	60.02	8.060
SDE4S43_2	BASE	25YR-72HR	0.00	0.000	0.000	60.06	7.696	60.05	7.660
SDS43S43	BASE	25YR-72HR	60.08	1.660	0.007	60.06	7.696	60.05	7.660
SFD1E4	BASE	25YR-72HR	59.97	12.373	-1.196	60.10	5.990	60.36	5.256
W701A-FD2	BASE	25YR-72HR	60.07	9.340	-1.744	60.27	5.559	60.28	5.531
W701C-FD2	BASE	25YR-72HR	60.07	15.993	-3.768	60.27	5.553	60.28	5.531
W710C-FD1	BASE	25YR-72HR	60.13	17.610	0.183	60.12	6.215	60.10	5.990
W710E-FD1	BASE	25YR-72HR	60.10	6.386	0.082	60.10	6.076	60.10	5.990
WFD-FD2	BASE	25YR-72HR	60.37	6.489	-2.112	60.30	5.546	60.28	5.531
WFE-FD1	BASE	25YR-72HR	0.00	0.000	-0.206	60.10	5.697	60.10	5.990

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	0.00	3.000	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.08	3.001	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.18	3.003	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.26	3.004	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.34	3.006	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.43	3.007	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.51	3.008	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.60	3.010	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.68	3.011	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.76	3.013	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.85	3.014	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	0.93	3.015	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.01	3.017	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.10	3.018	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.18	3.019	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.26	3.021	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.33	3.022	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.42	3.023	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.50	3.025	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.58	3.026	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.67	3.028	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.75	3.029	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.83	3.030	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	1.92	3.032	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.00	3.033	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.08	3.034	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.17	3.036	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.25	3.037	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.33	3.039	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.42	3.040	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.50	3.041	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.58	3.043	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.67	3.044	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.75	3.045	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.83	3.047	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	2.92	3.048	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.00	3.050	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.08	3.051	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.17	3.052	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.25	3.054	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.33	3.055	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.42	3.056	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.50	3.058	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.58	3.059	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.67	3.061	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.75	3.062	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.83	3.063	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	3.92	3.065	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	4.00	3.066	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.08	3.067	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.17	3.069	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.25	3.070	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.33	3.072	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.42	3.073	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.50	3.074	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.58	3.076	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.67	3.077	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.75	3.079	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.83	3.080	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	4.92	3.081	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.00	3.083	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.08	3.084	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.17	3.085	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.25	3.087	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.33	3.088	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.42	3.090	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.50	3.091	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.58	3.092	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.67	3.094	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.75	3.095	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.83	3.096	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	5.92	3.098	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.00	3.099	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.08	3.101	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.17	3.102	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.25	3.103	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.33	3.105	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.42	3.106	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.50	3.107	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.58	3.109	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.67	3.110	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.75	3.112	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.83	3.113	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	6.92	3.114	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.00	3.116	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.08	3.117	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.17	3.118	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.25	3.120	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.33	3.121	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.42	3.123	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.50	3.124	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.58	3.125	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.67	3.127	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.75	3.128	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.83	3.129	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	7.92	3.131	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	8.00	3.132	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.08	3.134	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.10	3.134	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.12	3.134	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.13	3.134	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.15	3.135	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.17	3.135	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.18	3.135	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.20	3.136	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.22	3.136	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.23	3.136	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.25	3.136	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.27	3.137	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.28	3.137	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.30	3.137	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.32	3.137	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.33	3.138	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.35	3.138	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.37	3.138	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.38	3.139	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.40	3.139	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.42	3.139	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.43	3.139	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.45	3.140	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.47	3.140	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.48	3.140	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.50	3.140	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.52	3.141	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.53	3.141	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.55	3.141	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.57	3.142	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.58	3.142	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.60	3.142	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.62	3.142	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.63	3.143	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.65	3.143	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.67	3.143	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.68	3.144	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.70	3.144	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.72	3.144	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.73	3.144	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.75	3.145	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.77	3.145	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.78	3.145	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.80	3.145	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.82	3.146	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.83	3.146	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.85	3.146	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	8.87	3.147	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.88	3.147	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.90	3.147	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.92	3.147	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.93	3.148	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.95	3.148	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.97	3.148	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	8.98	3.148	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.00	3.149	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.02	3.149	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.03	3.149	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.05	3.150	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.07	3.150	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.08	3.150	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.10	3.150	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.12	3.151	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.13	3.151	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.15	3.151	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.17	3.152	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.18	3.152	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.20	3.152	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.22	3.152	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.23	3.153	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.25	3.153	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.27	3.153	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.28	3.153	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.30	3.154	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.32	3.154	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.33	3.154	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.35	3.155	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.37	3.155	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.38	3.155	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.40	3.155	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.42	3.156	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.43	3.156	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.45	3.156	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.47	3.156	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.48	3.157	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.50	3.157	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.52	3.157	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.53	3.158	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.55	3.158	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.57	3.158	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.58	3.158	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.60	3.159	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.62	3.159	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.63	3.159	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.65	3.160	99.000	0	0.000	0.000	0.0	0.0

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	9.67	3.160	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.68	3.160	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.70	3.160	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.72	3.161	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.73	3.161	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.75	3.161	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.77	3.161	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.78	3.162	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.80	3.162	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.82	3.162	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.83	3.163	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.85	3.163	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.87	3.163	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.88	3.163	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.90	3.164	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.92	3.164	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.93	3.164	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.95	3.164	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.97	3.165	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	9.98	3.165	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.00	3.165	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.02	3.166	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.03	3.166	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.05	3.166	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.07	3.166	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.08	3.167	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.10	3.167	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.12	3.167	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.13	3.167	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.15	3.168	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.17	3.168	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.18	3.168	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.20	3.169	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.22	3.169	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.23	3.169	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.25	3.169	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.27	3.170	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.28	3.170	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.30	3.170	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.32	3.171	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.33	3.171	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.35	3.171	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.37	3.171	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.38	3.172	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.40	3.172	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.42	3.172	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.43	3.172	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.45	3.173	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	10.47	3.173	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.48	3.173	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.50	3.174	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.52	3.174	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.53	3.174	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.55	3.174	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.57	3.175	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.58	3.175	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.60	3.175	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.62	3.175	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.63	3.176	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.65	3.176	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.67	3.176	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.68	3.177	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.70	3.177	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.72	3.177	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.73	3.177	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.75	3.178	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.77	3.178	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.78	3.178	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.80	3.179	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.82	3.179	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.83	3.179	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.85	3.179	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.87	3.180	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.88	3.180	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.90	3.180	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.92	3.180	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.93	3.181	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.95	3.181	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.97	3.181	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	10.98	3.182	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.00	3.182	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.02	3.182	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.03	3.182	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.05	3.183	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.07	3.183	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.08	3.183	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.10	3.183	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.12	3.184	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.13	3.184	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.15	3.184	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.17	3.185	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.18	3.185	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.20	3.185	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.22	3.185	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.23	3.186	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.25	3.186	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	11.27	3.186	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.28	3.187	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.30	3.187	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.32	3.187	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.33	3.187	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.35	3.188	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.37	3.188	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.38	3.188	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.40	3.188	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.42	3.189	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.43	3.189	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.45	3.189	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.47	3.190	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.48	3.190	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.50	3.190	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.52	3.190	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.53	3.191	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.55	3.191	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.57	3.191	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.58	3.191	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.60	3.192	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.62	3.192	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.63	3.192	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.65	3.193	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.67	3.193	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.68	3.193	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.70	3.193	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.72	3.194	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.73	3.194	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.75	3.194	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.77	3.194	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.78	3.195	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.80	3.195	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.82	3.195	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.83	3.196	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.85	3.196	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.87	3.196	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.88	3.196	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.90	3.197	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.92	3.197	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.93	3.197	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.95	3.198	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.97	3.198	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	11.98	3.198	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.00	3.198	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.02	3.199	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.03	3.199	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.05	3.199	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	12.07	3.199	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.08	3.200	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.10	3.200	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.12	3.200	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.13	3.201	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.15	3.201	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.17	3.201	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.18	3.201	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.20	3.202	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.22	3.202	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.23	3.202	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.25	3.202	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.27	3.203	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.28	3.203	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.30	3.203	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.32	3.204	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.33	3.204	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.35	3.204	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.37	3.204	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.38	3.205	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.40	3.205	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.42	3.205	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.43	3.206	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.45	3.206	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.47	3.206	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.48	3.206	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.50	3.207	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.52	3.207	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.53	3.207	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.55	3.207	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.57	3.208	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.58	3.208	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.60	3.208	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.62	3.209	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.63	3.209	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.65	3.209	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.67	3.209	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.68	3.210	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.70	3.210	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.72	3.210	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.73	3.210	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.75	3.211	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.77	3.211	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.78	3.211	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.80	3.212	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.82	3.212	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.83	3.212	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.85	3.212	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	12.87	3.213	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.88	3.213	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.90	3.213	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.92	3.213	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.93	3.214	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.95	3.214	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.97	3.214	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	12.98	3.215	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.00	3.215	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.02	3.215	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.03	3.215	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.05	3.216	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.07	3.216	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.08	3.216	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.10	3.217	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.12	3.217	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.13	3.217	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.15	3.217	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.17	3.218	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.18	3.218	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.20	3.218	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.22	3.218	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.23	3.219	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.25	3.219	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.27	3.219	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.28	3.220	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.30	3.220	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.32	3.220	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.33	3.220	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.35	3.221	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.37	3.221	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.38	3.221	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.40	3.221	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.42	3.222	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.43	3.222	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.45	3.222	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.47	3.223	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.48	3.223	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.50	3.223	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.52	3.223	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.53	3.224	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.55	3.224	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.57	3.224	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.58	3.225	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.60	3.225	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.62	3.225	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.63	3.225	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.65	3.226	99.000	0	0.000	0.000	0.0	0.0

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	13.67	3.226	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.68	3.226	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.70	3.226	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.72	3.227	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.73	3.227	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.75	3.227	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.77	3.228	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.78	3.228	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.80	3.228	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.82	3.228	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.83	3.229	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.85	3.229	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.87	3.229	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.88	3.229	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.90	3.230	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.92	3.230	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.93	3.230	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.95	3.231	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.97	3.231	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	13.98	3.231	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.00	3.231	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.02	3.232	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.03	3.232	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.05	3.232	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.07	3.233	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.08	3.233	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.10	3.233	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.12	3.233	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.13	3.234	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.15	3.234	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.17	3.234	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.18	3.234	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.20	3.235	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.22	3.235	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.23	3.235	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.25	3.236	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.27	3.236	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.28	3.236	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.30	3.236	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.32	3.237	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.33	3.237	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.35	3.237	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.37	3.237	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.38	3.238	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.40	3.238	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.42	3.238	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.43	3.239	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.45	3.239	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	14.47	3.239	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.48	3.239	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.50	3.240	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.52	3.240	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.53	3.240	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.55	3.240	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.57	3.241	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.58	3.241	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.60	3.241	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.62	3.242	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.63	3.242	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.65	3.242	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.67	3.242	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.68	3.243	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.70	3.243	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.72	3.243	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.73	3.244	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.75	3.244	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.77	3.244	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.78	3.244	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.80	3.245	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.82	3.245	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.83	3.245	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.85	3.245	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.87	3.246	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.88	3.246	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.90	3.246	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.92	3.247	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.93	3.247	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.95	3.247	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.97	3.247	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	14.98	3.248	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.00	3.248	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.02	3.248	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.03	3.248	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.05	3.249	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.07	3.249	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.08	3.249	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.10	3.250	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.12	3.250	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.13	3.250	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.15	3.250	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.17	3.251	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.18	3.251	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.20	3.251	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.22	3.252	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.23	3.252	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.25	3.252	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	15.27	3.252	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.28	3.253	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.30	3.253	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.32	3.253	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.33	3.253	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.35	3.254	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.37	3.254	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.38	3.254	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.40	3.255	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.42	3.255	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.43	3.255	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.45	3.255	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.47	3.256	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.48	3.256	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.50	3.256	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.52	3.256	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.53	3.257	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.55	3.257	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.57	3.257	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.58	3.258	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.60	3.258	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.62	3.258	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.63	3.258	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.65	3.259	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.67	3.259	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.68	3.259	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.70	3.260	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.72	3.260	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.73	3.260	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.75	3.260	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.77	3.261	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.78	3.261	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.80	3.261	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.82	3.261	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.83	3.262	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.85	3.262	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.87	3.262	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.88	3.263	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.90	3.263	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.92	3.263	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.93	3.263	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.95	3.264	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.97	3.264	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	15.98	3.264	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.00	3.264	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.08	3.266	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.17	3.267	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.25	3.269	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	16.33	3.270	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.42	3.271	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.50	3.273	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.58	3.274	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.67	3.275	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.75	3.277	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.83	3.278	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	16.92	3.280	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.00	3.281	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.08	3.282	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.17	3.284	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.25	3.285	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.33	3.287	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.42	3.288	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.50	3.289	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.58	3.291	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.67	3.292	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.75	3.293	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.83	3.295	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	17.92	3.296	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.00	3.298	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.08	3.299	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.17	3.300	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.25	3.302	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.33	3.303	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.42	3.304	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.50	3.306	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.58	3.307	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.67	3.309	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.75	3.310	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.83	3.311	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	18.92	3.313	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.00	3.314	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.08	3.315	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.17	3.317	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.25	3.318	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.33	3.320	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.42	3.321	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.50	3.322	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.58	3.324	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.67	3.325	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.75	3.326	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.83	3.328	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	19.92	3.329	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.00	3.331	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.08	3.332	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.17	3.333	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.25	3.335	99.000	0	0.000	0.000	0.0	0.0

