ATTACHMENTS:

ATTACHMENT 1. BIG BEND PONDS–STORMWATER STORAGE CAPACITIES

ATTACHMENT 2. RESPONSE TO FDEP COMMENT 4

ATTACHMENT 3. RESPONSE TO FDEP COMMENT 5

ATTACHMENT 4. EXISTING CONDITIONS MODEL INPUT AND OUTPUT FILES

1. **MC-25-exRAI.s4d**
2. **WB-25.wpx**
2. **WB-100.wpx**
4. **MC-25-exRAI.smx**
5. **MC-100-exRAI.smx**

ATTACHMENT 5. PROPOSED CONDITIONS MODEL INPUT AND OUTPUT FILES

1. **MC-25-PropRAI.s4d**
3. **WB-100-PropRAI.wpx**
2. **WB-25-PropRAI.wpx**
4. **MC-25-PropRAI.smx**
5. **MC-100-PropRAI.smx**

ATTACHMENT 6. MODEL RESULT COMPARISON TABLES

ATTACHMENT 7. REVISED FIGURE 14, B2741-YSK-11-2, YSK-11-3

ATTACHMENT 8. REVISED FIGURES 1 AND 2

ATTACHMENT 9. WETLAND SURVEY

ATTACHMENT 1

BIG BEND PONDS – STORMWATER STORAGE

ATTACHMENT 1

Big Bend Ponds - Stormwater Storage Capacities

(Based on Runoff from 25 yr.-24 hr. storm = 8.0 inches)

Ponds	*Design Operating Elevation (feet)*	(1) *Volume @ Design Operating Elevation (gallons)*	*Design Freeboard Elevation* [1] *(feet)*	(2) *Total Capacity @ Design Freeboard Elevation (gal)*	*Approx. Top of Berm Elevation (feet)*	(3) *Total Capacity @ Top of Berm (gal)*	= (2 - 1) *Available Stormwater Capacity @ Design Freeboard Elevation (gal)*	= (3 - 1) *Available Stormwater Capacity at Top of Berm (gals)* [5]
N. Recycle	12.0	3,826,000	16.5	6,773,000	17.5	7,503,000	2,947,000	3,677,000
S. Recycle	11.8	17,659,000	14.8	25,458,000	15.8	28,173,000	7,799,000	10,514,000
Economizer Ash [2]	26.2	35,343,000	30.0[3]	43,609,000	31.0	45,648,000	8,266,000	10,305,000
Bottom Ash	26.2	59,251,000	30.0	73,106,000	31.0	75,713,000	13,855,000	16,462,000
Long Term Fly Ash	N/A	30,000,000	20.0	55,000,000	21.0	55,000,000	25,000,000	25,000,000
Coal Field	5.0		10.2[4]	8,940,000	11.0	13,954,000	8,940,000	13,954,000
						Cumulative Storm Water Capacity of Listed Ponds	**66,807,000**	**79,912,000**
						25 year/24 hour Rainfall Amount	**-34,478,000**	**-34,478,000**
						Additional Rainfall on New Gypsum Storage Area	**-4,750,000**	**-4,750,000**
						Excess Stormwater Capacity Remaining	**27,579,000**	**40,684,000**

Footnotes:

[1] Design freeboard = 1 foot.

[2] South economizer ash pond not included.

[3] Assumes overflow valves closed.

[4] Overflow from Coal Field perimeter ditch to stormwater pond and sump.

[5] Emergency situation only.

ATTACHMENT 2

RESPONSE TO FDEP COMMENT 4

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By: jstebnisky Date: 11/30/2012

Legend

- Project Area Including Access Roads (27.03 Acres)
- Jurisdictional Area Impacts (1.1 Acres)
- Jurisdictional Areas (S1-12; V1-4; D1;WQ)
- Rail Loop Floodplain Compensation Area

Florida Land Use, Cover, Forms and Classification System (FDOT, 1999)		Size (Acres)
422/740	Brazilian Peppers/Disturbed Land	25.90
511	Natural Streams	0.06
512	Upland Cut Ditches	0.74
534	Reservoirs less than 10 acres	0.03
641/617	Freshwater Marsh/Exotic Wetland Hardwoods	0.30
Total		27.03

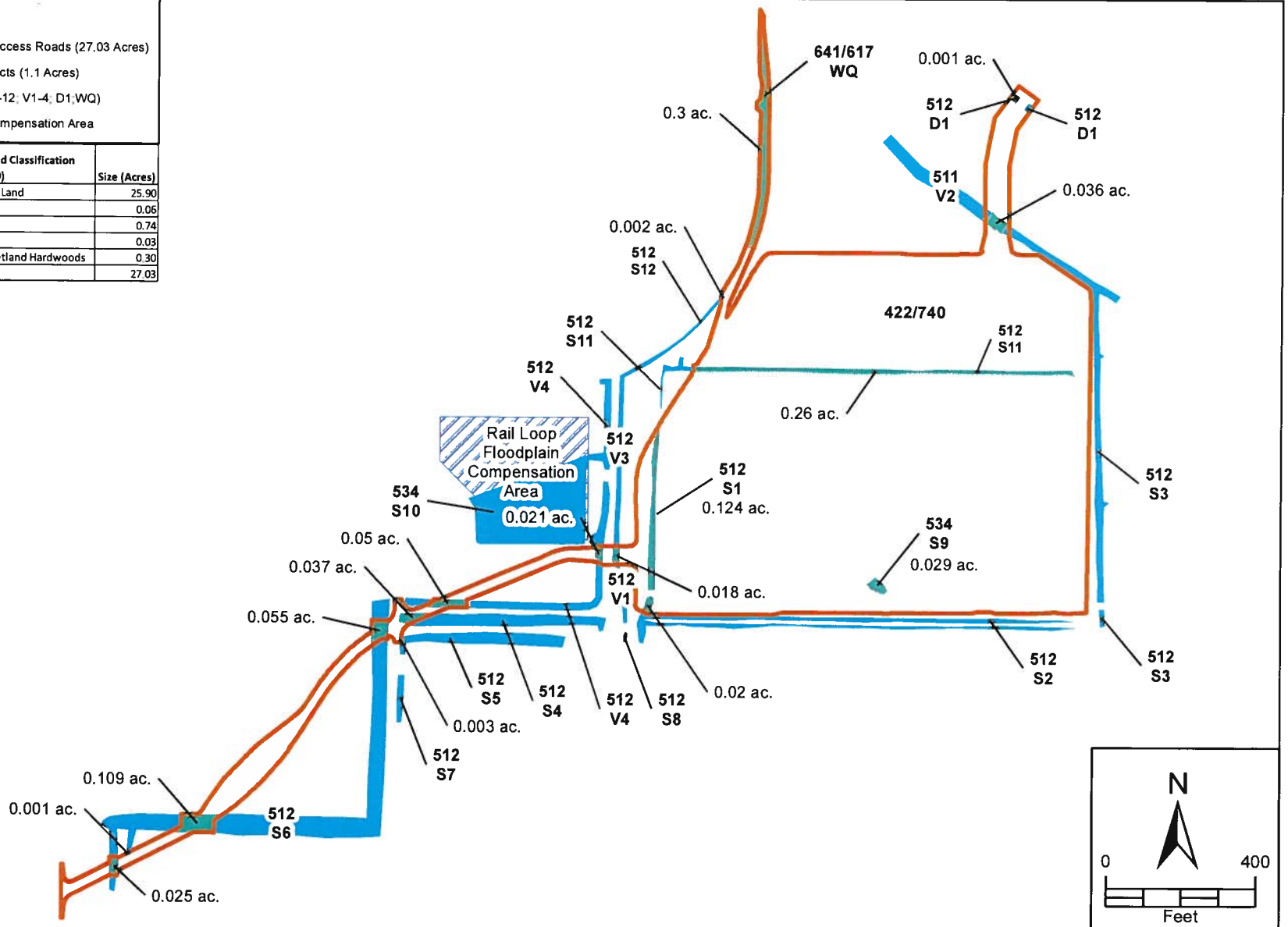


FIGURE 7.
JURISDICTIONAL/LAND USE AND COVER MAP
TAMPA ELECTRIC COMPANY
BIG BEND POWER STATION GYPSUM STORAGE AREA/CONVEYOR IMPROVEMENTS PROJECT
HILLSBOROUGH COUNTY, FLORIDA

Sources: Sargent & Lundy, 2011; ECT, 2012

TECO
TAMPA ELECTRIC

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By: jstebnisky Date: 11/30/2012

Legend

- Project Area Including Access Roads (27.03 Acres)
- Jurisdictional Area Impacts (1.1 Acres)
- Jurisdictional Areas (S1-12; V1-4; D1;WQ)
- Rail Loop Floodplain Compensation Area

Florida Land Use, Cover, Forms and Classification System (FDOT, 1999)		Size (Acres)
422/740	Brazilian Peppers/Disturbed Land	25.90
511	Natural Streams	0.06
512	Upland Cut Ditches	0.74
534	Reservoirs less than 10 acres	0.03
641/617	Freshwater Marsh/Exotic Wetland Hardwoods	0.30
Total		27.03

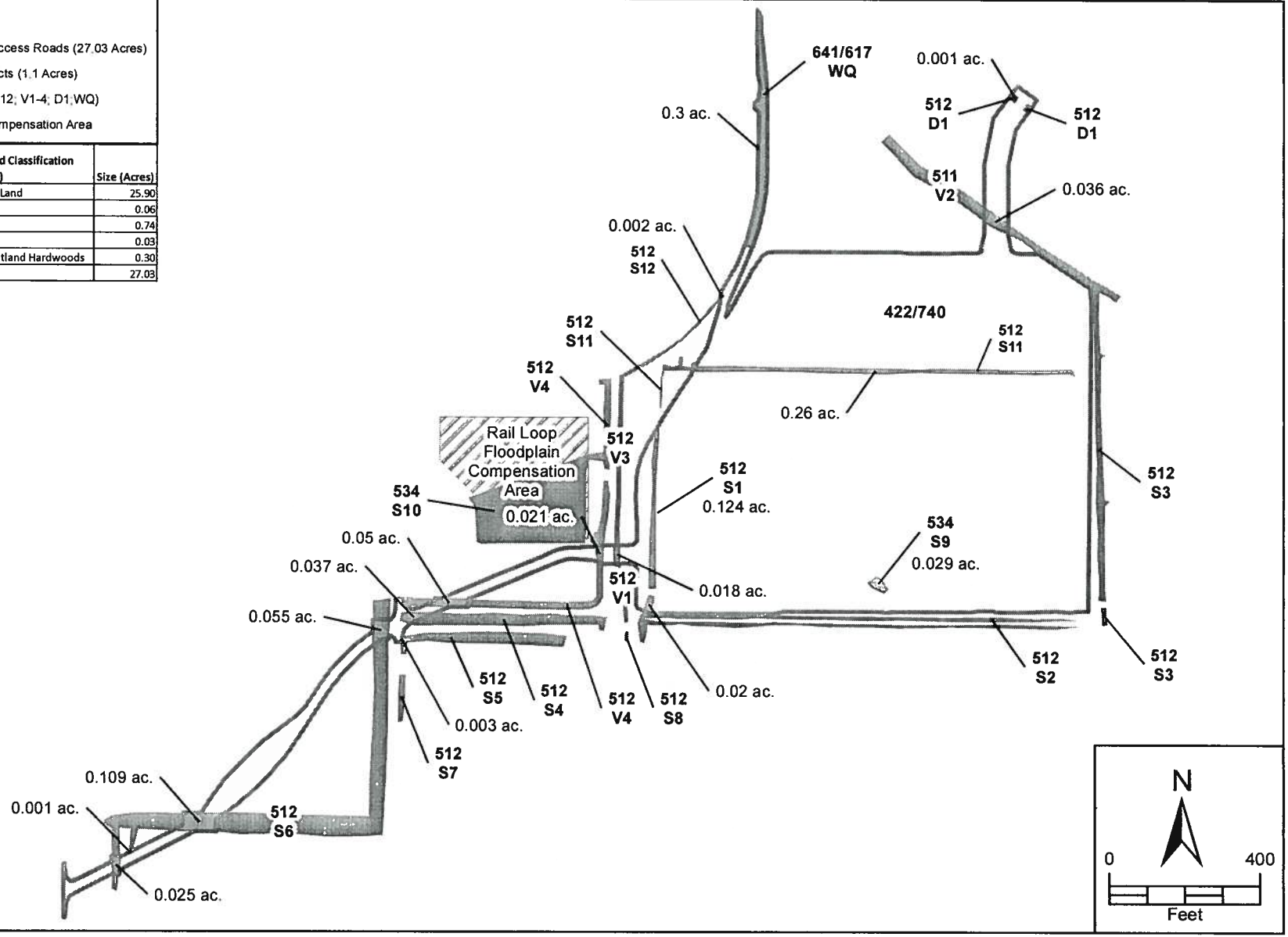


FIGURE 7.
JURISDICTIONAL/LAND USE AND COVER MAP
TAMPA ELECTRIC COMPANY
BIG BEND POWER STATION GYPSUM STORAGE AREA/CONVEYOR IMPROVEMENTS PROJECT
HILLSBOROUGH COUNTY, FLORIDA
Sources: Sargent & Lundy, 2011; ECT, 2012