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	20.33	3.336	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.42	3.337	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.50	3.339	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.58	3.340	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.67	3.342	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.75	3.343	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.83	3.344	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	20.92	3.346	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.00	3.347	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.08	3.348	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.17	3.350	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.25	3.351	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.33	3.353	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.42	3.354	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.50	3.355	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.58	3.357	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.67	3.358	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.75	3.360	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.83	3.361	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	21.92	3.362	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.00	3.364	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.08	3.365	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.17	3.366	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.25	3.368	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.33	3.369	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.42	3.371	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.50	3.372	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.58	3.373	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.67	3.375	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.75	3.376	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.83	3.377	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	22.92	3.379	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.00	3.380	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.08	3.382	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.17	3.383	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.25	3.384	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.33	3.386	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.42	3.387	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.50	3.388	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.58	3.390	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.67	3.391	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.75	3.393	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.83	3.394	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	23.92	3.395	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	24.00	3.397	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	24.25	3.401	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	24.50	3.405	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	24.75	3.409	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	25.00	3.413	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	25.25	3.417	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	25.50	3.421	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	25.75	3.426	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	26.00	3.430	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	26.25	3.434	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	26.50	3.438	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	26.75	3.442	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	27.00	3.446	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	27.25	3.450	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	27.50	3.455	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	27.75	3.459	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	28.00	3.463	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	28.25	3.467	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	28.50	3.471	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	28.75	3.475	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	29.00	3.479	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	29.25	3.483	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	29.50	3.488	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	29.75	3.492	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	30.00	3.496	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	30.25	3.500	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	30.50	3.504	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	30.75	3.508	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	31.00	3.512	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	31.25	3.517	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	31.50	3.521	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	31.75	3.525	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	32.00	3.529	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	32.25	3.533	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	32.50	3.537	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	32.75	3.541	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	33.00	3.545	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	33.25	3.550	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	33.50	3.554	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	33.75	3.558	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	34.00	3.562	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	34.25	3.566	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	34.50	3.570	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	34.75	3.574	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	35.00	3.579	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	35.25	3.583	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	35.50	3.587	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	35.75	3.591	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	36.00	3.595	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	36.25	3.599	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	36.50	3.603	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	36.75	3.607	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	37.00	3.612	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	37.25	3.616	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	37.50	3.620	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	37.75	3.624	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	38.00	3.628	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	38.25	3.632	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	38.50	3.636	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	38.75	3.640	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	39.00	3.645	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	39.25	3.649	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	39.50	3.653	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	39.75	3.657	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	40.00	3.661	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	40.25	3.665	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	40.50	3.669	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	40.75	3.674	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	41.00	3.678	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	41.25	3.682	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	41.50	3.686	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	41.75	3.690	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	42.00	3.694	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	42.25	3.698	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	42.50	3.702	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	42.75	3.707	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	43.00	3.711	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	43.25	3.715	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	43.50	3.719	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	43.75	3.723	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	44.00	3.727	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	44.25	3.731	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	44.50	3.736	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	44.75	3.740	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	45.00	3.744	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	45.25	3.748	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	45.50	3.752	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	45.75	3.756	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	46.00	3.760	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	46.25	3.764	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	46.50	3.769	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	46.75	3.773	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	47.00	3.777	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	47.25	3.781	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	47.50	3.785	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	47.75	3.789	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	48.00	3.793	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	48.25	3.798	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	48.50	3.802	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	48.75	3.806	99.000	0	0.000	0.000	0.0	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	49.00	3.810	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	49.25	3.814	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	49.50	3.818	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	49.75	3.822	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	50.00	3.826	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	50.25	3.831	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	50.50	3.835	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	50.75	3.839	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	51.00	3.843	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	51.25	3.847	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	51.50	3.851	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	51.75	3.855	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	52.00	3.860	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	52.25	3.864	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	52.50	3.868	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	52.75	3.872	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	53.00	3.876	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	53.25	3.880	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	53.50	3.884	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	53.75	3.888	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	54.00	3.893	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	54.25	3.897	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	54.50	3.901	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	54.75	3.905	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	55.00	3.909	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	55.25	3.913	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	55.50	3.917	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	55.75	3.921	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	56.00	3.926	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	56.25	3.930	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	56.50	3.934	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	56.75	3.938	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	57.00	3.942	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	57.25	3.946	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	57.50	3.950	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	57.75	3.955	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	58.00	3.959	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	58.25	3.963	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	58.50	3.967	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	58.75	3.971	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	59.00	3.975	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	59.25	3.979	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	59.50	3.983	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	59.75	3.988	99.000	0	0.000	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	60.00	3.992	99.000	0	1.375	0.000	0.0	0.0
25YR-72HR	CANAL	BASE	60.25	3.996	99.000	0	29.535	0.000	0.3	0.0
25YR-72HR	CANAL	BASE	60.50	4.000	99.000	0	30.742	0.000	1.0	0.0
25YR-72HR	CANAL	BASE	60.75	4.000	99.000	0	23.042	0.000	1.5	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	61.00	4.000	99.000	0	14.990	0.000	1.9	0.0
25YR-72HR	CANAL	BASE	61.25	4.000	99.000	0	9.774	0.000	2.2	0.0
25YR-72HR	CANAL	BASE	61.50	4.000	99.000	0	6.532	0.000	2.3	0.0
25YR-72HR	CANAL	BASE	61.75	4.000	99.000	0	4.550	0.000	2.4	0.0
25YR-72HR	CANAL	BASE	62.00	4.000	99.000	0	3.267	0.000	2.5	0.0
25YR-72HR	CANAL	BASE	62.25	4.000	99.000	0	2.356	0.000	2.6	0.0
25YR-72HR	CANAL	BASE	62.50	4.000	99.000	0	1.590	0.000	2.6	0.0
25YR-72HR	CANAL	BASE	62.75	4.000	99.000	0	1.025	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	63.00	4.000	99.000	0	0.600	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	63.25	4.000	99.000	0	0.323	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	63.50	4.000	99.000	0	0.149	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	63.76	4.000	99.000	0	0.048	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	64.00	4.000	99.000	0	0.002	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	64.25	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	64.50	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	64.75	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	65.00	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	65.25	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	65.50	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	65.75	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	66.01	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	66.25	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	66.50	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	66.75	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	67.00	4.000	99.000	0	0.000	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	67.26	4.000	99.000	0	0.043	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	67.50	4.000	99.000	0	0.246	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	67.75	4.000	99.000	0	0.494	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	68.01	4.000	99.000	0	0.728	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	68.25	4.000	99.000	0	0.888	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	68.50	4.000	99.000	0	0.962	0.000	2.7	0.0
25YR-72HR	CANAL	BASE	68.75	4.000	99.000	0	0.992	0.000	2.8	0.0
25YR-72HR	CANAL	BASE	69.00	4.000	99.000	0	1.006	0.000	2.8	0.0
25YR-72HR	CANAL	BASE	69.25	4.000	99.000	0	1.014	0.000	2.8	0.0
25YR-72HR	CANAL	BASE	69.51	4.000	99.000	0	1.021	0.000	2.8	0.0
25YR-72HR	CANAL	BASE	69.76	4.000	99.000	0	1.025	0.000	2.8	0.0
25YR-72HR	CANAL	BASE	70.00	4.000	99.000	0	1.029	0.000	2.9	0.0
25YR-72HR	CANAL	BASE	70.25	4.000	99.000	0	1.032	0.000	2.9	0.0
25YR-72HR	CANAL	BASE	70.50	4.000	99.000	0	1.036	0.000	2.9	0.0
25YR-72HR	CANAL	BASE	70.75	4.000	99.000	0	1.038	0.000	2.9	0.0
25YR-72HR	CANAL	BASE	71.00	4.000	99.000	0	1.041	0.000	3.0	0.0
25YR-72HR	CANAL	BASE	71.25	4.000	99.000	0	1.043	0.000	3.0	0.0
25YR-72HR	CANAL	BASE	71.51	4.000	99.000	0	1.044	0.000	3.0	0.0
25YR-72HR	CANAL	BASE	71.76	4.000	99.000	0	1.045	0.000	3.0	0.0
25YR-72HR	CANAL	BASE	72.00	4.000	99.000	0	1.046	0.000	3.0	0.0
25YR-72HR	CANAL	BASE	72.25	3.990	99.000	0	0.978	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	72.50	3.979	99.000	0	0.787	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	72.75	3.969	99.000	0	0.617	0.000	3.1	0.0

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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	73.00	3.958	99.000	0	0.495	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	73.25	3.948	99.000	0	0.395	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	73.51	3.937	99.000	0	0.323	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	73.75	3.927	99.000	0	0.268	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	74.00	3.916	99.000	0	0.224	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	74.25	3.906	99.000	0	0.190	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	74.50	3.896	99.000	0	0.162	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	74.76	3.885	99.000	0	0.140	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	75.00	3.875	99.000	0	0.122	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	75.25	3.864	99.000	0	0.106	0.000	3.1	0.0
25YR-72HR	CANAL	BASE	75.51	3.854	99.000	0	0.093	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	75.75	3.844	99.000	0	0.083	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	76.00	3.833	99.000	0	0.074	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	76.25	3.823	99.000	0	0.066	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	76.50	3.812	99.000	0	0.059	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	76.76	3.802	99.000	0	0.053	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	77.00	3.792	99.000	0	0.048	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	77.25	3.781	99.000	0	0.044	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	77.51	3.771	99.000	0	0.040	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	77.75	3.760	99.000	0	0.037	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	78.01	3.750	99.000	0	0.034	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	78.25	3.740	99.000	0	0.031	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	78.50	3.729	99.000	0	0.029	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	78.76	3.719	99.000	0	0.026	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	79.00	3.708	99.000	0	0.024	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	79.25	3.698	99.000	0	0.023	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	79.50	3.687	99.000	0	0.021	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	79.75	3.677	99.000	0	0.020	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	80.01	3.666	99.000	0	0.018	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	80.25	3.656	99.000	0	0.017	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	80.50	3.646	99.000	0	0.016	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	80.76	3.635	99.000	0	0.015	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	81.00	3.625	99.000	0	0.014	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	81.25	3.614	99.000	0	0.014	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	81.50	3.604	99.000	0	0.013	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	81.75	3.594	99.000	0	0.012	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	82.00	3.583	99.000	0	0.012	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	82.25	3.573	99.000	0	0.010	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	82.50	3.562	99.000	0	0.010	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	82.75	3.552	99.000	0	0.009	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	83.01	3.541	99.000	0	0.009	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	83.25	3.531	99.000	0	0.008	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	83.50	3.521	99.000	0	0.008	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	83.75	3.510	99.000	0	0.007	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	84.00	3.500	99.000	0	0.007	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	84.25	3.489	99.000	0	0.006	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	84.50	3.479	99.000	0	0.007	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	84.75	3.469	99.000	0	0.006	0.000	3.2	0.0

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE TIME SERIES REPORT

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-72HR	CANAL	BASE	85.00	3.458	99.000	0	0.005	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	85.25	3.448	99.000	0	0.004	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	85.50	3.437	99.000	0	0.004	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	85.75	3.427	99.000	0	0.004	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	86.00	3.417	99.000	0	0.004	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	86.25	3.406	99.000	0	0.003	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	86.50	3.396	99.000	0	0.003	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	86.75	3.385	99.000	0	0.003	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	87.00	3.375	99.000	0	0.003	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	87.25	3.364	99.000	0	0.003	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	87.50	3.354	99.000	0	0.003	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	87.75	3.344	99.000	0	0.003	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	88.00	3.333	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	88.25	3.323	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	88.50	3.312	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	88.75	3.302	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	89.00	3.292	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	89.25	3.281	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	89.50	3.271	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	89.75	3.260	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	90.00	3.250	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	90.25	3.240	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	90.50	3.229	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	90.75	3.219	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	91.00	3.208	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	91.25	3.198	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	91.50	3.187	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	91.75	3.177	99.000	0	0.002	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	92.00	3.167	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	92.25	3.156	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	92.50	3.146	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	92.75	3.135	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	93.00	3.125	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	93.25	3.115	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	93.50	3.104	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	93.75	3.094	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	94.00	3.083	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	94.25	3.073	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	94.50	3.062	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	94.75	3.052	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	95.00	3.042	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	95.25	3.031	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	95.50	3.021	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	95.75	3.010	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	96.00	3.000	99.000	0	0.001	0.000	3.2	0.0
25YR-72HR	CANAL	BASE	96.00	3.000	99.000	0	0.001	0.000	3.2	0.0

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100-Year / 72-Hour Storm
SFWMD Distribution

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
BASIN MAXIMUM CONDITIONS

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100YR-72HR	B-701	BASE	60.02	2.963	8.335	17548.8
100YR-72HR	B-701A	BASE	60.02	2.519	8.186	14857.2
100YR-72HR	B-701B	BASE	60.02	2.031	11.346	13179.3
100YR-72HR	B-701C	BASE	60.02	21.115	13.307	147326.7
100YR-72HR	B-702	BASE	60.02	2.707	16.005	21496.0
100YR-72HR	B-703	BASE	60.02	2.268	16.005	18010.2
100YR-72HR	B-704	BASE	60.02	3.659	16.005	29048.6
100YR-72HR	B-705	BASE	60.02	3.366	16.005	26724.7
100YR-72HR	B-706	BASE	60.02	3.439	16.005	27305.7
100YR-72HR	B-707	BASE	60.02	3.220	16.005	25562.8
100YR-72HR	B-710A	BASE	60.02	14.669	11.601	96014.8
100YR-72HR	B-710B	BASE	60.02	1.461	11.360	9484.3
100YR-72HR	B-710C	BASE	60.02	0.511	11.450	3325.2
100YR-72HR	B-710D	BASE	60.02	3.077	11.152	19836.1
100YR-72HR	B-710E	BASE	60.02	5.232	12.199	34981.9
100YR-72HR	B-711	BASE	60.02	0.878	16.005	6971.7
100YR-72HR	B-712	BASE	60.02	3.512	16.005	27886.7
100YR-72HR	B-713	BASE	60.02	6.951	16.005	55192.4
100YR-72HR	B-714	BASE	60.02	0.878	16.005	6971.7
100YR-72HR	D1	BASE	60.02	30.598	8.577	182437.8
100YR-72HR	D1-S28	BASE	60.02	1.683	16.005	13362.4
100YR-72HR	D1-S30	BASE	60.02	3.146	16.005	24981.8
100YR-72HR	D1-S32	BASE	60.02	1.463	16.005	11619.5
100YR-72HR	D1-S34	BASE	60.02	2.488	16.005	19753.1
100YR-72HR	D1-S37	BASE	60.02	0.805	16.005	6390.7
100YR-72HR	D1-S39	BASE	60.02	4.390	16.005	34858.4
100YR-72HR	D2	BASE	60.02	12.821	14.054	92338.6
100YR-72HR	E2	BASE	60.02	12.821	7.324	73912.4
100YR-72HR	E2-S29	BASE	60.02	4.829	16.005	38344.2
100YR-72HR	E2-S31	BASE	60.02	1.244	16.005	9876.5
100YR-72HR	E2-S33	BASE	60.02	1.537	16.005	12200.4
100YR-72HR	E2-S35	BASE	60.02	1.171	16.005	9295.6
100YR-72HR	E2-S36	BASE	60.02	2.341	16.005	18591.1
100YR-72HR	E2-S40	BASE	60.02	4.902	16.005	38925.2
100YR-72HR	E2-S41	BASE	60.02	4.171	16.005	33115.4
100YR-72HR	E2-S43	BASE	60.02	1.683	16.005	13362.4
100YR-72HR	E2-S68	BASE	60.02	2.561	16.005	20334.0
100YR-72HR	E2-SDE4	BASE	60.02	1.976	16.005	15686.3
100YR-72HR	E4	BASE	60.02	10.756	16.005	85403.0
100YR-72HR	OFF-D	BASE	60.02	6.546	12.162	43707.0
100YR-72HR	OFF-E	BASE	60.02	6.871	13.383	48095.3

STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
NODE MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CANAL	BASE	100YR-72HR	60.50	4.000	99.000	0.0003	0	60.47	79.499	0.00	0.000
D-1	BASE	100YR-72HR	60.82	5.271	5.350	0.0002	144532	60.03	65.936	60.82	25.899
D-2	BASE	100YR-72HR	60.76	5.323	5.350	-0.0096	10131	60.07	24.285	60.06	21.723
E-2	BASE	100YR-72HR	60.22	5.544	9.770	-0.0079	61991	60.09	79.646	60.22	73.949
E-4	BASE	100YR-72HR	60.22	5.760	6.000	0.0083	40475	60.07	56.217	60.23	47.296
F-D	BASE	100YR-72HR	60.55	7.119	7.000	0.0002	55347	60.06	23.987	52.46	2.777
F-E	BASE	100YR-72HR	60.10	5.928	8.500	0.0002	11645	60.05	11.125	60.12	10.539
GROUND	BASE	100YR-72HR	72.00	4.000	99.000	0.0001	0	0.00	0.000	0.00	0.000
N-701	BASE	100YR-72HR	60.52	7.142	6.935	0.0001	14035	60.02	9.322	60.04	6.551
N-701A	BASE	100YR-72HR	60.53	7.136	6.856	0.0003	14523	60.03	12.476	52.46	3.578
N-701B	BASE	100YR-72HR	60.53	7.136	7.077	0.0002	12740	60.06	8.638	60.53	13.507
N-701C	BASE	100YR-72HR	60.53	7.134	6.713	0.0003	20661	60.05	30.691	52.46	6.339
N-710A	BASE	100YR-72HR	60.06	7.844	7.584	0.0002	17407	60.02	23.506	60.05	22.818
N-710B	BASE	100YR-72HR	60.11	6.941	6.988	0.0003	15064	60.05	25.108	60.11	23.816
N-710C	BASE	100YR-72HR	60.11	6.509	6.758	0.0004	2144	60.10	24.254	60.12	24.290
N-710D	BASE	100YR-72HR	60.11	6.506	7.289	0.0004	3734	60.06	6.636	60.12	6.358
N-710E	BASE	100YR-72HR	60.10	6.407	7.302	0.0002	4236	60.07	11.074	60.11	10.928
N-FD1	BASE	100YR-72HR	60.10	6.382	99.000	0.0012	127	59.79	11.119	59.79	11.070
N-FD2	BASE	100YR-72HR	60.54	7.397	99.000	-0.0096	113	52.46	11.618	0.00	0.000
S-28	BASE	100YR-72HR	60.02	24.670	28.300	0.0009	235	60.02	1.682	60.02	1.678
S-29	BASE	100YR-72HR	60.02	26.245	28.000	0.0025	287	60.02	4.827	60.02	4.814
S-30	BASE	100YR-72HR	60.03	19.754	27.240	0.0017	275	60.02	4.821	60.02	4.808
S-31	BASE	100YR-72HR	60.04	21.052	28.290	-0.0011	117	60.02	1.243	60.09	1.384
S-32	BASE	100YR-72HR	60.03	19.489	23.780	0.0008	206	60.02	6.267	60.03	6.260
S-33	BASE	100YR-72HR	60.04	21.028	25.290	0.0008	339	60.02	7.571	60.04	7.550
S-34	BASE	100YR-72HR	60.04	14.927	22.010	0.0012	384	60.03	8.734	60.04	8.721
S-35	BASE	100YR-72HR	60.05	19.830	23.500	0.0007	193	60.03	8.711	60.05	8.697
S-36	BASE	100YR-72HR	60.03	18.587	21.430	0.0012	320	60.02	2.340	60.03	2.331
S-37	BASE	100YR-72HR	60.05	10.608	14.360	0.0006	380	60.04	9.518	60.05	9.504
S-39	BASE	100YR-72HR	60.04	8.105	12.910	0.0023	225	60.03	13.847	60.04	13.837
S-40	BASE	100YR-72HR	60.04	7.667	13.420	0.0022	349	60.09	14.862	60.04	14.756
S-41	BASE	100YR-72HR	60.06	8.025	10.810	-0.0028	149	60.09	7.786	60.09	8.202
S-43	BASE	100YR-72HR	60.07	8.057	10.300	-0.0011	176	60.09	3.852	60.09	4.024
S-68	BASE	100YR-72HR	60.04	5.954	9.110	0.0014	139	60.02	2.560	60.02	2.550
SD-E4	BASE	100YR-72HR	60.02	9.170	9.400	0.0011	194	60.02	1.975	60.02	1.973
SD-S43	BASE	100YR-72HR	60.07	8.122	9.820	-0.0013	194	60.02	1.973	60.09	2.331

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STORMWATER MANAGEMENT REPORT
PRE-DEVELOPMENT CONDITIONS
LINK MAXIMUM CONDITIONS

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
D2D1	BASE	100YR-72HR	60.06	21.723	-7.746	60.76	5.323	60.82	5.271
DISCH-D1	BASE	100YR-72HR	60.82	25.899	0.011	60.82	5.271	60.50	4.000
DISCH-E2	BASE	100YR-72HR	60.22	73.949	0.019	60.22	5.544	60.50	4.000
E4E2	BASE	100YR-72HR	60.23	47.296	12.620	60.22	5.760	60.22	5.544
OFF-D	BASE	100YR-72HR	60.55	15.783	0.003	60.55	7.119	60.76	5.323
OFF-E	BASE	100YR-72HR	60.10	36.474	0.013	60.10	5.928	60.22	5.760
R701-701A	BASE	100YR-72HR	60.04	6.551	0.302	60.52	7.142	60.53	7.136
R701A-701B	BASE	100YR-72HR	60.09	5.895	0.608	60.53	7.136	60.53	7.136
R701B-701C	BASE	100YR-72HR	60.53	13.507	1.384	60.53	7.136	60.53	7.134
R701C-FD	BASE	100YR-72HR	60.08	17.751	0.223	60.53	7.134	60.55	7.119
R710A-710B	BASE	100YR-72HR	60.05	22.818	0.011	60.06	7.844	60.11	6.941
R710B-710C	BASE	100YR-72HR	60.11	23.816	0.030	60.11	6.941	60.11	6.509
R710C-710D	BASE	100YR-72HR	60.09	3.727	-0.110	60.11	6.509	60.11	6.506
R710D-710E	BASE	100YR-72HR	60.12	6.358	0.062	60.11	6.506	60.10	6.407
R710E-FE	BASE	100YR-72HR	60.10	4.573	0.002	60.10	6.407	60.10	5.963
RC1	BASE	100YR-72HR	0.00	0.000	0.000	0.00	0.000	0.00	0.000
RC2	BASE	100YR-72HR	0.00	0.000	0.000	0.00	0.000	0.00	0.000
S28S30	BASE	100YR-72HR	60.02	1.678	-0.001	60.02	24.670	60.02	24.030
S29S33	BASE	100YR-72HR	60.02	4.814	0.003	60.02	26.245	60.02	19.864
S30S32	BASE	100YR-72HR	60.02	4.808	-0.235	60.03	19.754	60.32	18.968
S31S33	BASE	100YR-72HR	60.09	1.384	0.194	60.04	21.052	60.04	21.028
S32S34	BASE	100YR-72HR	60.03	6.260	0.004	60.03	19.489	60.03	13.995
S33S35	BASE	100YR-72HR	60.04	7.550	0.004	60.04	21.028	60.04	18.858
S34S37	BASE	100YR-72HR	60.04	8.721	0.005	60.04	14.927	60.04	9.667
S35E2	BASE	100YR-72HR	60.05	8.697	0.082	60.05	19.830	60.05	4.928
S36S40	BASE	100YR-72HR	60.03	2.331	-0.003	60.03	18.587	60.03	9.498
S37S39	BASE	100YR-72HR	60.05	9.504	0.006	60.05	10.608	60.05	6.643
S39D1	BASE	100YR-72HR	60.04	13.837	0.008	60.04	8.105	60.04	5.388
S40E2	BASE	100YR-72HR	60.04	14.756	-0.011	60.04	7.667	60.04	5.037
S41S40	BASE	100YR-72HR	60.09	8.202	-0.797	60.06	8.025	60.04	7.667
S43S41	BASE	100YR-72HR	60.09	4.024	0.130	60.07	8.057	60.06	8.025
S68E2	BASE	100YR-72HR	60.02	2.550	0.042	60.04	5.954	60.22	5.544
SDE4S43_1	BASE	100YR-72HR	60.02	1.973	-0.004	60.02	9.170	60.02	8.089
SDE4S43_2	BASE	100YR-72HR	0.00	0.000	0.000	60.07	8.122	60.07	8.057
SDS43S43	BASE	100YR-72HR	60.09	2.331	0.303	60.07	8.122	60.07	8.057
SFD1E4	BASE	100YR-72HR	59.79	11.070	-1.187	60.10	6.382	60.22	5.760
W701A-FD2	BASE	100YR-72HR	52.46	2.973	3.088	60.53	7.136	60.54	7.397
W701C-FD2	BASE	100YR-72HR	52.46	5.868	6.186	60.53	7.134	60.54	7.397
W710C-FD1	BASE	100YR-72HR	60.13	20.636	0.006	60.11	6.509	60.10	6.382
W710E-FD1	BASE	100YR-72HR	60.12	6.377	0.003	60.10	6.407	60.10	6.382
WFD-FD2	BASE	100YR-72HR	52.46	2.777	3.022	60.55	7.119	60.54	7.397
WFE-FD1	BASE	100YR-72HR	0.00	0.000	-0.010	60.10	5.928	60.10	6.382

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

DRAINAGE AS-BUILT PLANS

FINANCIAL PROJECT ID 249581-1-52-01
(FEDERAL FUNDS)

MIAMI-DADE COUNTY (87260)

STATE ROAD NO. 826 (PALMETTO EXPRESSWAY)

SR-826/SR-836 INTERCHANGE

SECTION 5

SEGMENT 1

INDEX OF DRAINAGE AS-BUILT PLANS

SHEET NO.	SHEET DESCRIPTION
1-1	KEY SHEET
1-6	SUMMARY OF DRAINAGE STRUCTURES
1-7	OPTIONAL MATERIALS TABULATION
1-17 - 1-18	DRAINAGE PLANS
1-19 - 1-23D	DRAINAGE STRUCTURES
1-24	RETENTION PONDS DETAILS

R-13-W
R-12-W

T-12-S
T-13-S

END SEGMENT 1
BEGIN BRIDGE No. 16B
STA. 2011+77.13
℄ S.R. 826 NB

BEGIN PROJECT
BEGIN SEGMENT 1
STA. 341+22.00 ℄ S.R. 826
M.P. 6.064

PROJECT LENGTH IS BASED ON ℄ S.R. 826 NB & ℄ S.R. 826

N

0 1 2
MILES

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 7-1-09
For Design Standards Modifications click on
"Design Standards" at the following web site:
http://www.dot.state.fl.us/rddesign/

PLANS PREPARED BY:

AECT ENGINEERS

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

ARNELIO ALFONSO
LICENSE
No. 52566
STATE OF FLORIDA
PROFESSIONAL ENGINEER
8/19/14

DRAINAGE PLANS
ENGINEER OF RECORD: ARNELIO ALFONSO, P.E.

P.E. NO.: 52566

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	13,928.36	2.638
BRIDGES	687.07	0.130
NET LENGTH OF PROJECT	14,615.43	2.768
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJECT	14,615.43	2.768

KEY SHEET REVISIONS

DATE	DESCRIPTION

FDOT PROJECT MANAGER: ALI TOGHIANI, P.E.

FISCAL YEAR	SHEET NO.
9	1-1

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	SIZE (INCHES)	LENGTH (LF)	TRENCH DRAIN 12"	STORM DRAIN OPTIONAL TYPE 18"	STORM DRAIN OPTIONAL TYPE 24"	DOWN DRAIN OPTIONAL TYPE 18"	DOWN DRAIN OPTIONAL TYPE 24"	BARRIER WALL INLET BW1 <10	BARRIER WALL INLET BW1 >10	BARRIER WALL INLET ADJUST TOP	MEDIAN BARRIER WALL INLET TYPE 1 <10	MEDIAN BARRIER WALL INLET TYPE 2/ J BOT. <10	MEDIAN BARRIER WALL INLET TYPE 3/ J BOT. <10	MEDIAN BARRIER WALL INLET TYPE 3/ J BOT. >10	MANHOLES P-7 <10	MANHOLES J-7 <10	DBI TYPE G P <10	DBI TYPE G ADJUST TOP	U-TYPE ENDWALLS W/BAFFLES 1:2 24"	U-TYPE ENDWALLS W/BAFFLES 1:4 24"	SOD (SY)	REMARKS
P	SI-01	2000+70.71 (SR 826 NB)	LT	INLET - PIPE	1	18	104	25	104								1										155 397
F																											
P	SI-02	3001+50.00 (SR 826 SB)	RT	INLET - PIPE	1	18	25		25							1											
F																											
P	SI-03	2001+40.00 (SR 826 NB)	RT	INLET											1												
F																											
P	SI-04	2001+79.00 (SR 826 NB)	LT	PIPE - INLET - PIPE	2	12,18	115	37	97									1									155
F																											
P	SI-05	2002+80.00 (SR 826 NB)	LT	INLET - PIPE	1	18	96		96									1									
F																											
P	SI-06	2002+99.36 (SR 826 NB)	RT	INLET											1												
F																											
P	SI-07	2003+80.00 (SR 826 NB)	LT	INLET - PIPE	1	18	96		96									1									155
F																											
P	SI-08	3004+80.00 (SR 826 SB)	RT	INLET - PIPE	1	24	95			95									1								
F																											
P	SI-09	3004+80.00 (SR 826 SB)	LT	INLET - PIPE	1	24	12			12				1													
F																											
P	SI-10	3004+80.00 (SR 826 SB)	LT	EW																				1		17	W/ BAFFLES
F																											
P	SI-11	2004+99.50 (SR 826 NB)	RT	INLET - PIPE	1	18	6				6		1														
F																											
P	SI-12	3004+99.36 (SR 826 SB)	LT	INLET																			1				
F																											
P	SI-12A	2005+65.50 (SR 826 NB)	LT	INLET - PIPE	1	18	82		82									1									155
F																											
P	SI-12B	2006+45.50 (SR 826 NB)	LT	INLET - PIPE	1	18	76		76									1									
F																											
P	SI-12C	2007-50.00 (SR 826 NB)	LT	INLET - PIPE	1	18	101		101									1									
F																											
P	SI-13	3007+99.36 (SR 826 SB)	LT	INLET																			1				
F																											
P	SI-14	2008+40.00 (SR 826 NB)	RT	INLET - PIPE	1	18	96		96				1														155
F																											
P	SI-15	2008+40.00 (SR 826 NB)	LT	INLET - PIPE	1	24	95			95								1									
F																											
P	SI-16	2009+40.00 (SR 826 NB)	LT	INLET - PIPE	1	18	96		96									1									
F																											
P	SI-17	3008+40.00 (SR 826 SB)	LT	INLET - PIPE	1	24	19					19	1														
F																											
P	SI-18	3008+40.00 (SR 826 SB)	LT	EW																					1	21	W/ BAFFLES
F																											
P	SI-19	2011+40.60 (SR 826 NB)	RT	INLET - PIPE	1	18	104		104				1									539					
F																											
P	SI-20	2011+42.65 (SR 826 NB)	LT	MH - PIPE	1	18	197		197											1							
F																											
P	SI-21	3011+41.63 (SR 826 SB)	LT	INLET - PIPE	1	18	123		123				1														
F																											
P	SI-01A	2000+00.00 (SR 826 NB)	RT	INLET - PIPE	1	24	3			3												1					
F																											
P	SI-01B	2000+21.35 (SR 826 NB)	RT	MH - PIPE	1	24	22			22										1							389
F																											
P	SI-01C	2000+35.00 (SR 826 NB)	RT	PIPE - MH - PIPE	1	24	19			19										1							
F																											
P																											
F																											
P																											
F																											
P										155	389	397						155				155		389	539	539	389
F																											
SHEET TOTALS - UNIT QUANTITY																											
SHEET TOTALS - PLAN QUANTITY								62	1293	246	6	19	5	1	2	1	1	8	1	2	1	1	2	1	1	38	
SHEET TOTALS - FINAL QUANTITY																											
GRAND TOTALS - UNIT QUANTITY																											
GRAND TOTALS - PLAN QUANTITY								62	1293	246	6	19	5	1	2	1	1	8	1	2	1	1	2	1	1	38	
GRAND TOTALS - FINAL QUANTITY																											

ARNELIO ALFONSO LICENSE No. 52566 STATE OF FLORIDA PROFESSIONAL ENGINEER

AS-BUILT

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/12	155 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES	4/08/15	397 EXIST. TRENCH DRAIN AT SI-01 HAS BEEN ADJUSTED
3/27/15	389 ADJUSTED DRAINAGE DUE TO CONFLICT W/ DRILLED SHAFT OHC-1-1	7/20/16	539 AS-BUILT REVISION

ENGINEER OF RECORD:

APCT ENGINEERS
A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No.: EB-0007797
Arnelio Alfonso, P.E. No. 52566

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 1-6

GENERAL NOTES

1. The Contractor may use any of the optional pipe materials tabulated for a given structure. Only the material options tabulated for a given structure can be used.

2. Adjustment to the bid quantities, prices and payment will not be allowed due to increase or decrease in structure size, shape, length, width, depth or accessory construction necessary to accommodate the use of an optional pipe material other than the "plotted" option; likewise there will be no added or reduced compensation for structure alterations required to relieve utility conflicts which arise from the use of an optional material other than the "plotted" option.

3. Adjustment to the bid quantities, prices and payment will not be allowed due to increased or decreased excavation, bedding, borrow, backfilling, compaction, special installation requirements or disposal of excess materials due to use of any of the pipe optional materials. Likewise, adjustment in the quantities, prices and payment will not be allowed due to differences in end treatment size or types, pipe length, alternate jointing and connecting materials, saddles, cradles, filter fabrics, shoring or similar features due to the use of an optional material other than the "plotted" option.

4. If adjustments are required due to plan errors or omissions or authorized field changes, the "plotted" material and not the material elected by the Contractor would be used to establish new pay quantities.