TECO
TAMPA ELECTRIC

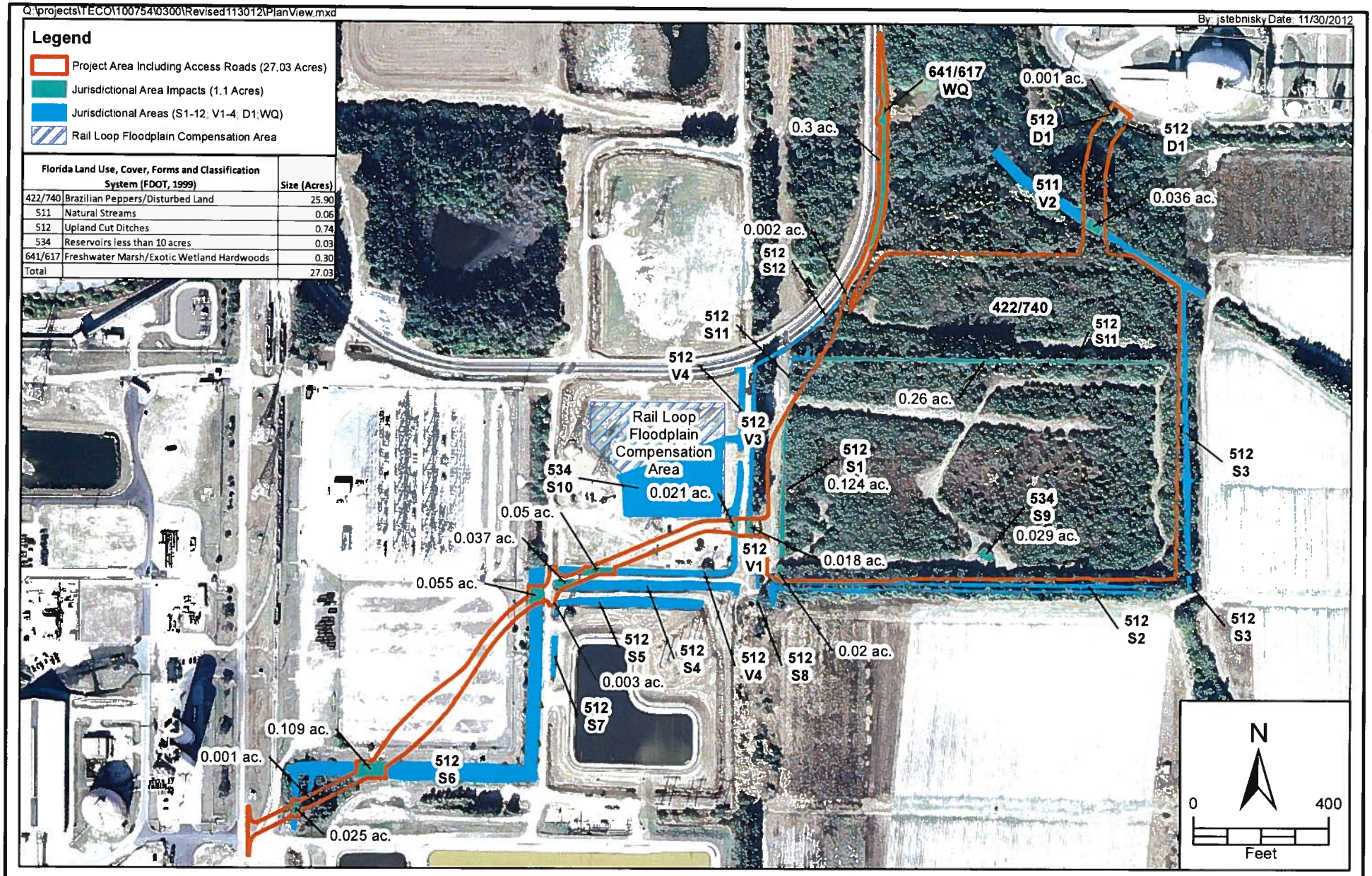


FIGURE 7.
JURISDICTIONAL/LAND USE AND COVER MAP
TAMPA ELECTRIC COMPANY
BIG BEND POWER STATION GYPSUM STORAGE AREA/CONVEYOR IMPROVEMENTS PROJECT
HILLSBOROUGH COUNTY, FLORIDA
Sources: SWFWMD Aerial Photograph, 2011, Sargent & Lundy, 2011, ECT, 2012

TECO
TAMPA ELECTRIC

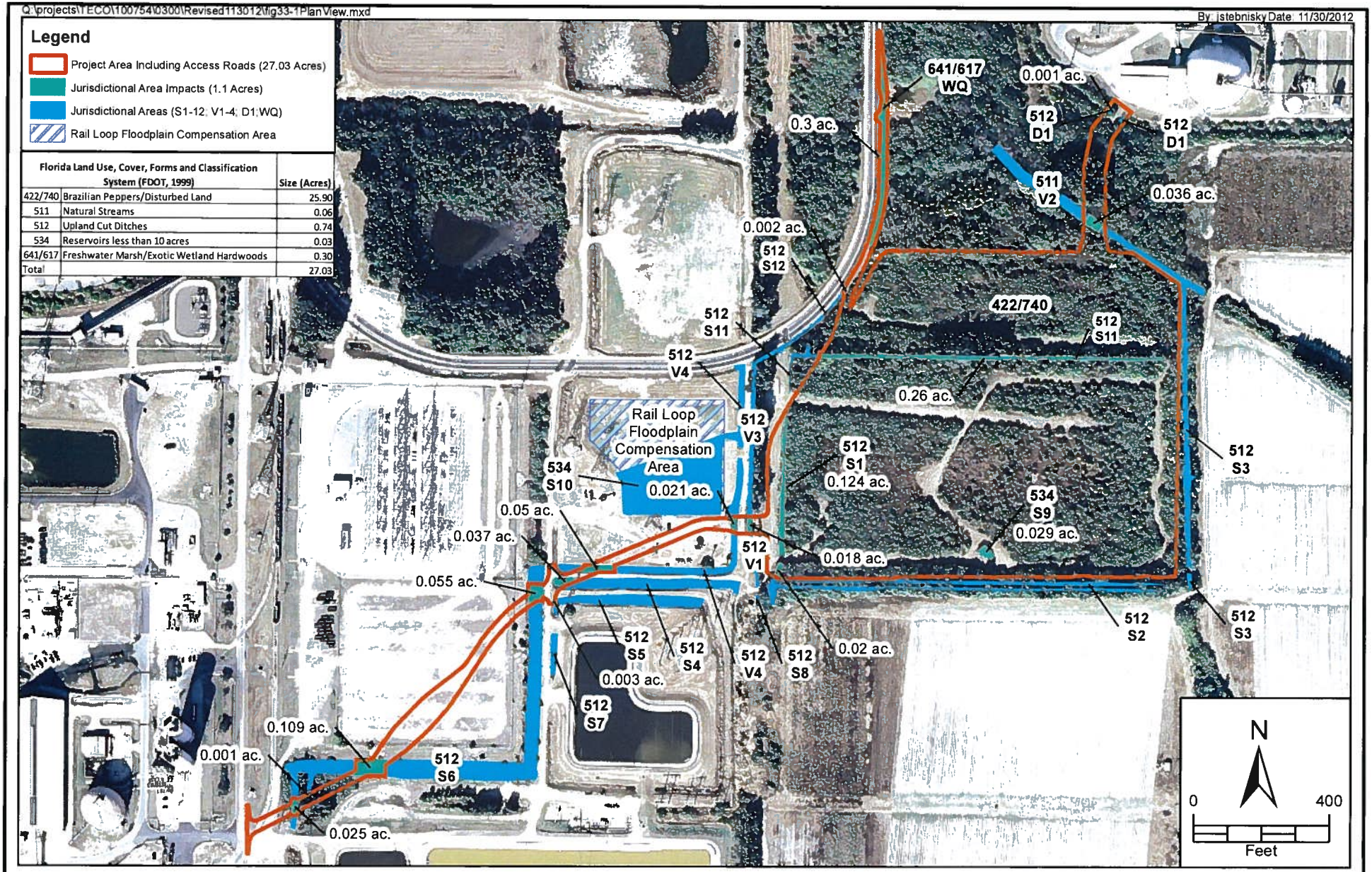


FIGURE 3.3-1.
JURISDICTIONAL/LAND USE AND COVER MAP
TAMPA ELECTRIC COMPANY
BIG BEND POWER STATION GYPSUM STORAGE AREA/CONVEYOR IMPROVEMENTS PROJECT
HILLSBOROUGH COUNTY, FLORIDA
Sources: SWFWMD Aerial Photograph, 2011; Sargent & Lundy, 2011; ECT, 2012

TECO
TAMPA ELECTRIC

ATTACHMENT 3

RESPONSE TO FDEP COMMENT 5

Wetland Rapid Assessment Procedure

☑ Check One

☑ Existing Conditions ☐ Proposed Conditions **(WRAP)**

Application Number	Project Name	Date	Evaluator	Wetland Type
	TEC Gypsum Storage Area/Conveyor Improvements	9/24/2012	T. Arcuri	W1/WQ

Land Use	FLUCCS Code	Description	Wetland Acreage
Industrial	641/619	Freshwater Marsh/Exotic Wetland	0.3

Wildlife Utilization (WU)	Wetland Canopy (O/S)	Wetland Ground Cover (GC)
0.5	0.5	1

Habitat Support/Buffer

Buffer Type (Score) x (% of area) = Sub Totals

422/740	0.5	75	0.375
831	0	25	0
			0.375

TOTAL 0.50

Field Hydrology (HYD)	WQ Input & Treatment (WQ)*
2.0	2.0

*The value of WQ is obtained by adding the TOTAL scores of Land Use Category and Pretreatment Category then dividing by 2

Land Use Category (LU)

Pretreatment Category (PT)

Land Use Category (Score) x (% of area) = Sub Totals

Undeveloped	3.0	75	2.25
Industrial	1.0	25	0.25

(LU) Total 2.5

Pretreatment Category (Score) x (% of area) = Sub Totals

Undeveloped	3.0	75	1.5
No Treat	0	50	0

(PT) Total 1.5

WRAP SCORE 0.36

Wildlife Utilization (WU)

Surrounding area mostly consists of Brazilian peppers and some industrial land uses. Wildlife use is limited, although water source available.

Wetland Canopy (O/S)

Dominated by Brazilian peppers along the fringes of marsh.

Wetland Ground Cover (GC)

Very little species diversity; mostly Paspalum distichum with a few other herbaceous wetland species.

Habitat Support/Buffer

Adjacent habitat includes Brazilian pepper, open disturbed lands, and industrial land uses.

Field Hydrology (HYD)

Retains runoff that ultimately discharges to Tampa Bay.

WQ Input & Treatment (WQ)

Pretreatment and input from surrounding disturbed uplands (i.e., overgrown areas and industrial development).

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
TEC BIG BEND POWER STATION GYPSUM STORAGE AREA/CONVEYOR IMPROVEMENTS PROJECT		W1/WQ

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641/619	FDEP: 641 FNAI: Depression Marsh SCS: 25-Freshwater Marsh	Impact	0.3 acre

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e. OFW, AP, other local/state/federal designation of importance)
Wolf Branch	Class III	None

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Assessment area is a topographic low within an larger area of historic maritime hammock. Surface runoff pools into the area. Area drains via culverts under railroad tracks into drainage ditches which ultimately empty into Tampa Bay.

Assessment area description

Area is a grassy marsh with some open water and wetland forest now dominated by Brazilian peppers.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Railroad tracks, power generation plant, and manufacturing plant	**Most of the general landscape is urban/industrial.**

Functions

BIOLOGICAL:
Wading bird feeding; sandhill crane nesting; amphibian breeding; forage fish habitat; reptile feeding; rice rat nesting; and Florida round-tailed muskrat feeding and nesting.

PHYSICAL/CHEMICAL:
Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.

Mitigation for previous permit/other historic use

No/Agriculture

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Mammals: raccoon, opossum, muskrat; Birds: great blue, tricolor, and little blue herons, common and snowy egrets, sandhill crane, wood stork, bald eagle; Herpetofauna: cricket frog, alligator, amphiuma, mud snake, green tree frog, green water snake, banded water snake, bullfrog, pig frog, leopard frog, striped swamp snake, black swamp snake, lesser siren, greater siren.	**Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (E, foraging, seasonal), bald eagle (T, foraging, incidental), alligator (SSC, foraging, breeding, longterm), white ibis (SSC, foraging, longterm), tricolored heron (SSC, foraging, longterm), little blue heron (SSC, foraging, longterm), and snowy egret (SSC, foraging, longterm).**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Great egret, raccoon tracks, leopard frogs

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Chelsie Vandaveer	20-Aug-12

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
TEC BIG BEND POWER STATION GYPSUM STORAGE AREA/CONVEYOR IMPROVEMENTS PROJECT		W1/WQ
Impact or Mitigation	Assessment conducted by:	Assessment date:
Impact	C. Vandaveer	August 20, 2012

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

		w/o pres or current	with
.500(6)(a) Location and Landscape Support	**The area is surrounded by relict maritime hammocks with extensive encroachment of Brazilian pepper trees. Rail lines, roads, industry, ditching, and row crop fields comprise most of the surrounding landscape. Birds and small animals can access the area and the surrounding land can support the life cycles of many of these animals, but larger wildlife usage is discouraged by human activity and noise levels. Area offers few benefits (mostly detritus) to downstream habitats and possible pollutant loads in discharges may adversely affect wildlife.**	4	0
.500(6)(b)Water Environment (n/a for uplands)	**Historic aerial photographs indicate that the area has ranged from open water to marsh over the past decades probably depending on rainfall and diversion of water with agricultural ditching. Row crop fields with extensive ditches to control water began in the general area in the 1930s. The area receives surface runoff which now originates from various roads, a double railroad track loop, and industry and probably carries pollutant loads. The area drains via culverts under the railroad track loop into a series of ditches, which empty into Tampa Bay. The hydrology supports the grass-dominated marsh, but is insufficient to exclude the Brazilian peppers which dominate the forested edges of the wetland.**	4	0
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	**The area is currently a grassy marsh dominated by *Paspalum distichum* with a small area of open water and minor populations of *Crinum americanum*, *Acrostichum danaeifolium*, and *Typha domingensis*. Historic aerial photographs indicate that the area once had a wetland shrub or tree component, but this part of the system has been taken over by Brazilian peppers to the exclusion of almost all other species. The altering of the land first for farming and currently for industry leaves this wetland and its abutting forest as a relict habitats.**	4	0

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.40	0

If preservation as mitigation,
Preservation adjustment factor = **N/A**
Adjusted mitigation delta = **N/A**

For impact assessment areas
FL = delta x acres = **-0.40 x 0.3 = -0.12**

Delta = [with-current]
-0.4

If mitigation
Time lag (t-factor) = **N/A**
Risk factor = **N/A**

For mitigation assessment areas
RFG = delta/(t-factor x risk) = **N/A**

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

ATTACHMENT 4
EXISTING CONDITIONS MODEL
INPUT AND OUTPUT FILES

1. MC-25-exRAI.s4d

```
*   NBLOCKS    INBLK1  OUTBLK1    INBLK2  OUTBLK
SW    2          8         12       12       14
* NITCH NSCRATCH(1)NSCRATCH(2)NSCRATCH(3)NSCRATCH(4)NSCRATCH(5)NSCRATCH(NTH)
MM    6   10   11   13   14   15   16
* ========================================================================
@     8   'WB-25.WPX'
@    11   'MC-25_exRAI.HOT'
@    12   'MC-25_exRAI.INT'
@    15   'MC-25_exRAI.SMX'
@    16   'MC-25_exRAI.PLT'
* ========================================================================
$COMBINE
A1  11
B1  '  GENERATE HYDROGRAPH FROM INTERNAL SCS METHOD'
B1  '  MAKE SWMM INTERFACE FILE          '
* ========================================================================
$EXTRAN
A1 'WOLF BRANCH BASIN - MISCELLANEOUS COASTAL STREAMS  7/25/00 FINAL'
A1 'EXISTING CONDITIONS 100 YEAR, 24 HOUR EVENT '
************************************************************************
** 7/10/00  Editted roadway overflow elevation for 825420 from 12.5 to 12.8 *
**       Added interbasin overland connection from 825430 to 825630      *
** 7/20/00  Added floodplain definition (From Type 6 to Type 8) for channels*
**       9823170, 9823290, 9823490, 9826640, 9826665                     *
** 7/25/00  Edited 9825600 to 6825600 to model earthen berm obstruction     *
**    Dropped 825640 and made 825615 linear storage for better model  *
************************************************************************
*         ISOL     KSUPER   LOSSES
B0          2         0       1
*         JELEV    JDOWN
BB          1         0
*====================*
*====================*                          1 hour    5 min
*       NTCYC    DELT      TZERO   NSTART     INTER     JNTER    JREDO  IDATZ(opt)
B1      57600    2.0        0.0      1        1800      150      0
*    32 HOUR SIMULATION
*       METRIC   NEQUAL   AMEN    ITMAX    SURTOL
B2         0        0     10.0      120    0.0015
*     H-prnt  Q-prnt H-plot Q-plot   NJSW
B3      0      0      142      223     0     0    0
B6          82100   82200   82300   82400   82510   82615   82620   82645   82900   82900
            82930   82940  821000  821100  821190  821200  821290  821300  821390  821400
           821490  821500  822000  822050  822100  822110  822190  822150  822200  822250
           822290  822300  822350  822390  822400  822410  822420  822490  822500  823000
           823100  823170  823180  823190  823200  823290  823300  823380  823390  823400
           823490  824000  824080  824085  824100  824110  824120  824130  824140  824200
           824300  824400  824490  824500  824590  824600  824650  825100  825200  825220
           825230  825300  825390  825400  825410  825420  825430  825500  825600  825610
           825615  825620  825630  825630  825650  825653  825655  825700  825800  825900
           826150  826190  826200  826245  826250  826290  826295  826300  826305  826310
           826315  826320  826325  826350  826400  826450  826500  826550  826560  826570
           826600  826640  826650  826665  826685  826700  826750  826780  826790  826800
           826850  826855  826860  826865  826900  826970  826980  826990  829000  829100
           829190  829200  829300  829400  829410  829450  829500  829510  829600  826940
           826950  825429
B7         9821000 9821100 9821190 1821200 9821290 1821300 2821300 3821300 9821390 1821400
           2821400 3821400 9821490 1821500 2821500 9822000 1822050 2822050 1822100 2822100
           3822100 9822150 9822190 1822200 9822110 1822250 9822290 1822300 2822300 3822300
           9822350 9822390 1822400 2822400 9822410 1822420 2822420 9822490 1822500 2822500
```

```
        9823000 1823100 9823170 1823180 1823190 2823190 3823190 1823200 2823200 9823290
        1823300 9823380 9823390 1823400 9823490 9824000 1824080 2824080 9824085 1824100
        9824120 9824140 1824400 9824130 1824300 9824110 1824200 1824490 2824490 9824500
        9824590 1824600 9824650 9825100 1825200 9825610 9825610 1825650 9825650 9825653
        1825655 9825615 9825616 1825700 1825700 9825620 1825630 2825630 1825800 2825800
        9825900 9825220 9825410 1825420 9825430 1825500 9825230 1825230 1825300 9825390
        1825400 9826150 9826190 9826200 9826245 1826250 9826290 1826295 1826400 2826400
        1826300 9826305 1826310 9826315 1826320 9826325 1826350 9826450 9826500 1826550
        9826560 1826570 2826570 3826570 9826600 9826640 1826650 2826650 3826650 9826665
        9826685 1826700 1826750 2826750 9826790 1826800 2826800 9826780 1826850 2826850
        9826855 1826860 9826865 1826900 2826900 9826970 9826980 1826990 9829000 9829100
        9829190 1829200 2829200 9829400 9829410 1829450 9829500 9829300 9829501 9829510
        1829600 7821200 7821300 7821400 7821500 7822050 7822100 7822200 7822250 7822300
        7822400 7822420 7822500 7823100 7823180 7823190 7823200 7823300 7823400 7824080
        7824100 7824200 7824300 7824400 7824490 7824600 7825200 7825300 7825400 7825420
        7825500 7825630 7825655 7825700 7825800 7826250 7826295 7826300 7826310 7826320
        7826350 7826400 7826500 7826550 7826570 7826650 7826700 7826750 7826800 7826850
        7826860 7826900 7826990 7826990 7829100 7829200 7829600 1826950 2826950 9826940
        6825430 9825429 6825600
*================================
** Conduit Data
*================================
*  NCOND    NJUNC(1)NJUNC(2)  QO    NKLASS AFULL     DEEP    WIDE    LEN    ZP(1)   ZP(2)  ROUGH   STHETA  SPHI      KENT  KEXIT KMIN  STRE *NOTES
************************
*****  DUG CREEK  *******                                                                                                              *
************************
C1  9821000  821000   82100   0      6       0.000   5   100         500   -2.00   -2.00    0.02    7.0          7.0     0     0     0  1  * BOUNDARY
C1  9821100  821100  821000   0      8       0.000   0   0           144   -1.10   -2.00   0.035 9821100     0.00635     0     0     0  1  * S#W-1
C1  9821190  821190  821100   0      8       0.000   0   0          1615   -4.50   -1.10   0.035 9821190 0.002205263     0     0     0  1  * S#W-1 COPY
** US 41
C1  1821200  821200  821190   0      2      80.000   8   10          135   -4.50   -4.50   0.015       0           0   0.1     1     0  1  * FDOT
C1  9821290  821290  821200   0      8       0.000   0   0          1890    0.87   -4.50   0.035 9821290  0.00294127     0     0     0  1  * S#W-2
** CSX R.R.
C1  1821300  821300  821290   0      1      15.904 4.5   4.5         120    0.87    0.87   0.015       0           0   0.1     1     0  1  * FDOT
C1  2821300  821300  821290   0      1      15.904 4.5   4.5         120    0.87    0.87   0.015       0           0   0.1     1     0  1  * FDOT
C1  3821300  821300  821290   0      1      15.904 4.5   4.5         120    0.87    0.87   0.015       0           0   0.1     1     0  1  * FDOT
C1  9821390  821390  821300   0      6       0.000  11   15         2790    8.00    0.87   0.035    3.33        3.33     0     0     0  1  * E,F
** NORTH ST.
C1  1821400  821400  821390   0      3      16.116 3.6   5.7          80    9.00    8.00   0.015       0           0   0.1     1     0  4  * E,F
C1  2821400  821400  821390   0      3      16.116 3.6   5.7          80    9.00    8.00   0.015       0           0   0.1     1     0  4  * E,F
C1  3821400  821400  821390   0      3      16.116 3.6   5.7          80    9.00    8.00   0.015       0           0   0.1     1     0  4  * E,F
C1  9821490  821490  821400   0      6       0.000   8   15         4690   19.00    9.00   0.035   2.083       2.083     0     0     0  1  * E,F
** MESSLER RD.
C1  1821500  821500  821490   0      1       3.142   2   2           80   21.50   20.00   0.026       0           0   0.5     1     0  4  * E,F
C1  2821500  821500  821490   0      1       7.069   3   3           80   20.50   19.00   0.015       0           0   0.1     1     0  4  * E,F
*********************************
*****  KITCHEN BRANCH  *********
*********************************
C1  9822000  822000   82200   0      6       0.000   5   300         500   -2.10   -2.50    0.02       3           3     0     0     0  1  * BOUNDARY
** US 41
C1  1822100  822100  822000   0      2      50.000   5   10          113   -2.00   -2.00   0.015       0           0   0.1     1     0  1  * FDOT
C1  2822100  822100  822000   0      2      45.000   5   9           150   -2.10   -2.10   0.015       0           0   0.1     1     0  1  * FDOT
C1  3822100  822100  822000   0      2      45.000   5   9           150   -2.10   -2.10   0.015       0           0   0.1     1     0  1  * FDOT
**********************
*** KRACKER AVE TRIB **
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C1  9822150  822150  822100   0      6       0.000   8   4           965   -2.00   -2.00   0.035       6           6     0     0     0  1  * EM
C1  9822190  822190  822150   0      6       0.000   8   4           890   -2.00   -2.00   0.035       6           6     0     0     0  1  * E,F&M
** CORNER OF KRACKER AND PHILLIPS
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C1  1822200  822200  822190   0      1      15.904  4.5   4.5          80   -1.00   -2.00   0.015       0           0   0.1     1     0  4  * E,F
*******************************
*****  KITCHEN BRANCH CONT'D) **
*******************************
C1  9822110  822110  822100   0      8       0.000  0     0           785   -1.10   -2.00   0.035 9822110 0.001246497     0     0     0  1  * E,F &M
** PHILLIPS LANE
C1  1822250  822250  822110   0      2     142.500  4.75  30           80   -1.10   -1.10   0.015       0           0   0.1     1     0  4  * E,F , S#W-3
C1  9822290  822290  822250   0      8       0.000  0     0         1460   -0.65   -1.10   0.035 9822290 0.000408219     0     0     0  1  * S#W-3
** CSX R.R.
C1  1822300  822300  822290   0      1      12.566  4     4          105   -0.65   -0.65   0.015       0           0   0.1     1     0  1  * FDOT
C1  2822300  822300  822290   0      1      12.566  4     4          105   -0.65   -0.65   0.015       0           0   0.1     1     0  1  * FDOT
C1  3822300  822300  822290   0      1      12.566  4     4          105   -0.65   -0.65   0.015       0           0   0.1     1     0  1  * FDOT
C1  9822350  822350  822290   0      6       0.000  8     20        1870    0.00   -0.65   0.035       4           4     0     0     0  1  * EM (DBL DITCH)
C1  9822390  822390  822350   0      6       0.000  8     20        2265    1.00    0.00   0.035       4           4     0     0     0  1  * EM (DBL DITCH)
**  SIDE DITCH CROSSINGS OF CSX R.R. 4300 FEET SOUTH OF MAIN CSX-KITCHEN CROSSING
C1  1822400  822400  822390   0      1      12.566  4     4          100    1.50    1.00   0.015       0           0   0.1     1     0  1  * E,F
C1  2822400  822400  822390   0      1      12.566  4     4          100    1.50    1.00   0.015       0           0   0.1     1     0  1  * E,F
C1  9822410  822410  822400   0      6       0.000  12    20        1240    2.80    1.50   0.035     2.2         2.2     0     0     0  1  * E,F (DBL DITCH)
** SIDE DITCH CROSSINGS OF CSX R.R. 1.05 MILES SOUTH OF MAIN CSX-KITCHEN CROSSING
C1  1822420  822420  822410   0      1       3.142  2     2           65    3.00    2.80   0.015       0           0   0.1     1     0  4  * FDOT
C1  2822420  822420  822410   0      3      11.310  3     4.8         65    3.00    2.80   0.026       0           0   0.5     1     0  4  * FDOT
C1  9822490  822490  822420   0      6       0.000  12    20        4100    4.00    3.00   0.035     2.2         2.2     0     0     0  1  * E,F, S#W-8
** CR 672/BIG BEND ROAD @ CSX RR
C1  1822500  822500  822490   0      3      12.566  3.2   5          115    5.00    4.00   0.015       0           0   0.1     1     0  1  * E,F, S#W-8
C1  2822500  822500  822490   0      1       4.909  2.5   2.5        115    5.00    4.00   0.015       0           0   0.1     1     0  1  * E,F, S#W-8
*****************************
*** KRACKER AVE OUTFALL******
*****************************
** KRACKER AVE.
C1  1822050  822050  822000   0      1       3.142  2     2           80    0.50   -0.50   0.015       0           0   0.1     1     0  4  * E,F
C1  2822050  822050  822000   0      3       5.027  2     3.2         80    0.50   -0.50   0.015       0           0   0.1     1     0  4  * E,F
***********************************
******  SIMS BRANCH  **************
***********************************
C1  9823000  823000   82300   0      6       0.000  5     300        500   -2.00   -2.50    0.02       3           3     0     0     0  1  * BOUNDARY
** N OF CSX R.R. AT BIG BEND INDUSTRIAL PARK - OUTFALL
C1  1823100  823100  823000   0      1      19.635  5     5          140   -2.00   -2.00   0.015       0           0   0.1     1     0  1  * E,F
*C1  9823170  823170  823100   0      6       0.000  10    6         2515   -0.50   -2.00   0.035    1.75        1.75     0     0     0  1  * E,F
C1  9823170  823170  823100   0      8       0.000  0.0   0.0       2515   -0.50   -2.00   0.035 9823170 0.000596      0     0     0  1  * E,F
** CSX R.R. AT BIG BEND INDUSTRIAL PARK
C1  1823180  823180  823170   0      2      50.000  5     10           80    1.26    1.92   0.015       0           0   0.1     1     0  4  * F, S#W-4
** CSX R.R. AT BIG BEND INDUSTRIAL PARK
C1  1823190  823190  823180   0      1      12.566  4     4            80    0.09    1.17   0.026       0           0   0.5     1     0  4  * F, S#W-4
C1  2823190  823190  823180   0      1      12.566  4     4            80    0.09    1.17   0.026       0           0   0.5     1     0  4  * F, S#W-4
C1  3823190  823190  823180   0      1      12.566  4     4            80    0.09    1.17   0.026       0           0   0.5     1     0  4  * F, S#W-4
** CSX R.R. AT BIG BEND INDUSTRIAL PARK
C1  1823200  823200  823190   0      1      12.566  4     4            80    0.22    1.18   0.015       0           0   0.1     1     0  4  * F, S#W-4
C1  2823200  823200  823190   0      1      12.566  4     4            80    0.22    1.18   0.015       0           0   0.1     1     0  4  * F, S#W-4
*C1  9823290  823290  823200   0      6       0.000  10    3          1160    1.40    0.22   0.035   0.875       0.875     0     0     0  1  * E,F
C1  9823290  823290  823200   0      8       0.000  0.0   0.0        1160    1.40    0.22   0.035 9823290     0.001017  0     0     0  1  * E,F
** US 41
C1  1823300  823300  823290   0      2      40.000  4     10           115    3.00    1.40   0.015       0           0   0.1     1     0  2  * FDOT
C1  9823380  823380  823300   0      8       0.000  0     0           1360    3.20    3.00   0.035 9823380 0.000247059     0     0     0  1  * S#W-6 COPY
C1  9823390  823390  823380   0      8       0.000  0     0            900    3.30    3.20   0.035 9823390 0.000211111     0     0     0  1  * S#W-6
** POWELL RD.
C1  1823400  823400  823390   0      4      21.614  4.3   6.4          95    3.60    3.30   0.026       0           0   0.5     1     0  4  * E,F
*C1  9823490  823490  823400   0      6       0.000  7     4          2000    5.00    3.60   0.035       1           1     0     0     0  1  * E,F
C1  9823490  823490  823400   0      8       0.000  0.0   0.0        2000    5.00    3.60   0.035 9823490 0.000700      0     0     0  1  * E,F
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*****  JACKSON BRANCH *************
************************************
C1  9824000  824000   82400   0      6       0.000  5   300          500   -2.54   -2.60    0.02       3           3     0     0     0  1  * BOUNDARY
************************************
*** BIG BEND INDUSTRIAL DRAINAGE**
************************************
** WYANDOTTE ROAD
C1  1824080  824080  824000   0      2      56.000  7   8            175   -1.01   -2.54   0.015       0           0   0.1     1     0  1  * S#W-10
C1  2824080  824080  824000   0      2      56.000  7   8            175   -1.01   -2.54   0.015       0           0   0.1     1     0  1  * S#W-10
C1  9824085  824085  824080   0      6       0.000  7   20          2125    0.30   -1.01   0.035    1.25        1.25     0     0     0  1  * E,F
** TECO GRAVEL RD - WETLAND OUTFALL
C1  1824100  824100  824085   0      1      23.758  5.5 5.5          100    0.30    0.30   0.026       0           0   0.5     1     0  1  * E, F, S#W-9
C1  9824110  824110  824100   0      6       0.000  7   10          1800    3.40    1.00   0.035       1           1     0     0     0  1  * EM
** US 41 - 3150 FEET NORTH OF 672
C1  1824200  824200  824110   0      1       7.069  3   3            122    3.60    3.40   0.015       0           0   0.1     1     0  1  * FDOT
************************
*** TRIB 1 TO WETLAND *
************************
C1  9824120  824120  824100   0      6       0.000  7   10          2690    1.50    1.00   0.035       1           1     0     0     0  1  * EM
C1  9824130  824130  824120   0      6       0.000  7   10          1490    3.70    1.50   0.035       1           1     0     0     0  1  * EM
** US 41 - 1530 FEET NORTH OF CR 672
C1  1824300  824300  824130   0      1       7.069  3   3              66    3.90    3.70   0.015       0           0   0.1     1     0  4  * FDOT
************************
*** TRIB 2 TO WETLAND *
************************
C1  9824140  824140  824120   0      6       0.000  7   10          2615    5.00    1.50   0.035       1           1     0     0     0  1  * EM
** US 41 - 470 FEET NORTH OF CR 672
C1  1824400  824400  824140   0      1       7.069  3   3            138    5.20    5.00   0.015       0           0   0.1     1     0  1  * FDOT
******************************
***** JACKSON BRANCH MAIN ****
******************************
** BIG BEND/CR 672 OUTFALL @ BEACH RD.
C1  1824490  824490  824000   0      1       4.909  2.5 2.5          100    1.15    1.59   0.015       0           0   0.1     1     0  1  * S#W-11
C1  2824490  824490  824000   0      1       4.909  2.5 2.5          100    1.15    1.59   0.015       0           0   0.1     1     0  1  * S#W-11
C1  9824500  824500  824490   0      6       0.000  5   4           2550    2.00    1.15   0.035       2           2     0     0     0  1  * E,F,S#W-11
C1  9824590  824590  824500   0      6       0.000  5   4           2780    3.00    2.00   0.035       2           2     0     0     0  1  * E,F
** US 41 - 910 FEET SOUTH OF CR 672
C1  1824600  824600  824590   0      2      40.000  4   10           110    3.50    3.00   0.015       0           0   0.1     1     0  1  * E,F
C1  9824650  824650  824600   0      6       0.000  7   15          2250    5.00    3.50   0.035       1           1     0     0     0  1  * EM
****************************************
*****  NEWMAN BRANCH MAIN  ***********
****************************************
C1  9825100  825100   82510   0      6       0.000  12  200          500   -4.00   -4.00    0.02       5           5     0     0     0  1  * BOUNDARY
** DICKMAN DR.
C1  1825200  825200  825100   0      2     480.000  12  40           125   -4.00   -4.00   0.015       0           0   0.1     1     0  1  * E,F BRIDGE
*C1  9825600  825600  825200   0      8       0.000  0   0           1000   -4.00   -4.00   0.035 9825600      0.0001     0     0     0  1  * S#W-13 COPY
C1  9825610  825610  825600   0      8       0.000  0   0           2550   -3.60   -4.00   0.035 9825610 0.000256863     0     0     0  1  * S#W-13
****************************************
*****  NEWMAN BRANCH SOUTHERN OUTFALL ***
****************************************
** DICKMAN DRIVE
C1  1825650  825650  826190   0      8       0.000  0   0            475   -4.00   -4.00   0.015 1825650      0.0001     0     0     0  1  * S#W-16 BR:
LowCh=9.29, Rd=11.55
C1  9825650  825650  825600   0      8       0.000  0   0            825   -4.00   -4.00   0.035 9825650      0.0001     0     0     0  1  * S#W-13 COPY
C1  9825653  825653  825650   0      8       0.000  0   0           2050   -1.05   -4.00   0.035 9825653 0.001539024     0     0     0  1  * S#W-13 COPY
** PIERRES WAY
C1  1825655  825655  825653   0      3       5.498  2   3.5          50   -1.29   -1.05   0.026       0           0   0.5     1     0  4  * S#W-14
C1  9825615  825615  825655   0      8       0.000  0   0            650   -1.00   -1.29   0.035 9825615 0.000546154     0     0     0  1  * S#W-13 COPY
C1  9825616  825615  825610   0      8       0.000  0   0            235   -3.00   -3.60   0.035 9825616 0.002653191     0     0     0  1  * S#W-13 COPY
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** changed 825615 to storage 700 ft x 70 ft 7/25/00
** ELLSBERRY RD.
C1  1825700  825700  825615   0      1       3.142   2    2          150    3.00    1.50   0.026       0          0   0.5     1     0  1  * E,F
*************************************
*****  NEWMAN BRANCH MAIN (CONT'D)****
*************************************
C1  9825620  825620  825615   0      6       0.000   12   25        1580    1.20   -3.00   0.035   0.313      0.313    0     0     0  1  * E,F
** US 41
C1  1825630  825630  825620   0      2      96.000   8    12         121    1.20    1.20   0.015       0          0   0.1     1     0  1  * FDOT
C1  2825630  825630  825620   0      2      96.000   8    12         121    1.20    1.20   0.015       0          0   0.1     1     0  1  * FDOT
** CSX R.R.
C1  1825800  825800  825630   0      2      96.000   6    16          80    3.63    3.58   0.015       0          0   0.1     1     0  4  * FDOT
C1  2825800  825800  825630   0      2      96.000   6    16          80    3.63    3.58   0.015       0          0   0.1     1     0  4  * FDOT
C1  9825900  825900  825800   0      6       0.000   12   15         680    4.00    3.63   0.035       3          3     0     0     0  1  * EM
*****************************************
*****  NEWMAN BRANCH TECO DITCH OUTFALL**
*****************************************
** TECO SOUTH DITCH TO DICKMAN ROAD
C1  9825220  825220  825200   0      6       0.000   10   30        5910    4.00   -4.00   0.035       5          5     0     0     0  1  * E,F
C1  9825410  825410  825220   0      6       0.000   10   25         810    6.10    4.00   0.035      10         10     0     0     0  1  * EM
** US 41
C1  1825420  825420  825410   0      1       7.069   3    3          129    6.30    6.10   0.015       0          0   0.1     1     0  1  * FDOT
C1  9825430  825430  825420   0      6       0.000   10   10        1170    6.50    6.30   0.035       1          1     0     0     0  1  * EM
*****************
***** EXISTING INTERBASIN CONNECTION
C1  9825429  825429  825630   0      6       0.000   10   10        1700     8.0    3.50   0.035       2          2     0     0     0  1  * EM
** CSX R.R. UNDER POWER LINES
C1  1825500  825500  825430   0      1       4.909   2.5  2.5        125    9.41    8.82   0.015       0          0   0.1     1     0  1  * FDOT
** TECO NORTH DITCH TO DICKMAN ROAD
C1  9825230  825230  825200   0      6       0.000   16   20        5900    4.00   -4.00   0.035       4          4     0     0     0  1  * E,F
C1  1825230  825230  825220   0      1      15.904   4.5  4.5         85    4.00    4.00   0.026       0          0   0.5     1     0  4  * E,F
** US 41
C1  1825300  825300  825230   0      2      40.000   5    8          110    4.00    4.00   0.015       0          0   0.1     1     0  1  * FDOT
C1  9825390  825390  825300   0      6       0.000   16   20         845    4.00    4.00   0.035       4          4     0     0     0  1  * E,F
** CSX R.R.
C1  1825400  825400  825390   0      1       7.069   3    3          135    5.50    4.00   0.015       0          0   0.1     1     0  1  * E,F
***********************************************
**********  APOLLO BEACH **********************
***********************************************
C1  9826150  826150   82615   0      6       0.000   7    200        500   -4.00   -4.00   0.025       3          3     0     0     0  1  * BOUNDARY
C1  9826190  826190  826150   0      8       0.000   0    0         1450   -4.00   -4.00   0.035 9826190     0.0001    0     0     0  1  * S#W-17 copy
C1  9826200  826200   82620   0      6       0.000   7    200        500   -3.50   -3.50   0.025       3          3     0     0     0  1  * BOUNDARY
C1  9826245  826245  826200   0      8       0.000   0    0         7150   -3.20   -3.50   0.035 9826245 0.000141958    0     0     0  1  * S#W-17 copy