5. The Contractor shall notify the Department in writing as to which optional pipe material he chooses to use at the preconstruction conference. Once identified the contactor may not change pipe material selected without the approval of the Engineer.

6. Pipe sizes other than round (Elliptical/Arch) are summarized and paid for using equivalent round pipe diameter.

STRUCTURE	SIZE (Inches)	MATERIAL	PLOTTED	AS BUILT	REMARKS
ALL	18"	RCP CLASS II	X		STORM DRAIN
		NRCP CLASS II			
		SRAP 16 GA.			
		SRASP 12 GA.			
		PVC (ASTM F-949)			
ALL	18"	CAP 16 GA.	X		DOWN DRAIN
		CASP 16 GA.			
ALL	24"	CAP 16 GA.	X		DOWN DRAIN
		CASP 16 GA.			
ALL	24"	RCP CLASS II	X		STORM DRAIN
		NRCP CLASS II			
		SRAP 16 GA.			
		SRASP 12 GA.			
		PVC (ASTM F-949)			

ARNELIO ALFONSO
LICENSE
No. 52566
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/29/11

AS-BUILT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007791
Arnelio Alfonso, P.E. No. 52566
ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

OPTIONAL MATERIALS TABULATION

SHEET NO. 1-7

BEGIN PROJECT
BEGIN SEGMENT 1
STA. 341+22.00 ℄ S.R. 826
BEGIN MILLING & RESURFACING

1" = 100'

SR 826 SB
340
SR 826 NB
345
350
EXIST. PIPE & INLET (TO REMAIN)
℄ SR 826
EXIST. PIPE & INLET (TO REMAIN)
EXIST. PIPE & INLET (TO REMAIN)
EXIST. TRENCH DRAIN (TO REMAIN)
MATCH LINE (SEE SHEET No.1-18)
SW 77TH CT.
SW 77TH AVE
C-4 CANAL
S.W 8th. ST.
FLORIDA BLVD.

ARNELIO ALFONSO
LICENSE
No. 52566
STATE OF FLORIDA
PROFESSIONAL ENGINEER
3/29/11

AS-BUILT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007197
Arnelio Alfonso, P.E. No. 52566
ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE PLANS

SHEET NO. 1-17

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/12	455 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES	4/08/15	397 EXIST. TRENCH DRAIN AT SI-01 HAS BEEN ADJUSTED
3/27/15	389 ADJUSTED DRAINAGE DUE TO CONFLICT W/ DRILLED SHAFT OHC-1-1	7/20/16	539 AS-BUILT REVISION

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 fax: (305) 593-1594
CA No. : EB-0007797
Arnelio Alfonso, P.E. No. 52566

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE PLANS

SHEET NO. 1-18

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/13	155 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		
4/08/15	397 EXIST. TRENCH DRAIN AT SI-01 HAS BEEN ADJUSTED		

ENGINEER OF RECORD:
A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7285 / fax: (305) 593-1594
CA No. : EB-0007797
Arnelio Alfonso, P.E. No. 52566
ACT ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-19

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
3/27/15	389 ADJUSTED DRAINAGE DUE TO CONFLICT W/ DRILLED SHAFT OHC-1-1		

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007797
Arnelio Alfonso, P.E. No. 52566

ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-19A

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
3/27/15	389 ADJUSTED DRAINAGE DUE TO CONFLICT W/ DRILLED SHAFT OHC-1-1		

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007797
Arnelio Alfonso, P.E. No. 52566

ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-19B

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/13	55 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. 1 EB-0007797
Arnelio Alfonso, P.E. No. 52566

AP CT ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-20

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/13	155 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007797
Arnelio Alfonso, P.E. No. 52566

ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-21

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/13	155 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		

ENGINEER OF RECORD:
A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7263 / fax: (305) 593-1594
CA No. : EB-0000797
Arnelio Alfonso, P.E. No. 52566

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-22

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/13	155 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		

ENGINEER OF RECORD:
A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No.: EB-0007797
Arnelio Alfonso, P.E. No. 52566

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-23

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/13	55 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
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CA No. : EB-0007797
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-23A

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
Cert. No. : EB-0007797
Arnelio Alfonso, P.E. No. 52566

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-23B

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/13	155 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		

ENGINEER OF RECORD:

ACT ENGINEERS

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 105
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No.: EB-0000791
Arnelio Alfonso, P.E. No. 52566

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-23C

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/13	155 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		
7/20/16	539 AS-BUILT REVISION		

ENGINEER OF RECORD:
A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007797
Arnelio Alfonso, P.E. No. 52566
ACT ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-23D

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AS-BUILT

ARNELIO ALFONSO LICENSE No. 52566 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/14/12	55 MODIFIED DRAINAGE DUE TO FUTURE MANAGED LANES		

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, suite 115
Miami, FL 33178
(305) 592-7283 / fax: (305) 593-1594
CA No. : EB-0007797
Arnelio Alfonso, P.E. No. 52566

ACT ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826/836	MIAMI-DADE	249581-1-52-01

RETENTION POND DETAILS
POND 7-1

SHEET NO. 1-24

malfonso 1/21/2013 9:42:12 AM P:\249581\5201-Section 5\Segment 1\Drainage\Managed Lane\PDPLRD01-01_ml.dgn

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

BEG. PERMIT NUMBER:

13-02339-P

APPLICATION NUMBER:

040322-13

- 13-02339-P -

FORM #0
Rev 3/85

APPLICATION/PERMIT FILE RECORD & ACTION SHEET

Name: SR 826 (Palmetto Expressway) & SR 90 (Tamiami Trail)

Permit No. 13-02339-P

Application No. 040322-13.

This file contains:

- ☐ ORIGINAL APPLICATION
- ☐ PERMIT
- ☐ SPECIAL CONDITION SHEET(S)
- ☐ STAFF CALCULATION SHEET(S)
- ☐ DRAWING(S)
- ☐ STAFF REPORT

Chronological Correspondence/Action Record

Date	Subject	By	Comments
7-8-04	Staff Report Mailed	GH	M. Yakhoury
1-14-04	Permit Issued		R. Peckstok

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE PERMIT NO. 13-02339-P
DATE ISSUED: JULY 14, 2004

FORM #0145
Rev 08/95

PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
(S.R 826 (PALMETTO EXPRESSWY) & S.R 90 (TAMIAMI TRA)
1000 NW 111TH AVENUE ROOM 610,
MIAMI, FL 33172

PROJECT DESCRIPTION: CONSTRUCTION AND OPERATION OF A SURFACE WATER MANAGEMENT SYSTEM TO SERVE IMPROVEMENTS TO 56.87 ACRES OF A ROADWAY PROJECT KNOWN AS S.R. 826 (PALMETTO EXPRESWAY) AND S.R. 90 (TAMIAMI TRAIL/S.W. 8TH. STREET) INTERCHANGE IMPROVEMENTS PROJECT.

PROJECT LOCATION: MIAMI-DADE COUNTY, SECTION 2, 3, 10, 11 TWP 54S RGE 40E

PERMIT DURATION: See Special Condition No:1. See attached Rule 40E-4.321, Florida Administrative Code.

This Permit is issued pursuant to Application No. 040322-13, dated March 18, 2004. Permittee agrees to hold and save the South Florida Water Management District and its successors harmless from any and all damages, claims or liabilities which may arise by reason of the construction, operation, maintenance or use of activities authorized by this Permit. This Permit is issued under the provisions of Chapter 373, Part IV Florida Statutes (F.S.), and the Operating Agreement Concerning Regulation Under Part IV, Chapter 373 F.S., between South Florida Water Management District and the Department of Environmental Protection. Issuance of this Permit constitutes certification of compliance with state water quality standards where neccessary pursuant to Section 401, Public Law 92-500, 33 USC Section 1341, unless this Permit is issued pursuant to the net improvement provisions of Subsections 373.414(1)(b), F.S., or as otherwise stated herein.

This Permit may be transferred pursuant to the appropriate provisions of Chapter 373, F.S, and Sections 40E-1.6107(1) and (2), and 40E-4.351(1), (2), and (4), Florida Administrative Code (F.A.C.). This Permit may be revoked, suspended, or modified at any time pursuant to the appropriate provisions of Chapter 373, F.S. and Sections 40E-4.351(1), (2), and (4), F.A.C.

This Permit shall be subject to the General Conditions set forth in Rule 40E-4.381, F.A.C., unless waived or modified by the Governing Board. The Application, and the Environmental Resource Permit Staff Review Summary of the Application, including all conditions, and all plans and specifications incorporated by reference, are a part of this Permit. All activities authorized by this Permit shall be implemented as set forth in the plans, specifications, and performance criteria as set forth and incorporated in the Environmental Resource Permit Staff Review Summary. Within 30 days after completion of construction of the permitted activity, the Permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual, pursuant to the appropriate provisions of Chapter 373, F.S. and Sections 40E-4.361 and 40E-4.381, F.A.C.

In the event the property is sold or otherwise conveyed, the Permittee will remain liable for compliance with this Permit until transfer is approved by the District pursuant to Rule 40E-1.6107, F.A.C.

SPECIAL AND GENERAL CONDITIONS ARE AS FOLLOWS:

SEE PAGES 2 - 4 OF 7 (15 SPECIAL CONDITIONS).
SEE PAGES 5 - 7 OF 7 (19 GENERAL CONDITIONS).

FILED WITH THE CLERK OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT

On ORIGINAL SIGNED BY:
By ELIZABETH VEGUILLA
DEPUTY CLERK

SOUTH FLORIDA WATER MANAGEMENT DISTRICT, BY ITS GOVERNING BOARD

ORIGINAL SIGNED BY:
By LORI OJALA
SECRETARY

SPECIAL CONDITIONS

The construction phase of this permit shall expire on July 15, 2009.

Operation of the surface water management system shall be the responsibility of FLORIDA DEPARTMENT OF TRANSPORTATION.

Discharge Facilities:

Basin: Basin A, Structure: Disch-A

116 LF of 1.5' dia. REINFORCED CONCRETE PIPE culvert.

Receiving body : Coral Gables Canal
Control elev : 3 feet NGVD.

Basin: Basin A, Structure: Disch-A1

1-3' WIDE DROP INLET weir with crest at elev. 5.2' NGVD.

Receiving body : Wet Pond in Basin A
Control elev : 3 feet NGVD.

Basin: Basin A, Structure: Disch-A2

1-3.08' WIDE DROP INLET weir with crest at elev. 5' NGVD.

Receiving body : Wet Pond in Basin A
Control elev : 3 feet NGVD.

Basin: Basin B, Structure: Disch-B

174 LF of 2' dia. REINFORCED CONCRETE PIPE culvert.

Receiving body : C-4 Canal
Control elev : 3 feet NGVD.

Basin: Basin B, Structure: Disch-B1

1-3.08' WIDE DROP INLET weir with crest at elev. 5' NGVD.

Receiving body : Wet Pond in Basin B
Control elev : 3 feet NGVD.

Basin: Basin B, Structure: Disch-B5

1-3.08' WIDE DROP INLET weir with crest at elev. 5.5' NGVD.

Receiving body : Wet Pond in Basin B
Control elev : 3 feet NGVD.

Basin: Basin D

1-3' WIDE DROP INLET weir with crest at elev. 5' NGVD.

Receiving body : C-4 Canal
Control elev : 3 feet NGVD.

Basin: Basin E, Structure: Disch-E1

1-6' WIDE DROP INLET weir with crest at elev. 4.8' NGVD.

Receiving body : C-4 Canal

Control elev : 3 feet NGVD.

Basin: Basin E, Structure: Disch-E2

1-6' WIDE DROP INLET weir with crest at elev. 4.8' NGVD.

Receiving body : C-4 Canal
Control elev : 3 feet NGVD.

4. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.

5. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.

6. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

7. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth, unless shown on the plans.

8. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.

9. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

10. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.

11. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.

12. Reference is made to Exhibit No. 2 through 4 consisting of drainage plans and detail sheets. The drawings have been signed and sealed by a Florida Professional Engineer and have been included in this permit by reference (please see permit file).

13. The permittee shall instruct all personnel associated with the project of the potential presence of manatees and the need to avoid collisions with manatees. All construction personnel are responsible for observing water-related activities for the presence of manatee(s).

The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, The Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act.

Siltation barriers shall be made of material in which manatees cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exist from essential habitat.

All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

If manatee(s) are seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment. Activities will not resume until the manatee(s) has departed the project area of its own volition.

Any collision with and/or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-561-562-3909) in south Florida.

Temporary signs concerning manatees shall be posted prior to and during all construction/dredging activities. All signs are to be removed by the permittee upon completion of the project. A sign measuring at least 3 ft. by 4 ft. which reads Caution: Manatee Area will be posted in a location prominently visible to water related construction crews. A second sign should be posted if vessels are associated with the construction, and should be placed visible to the vessel operator. The second sign should be at least 81/2" by 11" which reads Caution: Manatee Habitat. Idle speed is required if operating a vessel in the construction area. All equipment must be shutdown if a manatee comes within 50 feet of operation. Any collision with and/or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. The U.S. Fish and Wildlife Service should also be contacted in Jacksonville (1-904-232-2580) for north Florida or in Vero Beach (1-561-562-3909) for south Florida.

14. The permittee shall comply with applicable state water quality standards including:
a) 62-302.500 - Minimum criteria for all surface waters at all places and all times;
b) 52-302.510 - Surface waters: general criteria
c) 62-302.560 - Class III waters; recreation, propagation and maintenance of a healthy, well balanced population of fish and wildlife;
d) 62-302.600 - Classified waters.

15. The authorization for construction of the surface water management system is issued pursuant to the water quality net improvement provisions referenced in Rule Section 40E-4.303(1), Florida Administrative Code; therefore, the state water quality certification is waived.

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373. F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request

for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the

permit.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

40E-4.321 Duration of Permits

(1) Unless revoked or otherwise modified the duration of an environmental resource permit issued under this chapter or Chapter 40E-40, F.A.C. is as follows:

(a) For a conceptual approval, two years from the date of issuance or the date specified as a condition of the permit, unless within that period an application for an individual or standard general permit is filed for any portion of the project. If an application for an environmental resource permit is filed, then the conceptual approval remains valid until final action is taken on the environmental resource permit application. If the application is granted, then the conceptual approval is valid for an additional two years from the date of issuance of the permit. Conceptual approvals which have no individual or standard general environmental resource permit applications filed for a period of two years shall expire automatically at the end of the two year period.

(b) For a conceptual approval filed concurrently with a development of regional impact (DRI) application for development approval (ADA) and a local government comprehensive plan amendment, the duration of the conceptual approval shall be two years from whichever one of the following occurs at the latest date:

1. the effective date of the local government's comprehensive plan amendment.
2. the effective date of the local government development order.
3. the date on which the District issues the conceptual approval, or
4. the latest date of the resolution of any Chapter 120.57, F.A.C., administrative proceeding or other legal appeals.

(c) For an individual or standard general environmental resource permit, five years from the date of issuance or such amount of time as made a condition of the permit.

(d) For a noticed general permit issued pursuant to chapter 40-E-400, F.A.C., five years from the date the notice of intent to use the permit is provided to the District.

(2)(a) Unless prescribed by special permit condition, permits expire automatically according to the timeframes indicated in this rule. If application for extension is made in writing pursuant to subsection (3), the permit shall remain in full force and effect until:

1. the Governing Board takes action on an application for extension of an individual permit, or
2. staff takes action on an application for extension of a standard general permit.

(b) Installation of the project outfall structure shall not constitute a vesting of the permit.

(3) The permit extension shall be issued provided that a permittee files a written request with the District showing good cause prior to the expiration of the permit. For the purpose of this rule, good cause shall mean a set of extenuating circumstances outside of the control of the permittee. Requests for extensions, which shall include documentation of the extenuating circumstances and how they have delayed this project, will not be accepted more than 180 days prior to the expiration date.

(4) Substantial modifications to Conceptual Approvals will extend the duration of the Conceptual Approval for two years from the date of issuance of the modification. For the purposes of this section, the term "substantial modification" shall mean a modification which is reasonably expected to lead to substantially different water resource or environmental impacts which require a detailed review.