** FAIRWAY BLVD.
C1  1826250  826250  826245   0      2     216.000   12   18          60   -3.17   -3.20   0.015       0          0   0.1     1     0  4  * F ,  S#W-17
C1  9826290  826290  826250   0      8       0.000   0    0         5140    0.00   -3.17   0.035 9826290 0.000716732    0     0     0  1  * S#W-17 copy
** US 41
C1  1826295  826295  826290   0      1      15.904   4.5  4.5        180    6.00    3.00   0.026       0          0   0.5     1     0  1  * E,F
** CSX R.R.
C1  1826400  826400  826295   0      1       4.909   2.5  2.5        120    8.38    7.59   0.015       0          0   0.1     1     0  1  * FDOT
C1  2826400  826400  826295   0      1       9.621   3.5  3.5        120    8.14    7.68   0.015       0          0   0.1     1     0  1  * FDOT
***************
*** TRIB 1 ****
***************
** US 41 DRIVEWAY CULVERT
C1  1826300  826300  826290   0      1      38.485   7    7           80    1.00    0.00   0.026       0          0   0.5     1     0  4  * E,F
C1  9826305  826305  826300   0      6       0.000   10   6          485    1.40    1.00   0.035   1.183      1.183    0     0     0  1  * E,F
** US 41 DRIVEWAY CULVERT
C1  1826310  826310  826305   0      1      28.274   6    6          120    1.50    1.40   0.015       0          0   0.1     1     0  1  * E,F
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C1  9826315  826315  826310   0      6       0.000   10   6          595    2.00    1.50   0.035       2          2     0     0     0  1  * E,F
** US 41 DRIVEWAY CULVERT
C1  1826320  826320  826315   0      1      19.635    5   5          340    2.50    2.20   0.015       0          0   0.1     1     0  1  * E,F
C1  9826325  826325  826320   0      6       0.000   10   6          260    6.00    2.50   0.035       2          2     0     0     0  1  * E,F
** CSX R.R. & US 41
C1  1826350  826350  826325   0      1       7.069    3   3          300    8.12    6.88   0.015       0          0   0.1     1     0  1  * FDOT
***********************************************
**********  WILDCAT CREEK *********************
***********************************************
C1  9826450  826450   82645   0      6       0.000  6.5 200          500   -3.50   -3.50   0.025       3          3     0     0     0  1  * BOUNDARY
C1  9826500  826500  826450   0      8       0.000    0   0         2950   -3.50   -3.50   0.035 9826500     0.0001     0     0     0  1  * S#W-17 copy
** GOLF COURSE PATH
C1  1826550  826550  826500   0      6       0.000   10  20          195   -2.00   -3.50   0.035       6          6     0     0     0  1  * EM-Golf Cart
path not modeled
C1  9826560  826560  826500   0      8       0.000    0   0         4950   -2.53   -3.50   0.035 9826560 0.00029596     0     0     0  1  * S#W-17 COPY
** GOLF & SEA BLVD. @ MILLER MAC RD.
C1  1826570  826570  826560   0      1      28.274    6   6          100   -2.02   -2.53   0.015       0          0   0.1     1     0  1  * F, S#W-18
C1  2826570  826570  826560   0      1      28.274    6   6          100   -2.62   -1.99   0.015       0          0   0.1     1     0  1  * F, S#W-18
C1  3826570  826570  826560   0      1      28.274    6   6          100   -2.55   -2.07   0.015       0          0   0.1     1     0  1  * F, S#W-18
C1  9826600  826600  826570   0      6       0.000    9  20         1210   -1.00   -2.62   0.035   0.833      0.833     0     0     0  1  * E,F
*C1  9826640  826640  826600   0      6       0.000    8  20         4055    2.20   -1.00   0.035       1          1     0     0     0  1  * E,F
C1  9826640  826640  826600   0      8       0.000  0.0 0.0         4055    2.20   -1.00   0.035 9826640 0.000789     0     0     0  1  * E,F
** US 41
C1  1826650  826650  826640   0      2      96.000    8  12          116    2.20    2.20   0.015       0          0   0.1     1     0  1  * FDOT
C1  2826650  826650  826640   0      2      96.000    8  12          116    2.20    2.20   0.015       0          0   0.1     1     0  1  * FDOT
C1  3826650  826650  826640   0      2      96.000    8  12          116    2.20    2.20   0.015       0          0   0.1     1     0  1  * FDOT
*C1  9826665  826665  826650   0      6       0.000   10  12          715    2.64    2.20   0.035     1.5        1.5     0     0     0  1  * E,F
C1  9826665  826665  826650   0      8       0.000  0.0 0.0          715    2.64    2.20   0.035 9826665 0.000615     0     0     0  1  * E,F
***************
*** TRIB 1 *****
***************
C1  9826685  826685  826665   0      6       0.000    8   4          650    8.98    4.00   0.035     4.5        4.5     0     0     0  1  * EM
** CSX R.R AT RUSKIN VEGETABLE CORP.
C1  1826700  826700  826685   0      1       4.909  2.5 2.5          380    9.28    8.98   0.015       0          0   0.1     1     0  1  * FDOT
***********************************************
**********  WILDCAT CREEK (CONT'D)*************
***********************************************
** CSX R.R
C1  1826750  826750  826665   0      2     128.000    8  16           85    2.64    2.64   0.015       0          0   0.1     1     0  4  * FDOT
C1  2826750  826750  826665   0      2     128.000    8  16           85    2.64    2.64   0.015       0          0   0.1     1     0  4  * FDOT
C1  9826780  826780  826750   0      6       0.000   10  12         1460    8.03    2.64   0.035     1.5        1.5     0     0     0  1  * E,F
** SAND FIELD DRIVE
C1  1826850  826850  826780   0      1      12.566    4   4          100    8.27    8.68   0.026       0          0   0.5     1     0  1  * F, S#W-19
C1  2826850  826850  826780   0      1      12.566    4   4          100    8.31    8.03   0.026       0          0   0.5     1     0  1  * F, S#W-19
C1  9826855  826855  826850   0      6       0.000   10   8         2120   17.50    8.27   0.035   1.375      1.375     0     0     0  1  * E,F
** UNNAMED DIRT ROAD (SECTION 27)
C1  1826860  826860  826855   0      4      15.268  3.6 5.4          100   18.00   17.50   0.026       0          0   0.5     1     0  1  * E,F
C1  9826865  826865  826860   0      6       0.000   10   6         2080   29.00   18.00   0.035     0.9        0.9     0     0     0  1  * E,F
** TECO POWER LINE ACCESS ROAD
C1  1826900  826900  826865   0      1      12.566    4   4           60   29.50   29.00   0.026       0          0   0.5     1     0  4  * E,F
C1  2826900  826900  826865   0      1      12.566    4   4           60   29.50   29.00   0.026       0          0   0.5     1     0  4  * E,F
C1  9826940  826940  826900   0      6       0.000   15   6         1900   41.00   29.50   0.035      10         10     0     0     0  1  * EM
** I-75
C1  1826950  826950  826940   0      2      24.000    4   6          304   41.10   41.00   0.015       0          0   0.1     1     0  1  * FDOT
C1  2826950  826950  826940   0      2      24.000    4   6          304   41.10   41.00   0.015       0          0   0.1     1     0  1  * FDOT
***************
*** TRIB 2 *****
***************
C1  9826790  826790  826750   0      6       0.000   10   5         4810   27.50    2.64   0.035     3.2        3.2     0     0     0  1  * EM
```

```
** TECO POWER LINES ACCESS ROAD
C1  1826800  826800  826790   0      1      12.566   4    4          140   28.00   27.50   0.026       0          0   0.5     1     0  1  * assumed same as
1826900/2826900
C1  2826800  826800  826790   0      1      12.566   4    4          140   28.00   27.50   0.026       0          0   0.5     1     0  1  * assumed same as
1826900/2826900
***************
*** TRIB 3 *****
***************
C1  9826970  826970  826850   0      6       0.000  10    8         1170    8.50    8.27   0.035   1.375      1.375     0     0     0  1  * E,F
C1  9826980  826980  826970   0      6       0.000  10    6         1525   10.00    8.50   0.035    0.75       0.75     0     0     0  1  * E,F
** UNNAMED DIRT ROAD
C1  1826990  826990  826980   0      1      15.904  4.5  4.5         85   10.50   10.00   0.026       0          0   0.5     1     0  4  * E,F
**************************************************
***** MISCELLANEOUS SOUTHERN COASTAL BASINS *********
**************************************************
C1  9829000  829000   82900   0      6       0.000   4   200         500   -1.00   -1.00   0.025       3          3     0     0     0  1  * BOUNDARY
C1  9829100  829100  829000   0      8       0.000   0    0          450    1.70   -1.00   0.035 9829100     0.0061     0     0     0  1  * S#W-43
C1  9829190  829190  829000   0      8       0.000   0    0         1600   -1.00   -1.00   0.035 9829190     0.0001     0     0     0  1  * S#W-40 COPY
** 19TH AVE. NW & 14TH ST. NW
C1  1829200  829200  829190   0      3       7.163  2.4  3.8         100    0.00   -1.00   0.015       0          0   0.1     1     0  1  * E,F
C1  2829200  829200  829190   0      1       3.142   2    2          100    0.00   -1.00   0.015       0          0   0.1     1     0  1  * E,F
C1  9829400  829400   82940   0      6       0.000   7  100          500   -4.00   -4.00    0.02    7.00       7.00     0     0     0  1  * BOUNDARY
C1  9829410  829410  829400   0      6       0.000  10   30         1100   -3.90   -4.00   0.025    3.75       3.75     0     0     0  1  * F, S#W-41 COPY
** 32ND ST NW & SEAGRAPE DR.
C1  1829450  829450  829410   0      2     253.000  11   23           50   -3.81   -3.90   0.015       0          0   0.1     1     0  4  * S#W-41 BR:
LowCH=6.92, Rd=9.44
C1  9829500  829500  829450   0      8       0.000   0    0         1350   -3.50   -3.81   0.035 9829500 0.00032963     0     0     0  1  * F, S#W-41
C1  9829300  829300   82930   0      6       0.000   4  200          500   -1.50   -1.50   0.025       3          3     0     0     0  1  * BOUNDARY
C1  9829501  829500  829300   0      8       0.000   0    0         1400   -1.10   -1.50   0.035 9829501 0.000385714     0     0     0  1  * S#W-40 copy
C1  9829510  829510  829500   0      6       0.000  10   20         1750   -1.00   -1.10   0.035       2          2     0     0     0  1  * EM
** SHELL POINT ROAD @ CEDAR DRIVE
C1  1829600  829600  829510   0      1       4.909  2.5  2.5          65   -0.50   -1.00   0.015       0          0   0.1     1     0  4  * E,F
*====================================
*  IRREGULAR CHANNEL CROSS-SECTIONS
*====================================
**NC    XNL     XNR     XNCH
**X1    SECNO   NUMSTA  STCHL   STCHR   XLOBL   XLOBR   LEN     PXSECR  PSXECE
**GR    EL1     STA1    EL2     STA2    EL3     STA3    EL4     STA4    EL5     STA5
***
* DUG CREEK
***           SURVEY W-1  F.P. ADDED (SWFWMD MAPS)
NC          0.10    0.10    0.025
X1    9821100     11      0      82       0       0    144     0       0
GR     5.8  -200      5       0     4.7      11     1.6      20     0.8      28
GR     -1.1      47      0.4      51     1.9      69       5     74     5.1      82
GR     5.8      1600
***           SURVEY W-1  F.P. ADDED (SWFWMD MAPS)
NC          0.10    0.10    0.03
X1    9821190     11      0      82       0       0   1615     0       0
GR     7.0  -800      5       0     4.7      11     1.6      20     0.8      28
GR     -4.5      47      0.4      51     1.9      69       5     74     5.1      82
GR     6.5     1500
***           SURVEY W-2  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.035
X1    9821290    8         0      49       0       0   1890     0       0
GR    12.5  -400    10.7       0    10.4      10    0.87      20    1.2      29
GR    6.4   39       7.1      49    12.5      750
****
* KITCHEN BRANCH
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***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW
NC          0.16    0.16    0.04
X1    9822110     8        0      70     0       0     785       0       0
GR     5.0  -480   3.0  -130   1.0    0    -1.1   20    -1.1   50
GR     1.0   70    3.0   100     5.0   420
***           SURVEY W-3  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.04
X1    9822290     9        0     112       0       0    1460    0       0
GR     10  -500      3.1   0      3.4     33     0.8      41    -0.65     56
GR     1     74      5.5   85     5.1     112     10     820
****
* SIMS BRANCH
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9823170     11       0      21.6   0       0     2515       0       0
GR    7.0   -25.0    6.0   -20     5.0    -10     4.0       0     -0.5    7.8
GR    -0.5    13.8   4.0    21.6   5.0    31.6    5.0     622    6.0    662
GR    7.0    665
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9823290     13       0      10.0   0       0     1160       0       0
GR    8.0   -250     7.0   -220    6.5    -200    6.5     -100    6.0    -10.0
GR    5.5     0.0    1.4    3.5    1.4     6.5    5.5     10.0   6.0    20.0
GR    7.0    90      7.0    160    8.0    170.0
***           SURVEY W-6  COPY  Rt.Bank ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.04
X1    9823380     10       0      81     0       0     1360       0       0
GR    9.0   -1100    8.9      0     8.7     41     4.6      50     3.2      58
GR    3.6      66    8.7     69     8.8     76     8.9      81     9.1   681
***           SURVEY W-6  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.04
X1    9823390     10       0     81       0       0    900    0       0
GR    9.8   -1200    8.9      0     8.7     41     4.6      50     3.3      58
GR    3.6      66    8.7     69     9.9     76     10      81      10.1   1481
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9823490     11       0      10.0   0       0     2000       0       0
GR    12.5   -20     10.5  -15.0   10.0  -10      8.0     0      5.0      3
GR     5.0     7     8.0    10.0    9.0    20.0   10     210     10.5    610
GR    12.5   620
***
* NEWMAN BRANCH
***           SURVEY W-13 COPY  R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
******* obstructed by earthen berm at elev 4.8!!!
*NC          0.16    0.16    0.025
*X1    9825600     8         0     131       0    0     1000     0       0
*GR    7.5  -100   4.19     0    -1.8     1    -4.0      51     1.6     101
*GR    5.0   106    5.1     131       5.2     631
***           SURVEY W-13  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825610     8         0     131       0    0   2550     0       0
GR    7.5  -300   4.19     0    -1.8     1    -3.6      51     1.6     101
GR    5.8   106    5.7     131       5.9     431
***           SURVEY W-16 BRIDGE  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    1825650     9        0     160       0    0    475     0       0
GR    7.7  -450   7.66       0    6.56      25   -1.24    33.6   -4.0    61
GR    0.84  106   6.66     112    6.76     160       6.8  360
***           SURVEY W-13  COPY  R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
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NC          0.16    0.16    0.025
X1    9825650     8          0     131        0    0     825      0        0
GR    10.0 -500   4.19      0    -1.8      1    -4.0       51     1.6      101
GR    5.8   106    5.7      131        7.0      731
***           SURVEY W-13  COPY (+2.55') F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825653     8          0     131        0    0    2050      0        0
GR    7.0  -450   4.19      0    0.75      1    -1.05      51     4.15     101
GR    5.8   106    5.7      131        7.0      331
***           SURVEY W-13  COPY (+2.55') F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825615     8          0     131        0    0     650      0        0
GR    7.0  -450   4.19      0    0.75      1    -1.00      51     4.15     101
GR    5.8   106    5.7      131        7.0      331
***           SURVEY W-13  COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825616     8          0     131        0    0     235      0        0
GR    7.5  -300   4.19      0    -1.8      1    -3.0       51     1.6      101
GR    5.8   106    5.7      131        5.9      431
****          SURVEY W-13  COPY (+2' TO 5.1') F.P. ADDED (SWFWMD MAPS)
*NC         0.16    0.16    0.025
*X1   9825640     8          0     131        0    0    310      0        0
*GR   9.4  -300   9.29      0    3.3       1    1.5       51     6.7      101
*GR   7.8   106    7.7      131        8.2      431
***
* APOLLO BEACH/WILDCAT CREEK
***
***           SURVEY W-17  COPY  R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826190     10         0     191        0        0    1450       0        0
GR    6  -450    5.0   -350    4.1        0   -1.07        2   -4.00       83
GR    1.33 164    4.81 166      4.63  191      5.0       300       5.5     350
***           SURVEY W-17  COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826245     8          0     191        0        0    7150       0        0
GR    7.0   -400    4.1        0   -1.07        2   -3.20       83     1.33      164
GR    6.81      166       6.63      191         7.0      400
***           SURVEY W-17  COPY  (+3')R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826290     8          0     191        0        0    5140       0        0
GR    8.0   -100    7.1      0      2.07        2   0.0       83     4.33      164
GR    6.81      166       7.63      191         8.0      300
***           SURVEY W-17  COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826500     8          0     191        0        0    2950        0        0
GR    7.0   -100    4.1        0   -1.07        2   -3.50       83     1.33      164
GR    6.81      166       6.63      191         7.0      300
***           SURVEY W-17  COPY (+0.5')R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826560     8          0     191        0        0    4950        0        0
GR    7.0   -100    4.6        0   -0.57        2   -2.53       83     1.83      164
GR    6.81      166       6.83      191         7.0      300
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9826640      9       0       30      0        0     4055        0        0
GR    11    -310     9.5    -300      7.2    0      2.2     5.0      2.2       25
GR    7.2     30     9.0    280      10.0    430     11     450
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
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X1    9826665     12       0      30     0       0     715        0       0
GR    12.0 -510     10.0  -500     9.0   -100    9.0    -20      8.64      0
GR    2.64    9     2.64    21     8.64    30     8.0    80       9.0     130
GR    10.0   230    12     250
***
* COASTAL BASINS
***
***           SURVEY W-43  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.03
X1   9829100     9          0      62       0       0   450        0       0
GR   6.7    -200    3.5       0     3.7      25     2.1      27     1.7      31
GR   2.5    36     2.6       37      3.1      62      6.7    762
***           SURVEY W-40 COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.03
X1  9829190     9          0      80       0       0    1600       0       0
GR    5    -150     1.56     0    1.36      10    0.16       16   -1.00      30
GR    -0.34   44       5.96    55     5.96      80       6    230
***           SURVEY W-41 COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.03
X1  9829500     7        0      75       0       0   1350       0       0
GR      7.59       0    6.45    26.4   -0.41    26.5   -3.50      41   -0.21      57
GR      6.99      64    7.59      75
***           SURVEY W-40 COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.03
X1  9829501     9          0      80       0       0    1400       0       0
GR    6    -100     1.56     0    1.36      10    0.16       16   -1.10      30
GR    -0.34   44       5.96    55     5.96      80       5    2000
*============================
** Junction Data     TW=2
*============================
*  (INPUT) (opt. 200)       (INPUT)HBC Model
*    JUN    GRELEV    Z      QINST    Y0             TOB   Yo or Rd Top
**  DUG CREEK
D1    82100       5      -2   0       2       *    3.5     BOUNDARY
D1   821000       7      -2   0       2       *    5
D1   821100      15    -1.1   0       2       *    5
D1   821190    17.6    -4.5   0       2       *    7.6
D1   821200    17.7    -4.5   0       2       *    7.7     7.5
D1   821290      20    0.87   0       2       *    10
D1   821300      20    0.87   0       2       *    10      10.6
D1   821390      25       8   0       8       *    15
D1   821400      25       9   0       9       *    15      14.9
D1   821490      36      19   0      19       *    26
D1   821500      37    20.5   0    20.5       *    27      26.2
** KITCHEN BRANCH
D1    82200       5    -2.5   0       2       *    3.5     BOUNDARY
D1   822000       7    -2.1   0       2       *    4
D1   822050      10     0.5   0       2       *    5       4.5
D1   822100      15    -2.1   0       2       *    5       6.5
D1   822110      15    -1.1   0       2       *    5
D1   822150      15      -2   0       2       *    5
D1   822190      15      -2   0       2       *    5
D1   822200      15      -1   0       2       *    5       6.5
D1   822250      16    -1.1   0       2       *    6       6.08
D1   822290      15   -0.65   0       2       *    5
D1   822300      16   -0.65   0       2       *    6       12
D1   822350      17       0   0       2       *    7
D1   822390      20       1   0       2       *    10
D1   822400      20     1.5   0       2       *    10      12.5
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D1   822410      20      2.8   0      2.8       *    10
D1   822420      20        3   0        3       *    10       12.5
D1   822490      20        4   0        4       *    10
D1   822500      20        5   0        5       *    10       15.4
** SIMS BRANCH
D1    82300       5     -2.5   0        2       *   3.5       BOUNDARY
D1   823000       7       -2   0        2       *     6
D1   823100      17       -2   0        2       *     7       6.5
D1   823170      17     -0.5   0        2       *     7
D1   823180      17     1.17   0        2       *     7       6
D1   823190      16     0.09   0        2       *     6       6
D1   823200      16     0.22   0        2       *     6       6
D1   823290      19      1.4   0        2       *     9
D1   823300      19        3   0        3       *     9       9
D1   823380      18      3.2   0      3.2       *     8
D1   823390      20      3.3   0      3.3       *    10
D1   823400      20      3.6   0      3.6       *    10       9.8
D1   823490    20.5        5   0        5       *  10.5
** JACKSON BRANCH
D1    82400       5     -2.6   0        2       *   3.5       BOUNDARY
D1   824000       7    -2.54   0        2       *     7
D1   824080    16.5    -1.01   0        2       *   6.5       6.5
D1   824085      16      0.3   0        2       *     6
D1   824100      16      0.3   0        2       *     6       Yo=3, 5.5
D1   824110    16.5      3.4   0      3.4       *   6.5
D1   824120      16      1.5   0        2       *     6
D1   824130      18      3.7   0      3.7       *     8
D1   824140      18        5   0        5       *     8
D1   824200      17      3.6   0      3.6       *     7       9.3
D1   824300      18      3.9   0      3.9       *     8       10
D1   824400      21      5.2   0      5.2       *    11       11
D1   824490    17.5     1.15   0        2       *   7.5       7.5
D1   824500      16        2   0        2       *     6
D1   824590      18        3   0        3       *     8
D1   824600      20      3.5   0      3.5       *    10       12.5
D1   824650      20        5   0        5       *    10       Yo=8
** NEWMAN BRANCH
D1   82510        9       -4   0        2       *   BOUNDARY
D1   825100       9       -4   0        2       *     4
D1   825200      15       -4   0        2       *     5       5
D1   825220      20        4   0        4       *    10
D1   825230      20        4   0        4       *    10
D1   825300      22        4   0        4       *    12       12
D1   825390      20        4   0        4       *    10
D1   825400      22      5.5   0      5.5       *    12       15
D1   825410      22      6.1   0      6.1       *    12
D1   825420      22      6.3   0      6.3       *    12       12.8
D1   825429    22.5      8.0   0      8.0       *  12.4
D1   825430    22.5      6.5   0      6.5       *  12.5
D1   825500      23     9.41   0     9.41       *    13       13
D1   825600      11       -4   0        2       *     7
D1   825610      11     -3.6   0        2       *     7
D1   825615      11       -3   0        2       *     7
D1   825620      15      1.2   0        2       *     9
D1   825630      23      1.2   0        2       *    13       13.5
*D1   825640     17      1.5   0        2       *     7
D1   825650      11       -4   0        2       *     5
D1   825653      11    -1.05   0        2       *     6
D1   825655      11    -1.29   0        2       *     6
```

D1	825700	19	3	0	3	*	9	9.2
D1	825800	23	3.63	0	3.63	*	13	13.5
D1	825900	20	4	0	4	*	10	
** APOLLO BEACH/WILDCAT CREEK								
D1	82615	5	-4	0	2	*	3.5	BOUNDARY
D1	82620	5	-3.5	0	2	*	3.5	BOUNDARY
D1	82645	5	-3.5	0	2	*	3.5	BOUNDARY
D1	826150	9	-4	0	2	*	8	
D1	826190	14.5	-4	0	2	*	4.5	
D1	826200	9	-3.5	0	2	*	6	
D1	826245	16	-3.2	0	2	*	6	
D1	826250	16	-3.17	0	2	*	6	10
D1	826290	20	0	0	2	*	10	
D1	826295	23	6	0	6	*	13	14
D1	826300	22	1	0	2	*	12	10
D1	826305	20	1.4	0	2	*	10	
D1	826310	20	1.5	0	2	*	10	10
D1	826315	20	2	0	2	*	10	
D1	826320	20	2.5	0	2.5	*	10	10.2
D1	826325	20	6	0	6	*	10	
D1	826350	21.5	8.12	0	8.12	*	11.5	13
D1	826400	22	8.14	0	8.14	*	12	14
D1	826450	9	-3.5	0	2	*	7	
D1	826500	15	-3.5	0	2	*	5	6
D1	826550	14	-2	0	2	*	4	4
D1	826560	14	-2.53	0	2	*	4	
D1	826570	16	-2.62	0	2	*	6	5
D1	826600	15	-1	0	2	*	5	
D1	826640	18	2.2	0	2.2	*	8	
D1	826650	21	2.2	0	2.2	*	11	11
D1	826665	19	2.64	0	2.64	*	9	
D1	826685	22	8.98	0	8.98	*	12	
D1	826700	25	9.28	0	9.28	*	15	14
D1	826750	22	2.64	0	2.64	*	12	12
D1	826780	20	8.03	0	8.03	*	10	
D1	826790	45	27.5	0	27.5	*	35	
D1	826800	44	28	0	28	*	34	34
D1	826850	24	8.27	0	8.27	*	14	14.7
D1	826855	34	17.5	0	17.5	*	24	
D1	826860	34	18	0	18	*	24	24
D1	826865	46	29	0	29	*	36	
D1	826900	46	29.5	0	29.5	*	36	36
D1	826940	57	41	0	41	*	47	
D1	826950	57	41.1	0	41.1	*	47	
D1	826970	25	8.5	0	8.5	*	15	15
D1	826980	28	10	0	10	*	18	
D1	826990	28	10.5	0	10.5	*	18	18.5
** COASTAL BASINS								
D1	82900	5	-1	0	2	*	3.5	BOUNDARY
D1	82930	5	-1.5	0	2	*	3.5	BOUNDARY
D1	82940	5	-4	0	2	*	3.5	BOUNDARY
D1	829000	7	-1	0	2	*	1	
D1	829100	12	1.7	0	2	*	2	2
D1	829190	14	-1	0	2	*	4	
D1	829200	15	0	0	2	*	5	5
D1	829300	7	-1.5	0	2	*	5	
D1	829400	7	-4	0	2	*	1.5	
D1	829410	11.5	-3.9	0	2	*	1.5	
D1	829450	14	-3.81	0	2	*	4	BR: LC=6.92, RD=9.44

```
D1   829500      13    -3.5   0      2       *    3
D1   829510      14      -1   0      2       *    4
D1   829600      15    -0.5   0      2       *    5       5
*====================================
* STORAGE NODES - ROAD OVERTOPPING
* (allows non-overlapping pipe connect.s & weirs)
*====================================
** DUG CREEK
E1 821190  18   5000  0
E1 821200  18   -1    4
E2 0.007   -4.5
    2.0     5.0
    21      7.0
    21     17.0
E1 821290  20   5000    0
E1 821390  25   5000    0
E1 821400  25   -1    3
E2  0.005   9.0
    26.5    14.5
    26.5    24.5
E1 821490  36   5000    0
E1 821500  37   5000    0
** KITCHEN BRANCH
E1 822050  15   5000    0
E1 822000  15   100000  0
E1 822200  15   5000    0
E1 822190  15   5000    0
E1 822250  16   5000    0
E1 822110  15   5000    0
E1 822290  15   5000    0
E1 822400  22   -1   3
E2  0.005   1.5
    17.0    12.0
    17.0    22.0
E1 822390  20   5000    0
E1 822420  22   -1   3
E2  0.005   3.0
    24.0    12.0
    24.0    22.0
E1 822410  20   5000    0
E1 822500  25   -1   3
E2  0.005   5.0
    30.0    14.9
    17.0    24.9
E1 822490  20   5000    0
** SIMS BRANCH
E1 823000  17   5000    0
E1 823100  17   5000    0
E1 823170  17   5000    0
E1 823180  17   -1   3
E2  0.005  1.17
    5.0    5.50
    5.0    15.5
E1 823190  17   -1   3
E2  0.005  0.09
    2.0    5.50
    2.0    15.5
E1 823200  17   5000    0
** storage accounted for in type 8 floodplain
```

```
*E1 823200  17   -1   3
*E2  0.005  0.22
*    5.5    5.50
*    5.5    15.5
E1 823290  20   5000    0
E1 823300  20   -1   3
E2  0.005   3.0
    30     8.50
    30     18.5
E1 823380  20   5000    0
E1 823390  20   5000    0
E1 823400  20   5000    0
** storage accounted for in type 8 floodplain
*E1 823400  20   -1   3
*E2  0.005   3.6
*    3.0     9.3
*    3.0     19.3
E1 823490  20   5000    0
** JACKSON BRANCH
E1 824000  16   5000    0
E1 824085  16   5000    0
E1 824080  16   -1   3
E2  0.005  -1.01
    8.0     5.0
    8.0     15.0
E1 824110  16   5000    0
E1 824130  18   5000    0
E1 824140  18   5000    0
E1 824200  19   -1   3
E2  0.005   3.6
    52.0    8.8
    52.0    18.8
E1 824300  20   -1   3
E2  0.005   3.9
    24.0    9.5
    24.0    19.5
E1 824400  21   5000    0
E1 824490  18   5000    0
E1 824590  18   5000    0
E1 824600  22    -1   3
E2  0.005   3.5
    83.0    12.0
    83.0    22.0
** NEWMAN BRANCH
E1 825100  20   1000000 0
E1 825230  20   5000    0
E1 825300  22    -1   3
E2  0.005   4.0
     3.0    11.5
     3.0    21.5
E1 825390  20   5000    0
E1 825400  25    -1   3
E2  0.005   5.5
    27.0    14.5
    27.0    24.5
E1 825410  20   5000    0
E1 825420  20   5000    0
E1 825429  20   5000    0
E1 825430  20   5000    0
```

```
E1 825500  23    -1   4
E2  0.005   9.41
    3.2     10.0
    18.0    13.0
    18.0    23.0
E1 825620  15   5000    0
E1 825630  23    -1   3
E2  0.005   1.2
    2.0     13.0
    2.0     23.0
E1 825653  11   5000    0
E1 825655  11   5000    0
E1 825615  11   52500   0
E1 825700  20    -1   3
E2  0.005   3.0
    21.0    8.7
    21.0    18.7
E1 825800  23    -1   4
E2  0.005   3.63
    6.5     10.0
    21.0    13.0
    21.0    23.0
** APOLLO BEACH/WILDCAT CREEK
E1 826245  21   5000    0
E1 826250  21   5000    0
E1 826290  22   5000    0
E1 826300  22    -1   3
E2  0.005   1.0
    1.10    9.5
    1.10    19.5
E1 826305  20   5000    0
E1 826310  20   5000    0
E1 826315  20   5000    0
E1 826320  20   5000    0
E1 826325  21.5 5000    0
E1 826350  22.5   -1    3
E2  0.005   8.12
    29.0    12.5
    29.0    22.5
E1 826295  22.0 5000    0
E1 826400  24.0   -1    3
E2  0.005   8.14
    23.0    13.5
    23.0    23.5
E1 826450  15.0 5000    0
E1 826500  16.0   -1    3
E2  0.005   -3.5
    37.0    5.5
    37.0    15.5
E1 826550  14.0   -1    3
E2  0.005   -2.0
    39.0    3.5
    39.0    13.5
E1 826560  16   5000    0
E1 826570  16     -1    3
E2  0.005   -2.62
    0.21    4.5
    0.21    14.5
E1 826640  21   5000    0
```

```
E1 826665  22     -1    4
E2  0.005  2.64
    0.55   7.9
    2.5    8.0
    2.5   18.0
E1 826685  25 5000    0
E1 826700  25   -1    3
E2  0.005  9.28
    20.0   13.5
    20.0   23.5
E1 826650  21.0 5000    0
E1 826750  22.0   -1    3
E2  0.005  2.64
    16.4   11.5
    16.4   21.5
E1 826790  44 5000    0
E1 826800  44   -1    3
E2  0.005  28.0
    0.23   33.5
    0.23   43.5
E1 826780  24   5000    0
E1 826850  24.2   -1    3
E2  0.005  8.27
    5.2    14.2
    5.2    24.2
E1 826855  34   5000    0
E1 826860  34   5000    0
E1 826865  46   5000    0
E1 826900  46   5000    0
E1 826970  25     -1    3
E2  0.005  8.5
    13.7   14.5
    13.7   24.5
E1 826980  28   5000    0
E1 826990  28     -1    3
E2  0.005  10.5
     5.2   18.0
     5.2   28.0
** COASTAL BASINS
E1 829000  12   5000    0
E1 829190  15   5000    0
E1 829200  15     -1    3
E2  0.005  0.0
    33.0    4.5
    33.0   14.5
E1 829510  15   5000    0
E1 829600  15     -1    3
E2  0.005  -0.5
    21.0    4.5
    21.0   14.5
*=========================================
* STORAGE DATA (SIGNIFICANT LAKES/WETLANDS)
*=========================================
** DUG CREEK
E1 821300 20  -1 4
E2  0.005   0.87
    2.5     5.0
    49.0    10.0
    49.0    20.0
```

```
** KITCHEN BRANCH
E1 822100  15   1000000  0
E1 822150  15    313000  0
E1 822300  17    -1   5
E2  0.005   -0.65
    0.5      5.0
    28.0    10.0
    119.0   12.0
    119.0   17.0
** JACKSON BRANCH
E1 824100  17    -1   6
E2  0.005  0.30
    0.005   2.9
    10.5    3.0
    40      5.0
    78      6.0
   100     11.0
E1 824650  20    -1   6
E2  0.005   5.0
    0.005   7.9
    0.75    8.0
    3.0     10.0
    8.8     11.5
    50      16.5
** NEWMAN BRANCH
E1 825200  15    -1   3
E2  0.005   -4.0
    20.0     4.5
    50.0    14.0
** COASTAL BASINS
E1 829100  15  1129250  0
E1 829500  15  3681250  0
*=======================
** Weir Data
*=======================
* ================================
*  FLOOD FLOW OVERTOP ROAD PATHS
* ================================
*        IDWEIR   NJUNC(1) NJUNC(2)  KWEIR   EL.CREST  EL.TOP   WLEN    COEFF
** DUG CREEK
G1      7821200   821200    821190       1      7.50    17.7     100    2.63
G1      7821300   821300    821290       1     10.60      20     100    2.63
G1      7821400   821400    821390       1     14.90      25     100    2.63
G1      7821500   821500    821490       1     26.20      37     100    2.63
** KITCHEN BRANCH
G1      7822050   822050    822000       1      4.50      15     100    2.63
G1      7822100   822100    822000       1      6.50      15     400    2.63
G1      7822200   822200    822190       1      6.50      15     100    2.63
G1      7822250   822250    822110       1      6.08      16     100    2.63
G1      7822300   822300    822290       1     12.00      16     100    2.63
G1      7822400   822400    822390       1     12.50      20     100    2.63
G1      7822420   822420    822410       1     12.50      20     100    2.63
G1      7822500   822500    822490       1     15.40      20     100    2.63
** SIMS BRANCH
G1      7823100   823100    823000       1      6.50      17     100    2.63
G1      7823180   823180    823170       1      6.00      17     100    2.63
G1      7823190   823190    823180       1      6.00      16     100    2.63
G1      7823200   823200    823190       1      6.00      16     100    2.63
G1      7823300   823300    823290       1      9.00      19     100    2.63
```

```
G1      7823400   823400    823390       1      9.80      20     100    2.63
** JACKSON BRANCH
G1      7824080   824080    824000       1      6.50    16.5     100    2.63
G1      7824100   824100    824085       1      5.50      16     100    2.63
G1      7824200   824200    824110       1      9.30      17     100    2.63
G1      7824300   824300    824130       1     10.00      18     100    2.63
G1      7824400   824400    824140       1     11.00      21     100    2.63
G1      7824490   824490    824000       1      7.50    17.5     100    2.63
G1      7824600   824600    824590       1     12.50      20     100    2.63
** NEWMAN BRANCH
G1      7825200   825200    825100       1     10.00      15     100    2.63
G1      7825300   825300    825230       1     12.00      22     100    2.63
G1      7825400   825400    825390       1     15.00      22     100    2.63
G1      7825420   825420    825410       1     12.80      22     100    2.63
********* INTERBASIN TRANSFER TO FDOT DITCH  7/10/00
G1      6825430   825430    825429       1     12.40      22      20    2.63
***********
G1      7825500   825500    825430       1     13.00      23     100    2.63
***** 7/25 MODIFICATION earthen berm obstructs flow
G1      6825600   825600    825200       1      4.80      10     100    2.63
********************
G1      7825630   825630    825620       1     13.50      17     100    2.63
G1      7825655   825655    825653       1      6.80      11     100    2.63
G1      7825700   825700    825615       1      9.20      19     100    2.63
G1      7825800   825800    825630       1     13.50      23     100    2.63
** APOLLO BEACH/WILDCAT CREEK
G1      7826250   826250    826245       1     10.00      16     100    2.63
G1      7826295   826295    826290       1     14.00      23     100    2.63
G1      7826300   826300    826290       1     10.00      22      50    2.63
G1      7826310   826310    826305       1     10.00      20      50    2.63
G1      7826320   826320    826315       1     10.20      20      50    2.63
G1      7826350   826350    826325       1     13.00    21.5     100    2.63
G1      7826400   826400    826295       1     14.00      22     100    2.63
G1      7826500   826500    826450       1      6.00      15     100    2.63
G1      7826550   826550    826500       1      4.00      14     100    2.63
G1      7826570   826570    826560       1      5.00      16     100    2.63
G1      7826650   826650    826640       1     11.00      21     100    2.63
G1      7826700   826700    826685       1     14.00      25     100    2.63
G1      7826750   826750    826665       1     12.00      22     100    2.63
G1      7826800   826800    826790       1     34.00      44     100    2.63
G1      7826850   826850    826780       1     14.70      24     100    2.63
G1      7826860   826860    826855       1     24.00      34     100    2.63
G1      7826900   826900    826865       1     36.00      46     100    2.63
G1      7826990   826990    826980       1     18.50      28     100    2.63
** COASTAL BASINS
G1      7829100   829100    829000       1      2.00      12     100    2.63
G1      7829200   829200    829190       1      5.00      15     100    2.63
G1      7829600   829600    829510       1      5.00      15     100    2.63
********* Outfall Data ************************************************************
* Tidal (CONSTANT)
*
I1     82100  1
I1     82200  1
I1     82300  1
I1     82400  1
I1     82510  1
I1     82615  1
I1     82620  1
I1     82645  1
```

```
I1    82900  1
I1    82930  1
I1    82940  1
J1  2
J2  2.0
$ENDPROGRAM
```