(5) Substantial modifications to individual or standard general environmental resource permits issued pursuant to a permit application extend the duration of the permit for three years from the date of issuance of the modification. Individual or standard general environmental resource permit modifications do not extend the duration of a conceptual approval.

(6) Permit modifications issued pursuant to subsection 40E-4.331(2)(b), F.A.C. (letter modifications) do not extend the duration of a permit.

(7) Failure to complete construction or alteration of the surface water management system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization in order to continue construction unless a permit extension is granted.

Specific authority 373.044, 373.113 F.S. Law implemented 373.413, 373.416, 373.419, 373.426 F.S. History—New 9-3-81, Amended 1-31-82, 12-1-82, Formerly 16K-4.07(4), Amended 7-1-86, 4/20/94, Amended 7-1-95, 4/20/94, 10-3-95

NOTICE OF RIGHTS

Section 120.569(1), Fla. Stat. (1999), requires that "each notice shall inform the recipient of any administrative hearing or judicial review that is available under this section, s. 120.57, or s. 120.68; shall indicate the procedure which must be followed to obtain the hearing or judicial review, and shall state the time limits which apply." Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

Petition for Administrative Proceedings

1. A person whose substantial interests are affected by the South Florida Water Management District's (SFWMD) action has the right to request an administrative hearing on that action. The affected person may request either a formal or an informal hearing, as set forth below. A point of entry into administrative proceedings is governed by Rules 28-106.111 and 40E-1.511, Fla. Admin. Code, (also published as an exception to the Uniform Rules of Procedure as Rule 40E-0.109), as set forth below. Petitions are deemed filed upon receipt of the original documents by the SFWMD Clerk.

a. Formal Administrative Hearing: If a genuine issue(s) of material fact is in dispute, the affected person seeking a formal hearing on a SFWMD decision which does or may determine their substantial interests shall file a petition for hearing pursuant to Sections 120.569 and 120.57(1), Fla. Stat. or for mediation pursuant to Section 120.573, Fla. Stat. within 21 days, except as provided in subsections c. and d. below, of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-106.201(2), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

b. Informal Administrative Hearing: If there are no issues of material fact in dispute, the affected person seeking an informal hearing on a SFWMD decision which does or may determine their substantial interests shall file a petition for hearing pursuant to Sections 120.569 and 120.57(2), Fla. Stat. or for mediation pursuant to Section 120.573, Fla. Stat. within 21 days, except as provided in subsections c. and d. below, of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-106 301(2), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

c. Administrative Complaint and Order: If a Respondent objects to a SFWMD Administrative Complaint and Order, pursuant to Section 373.119, Fla. Stat. (1997), the person named in the Administrative Complaint and Order may file a petition for a hearing no later than 14 days after the date such order is served. Petitions must substantially comply with the requirements of either subsection a. or b. above.

d. State Lands Environmental Resource Permit: Pursuant to Section 373.427, Fla. Stat., and Rule 40E-1.511(3), Fla. Admin. Code (also published as an exception to the Uniform Rules of Procedure as Rule 40E-0.109(2)(c)), a petition objecting to the SFWMD's agency action regarding consolidated applications for Environmental Resource Permits and Use of Sovereign Submerged Lands (SLERPs), must be filed within 14 days of the notice of consolidated intent to grant or deny the SLERP. Petitions must substantially comply with the requirements of either subsection a. or b. above.

e. Emergency Authorization and Order: A person whose substantial interests are affected by a SFWMD Emergency Authorization and Order, has a right to file a petition under Sections 120.569, 120.57(1), and 120.57(2), Fla. Stat., as provided in subsections a. and b. above. However, the person, or the agent of the person responsible for causing or contributing to the emergency conditions shall take whatever action necessary to cause immediate compliance with the terms of the Emergency Authorization and Order.

f. Order for Emergency Action: A person whose substantial interests are affected by a SFWMD Order for Emergency Action has a right to file a petition pursuant to Rules 28-107.005 and 40E-1.611, Fla. Admin. Code, copies of which are attached to this Notice of Rights, and Section 373.119(3), Fla. Stat., for a hearing on the Order. Any subsequent agency action or proposed agency action to initiate a formal revocation proceeding shall be separately noticed pursuant to section g. below.

g. Permit Suspension, Revocation, Annulment, and Withdrawal: If the SFWMD issues an administrative complaint to suspend, revoke, annul, or withdraw a permit, the permittee may request a hearing to be conducted in accordance with Sections 120.569 and 120.57, Fla. Stat., within 21 days of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-107.004(3), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

2. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the SFWMD's final action may be different from the position taken by it previously. Persons whose substantial interests may be affected by

any such final decision of the SFWMD shall have, pursuant to Rule 40E-1.511(2), Fla. Admin. Code (also published as an exception to the Uniform Rules of Procedure as Rule 40E-0.109(2)(c)), an additional 21 days from the date of receipt of notice of said decision to request an administrative hearing. However, the scope of the administrative hearing shall be limited to the substantial deviation.

3. Pursuant to Rule 40E-1.511(4), Fla. Admin. Code, substantially affected persons entitled to a hearing pursuant to Section 120.57(1), Fla. Stat., may waive their right to such a hearing and request an informal hearing before the Governing Board pursuant to Section 120.57(2). Fla. Stat., which may be granted at the option of the Governing Board.

4. Pursuant to Rule 28-106.111(3), Fla. Admin. Code, persons may file with the SFWMD a request for extension of time for filing a petition. The SFWMD, for good cause shown, may grant the extension. The request for extension must contain a certificate that the petitioner has consulted with all other parties, if any, concerning the extension and that the SFWMD and all other parties agree to the extension.

CIRCUIT COURT

5. Pursuant to Section 373.617, Fla. Stat., any substantially affected person who claims that final agency action of the SFWMD relating to permit decisions constitutes an unconstitutional taking of property without just compensation may seek judicial review of the action in circuit court by filing a civil action in the circuit court in the judicial circuit in which the affected property is located within 90 days of the rendering of the SFWMD's final agency action.

6. Pursuant to Section 403.412, Fla. Stat., any citizen of Florida may bring an action for injunctive relief against the SFWMD to compel the SFWMD to enforce the laws of Chapter 373, Fla. Stat., and Title 40E, Fla. Admin. Code. The complaining party must file with the SFWMD Clerk a verified complaint setting forth the facts upon which the complaint is based and the manner in which the complaining party is affected. If the SFWMD does not take appropriate action on the complaint within 30 days of receipt, the complaining party may then file a civil suit for injunctive relief in the 15th Judicial Circuit in and for Palm Beach County or circuit court in the county where the cause of action allegedly occurred.

7. Pursuant to Section 373.433, Fla. Stat., a private citizen of Florida may file suit in circuit court to require the abatement of any stormwater management system, dam, impoundment, reservoir, appurtenant work or works that violate the provisions of Chapter 373, Fla. Stat.

DISTRICT COURT OF APPEAL

8. Pursuant to Section 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

LAND AND WATER ADJUDICATORY COMMISSION

9. A party to a "proceeding below" may seek review by the Land and Water Adjudicatory Commission (FLAWAC) of SFWMD's final agency action to determine if such action is consistent with the provisions and purposes of Chapter 373, Fla. Stat. Pursuant to Section 373.114, Fla. Stat., and Rules 42-2.013 and 42-2.0132, Fla. Admin. Code, a request for review of (a) an order or rule of the SFWMD must be filed with FLAWAC within 20 days after rendition of the order or adoption of the rule sought to be reviewed; (b) an order of the Department of Environmental Protection (DEP) requiring amendment or repeal of a SFWMD rule must be filed with FLAWAC within 30 days of rendition of the DEP's order, and (c) a SFWMD order entered pursuant to a formal administrative hearing under Section 120.57(1), Fla. Stat., must be filed no later than 20 days after rendition of the SFWMD's final order. Simultaneous with filing, a copy of the request for review must be served on the DEP Secretary, any person named in the SFWMD or DEP final order, and all parties to the proceeding below. A copy of Rule 42-2.013, Fla. Admin. Code is attached to this Notice of Rights.

PRIVATE PROPERTY RIGHTS PROTECTION ACT

10. A property owner who alleges a specific action of the SFWMD has inordinately burdened an existing use of the real property, or a vested right to a specific use of the real property, may file a claim in the circuit court where the real property is located within 1 year of the SFWMD action pursuant to the procedures set forth in Subsection 70.001(4)(a), Fla. Stat.

LAND USE AND ENVIRONMENTAL DISPUTE RESOLUTION

11. A property owner who alleges that a SFWMD development order (as that term is defined in Section 70.51(2)(a), Fla. Stat. to include permits) or SFWMD enforcement action is unreasonable, or unfairly burdens the use of the real property, may file a request for relief with the SFWMD within 30 days of receipt of the SFWMD's order or notice of agency action pursuant to the procedures set forth in Subsections 70.51(4) and (6), Fla. Stat.

MEDIATION

12. A person whose substantial interests are, or may be, affected by the SFWMD's action may choose mediation as an alternative remedy under Section 120.573, Fla. Stat. Pursuant to Rule 28-106.111(2), Fla. Admin. Code, the petition for mediation shall be filed within 21 days of either written notice through mail or posting or

publication of notice that the SFWMD has or intends to take final agency action. Choosing mediation will not affect the right to an administrative hearing if mediation does not result in settlement.

Pursuant to Rule 28-106.402, Fla. Admin. Code, the contents of the petition for mediation shall contain the following information:

(1) the name, address, and telephone number of the person requesting mediation and that person's representative, if any;

(2) a statement of the preliminary agency action;

(3) an explanation of how the person's substantial interests will be affected by the agency determination; and

(4) a statement of relief sought.

As provided in Section 120.573, Fla. Stat. (1997), the timely agreement of all the parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, Fla. Stat., for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within 60 days of the execution of the agreement. If mediation results in settlement of the dispute, the SFWMD must enter a final order incorporating the agreement of the parties. Persons whose substantial interest will be affected by such a modified agency decision have a right to petition for hearing within 21 days of receipt of the final order in accordance with the requirements of Sections 120.569 and 120.57, Fla. Stat., and SFWMD Rule 28-106.201(2), Fla. Admin. Code. If mediation terminates without settlement of the dispute, the SFWMD shall notify all parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Fla. Stat., remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action.

VARIANCES AND WAIVERS

13. A person who is subject to regulation pursuant to a SFWMD rule and believes the application of that rule will create a substantial hardship or will violate principles of fairness (as those terms are defined in Subsection 120.542(2), Fla. Stat.) and can demonstrate that the purpose of the underlying statute will be or has been achieved by other means, may file a petition with the SFWMD Clerk requesting a variance from or waiver of the SFWMD rule. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have concerning the SFWMD's action. Pursuant to Rule 28-104.002(2), Fla. Admin. Code, the petition must include the following information:

(a) the caption shall read:
Petition for (Variance from) or (Waiver of) Rule (Citation)

(b) The name, address, telephone number and any facsimile number of the petitioner;

(c) The name, address telephone number and any facsimile number of the attorney or qualified representative of the petitioner, (if any);

(d) the applicable rule or portion of the rule;

(e) the citation to the statue the rule is implementing;

(f) the type of action requested;

(g) the specific facts that demonstrate a substantial hardship or violation of principals of fairness that would justify a waiver or variance for the petitioner;

(h) the reason why the variance or the waiver requested would serve the purposes of the underlying statute; and

(i) a statement of whether the variance or waiver is permanent or temporary, If the variance or waiver is temporary, the petition shall include the dates indicating the duration of the requested variance or waiver.

A person requesting an emergency variance from or waiver of a SFWMD rule must clearly so state in the caption of the petition. In addition to the requirements of Section 120.542(5), Fla. Stat. pursuant to Rule 28-104.004(2), Fla. Admin. Code, the petition must also include:

a) the specific facts that make the situation an emergency; and

b) the specific facts to show that the petitioner will suffer immediate adverse effect unless the variance or waiver is issued by the SFWMD more expeditiously than the applicable timeframes set forth in Section 120.542, Fla. Stat.

WAIVER OF RIGHTS

14. Failure to observe the relevant time frames prescribed above will constitute a waiver of such right.

28-106.201 INITIATION OF PROCEEDINGS
(INVOLVING DISPUTED ISSUES OF MATERIAL FACT)

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and

(f) A demand for relief.

28-106.301 INITIATION OF PROCEEDINGS
(NOT INVOLVING DISPUTED ISSUES OF MATERIAL FACT)

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and

(e) A demand for relief.

28-107.004 SUSPENSION, REVOCATION, ANNULMENT, OR WITHDRAWAL

(3) Requests for hearing filed in accordance with this rule shall include:

(a) The name and address of the party making the request, for purposes of service;

(b) A statement that the party is requesting a hearing involving disputed issues of material fact, or a hearing not involving disputed issues of material fact; and

(c) A reference to the notice, order to show cause, administrative complaint, or other communication that the party has received from the agency.

42-2.013 REQUEST FOR REVIEW PURSUANT TO SECTION 373.114 OR 373.217

(1) In any proceeding arising under Chapter 373, F.S., review by the Florida Land and Water Adjudicatory Commission may be initiated by the Department or a party by filing a request for such review with the Secretary of the Commission and serving a copy on any person named in the rule or order, and on all parties to the proceeding which resulted in the order sought to be reviewed. A certificate of service showing completion of service as required by this subsection shall be a requirement for a determination of sufficiency under Rule 42-2.0132. Failure to file the request with the Commission within the time period provided in Rule 42-2.0132 shall result in dismissal of the request for review.

(2) The request for review shall identify the rule or order requested to be reviewed, the proceeding in which the rule or order was entered and the nature of the rule or order. A copy of the rule or order sought to be reviewed shall be attached. The request for review shall state with particularity:

(a) How the order or rule conflicts with the requirements, provisions and purposes of Chapter 373, F.S., or rules duly adopted thereunder;

(b) How the rule or order sought to be reviewed affects the interests of the party seeking review;

(c) The oral or written statement, sworn or unsworn, which was submitted to the agency concerning the matter to be reviewed and the date and location of the statement, if the individual or entity requesting the review has not participated in a proceeding previously instituted pursuant to Chapter 120, F.S., on the order for which review is sought;

(d) If review of an order is being sought, whether and how the activity authorized by the order would substantially affect natural resources of statewide or regional significance, or whether the order raises issues of policy, statutory interpretation, or rule interpretation that have regional or statewide significance from a standpoint of agency precedent, and all the factual bases in the record which the petitioner claims support such determination(s); and

(e) The action requested to be taken by the Commission as a result of the review, whether to rescind or modify the order, or remand the proceeding to the water management district for further action, or to require the water management district to initiate rulemaking to adopt, amend or repeal a rule.

28-107.005 EMERGENCY ACTION

(1) If the agency finds that immediate serious danger to the public health, safety, or welfare requires emergency action, the agency shall summarily suspend, limit, or restrict a license.

(2) the 14-day notice requirement of Section 120.569(2)(b), F. S., does not apply and shall not be construed to prevent a hearing at the earliest time practicable upon request of an aggrieved party.

(3) Unless otherwise provided by law, within 20 days after emergency action taken pursuant to paragraph (1) of this rule, the agency shall initiate a formal suspension or revocation proceeding in compliance with Sections 120.569, 120.57. and 120.60, F.S.

40E-1.611 EMERGENCY ACTION

(1) An emergency exists when immediate action is necessary to protect public health, safety or welfare; the health of animals, fish or aquatic life; the works of the District; a public water supply, or recreational, commercial, industrial, agricultural or other reasonable uses of land and water resources.