2. WB-25.wpx

```
* ============================================================================
*                      BULLFROG CREEK/WOLF BRANCH
* ============================================================================
*
ID                 WOLF BRANCH 25-YEAR STORM
ID         Dames & Moore for Hillsborough County BOCC--Dept of Stormwater Management
*
*
*   This is a standard HEC-1 file.  RDHEC copies the ID, *, IT, IO, JR,
*       PG, IN, PC, and PR records from this file.  It ignores other records.
*
*FREE
*DIAGRAM
*     -----------------------
*      25-YEAR 24 HOUR STORM
*     -----------------------
*
*   NMIN  DATE     ITIME      NQ  NDDATE   NDTIME
IT    15 26SEP97    0000     250 27SEP97    0000
*
*NOLIST
*   IPRT    IPLT
*   0,1,2          All
*       3          Input Data and Intermediate and Master Summaries
*       4          Input Data and Master Summary
*       5          Job specification and Master Summary Only
*
*            0,1  No Printer Plots--Can be overriden on KO record
*              2  Plot All
*
IO     3       0
*
* ######################################################
JR  PREC    8.0
* ######################################################
*    SCS 24-HR, TYPE II FLORIDA-MODIFIED DISTRIBUTION (30-MIN INCREMENTS)
*    SOURCE: SWFWMD ERP INFORMATION MANUAL TABLE C-1
* GAGE     UDEPTH
PGSCSFLM    1.0
*
*  TSTEP IDATE      ITIME
IN    30 26SEP97       0
PC  .000    .006    .012    .019    .025    .032    .039    .047    .054    .062
PC  .071    .080    .089    .099    .110    .122    .134    .148    .164    .181
PC  .201    .226    .258    .308    .607    .719    .757    .785    .807    .826
PC  .842    .857    .870    .882    .893    .904    .913    .923    .931    .940
PC  .948    .955    .962    .969    .976    .983    .989    .995   1.000   1.000
*
* ============================================================================
*    SCS 24-HR, TYPE II FLORIDA-MODIFIED DISTRIBUTION
PRSCSFLM
* ============================================================================
ZZ
*                                          AMC II
* BASINID NJUNC   TC  ACRE    CN  IACOEFF K KPRINT
WP  821000  821000  105 214.86  95  0.2 256 0
WP  821100  821100  176 72.13   90  0.2 256 0
WP  821200  821200  168 120.9   84  0.2 256 0
WP  821300  821300  170 189.1   81  0.2 256 0
WP  821400  821400  268 352.13  82  0.2 256 0
WP  821500  821500  173 110.84  81  0.2 256 0
WP  822000  822000  127 235.71  82  0.2 256 0
WP  822050  822050  233 97.92   79  0.2 256 0
WP  822100  822100  190 42.06   90  0.2 256 0
WP  822150  822150  338 107.69  80  0.2 256 0
WP  822200  822200  263 77.31   77  0.2 256 0
WP  822250  822250  110 64.71   80  0.2 256 0
WP  822300  822300  349 487   84  0.2 256 0
WP  822350  822350  84  347.15  83  0.2 256 0
WP  822400  822400  238 565.29  84  0.2 256 0
WP  822500  822500  237 386.38  81  0.2 256 0
WP  823000  823000  96  215.07  88  0.2 256 0
WP  823100  823100  377 167.38  84  0.2 256 0
WP  823200  823200  143 26.86   92  0.2 256 0
WP  823300  823300  143 49.07   84  0.2 256 0
WP  823400  823400  163 179.51  81  0.2 256 0
WP  824650  824650  77  8.84    83  0.2 256 0
WP  824000  824000  63  439.81  93  0.2 256 0
WP  824080  824080  265 438.49  86  0.2 256 0
WP  824200  824200  154 58.21   83  0.2 256 0
WP  824300  824300  126 38.92   83  0.2 256 0
WP  824400  824400  131 19.1    82  0.2 256 0
WP  824500  824500  343 88.29   86  0.2 256 0
WP  824600  824600  186 82.87   82  0.2 256 0
```