(2) The Executive Director may employ the resources of the District to take whatever remedial action necessary to alleviate the emergency condition without the issuance of an emergency order, or in the event an emergency order has been issued, after the expiration of the requisite time for compliance with that order.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

July 8, 2004

Florida Department of Transportation
1000 NW 111th Avenue – Room 6101
Miami, FL 33172

Subject: Application No. 040322-13, **SR 826 (Palmetto Expressway) & SR 90 (Tamiami Trail/SW 8th)**
Miami-Dade County, S,2,3,10,11/T54S/R40E

Enclosed is a copy of the South Florida Water Management District's staff report covering the permit application referenced therein. It is requested that you read this staff report thoroughly and understand its contents. The recommendations as stated in the staff report will be presented to our Governing Board for consideration on **July 14, 2004.**

Should you wish to object to the staff recommendation or file a petition, please provide written objections, petitions and/or waivers (refer to the attached "Notice of Rights") to:

Elizabeth Veguilla, Deputy Clerk
South Florida Water Management District
Post Office Box 24680
West Palm Beach, Florida 33416-4680

The "Notice of Rights" addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. You are advised, however, to be prepared to defend your position regarding the permit application when it is considered by the Governing Board for final agency action, even if you agree with the staff recommendation, as the Governing Board may take final agency action which differs materially from the proposed agency action.

Please contact the District if you have any questions concerning this matter.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the addressee this 8th day of July, 2004 in accordance with Section 120.60 (3), Florida Statutes.

Sincerely,

Damon Meiers, P.E., Deputy Director
Environmental Resource Regulation Department

DM/gh

CERTIFIED # 7003 1010 0004 4768 3378
RETURN RECEIPT REQUESTED

GOVERNING BOARD

Nicolas J. Gutierrez, Jr., Esq., Chair
Pamela Brooks-Thomas, Vice Chair
Irela M. Bague
Michael Collins
Hugh M. English
Lennart E. Lindahl, P.E.
Kevin McCarty
Harkley R. Thornton
Trudi K. Williams, P.E.

EXECUTIVE OFFICE

Henry Dean, *Executive Director*

Last Date For Agency Action: 12-AUG-2004

INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: S.R 826 (Palmetto Expresswy) & S.R 90 (Tamiami Trail/Sw 8th)

Permit No.: 13-02339-P

Application No.: 040322-13

Application Type: Environmental Resource (New Construction/Operation)

Location: Miami-Dade County, S2, 3, 10, 11/T54S/R40E

Permittee : Florida Department Of Transportation

Operating Entity : Florida Department Of Transportation

Project Area: 56.87 acres

Project Land Use: Highway

Drainage Basin: AREA B

Receiving Body: C-4 Canal and Coral Gables Canal

Class: CLASS III

Special Drainage District: NA

Conservation Easement To District : No

Sovereign Submerged Lands: No

DRAFT
Subject to Governing
Board Approval

PROJECT PURPOSE:

This application is a request for an Environmental Resource Permit to authorize construction and operation of a surface water management system to serve improvements to 56.87 acres of a roadway project known as S.R. 826 (Palmetto Expresway) and S.R. 90 (Tamiami Trail/S.W. 8th. Street) Interchange Improvements Project. Staff recommends approval with conditions.

PROJECT EVALUATION:

PROJECT SITE DESCRIPTION:

The project encompasses 56.87 acres located within the S.R. 826 (Palmetto Expressway) and S.R. 90 (S.W. 8th. Street/Tamiami Trail) interchange. The project boundaries includes S.R. 826 from approximately 2400 feet south of S.R. 90 to approximately 2200 feet north of S.R. 90 and it includes S.R. 90 from approximtely 1000 feet west of S.R. 826 to approximtely 200 east of S.R. 826. The major receiving water bodies located within the project are the Coral Gables Canal (C-3 Canal) and the Tamiami Canal (C-4 Canal).

The existing drainage system can be best described by delineating the project area into four different quadrants; Quadrant A, Quadrant B, Quadrant D, and Quadrant E. Quadrant A is located on the southeast corner and it abuts Coral Gables Canal on the east. Although the quadrant includes dry and wet ponds, no water quality treatment is being provided since discharge is directed to the Coral Gables Canal without a detention mechanism. Quadrant B, the southwest quadrant, includes one dry detention pond and one wet pond however no water quality treatment is being provided since stormwater discharges directly into the C-4 Canal through an outfall pipe without any detention mechanism. Approximately 7.35 acres of offsite area from neighboring community contribute to this basin. Quadrant D, the northwest quadrant, receives runoff from S.R. 90 and S.R. 826 and a 2.82-acre offsite area. The receiving body for this quadrant is an borrow area which has an open connection to the C-4 Canal. Quadrant E, the northeast quadrant, is bordered by S.R. 90 to the south and S.R. 826 to the west. Runoff from S.R. 90 and S.R. 826 is directed through this quadrant and discharges directly to the C-4 Canal without water quality treatment.

PROPOSED PROJECT:

Proposed is the construction and operation of a surface water management system to serve proposed improvements to S.R. 90 (Tamiami Trail/SW 8th.) and S.R. 826 (Palmetto Expressway)interchange, in Miami-Dade County. The project is known as S.R. 826 (Palmetto Expressway) and S.R. 90 (Tamiami Trail/S.W 8th. Street) Interchange Improvements Project.

The proposed improvements include the following; widening of S.R. 826 mainline and S.R. 90, reconfiguration of on- and off-ramps from S.R. 826, construction of new S.R. 826 eastbound off ramp, construction of two new bridges along both sides of S.R. 826, widening of existing S.R. 90 bridge over the Coral Gables Canal, and the construction of a new stormwater management system which includes new control structures and reconfiguration of the existing wet ponds, dry ponds, and drainage swales. In addition, the proposed roadway improvements will require filling of an existing borrow pond located within Quadrant D.

The proposed surface water management system for the project has been designed as follows;

Runoff from quadrant A will be treated in two dry retention ponds prior to overflow into a wet pond (located within Quadrant A) via two proposed control structures. Discharge from the wet pond is to the Coral Gables Canal via an exisiting outfall pipe.

Runoff from Quadrant B will be treated within three dry retention ponds prior to overflow into a wet pond via proposed control structures. Discharge from the wet pond is to the C-4 Canal via an existing outfall pipe. In addition, runoff from offsite drainage areas discharging to this quadrant have been routed through the system.

Runoff from Quadrant D will be routed through one dry retention pond which will provide the required water quality treatment prior to overflow to the C-4 Canal via a proposed control structure. In addition,

addition, runoff from offsite drainage areas discharging to this quadrant have been routed through the system.

Runoff from Quadrant E will be routed to two separate dry retention ponds. Each will provide the required water quality treatment and then overflow via a proposed control structure to the C-4 Canal. In addition, runoff from offsite drainage areas discharging to this quadrant have been routed through the system.

To provide bleed-down mechanism, exfiltration trenches are proposed to be installed at the bottom of the dry retention ponds.

LAND USE:

Construction:
Project:

	This Phase	Total Project	
Impervious	36.33	36.33	acres
Pervious	20.54	20.54	acres
Total:	**56.87**	**56.87**	

WATER QUANTITY :

Discharge Rate :

The applicant's engineer has provided calculations to demonstrate that discharge from the project for the 25-year 3-day storm event in the post development condition does not exceed the discharge in the existing conditions.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD)	WSWT Ctrl Elev (ft, NGVD)	Method Of Determination
Basin A	18.87	3	3.00	Adjacent Canal Control Elevation
Basin B	13.72	3	3.00	Adjacent Canal Control Elevation
Basin D	11.13	3	3.00	Adjacent Canal Control Elevation
Basin E	13.15	3	3.00	Adjacent Canal Control Elevation

Receiving Body :

Basin	Str.#	Receiving Body
Basin A	Disch-A	Coral Gables Canal
Basin A	Disch-A1	Wet Pond in Basin A
Basin A	Disch-A2	Wet Pond in Basin A
Basin B	Disch-B	C-4 Canal
Basin B	Disch-B1	Wet Pond in Basin B
Basin B	Disch-B5	Wet Pond in Basin B

Receiving Body :

Basin	Str.#	Receiving Body
Basin D	Disch-D1	C-4 Canal
Basin E	Disch-E1	C-4 Canal
Basin E	Disch-E2	C-4 Canal

Discharge Structures: Note: The units for all the elevation values of structures are (ft, NGVD)

Culverts:

Basin	Str#	Count	Type	Width	Length	Dia.
Basin A	Disch-A	1	Reinforced Concrete Pipe		116'	1.5'
Basin B	Disch-B	1	Reinforced Concrete Pipe		174'	2'

Weirs:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Elev.
Basin D	Disch-D1	1	Drop Inlet	3'				5 (crest)
Basin E	Disch-E1	1	Drop Inlet	6'				4.8 (crest)
Basin E	Disch-E2	1	Drop Inlet	6'				4.8 (crest)

Water Quality Structures: Note: The units for all the elevation values of structures are (ft, NGVD)

Weirs:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Elev.
Basin A	Disch-A1	1	Drop Inlet	3'				5.2 (crest)
Basin A	Disch-A2	1	Drop Inlet	3.08'				5 (crest)
Basin B	Disch-B1	1	Drop Inlet	3.08'				5 (crest)
Basin B	Disch-B5	1	Drop Inlet	3.08'				5.5 (crest)

WATER QUALITY :

Water quality treatment consisting of 2.5 inches times the impervious area for the entire road right-of-way (except the offsite contributing areas) will be provided within dry retention ponds.

Basin	Treatment Method		Vol Req.d (ac-ft)	Vol Prov'd (ac-ft)
Basin A	Treatment	Dry Retention	2.65	2.9
Basin B	Treatment	Dry Retention	1.33	3.64
Basin D	Treatment	Dry Retention	1.21	3.21
Basin E	Treatment	Dry Retention	1.88	2

WETLANDS:

No wetland impacts are associated with this application.

Endangered Species:

The project site may be utilized by the West Indian manatee. This permit requires implementation of manatee protection provisions during project development. Additionally, culverts and outfall structures are designed to include manatee exclusion devices. This permit does not relieve the applicant from complying with all applicable rules and any other agencies' requirements if, in the future, endangered/threatened species or species of special concern are discovered on the site.

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

It is suggested that the permittee retain the services of a Professional Engineer registered in the State of Florida for periodic observation of construction of the surface water management (SWM) system. This will facilitate the completion of construction completion certification Form #0881 which is required pursuant to Section 10 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, and Rule 40E-4361(2), Florida Administrative Code (F.A.C.).

Pursuant to Chapter 40E-4 F.A.C., this permit may not be converted from the construction phase to the operation phase until certification of the SWM system is submitted to and accepted by this District. Rule 40E-4.321(7) F.A.C. states that failure to complete construction of the SWM system and obtain operation phase approval from tne District within the permit duration shall require a new permit authorization unless a permit extension is granted.

For SWM systems permitted with an operating entity who is different from the permittee, it should be noted that until the permit is transferred to the operating entity pursuant to Rule 40E-1.6107, F.A.C., the permittee is liable for compliance with the terms of this permit.

The permittee is advised that the efficiency of a SWM system will normally decrease over time unless the system is periodically maintained. A significant reduction in flow capacity can usually be attributed to partial blockages of the conveyance system. Once flow capacity is compromised, flooding of the project may result. Maintenance of the SWM system is required to protect the public health, safety and the natural resources of the state. Therefore, the permittee must have periodic inspections of the SWM system performed to ensure performance for flood protection and water quality purposes. If deficiencies are found, it is the responsibility of the permittee to correct these deficiencies in a timely manner.

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that dewatering is required for construction of this project. Application No. 040317-9 for proposed dewatering has been submitted to SFWMD Water Use Section and its review has been completed by District's staff. This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation, unless the work qualifies for a No-Notice Short-Term Dewatering permit pursuant to Chapter 40E-20.302(3) or is exempt pursuant to Section 40E-2.051, FAC.

Right-Of-Way Permit Status:

A Right-of-Way Permit is required for this project. An application to modify SFWMD Right-of-way permit No. 693 has been deemed complete by District's staff.

DRI Status:

This project is not a DRI.

Historical/Archeological Resources:

The District has received correspondence from the Florida Department of State, Division of Historical Resources indicating that the agency has no objections to the issuance of this permit.

DCA/CZM Consistency Review:

The District has not received a finding of inconsistency from the Florida Department of Environmental Protection or other commenting agencies regarding the provisions of the federal Coastal Zone Management Plan.

Third Party Interest:

No third party has contacted the District with concerns about this application.

Enforcement:

There has been no enforcement activity associated with this application.

STAFF RECOMMENDATION:

The Staff recommends that the following be issued :

Construction and operation of a surface water management system to serve improvements to 56.87 acres of a roadway project known as S.R. 826 (Palmetto Expresway) and S.R. 90 (Tamiami Trail/S.W. 8th. Street) Interchange Improvements Project.

Based on the information provided, District rules have been adhered to.

Staff recommendation is for approval subject to the attached General and Special Conditions.

DRAFT
Subject to Governing Board Approval

STAFF REVIEW:

NATURAL RESOURCE MANAGEMENT DIVISION APPROVAL

ENVIRONMENTAL EVALUATION

Ronald M. Peekstok

SUPERVISOR

for Edward Cronyn

DIVISION DIRECTOR :

Robert G. Robbins

DATE: July 6, 2004

SURFACE WATER MANAGEMENT DIVISION APPROVAL

ENGINEERING EVALUATION

Marwan Fakhoury, P.E.

SUPERVISOR

Carlos A. DeRojas, P.E.

DIVISION DIRECTOR :

Anthony M. Waterhouse, P.E.

DATE: 7/7/04

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373. F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity

approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

GENERAL CONDITIONS

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on July 15, 2009.
2. Operation of the surface water management system shall be the responsibility of FLORIDA DEPARTMENT OF TRANSPORTATION.
3. Discharge Facilities:

Basin: Basin A, Structure: Disch-A

116 LF of 1.5' dia. REINFORCED CONCRETE PIPE culvert.

Receiving body : Coral Gables Canal
Control elev : 3 feet NGVD.

Basin: Basin A, Structure: Disch-A1

1-3' WIDE DROP INLET weir with crest at elev. 5.2' NGVD.

Receiving body : Wet Pond in Basin A
Control elev : 3 feet NGVD.

Basin: Basin A, Structure: Disch-A2

1-3.08' WIDE DROP INLET weir with crest at elev. 5' NGVD.

Receiving body : Wet Pond in Basin A
Control elev : 3 feet NGVD.

Basin: Basin B, Structure: Disch-B

174 LF of 2' dia. REINFORCED CONCRETE PIPE culvert.

Receiving body : C-4 Canal
Control elev : 3 feet NGVD.

Basin: Basin B, Structure: Disch-B1

1-3.08' WIDE DROP INLET weir with crest at elev. 5' NGVD.

Receiving body : Wet Pond in Basin B
Control elev : 3 feet NGVD.

Basin: Basin B, Structure: Disch-B5

1-3.08' WIDE DROP INLET weir with crest at elev. 5.5' NGVD.

Receiving body : Wet Pond in Basin B
Control elev : 3 feet NGVD.

Basin: Basin D

1-3' WIDE DROP INLET weir with crest at elev. 5' NGVD.

Receiving body : C-4 Canal
Control elev : 3 feet NGVD.

SPECIAL CONDITIONS

Basin: Basin E, Structure: Disch-E1

1-6' WIDE DROP INLET weir with crest at elev. 4.8' NGVD.

Receiving body : C-4 Canal
Control elev : 3 feet NGVD.

Basin: Basin E, Structure: Disch-E2

1-6' WIDE DROP INLET weir with crest at elev. 4.8' NGVD.

Receiving body : C-4 Canal
Control elev : 3 feet NGVD.

4. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.

5. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.

6. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

7. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth, unless shown on the plans.

8. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.

9. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

10. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.

11. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.

12. Reference is made to Exhibit No. 2 through 4 consisting of drainage plans and detail sheets. The drawings have been signed and sealed by a Florida Professional Engineer and have been included in this permit by reference (please see permit file).

13. The permittee shall instruct all personnel associated with the project of the potential presence of manatees and the need to avoid collisions with manatees. All construction personnel are responsible for observing water-related activities for the presence of manatee(s).

    The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, The Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act.

SPECIAL CONDITIONS

Siltation barriers shall be made of material in which manatees cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exist from essential habitat.

All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

If manatee(s) are seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment. Activities will not resume until the manatee(s) has departed the project area of its own volition.

Any collision with and/or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-561-562-3909) in south Florida.

Temporary signs concerning manatees shall be posted prior to and during all construction/dredging activities. All signs are to be removed by the permittee upon completion of the project. A sign measuring at least 3 ft. by 4 ft. which reads Caution: Manatee Area will be posted in a location prominently visible to water related construction crews. A second sign should be posted if vessels are associated with the construction, and should be placed visible to the vessel operator. The second sign should be at least 81/2" by 11" which reads Caution: Manatee Habitat. Idle speed is required if operating a vessel in the construction area. All equipment must be shutdown if a manatee comes within 50 feet of operation. Any collision with and/or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. The U.S. Fish and Wildlife Service should also be contacted in Jacksonville (1-904-232-2580) for north Florida or in Vero Beach (1-561-562-3909) for south Florida.

13. The permittee shall comply with applicable state water quality standards including:
    a)62-302.500 - Minimum criteria for all surface waters at all places and all times;
    b)52-302.510 - Surface waters: general criteria
    c)62-302.560 - Class III waters; recreation, propagation and maintenance of a healthy, well balanced population of fish and wildlife;
    d)62-302.600 - Classified waters.

14. The authorization for construction of the surface water management system is issued pursuant to the water quality net improvement provisions referenced in Rule Section 40E-4.303(1), Florida Administrative Code; therefore, the state water quality certification is waived.

EXHIBIT 1

CORRADINO

4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 5 4-0755
Certificate Of Authorization No. 00007665
E.O.R. Gorky F. Charpentier, P.E. No. 47523

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

FIGURE 1-1
PROJECT LOCATION MAP

STAFF REPORT DISTRIBUTION LIST

S.R 826 (PALMETTO EXPRESSWY) & S.R 90 (TAMIAMI TRAIL/SW 8TH)

Application No: 040322-13

Permit No: 13-02339-P

INTERNAL DISTRIBUTION

X Marwan Fakhoury, P.E. - 4220
X Ronald M. Peekstok - 4250
X Carlos A. DeRojas, P.E. - 4220
X Edward Cronyn - 4250
X A. Waterhouse - 4220
X ERC Environmental - 4230
X ERC Environmental - 4230
X H. Wheelock - 6820
X J. Golden - 4210
X Miami-Dade Service Center - 6820
X Permit File
X R. Robbins - 4250

GOVERNING BOARD MEMBERS

- Mr. Harkley R. Thornton
- Mr. Hugh English
- Mr. Kevin McCarty
- Mr. Lennart Lindahl
- Mr. Michael Collins
- Mr. Nicolas Gutierrez, Jr.
- Ms. Irela Bague
- Ms. Pamela Brooks-Thomas
- Ms. Trudi Williams

EXTERNAL DISTRIBUTION

X Permittee - Florida Department Of Transportation

GOVERNMENT AGENCIES

X Div of Recreation and Park - District 5 - FDEP
X Florida Fish & Wildlife Conservation Commission - Bureau of Protected Species Mgmt
X Miami-Dade County - DERM (Harvey Kottke, PE)
X Miami-Dade County - DERM (Manny Tobon, PE, PLS)
X Miami-Dade County Engineer Public Works Department

OTHER INTERESTED PARTIES

X Water Management Institute - Michael N. Vanatta

p_staff_route_sheet

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
STAFF REPORT ROUTE SHEET

PP TYPE: IND ENVIRONMENTAL RESOURCE (NEW CONSTRUCTION/OPERATION)

PPLICATION NO: 040322-13

ROJECT NAME: S.R 826 (PALMETTO EXPRESSWY) & S.R 90 (TAMIAMI TRAIL/SW 8TH)

CHEDULED FOR 15-JUL-2004 GOVERNING BOARD

	Name	Due Date	Date Signed
GINEERING EVAL.	Marwan Fakhoury, P.E.	06-JUL-2004	7/1
IVIRONMENTAL EVAL.	Ronald M. Peekstok RP	06-JUL-2004	7/2
PERVISOR SWM	Carlos A. DeRojas, P.E. CR	06-JUL-2004	7/1
PERVISOR NRM	Edward Cronyn	06-JUL-2004	
V. DIR., NRM	Robert G. Robbins RM		7/6/04
V. DIR., SWM	Anthony M. Waterhouse		7/7/04

RESOURCE CODES

NO WETLAND ISSUES ASSOCIATED WITH THIS APPLICATION
ENDANGERED/THREATENED SPECIES

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
FINAL "AS-BUILT" PLANS
~~CONTRACT PLANS~~

ARCHIVED

COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- LIGHTING PLANS
- STRUCTURE PLANS
- MONUMENT PLANS
- LANDSCAPE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

NAME OF CONTRACTOR AFAC SOUTHEAST, INC.
NAME OF ALL CONSULTANTS INVOLVED A2 GROUP, INC.
RESIDENT ENGINEER TIMOTHY H. SEARS, P.E.
PROJECT ADMINISTRATOR ROBERT M. SULLIVAN, P.E.
DISTRICT SECRETARY JOHNNY MARTINEZ, P.E.
DATE WORK STARTED JUNE 05, 2005
DATE WORK CONDITIONALLY ACCEPTED JANUARY 28, 2008
DATE WORK FINAL ACCEPTANCE OR COMPLETED JANUARY 28, 2008

FINANCIAL PROJECT ID 249649-1-52-01
(FEDERAL FUNDS)
MIAMI-DADE COUNTY (87260)
STATE ROAD No. 826 (PALMETTO EXPRESSWAY)
AT SW 8TH STREET (SR 90)

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	DRAINAGE MAP
3-11	TYPICAL SECTIONS
12-13	GENERAL NOTES
14-16	SUMMARY OF QUANTITIES
17-34	SUMMARY OF DRAINAGE STRUCTURES
35	OPTIONAL MATERIALS TABULATION
36	PROJECT LAYOUT
37-47	ROADWAY PLANS
48-67	ROADWAY PROFILES
68	INTERCHANGE LAYOUT
69	CURVE DATA
70-77	RAMP DETAILS
78-80	POND DETAILS
81	C-4 CANAL EXCAVATION AND RIPRAP DETAILS
82-130	DRAINAGE STRUCTURES
131-134	MISCELLANEOUS DRAINAGE DETAILS
135	CROSS SECTIONS PATTERN
136-137	ROADWAY SOIL SURVEY
138-236	ROADWAY CROSS SECTIONS
237-254	TRAFFIC CONTROLS MASTER PLAN
255-356	TRAFFIC CONTROL PLANS
357-371	UTILITY ADJUSTMENTS & SWPP PLANS
372	ALUMINUM PIPE GUIDERAIL INDEX

END PROJECT
STA. 357+70.00
M.P. 6.376

END BRIDGE
STA. 341+06.33

BEGIN BRIDGE
STA. 1899+55.13
S.R. 90, S.W. 8th STREET

BEGIN CONSTRUCTION
STA. 1885+05.00
S.R. 90, S.W. 8th STREET

END CONSTRUCTION
STA. 1909+44.84
S.R. 90, S.W. 8th STREET

END BRIDGE
STA. 1900+47.13
S.R. 90, S.W. 8th STREET

BEGIN BRIDGE
STA. 337+42.79

BEGIN PROJECT
STA. 314+00.01
M.P. NO. 5.548

1 MILE

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

DONALD AMBROISE, PE
THE CORRADINO GROUP
4055 NW 97TH AVE
MIAMI, FL 33178
Phone: (305) 594-0735
Fax: (305) 594-0755

PLANS PREPARED BY:

CORRADINO
4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
Certificate Of Authorization No. 00007665

VENDOR No.: 610713040
CONTRACT No.: C-3585

NOTE: THE SCALE ON THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

NOTE: "THIS PROJECT IS TO BE LET TO CONTRACT WITH FINANCIAL PROJECT ID. 249648-1-52-01 AND FINANCIAL PROJECT 249649-1-56-02"

FINAL SUBMITTAL

COMPUTATION BOOK 1-5
Field Book No's 201-209

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED JANUARY 2004, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2004, AS AMENDED BY CONTRACT DOCUMENTS.

KEY SHEET REVISIONS

DATE	BY	#	PAGES MODIFIED
8/1/2005	MG	1	14,17-25,32-34,38,40,85,86,87,99,100,101,131,143,144, 145,179,180,181,182,183,258,259,261,262,263,264,267, 268,269,270,W-17,W-18,W-20,W-21
12/9/2005	MG	2	87,101,102,116,131
4/4/2006	MG	3	37,38,43,81,86,120,121,131,226,227,228,S-29,S-30,T-4
9/11/2006	MG	4	42,45,46,127,128,129,213,214,215,L-2,L-16
12/13/2006	MG	5	7,45,46,48,75,113,127,L-3,L-8
2/15/2007	MG	6	14,226,227,228,229,236,F-1,F-4,F-6,F-7,F-13,F-26
4/04/2007	MG	7	7,40,45,75,77,98,99,123,124,L-3,L-10,B-19A,B-23
6/26/2007	MG	8	14,38,40,41,45,46,80,97,124,129,130,165-171,183,213,214, 215,219,225-229,235,236,B31A,B31B
12/24/2008	MG	9	44,45,46,S-14,S-15,S-16,T-1,T-2,T-5,T-9

PROJECT LENGTH IS BASED ON ℄ CONSTRUCTION

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	4,006.45	0.759
BRIDGES	363.54	0.067
NET LENGTH OF PROJECT	4,369.99	0.826
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	4,369.99	0.826

THIS PROJECT WAS CONSTRUCTED IN SUBSTANCIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORDS. IF CHANGES WERE MADE, THOSE CHANGES ARE INDICATED BY BLACK INK REVISION BEAR THE SEAL AND SIGNATURE OF THE RESPONSIBLE PROFESSIONAL ENGINEER

RESIDENT ENGINEER 2-27-06 DATE

ROADWAY PLANS ENGINEER OF RECORD: MANUEL R. CARBALLO 1/24/08

P.E. NO.: 43244

FDOT PROJECT MANAGER: ALI R. TOGHIANI, P.E.

FISCAL YEAR	SHEET NO.
05	1

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STRUCTURE	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
	2% PROB.	50 YR.FREQ.	1% PROB.	100 YR.FREQ.								
	DISCHARGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	PROB. %	FREQ. YR.	DISCHARGE	STAGE	PROB. %	FREQ. YR.
SR-826 Bridge over C-4 Canal	1546	7.381	1528	7.000	-	-	-	-	1528	7.796	1	100
SR-90 Bridge over C-3 Canal	219	7.436	231	7.000	-	-	-	-	231	7.844	1	100

NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND AND STAGES ARE IN FEET, NGVD, 1929.

DEFINITIONS:

DESIGN FLOOD: THE FLOOD SELECTED BY F.D.O.T. TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.

BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)

OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.

GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)

6/15/04

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

CORRADINO
4055 N.W. 97th Avenue, Miami, Florida, 33178
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Certificate Of Authorization No. 00007665
E.O.R. Gorky F. Charpentier, P.E. No. 47523

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

DRAINAGE MAP

SHEET NO. 2

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6/14/2004

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

PROJECT LAYOUT

SHEET NO. 36

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2-25-08

4/02/07

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
4/4/2006	MG	3 REMOVED 18" PERFORATED PIPE			
3/30/2007	MG	1 ADD MANHOLE			
2-25-08	TS	ASBUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 ROADWAY PLAN

SHEET NO. 37

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
4/4/2006	MG	3 REMOVED 18" PERFORATED PIPE			
6/27/2007	MG	4 ADD BARRIER WALL			
2-25-08	TS	AS BUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 ROADWAY PLAN

SHEET NO. 38

2-25-08

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2-28-08	TS	AS BUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 ROADWAY PLAN

SHEET NO. 39

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S-15B STA. 348+97.00, 269.0' LT B.L. SR 826
W/30.0 LF OF 18" UNDERDRAIN TYPE II

0 20 100
Feet

END CONSTRUCTION
STA. 366+60.00 ℄ CONSTRUCTION S.R. 826

END PROJECT
STA. 357+70.00 ℄ CONSTRUCTION S.R. 826

354 FENCE EXTENSION CONNECT TO EXISTING FENCE

END LIMITS MILL & RESURFACING
STA 361+00

PALMETTO EXPY (S.R. 826) SOUTHBOUND

PALMETTO EXPY (S.R. 826) NORTHBOUND

RAMP "D"

RAMP "E"

RAMP "A-1"

MILLING, OVERBUILD & RESURFACING

ITS Box #16
RAMP A-1 STA 818+41.1 (40.1 RT)
RAMP E STA 610+90 (54.7 LT)
SANDCEMENT RETAINING WALL

END TYPE "B" FENCE & ADD 16'-10" DBL SWING GATE
STA. 613+36.84 (9.31' RT)

15' FENCE EXTENSION CONNECT TO EXISTING FENCE

A² GROUP, INC.
RECEIVED
AUG 01 2007
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SPEC:

2-25-08

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
3/28/2007	MG	2 ADD MANHOLE			
6/12/2007	MG	3 MODIFY SHOULDER RECONSTRUCTION AND MEDIAN BARRIER WALL LIMITS			
2-25-08	TS	AS BUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 ROADWAY PLAN

SHEET NO. 40

Tomas Otero
2-25-08

5/17/07

AUTOCAD REVISED
SEP 12 2007

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/26/2007	MG	8 ADD BARRIER WALL & GUARDRAIL			
2-25-08	TC	ASBUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 ROADWAY PLAN

SHEET NO. 41

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S-99, EW RELOCATED TO STA. 1901+56.49, 167.92' LT W/46.0 LF OF 36" PIPE

S-99A, EW RELOCATED TO STA. 1901+63.21, 181.33' LT W/46.0 LF OF 36" PIPE

N

0 10 40

Feet

MATCH LINE STA. 608+00.00 RAMP "E"

FENCE TYPE "B"

DRY RETENTION POND ELEV. 4.0

CANAL C-4

FENCE TYPE "B"

36" PIPE

S-99

S-99A

DRY RETENTION POND ELEV. 4.0

EXISTING BRIDGE (TO BE REMOVED)

END FENCE TYPE "B" STA 605+25.98 (22.54' LT)

S-67

43" x 68" PIPE

4' UNPAVED SHOULDER

2' PAVED SHOULDER

607

SPECIAL CONC BARRIER WALL & SOUND BARRIER (SEE STRUCTURAL PLANS)

S-67A

606

6' PAVED SHOULDER

~~END MILLING & RESURFACING~~ ~~BEGIN RECONSTRUCTION STA 605+30.00~~

DRY RETENTION POND ELEV. 4.0

℄ RAMP "E" & PGL

~~BEGIN MILLING & RESURFACING~~ RECONSTRUCTION

END APPROACH SLAB BEGIN ~~MILLING & RESURFACING~~ STA 605+25.95

END FENCE TYPE "B" STA 605+27.50 (7.25' RT)

BEGIN SPECIAL CONC. BARRIER WALL & SOUND BARRIER STA 605+25.95 (6.00' RT)

RAMP "E"

605

N 25° 26' 20" W

Concrete Bridge

604

END GUARDRAIL CONNECT TO BRIDGE RAILING STA. 603+67.23 (20.50' LT)

END FENCE TYPE "B" STA. 603+60.98 (22.54' LT)

END TRANSITION 603+60.97 (15.00' LT)

END APPROACH SLAB BEGIN BRIDGE WIDENING STA 603+80.95

END BRIDGE WIDENING BEGIN APROACH SLAB STA 605+05.95

END GUARDRAIL CONNECT TO BRIDGE RAILING STA. 603+67.12 (5.50' RT)

END WIDENING, MILLING & RESURFACING BEGIN APPROACH SLAB STA 603+60.95

END SHOULDER GUTTER STA. 603+60.94 (4.00' RT)

END FENCE TYPE "B" STA. 603+60.93 (7.54' RT)