WP	825000	825000	1	221.84	99	0.2	256	0
WP	825050	825050	52	44.19	94	0.2	256	0
WP	825100	825100	227	296.6	92	0.2	256	0
WP	825200	825200	428	475.42	86	0.2	256	0
WP	825300	825300	98	23.17	90	0.2	256	0
WP	825400	825400	189	263.51	81	0.2	256	0
WP	825500	825500	188	152.33	83	0.2	256	0
WP	825600	825600	87	210.83	87	0.2	256	0
WP	825700	825700	143	52.88	88	0.2	256	0
WP	825800	825800	321	252.66	83	0.2	256	0
WP	825900	825900	147	55.42	83	0.2	256	0
WP	826000	826000	51	111.8	76	0.2	256	0
WP	826050	826050	61	100.8	91	0.2	256	0
WP	826100	826100	56	218.02	84	0.2	256	0
WP	826150	826150	63	272.26	94	0.2	256	0
WP	826200	826200	19	370.65	93	0.2	256	0
WP	826250	826250	165	296.12	88	0.2	256	0
WP	826300	826300	155	13.16	91	0.2	256	0
WP	826350	826350	31	60.75	82	0.2	256	0
WP	826400	826400	358	559.84	80	0.2	256	0
WP	826450	826450	16	276.05	89	0.2	256	0
WP	826500	826500	17	89.04	89	0.2	256	0
WP	826550	826550	39	173.15	82	0.2	256	0
WP	826600	826600	195	216.14	87	0.2	256	0
WP	826650	826650	189	37.3	95	0.2	256	0
WP	826700	826700	275	140.75	80	0.2	256	0
WP	826750	826750	253	198.16	82	0.2	256	0
WP	826800	826800	217	157.27	83	0.2	256	0
WP	826850	826850	96	111.13	82	0.2	256	0
WP	826900	826900	180	125.24	86	0.2	256	0
WP	826950	826950	296	361.32	84	0.2	256	0
WP	826970	826970	194	57.1	80	0.2	256	0
WP	826990	826990	282	295.16	83	0.2	256	0
WP	827000	827000	65	306.51	98	0.2	256	0
WP	827100	827100	37	190.21	84	0.2	256	0
WP	827150	827150	187	287.47	84	0.2	256	0
WP	827200	827200	109	101.22	87	0.2	256	0
WP	827250	827250	255	220.92	83	0.2	256	0
WP	827300	827300	312	107.04	85	0.2	256	0
WP	827350	827350	205	115.19	85	0.2	256	0
WP	827400	827400	104	208.79	86	0.2	256	0
WP	827450	827450	78	104.1	86	0.2	256	0
WP	827500	827500	145	309.99	83	0.2	256	0
WP	827550	827550	228	97.17	83	0.2	256	0
WP	827600	827600	79	112.76	83	0.2	256	0
WP	827650	827650	274	165.14	83	0.2	256	0
WP	827700	827700	137	89.33	82	0.2	256	0
WP	827750	827750	179	84.22	82	0.2	256	0
WP	827800	827800	103	138.01	85	0.2	256	0
WP	827850	827850	127	178.05	83	0.2	256	0
WP	827890	827890	116	239.72	87	0.2	256	0
WP	828000	828000	38	255.18	86	0.2	256	0
WP	828050	828050	133	38.83	85	0.2	256	0
WP	828100	828100	171	239.83	87	0.2	256	0
WP	828150	828150	183	169.74	85	0.2	256	0
WP	828200	828200	228	109.78	86	0.2	256	0
WP	828250	828250	133	133.56	81	0.2	256	0
WP	828300	828300	299	260.67	82	0.2	256	0
WP	828350	828350	196	294.38	81	0.2	256	0
WP	828400	828400	230	52.12	86	0.2	256	0
WP	828450	828450	92	39.85	88	0.2	256	0
WP	828500	828500	188	283.47	89	0.2	256	0
WP	828550	828550	132	92.73	84	0.2	256	0
WP	829000	829000	90	806.77	98	0.2	256	0
WP	829100	829100	148	179.34	89	0.2	256	0
WP	829200	829200	191	187.95	89	0.2	256	0
WP	829700	829700	247	100.41	93	0.2	256	0
WP	829400	829400	116	158.83	91	0.2	256	0
WP	829600	829600	178	26.9	81	0.2	256	0
WP	829500	829500	357	476.57	89	0.2	256	0
WP	829300	829300	22	439.75	92	0.2	256	0
WP	829800	829800	157	311.6	94	0.2	256	0