END SWALE STA. 603+55.00 (32.17' RT)

5' BERM (EL 6.00)

FENCE TYPE "B" & FENCE REMOVAL

FENCE TYPE "B" STA. 605+27.31 (116.38' RT)

BEGIN GUARDRAIL BEGIN FLARED END ANCHORAGE ASSEMBLY STA. 602+86.99

24" FRENCH DRAIN

S-66A

S-66

BEGIN TRANSITION 602+65.76 (16.00' LT)

43" x 68" PIPE

2' PAVED SHOULDER

4' UNPAVED SHOULDER

4' PAVED SHOULDER

2' WIDENING

GUARDRAIL

MISCELLANEOUS PAVEMENT MILLING & RESURFACING

SAW CUT

603

GUARDRAIL BEGIN SHOULDER GUTTER STA. 602+76.93 (4.00' RT)

BEGIN GUARDRAIL BEGIN FLARED END ANCHORAGE ASSEMBLY STA. 602+87.02

PT +65.76

602

RETENTION POND

S-66B

24" FRENCH DRAIN

PT STA. 602+65.76 (45.00' RT)

STA. 603+60.87 (45.00' RT)

END RECONSTRUCTION BEGIN WIDENING, MILLING & RESURFACING STA 602+65.00

MATCH LINE STA. 601+80.00 RAMP "E"

L.A. RAW LINE

A³ GROUP, INC.
RECEIVED
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2-25-08

9/12/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/17/2006	MG	4 MODIFY SWALE			
2-25-08	TS	AS BUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 ROADWAY PLAN

SHEET NO. 42

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
4/4/2006	CV	3 MODIFIED HANDRAIL AND GUIDEWIRE			
2-25-08	TS	ASBUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 43

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/5/2007	MG	9 MODIFY WALL LENGTHS AND ADD GUARDRAIL			
2-25-08	TS	ASBUILT CHANGES			

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 44

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
9/11/2006	MG	4 MOVE INLET S-98	4/4/2007	MG	7 MOVE ISLAND CURB & GUTTER AND S-91 STRUCTURE 2' SOUTH
12/14/2006	MG	5 MODIFY INLET AND CURB & GUTTER	6/13/2007	MG	8 ADD 8" PVC PIPE AND MOVE S-91 END WALL
2-25-08	TS	AS BUILT CHANGES	11/29/2007	MG	9 MODIFY MEDIAN & WB EOP

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 45

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7/17/2006	MG	4 MODIFY INLETS AND SWALE	5/27/2007	MG	8 MODIFY DRAINAGE
11/3/2006	MG	5 ADJUST MILLING & RESURFACING LIMITS AND MODIFY CURB & GUTTER	11/29/2007	MG	9 MODIFY MEDIAN AND ADD CONC SEPARATOR
2-25-08	TS	ASBUILT CHANGES			

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CORRADINO

4055 N.W. 97th Avenue, Miami, Florida, 33178
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 46

2-25-08

6/11/04

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

CORRADINO
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.W. 8th STREET ROADWAY PLAN

SHEET NO. 47

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO.
82

I:\2703\vol0\woodwp\DISTRICT\ 6/16/2004 1:12:07 PM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/31/2007	MG	1 MODIFY PIPE LENGTH			

CORRADINO
4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
Certificate Of Authorization No. 00007665
E.O.R. Gorky F. Charpentier, P.E. No. 47523

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 DRAINAGE STRUCTURES

SHEET NO. 83

J:\2703\drlrc\roadway\ddsdrdet.dgn
4/3/2007 4:30:08 PM

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/31/2007	MG	1 ADD MANHOLE			

CORRADINO
4055 N.W. 97th Avenue, Miami, Florida, 33178
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E.O.R. Gorky F. Charpentier, P.E. No. 47523

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 DRAINAGE STRUCTURES

SHEET NO. 84

4/03/07

I:\2703\micro\roadway\dds\dm1.dgn
3/30/2007 2:23:50 PM

08/23/05

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

J:\2703\micro\roadway\ddsrdml.dgn
8/23/2005 10:21:56 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			

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4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
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E.O.R. Donald Ambroise, P.E. No. 55462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO.
85

J:\2703\micro\roadway\drainage\SHG
5/6/2005 11:43:34 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
4/4/2006	MG	3 REMOVE UNDERDRAIN PIPE			

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4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
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E.O.R. Miguel R. Ciscar, P.E. No. 43244

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO.
86

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
12/9/2005	MG	2 MODIFY DRAINAGE STRUCTURES			

CORRADINO
4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph : (305) 594-0735 Fax : (305) 594-0755
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E.O.R. Donald Ambroise, P.E. No. 55462

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO.
87

J:\2703\acre\roadway\ddr\dm.SHG
6/6/2006 4:57:29 PM

6/15/04

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Ph: (305) 594-0735 Fax: (305) 594-0755
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 88

6/15/2004 9:28:15 AM
I:\2003\03-0004\Drawings\DS\DS-18.dgn

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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4055 N.W. 97th Avenue, Miami, Florida, 33178
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E.O.R. Gorky F. Charpentier, P.E. No. 47523

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 89

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6/15/2004 9:30:01 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 90

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6/15/2004 9:30:12 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 91

6/15/04 1:27:01 PM P:\2004\Projects\Drainage\SR826.dgn

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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4055 N.W. 97th Avenue, Miami, Florida, 33178
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 92

J:\2703\mlora\roadway\ydstrdmi.SHG
6/15/2004 9:30:31 AM

6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

CORRADINO
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 DRAINAGE STRUCTURES

SHEET NO. 93

SHG MIDISKA\Projects\Corradino\Drainage\SR826.dgn
AM 6/15/2004 1:27:13

6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

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6/15/2004 9:30:48 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO.
94

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2-25-08	TS	AS BUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 95

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 96

SHS Plans\Drainage\Micro\Drainage\Dr826d1.dgn
8/15/2004 2:13:59 PM

A² GROUP, INC.
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FILE:
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7/17/07

2-25-08

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/13/2007	MG	⚠ ADJUST GRATE ELEVATION			
2-25-08	TS	ASBUILT CHANGES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826
DRAINAGE STRUCTURES

SHEET NO. 97

PM: F:\SR1\DRAINAGE\STRUCT\
DGN: F:\SR1\DRAINAGE\STRUCT\

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

4/10/07

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
3/28/2007	MG	2 ADD MANHOLE			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 DRAINAGE STRUCTURES

SHEET NO. 99

J:\0703\micro\woody\construct.dgn
3/28/2007 9:42:22 PM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	⚠ MODIFY DRAINAGE STRUCTURES			

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4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 DRAINAGE STRUCTURES

SHEET NO. 100

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6/6/2006 4:58:13 PM

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	△1 MODIFY DRAINAGE STRUCTURES			
12/9/2005	MG	△2 MODIFY DRAINAGE STRUCTURES			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 826 DRAINAGE STRUCTURES

SHEET NO. 101

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
12/9/2005	MG	△ MODIFY DRAINAGE STRUCTURES			

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Ph: (305) 594-0735 Fax: (305) 594-0755
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 102

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6/6/2006
4:29:34 PM

6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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4055 N.W. 97th Avenue, Miami, Florida, 33178
Ph: (305) 594-0735 Fax: (305) 594-0755
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 103

I:\2703\mlora\woodway\rdstra.SHG
6/15/2004 9:43:27 AM

6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

300 250 200 150 100 50 0 50 100 150 200 250 300

I:\2703\valero\roadway\rdsrs.SHG
6/15/2004 9:43:35 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 104

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 105

6/15/2004 4:26:21 PM
S:\Drainage\Drainage\Structures\105-1.dgn

6/15/09

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A" DRAINAGE STRUCTURES

SHEET NO. 106

9/15/2009 11:27:01 AM
P:\2009\Workgroups\SR826

6/15/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

300 250 200 150 100 50 0 50 100 150 200 250

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A1" DRAINAGE STRUCTURES

SHEET NO. 107

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6/15/2004 9:44 AM

6/15/04

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "A1" DRAINAGE STRUCTURES

SHEET NO. 108

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6/15/2004 9:44:53 AM

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6/15/2004 9:45:33 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "B" DRAINAGE STRUCTURES

SHEET NO. 109

6/14/04

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "B" DRAINAGE STRUCTURES

SHEET NO.
110

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "D1" DRAINAGE STRUCTURES

SHEET NO. III

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "D1" DRAINAGE STRUCTURES

SHEET NO. 112

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6/15/2004 9:46:54 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/24/2006	MG	5 MODIFY DRAINAGE STRUCTURE			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "D1" DRAINAGE STRUCTURES

SHEET NO. 113

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10/24/2006 5:55:01 PM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "D1" DRAINAGE STRUCTURES

SHEET NO. 114

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6/15/2004 9:47:52 AM

6/15/04

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "E" DRAINAGE STRUCTURES

SHEET NO. 115

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6/15/2004 9:48:12 AM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
12/9/2005	MG	2 MODIFY DRAINAGE STRUCTURES			

CORRADINO
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Ph: (305) 594-0735 Fax: (305) 594-0755
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

RAMP "E" DRAINAGE STRUCTURES

SHEET NO. 116

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5/26/2006 9:20:08 PM

6/15/04

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 117

6/15/2004 11:27:03 AM
P:\2004\04-0590\DGN\04-0590 S-78.DGN

REVISIONS					
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 118

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2-25-08	TS	ASBUILT CHANGES			

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E.O.R. Gorky F. Charpentier, P.E. No. 47523

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 119

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/30/2006	MG	3 MODIFY DRAINAGE STRUCTURE			

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DEPARTMENT OF TRANSPORTATION

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SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 120

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/30/2006	MG	△3 MODIFY DRAINAGE STRUCTURE			

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SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90 DRAINAGE STRUCTURES

SHEET NO. 121

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6/15/04

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SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 122

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/27/2007	MG	△1 ADJUST GRATE ELEVATION			

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S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 123

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2-25-08

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
4/4/2007	MG	1 MOVE STRUCTURE S-91 SOUTH			
6/13/2007	MG	2 MOVE END WALL SOUTH			
2-28-08	TS	ASBUILT CHANGES			

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SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 124

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2-25-08	TS	ASBUILT CHANGES			

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SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 125

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2-25-08

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2-25-08	TS	ASBUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 126

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
9/11/2006	MG	1 MODIFY DRAINAGE STRUCTURE			
12/14/2006	MG	2 MODIFY DRAINAGE STRUCTURE			
2-25-08	TS	ASBUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 127

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7/17/2006	MG	4 MODIFY DRAINAGE STRUCTURE			
2-28-08	TS	ASBUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 128

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7/17/07

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7/17/2006	MG	4 MODIFY DRAINAGE STRUCTURE			
6/22/2007	MG	5 REMOVE DRAINAGE STRUCTURE S-106			
2-28-08	TS	AS BUILT CHANGES			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 129

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/22/2007	MG	3 MODIFY DRAINAGE STRUCTURE			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

S.R. 90
DRAINAGE STRUCTURES

SHEET NO. 130

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N.T.S.

UNDERDRAIN

NOTE: FILTER FABRIC AND BALLAST ROCK SHALL BE INCLUDED UNDER PAY-ITEM NO. 440-1-20.

DETAIL OF REINFORCEMENT AT WALL CORNERS & WEIR ENDS

DETAIL 1

N.T.S.

DETAIL OF REINFORCEMENT @ WALL OPENING

DETAIL 2

N.T.S.

ELEVATION VIEW

PLAN VIEW

N.T.S.

SECTION A-A

N.T.S.

BOTTOM CONNECTION DETAILS FOR BARRIERL WALL INLET (SPECIAL) OR MANHOLE (SPECIAL)

N.T.S.

NOTE: FOR STEEL REINFORCEMENT AND ADDITIONAL DETAIL SEE FDOT INDEX No 200.

FRENCH DRAIN CROSS SECTION

N.T.S.

FOR ADDITIONAL DETAILS SEE INDEX 285

* Varies, See Plans

NOTES:

1. CONCRETE: CLASS II F'C =3400 PSI.
2. REINFORCING STEEL ASTM A615 GRADE 60
3. FOR ADDITIONAL NOTES & DETAILS SEE FDOT STANDARD INDEX NOS. 200, 201, 211 & 285.
4. FOR FLOW LINE ELEV. SEE DRAINAGE STRUCTURES SHEETS.
5. FOR DETAILS OF REINF. AT WALL CORNERS & AT WALL OPENING SEE THIS SHEET.
6. MODIFICATION TO BE PAID UNDER ASSOCIATED INLET OR MANHOLE PAY ITEM.

Structure Number	Inlet Grate EL.	Manhole Grate EL.	Bottom EL.	Outfall Inv. EL.	Outfall Diameter	Box Size
S-38	5.0	4.0	(-) 5.0	(-) 1.5	42"	7'X 7'8".
S-38A	5.0	4.0	(-) 0.5	(-) 1.5	42"	7'X 7'8".
S-38B	5.0	4.0	(-) 0.5	(-) 1.5	42"	7'X 7'8".
S-65	5.0	4.0	(-) 5.35	(-) 1.85	43" X 68"	7'X 8'9"
S-74	5.0	4.0	(-) 7.00	(-) 3.50	60"	7'X 7'8".

POLLUTION CONTROL STRUCTURE DETAIL

4/10/07

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/1/2005	MG	1 MODIFY DRAINAGE STRUCTURES			
12/9/2005	MG	2 MODIFY SPECIAL STRUCTURE			
4/4/2006	CV	3 MODIFY UDERDRIAN STRUCTURE			

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SR 826	MIAMI-DADE	249649-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 131

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PLAN

SECTION A-A
BTM. PIPE OUTLET

SECTION A-A
GUTTER INSTALLATION

SECTION B-B

6/16/04

TRENCH DRAIN NOTES

1. Line drain is suitable for applications for controling spread in gutter flow conditions or to intercept sheet flow. Typical application is at the street curb or barrier.
2. The frame and grate is suitable for pedestrian and bicycle traffic and rated for H-25 and HS-25 loads.
3. Concrete thickness, type, and amount of reinforcement to be same as adjacent pavement or greater. Perform structural analysis to determine requirements for application.
4. Top of grate to be installed flush to 3 mm below finished grade. Bevel concrete to top of grate if below flush.
5. Trench drain deatils shown are for ABT, Inc. products. Contractor may substitute trench drain products with an approved equal.

TRENCH DRAIN DETAILS
1 OF 3

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 132

SECTION A-A
NTS

TYPICAL TRENCH DRAIN SYSTEM SECTION

SECTION C-C
NTS

TRENCH DRAIN SYSTEM DETAIL
NTS

6/15/04

TRENCH DRAIN DETAILS
2 OF 3

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 826	MIAMI-DADE	249649-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 133

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TRENCH RUN TO DROP INLET CONNECTION DETAILS

15° DISCHARGE ANGLE SHALLOW CONNECTION

30° DISCHARGE ANGLE SHALLOW CONNECTION

45° DISCHARGE ANGLE SHALLOW CONNECTION

15° DISCHARGE ANGLE INTERMEDIATE DEPTH CONNECTION

30° DISCHARGE ANGLE INTERMEDIATE DEPTH CONNECTION

45° DISCHARGE ANGLE INTERMEDIATE DEPTH CONNECTION

15° DISCHARGE ANGLE DEEP CONNECTION

30° DISCHARGE ANGLE DEEP CONNECTION

45° DISCHARGE ANGLE DEEP CONNECTION

6/15/04

NOTES:
1. Select discharge angle, adaptor location, and distance from trench to catch basin that best satisfies application requirements.
2. All Outlet Adaptors are made of EPS foam have the same nominal pipe diameter as the trench form width.
3. The hydraulic capacity of the outlet adaptor is greater than that of the corresponding standard Trench Former Form.
4. Attach Outlet Adaptor to Trench Former Form with adhesive or tape.
5. The Discharge Adapter can also be used for low point discharge.

TRENCH DRAIN DETAILS 3 OF 3

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MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 134

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