2.WB-100.wpx

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* ============================================================================
*                      BULLFROG CREEK/WOLF BRANCH
* ============================================================================
*
ID                 WOLF BRANCH 100-YEAR STORM
ID        Dames & Moore for Hillsborough County BOCC--Dept of Stormwater Management
*
*
*   This is a standard HEC-1 file.  RDHEC copies the ID, *, IT, IO, JR,
*       PG, IN, PC, and PR records from this file.  It ignores other records.
*
*FREE
*DIAGRAM
*     ------------------------
*     100-YEAR 24 HOUR STORM
*     ------------------------
*
*   NMIN  DATE     ITIME      NQ  NDDATE   NDTIME
IT    15 26SEP97    0000     250 27SEP97    0000
*
*NOLIST
*   IPRT    IPLT
*   0,1,2          All
*       3          Input Data and Intermediate and Master Summaries
*       4          Input Data and Master Summary
*       5          Job specification and Master Summary Only
*
*            0,1   No Printer Plots--Can be overriden on KO record
*              2   Plot All
*
IO     3       0
*
* ######################################################
JR  PREC   11.0
* ######################################################
*    SCS 24-HR, TYPE II FLORIDA-MODIFIED DISTRIBUTION (30-MIN INCREMENTS)
*    SOURCE: SWFWMD ERP INFORMATION MANUAL TABLE C-1
* GAGE     UDEPTH
PGSCSFLM    1.0
*
*  TSTEP IDATE      ITIME
IN    30 26SEP97       0
PC  .000    .006    .012    .019    .025    .032    .039    .047    .054    .062
PC  .071    .080    .089    .099    .110    .122    .134    .148    .164    .181
PC  .201    .226    .258    .308    .607    .719    .757    .785    .807    .826
PC  .842    .857    .870    .882    .893    .904    .913    .923    .931    .940
PC  .948    .955    .962    .969    .976    .983    .989    .995   1.000   1.000
*
* ============================================================================
*    SCS 24-HR, TYPE II FLORIDA-MODIFIED DISTRIBUTION
PRSCSFLM
* ============================================================================
ZZ
*                                        AMC II
* BASINID NJUNC   TC  ACRE    CN IACOEFF  K KPRINT
WP  821000  821000  93  214.86  95  0.2 256 0
WP  821100  821100  155 72.13   90  0.2 256 0
WP  821200  821200  149 120.9   84  0.2 256 0
WP  821300  821300  150 189.1   81  0.2 256 0
WP  821400  821400  236 352.13  82  0.2 256 0
WP  821500  821500  153 110.84  81  0.2 256 0
WP  822000  822000  112 235.71  82  0.2 256 0
WP  822050  822050  206 97.92   79  0.2 256 0
WP  822100  822100  167 42.06   90  0.2 256 0
WP  822150  822150  298 107.69  80  0.2 256 0
WP  822200  822200  232 77.31   77  0.2 256 0
WP  822250  822250  97  64.71   80  0.2 256 0
WP  822300  822300  308 487    84  0.2 256 0
WP  822350  822350  74  347.15  83  0.2 256 0
WP  822400  822400  220 565.29  84  0.2 256 0
WP  822500  822500  217 386.38  81  0.2 256 0
WP  823000  823000  61  215.07  88  0.2 256 0
WP  823100  823100  340 167.38  84  0.2 256 0
WP  823200  823200  126 26.86   92  0.2 256 0
WP  823300  823300  126 49.07   84  0.2 256 0
WP  823400  823400  143 179.51  81  0.2 256 0
WP  824650  824650  68  8.84    83  0.2 256 0
WP  824000  824000  56  439.81  93  0.2 256 0
WP    824080    824080    234     438.49    86    0.2   256     0
WP  824200  824200  136 58.21   83  0.2 256 0
WP  824300  824300  111 38.92   83  0.2 256 0
WP  824400  824400  116 19.1    82  0.2 256 0
WP  824500  824500  322 88.29   86  0.2 256 0
WP  824600  824600  164 82.87   82  0.2 256 0
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WP  825000  825000  1 221.84  99  0.2 256 0
WP  825050  825050  46  44.19   94  0.2 256 0
WP  825100  825100  200 296.6   92  0.2 256 0
WP  825200  825200  378 475.42  86  0.2 256 0
WP  825300  825300  87  23.17   90  0.2 256 0
WP  825400  825400  167 263.51  81  0.2 256 0
WP  825500  825500  170 152.33  83  0.2 256 0
WP  825600  825600  76  210.83  87  0.2 256 0
WP  825700  825700  126 52.88   88  0.2 256 0
WP  825800  825800  288 252.66  83  0.2 256 0
WP  825900  825900  135 55.42   83  0.2 256 0
WP  826000  826000  45  111.8   76  0.2 256 0
WP  826050  826050  54  100.8   91  0.2 256 0
WP  826100  826100  33  218.02  84  0.2 256 0
WP  826150  826150  35  272.26  94  0.2 256 0
WP  826200  826200  17  370.65  93  0.2 256 0
WP  826250  826250  145 296.12  88  0.2 256 0
WP  826300  826300  154 13.16   91  0.2 256 0
WP  826350  826350  27  60.75   82  0.2 256 0
WP  826400  826400  326 559.84  80  0.2 256 0
WP  826450  826450  14  276.05  89  0.2 256 0
WP  826500  826500  15  89.04   89  0.2 256 0
WP  826550  826550  34  173.15  82  0.2 256 0
WP  826600  826600  188 216.14  87  0.2 256 0
WP  826650  826650  166 37.3    95  0.2 256 0
WP  826700  826700  252 140.75  80  0.2 256 0
WP  826750  826750  223 198.16  82  0.2 256 0
WP  826800  826800  191 157.27  83  0.2 256 0
WP  826850  826850  85  111.13  82  0.2 256 0
WP  826900  826900  159 125.24  86  0.2 256 0
WP  826950  826950  236 361.32  84  0.2 256 0
WP  826970  826970  171 57.1    80  0.2 256 0
WP  826990  826990  261 295.16  83  0.2 256 0
WP  827000  827000  63  306.51  98  0.2 256 0
WP  827100  827100  33  190.21  84  0.2 256 0
WP  827150  827150  165 287.47  84  0.2 256 0
WP  827200  827200  96  101.22  87  0.2 256 0
WP  827250  827250  225 220.92  83  0.2 256 0
WP  827300  827300  289 107.04  85  0.2 256 0
WP  827350  827350  223 115.19  85  0.2 256 0
WP  827400  827400  92  208.79  86  0.2 256 0
WP  827450  827450  69  104.1   86  0.2 256 0
WP  827500  827500  128 309.99  83  0.2 256 0
WP  827550  827550  202 97.17   83  0.2 256 0
WP  827600  827600  70  112.76  83  0.2 256 0
WP  827650  827650  248 165.14  83  0.2 256 0
WP  827700  827700  121 89.33   82  0.2 256 0
WP  827750  827750  158 84.22   82  0.2 256 0
WP  827800  827800  91  138.01  85  0.2 256 0
WP  827850  827850  116 178.05  83  0.2 256 0
WP  827890  827890  102 239.72  87  0.2 256 0
WP  828000  828000  34  255.18  86  0.2 256 0
WP  828050  828050  121 38.83   85  0.2 256 0
WP  828100  828100  161 239.83  87  0.2 256 0
WP  828150  828150  162 169.74  85  0.2 256 0
WP  828200  828200  210 109.78  86  0.2 256 0
WP  828250  828250  117 133.56  81  0.2 256 0
WP  828300  828300  282 260.67  82  0.2 256 0
WP  828350  828350  188 294.38  81  0.2 256 0
WP  828400  828400  203 52.12       86  0.2 256 0
WP  828450  828450  81  39.85       88  0.2 256 0
WP  828500  828500  166 283.47  89  0.2 256 0
WP  828550  828550  116 92.73       84  0.2 256 0
WP  829000  829000  79  806.77  98  0.2 256 0
WP  829100  829100  145 179.34  89  0.2 256 0
WP  829200  829200  168 187.95  89  0.2 256 0
WP    829700      829700      230   100.41      93    0.2   256   0
WP  829400  829400  102 158.83  91  0.2 256 0
WP    829600      829600      177    26.9       81    0.2   256   0
WP    829500      829500      315     476.57    89    0.2   256   0
WP    829300      829300      20      439.75    92    0.2   256   0
WP  829800  829800  74   311.6      94  0.2 256 0
```

4.MC-25-exRAI.smx

	JUNC_ID	INVT	Z_MAX	T_MAX
ZMAX	82100	-2.00	2.00	0.00
ZMAX	821000	-2.00	2.35	13.90
ZMAX	821100	-1.10	2.55	13.50
ZMAX	821190	-4.50	4.73	18.75
ZMAX	821200	-4.50	5.15	18.72
ZMAX	821290	0.87	5.66	18.93
ZMAX	821300	0.87	6.90	18.83
ZMAX	821390	8.00	10.96	17.28
ZMAX	821400	9.00	11.49	17.22
ZMAX	821490	19.00	20.78	14.97
ZMAX	821500	20.50	25.87	14.50
ZMAX	82200	-2.50	2.00	0.00
ZMAX	822000	-2.10	2.01	16.27
ZMAX	822050	0.50	3.62	15.57
ZMAX	822100	-2.10	2.95	17.03
ZMAX	822110	-1.10	3.31	16.60
ZMAX	822150	-2.00	2.98	17.12
ZMAX	822190	-2.00	2.99	17.12
ZMAX	822200	-1.00	3.09	17.07
ZMAX	822250	-1.10	3.76	16.30
ZMAX	822290	-0.65	5.44	15.72
ZMAX	822300	-0.65	6.31	17.07
ZMAX	822350	0.00	5.99	15.15
ZMAX	822390	1.00	6.13	15.57
ZMAX	822400	1.50	9.31	20.55
ZMAX	822410	2.80	9.32	20.57
ZMAX	822420	3.00	10.25	24.60
ZMAX	822490	4.00	10.30	24.52
ZMAX	822500	5.00	11.36	22.80
ZMAX	82300	-2.50	2.00	0.00
ZMAX	823000	-2.00	2.00	8.92
ZMAX	823100	-2.00	4.10	22.82
ZMAX	823170	-0.50	4.20	22.70
ZMAX	823180	1.17	4.58	22.42
ZMAX	823190	0.09	4.90	22.15
ZMAX	823200	0.22	5.27	21.92
ZMAX	823290	1.40	6.50	21.08
ZMAX	823300	3.00	6.59	21.12
ZMAX	823380	3.20	7.23	19.48
ZMAX	823390	3.30	7.53	18.93
ZMAX	823400	3.60	9.46	17.80
ZMAX	823490	5.00	9.46	17.80
ZMAX	82400	-2.60	2.00	0.00
ZMAX	824000	-2.54	2.01	13.00
ZMAX	824080	-1.01	2.28	16.03
ZMAX	824085	0.30	2.38	16.62
ZMAX	824100	0.30	3.11	19.88
ZMAX	824110	3.40	4.33	20.63
ZMAX	824120	1.50	3.91	16.88
ZMAX	824130	3.70	4.74	18.15
ZMAX	824140	5.00	6.10	14.48
ZMAX	824200	3.60	5.54	20.33
ZMAX	824300	3.90	6.00	17.90
ZMAX	824400	5.20	7.51	13.95
ZMAX	824490	1.15	4.83	21.13
ZMAX	824500	2.00	5.73	20.90
ZMAX	824590	3.00	5.91	21.82
ZMAX	824600	3.50	5.91	21.83

ZMAX	824650	5.00	5.91	21.85
ZMAX	82510	-4.00	2.00	0.00
ZMAX	825100	-4.00	2.00	10.88
ZMAX	825200	-4.00	2.03	20.08
ZMAX	825220	4.00	4.99	20.58
ZMAX	825230	4.00	5.60	16.90
ZMAX	825300	4.00	6.71	16.62
ZMAX	825390	4.00	6.85	20.73
ZMAX	825400	5.50	11.51	20.85
ZMAX	825410	6.10	6.89	19.92
ZMAX	825420	6.30	12.92	19.82
ZMAX	825429	8.00	9.31	19.98
ZMAX	825430	6.50	12.94	19.80
ZMAX	825500	9.41	13.32	19.78
ZMAX	825600	-4.00	2.10	14.02
ZMAX	825610	-3.60	2.11	14.13
ZMAX	825615	-3.00	2.11	14.13
ZMAX	825620	1.20	3.19	16.27
ZMAX	825630	1.20	3.59	16.23
ZMAX	825650	-4.00	2.07	26.78
ZMAX	825653	-1.05	2.11	27.13
ZMAX	825655	-1.29	2.11	14.13
ZMAX	825700	3.00	6.00	19.70
ZMAX	825800	3.63	5.45	16.10
ZMAX	825900	4.00	5.80	15.27
ZMAX	82615	-4.00	2.00	0.00
ZMAX	82620	-3.50	2.00	0.00
ZMAX	82645	-3.50	2.00	0.00
ZMAX	826150	-4.00	2.03	10.63
ZMAX	826190	-4.00	2.06	26.87
ZMAX	826200	-3.50	2.03	12.50
ZMAX	826245	-3.20	2.13	15.78
ZMAX	826250	-3.17	2.42	15.85
ZMAX	826290	0.00	2.45	16.25
ZMAX	826295	6.00	13.88	25.15
ZMAX	826300	1.00	3.04	14.97
ZMAX	826305	1.40	3.43	15.07
ZMAX	826310	1.50	3.74	15.07
ZMAX	826315	2.00	4.02	15.00
ZMAX	826320	2.50	4.80	14.72
ZMAX	826325	6.00	6.87	14.63
ZMAX	826350	8.12	10.35	14.58
ZMAX	826400	8.14	14.50	25.13
ZMAX	826450	-3.50	2.03	12.50
ZMAX	826500	-3.50	2.20	21.27
ZMAX	826550	-2.00	2.21	13.10
ZMAX	826560	-2.53	2.48	21.15
ZMAX	826570	-2.62	4.39	21.03
ZMAX	826600	-1.00	5.63	21.00
ZMAX	826640	2.20	8.74	20.23
ZMAX	826650	2.20	8.84	20.17
ZMAX	826665	2.64	9.66	19.82
ZMAX	826685	8.98	9.80	27.27
ZMAX	826700	9.28	13.73	27.15
ZMAX	826750	2.64	9.74	19.75
ZMAX	826780	8.03	12.44	18.65
ZMAX	826790	27.50	29.75	15.50
ZMAX	826800	28.00	31.84	15.27
ZMAX	826850	8.27	15.63	18.62

ZMAX	826855	17.50	21.53	16.13
ZMAX	826860	18.00	24.82	16.08
ZMAX	826865	29.00	33.73	16.05
ZMAX	826900	29.50	36.43	16.02
ZMAX	826940	41.00	43.02	16.28
ZMAX	826950	41.10	44.68	16.25
ZMAX	826970	8.50	15.79	18.97
ZMAX	826980	10.00	16.37	18.88
ZMAX	826990	10.50	18.72	18.82
ZMAX	82900	-1.00	2.00	0.00
ZMAX	82930	-1.50	2.00	0.00
ZMAX	82940	-4.00	2.00	0.00
ZMAX	829000	-1.00	2.14	13.75
ZMAX	829100	1.70	2.66	15.70
ZMAX	829190	-1.00	2.18	14.78
ZMAX	829200	0.00	3.93	20.37
ZMAX	829300	-1.50	2.09	12.75
ZMAX	829400	-4.00	2.11	16.78
ZMAX	829410	-3.90	2.10	16.72
ZMAX	829450	-3.81	2.11	16.73
ZMAX	829500	-3.50	2.19	18.92
ZMAX	829510	-1.00	2.20	18.95
ZMAX	829600	-0.50	2.36	19.20

	PIPE_ID	FROM	TO	SIZE(INCH)	LENGTH	INV_U	ZMAXU	INV_D	ZMAXD	QMAX	VMAX	TMAX
QMAX	9821000	821000	82100	60.	500.	-2.00	2.35	-2.00	2.00	757.25	1.47	13.52
QMAX	9821100	821100	821000	83.	144.	-1.10	2.55	-2.00	2.35	478.17	4.77	13.93
QMAX	9821190	821100	821190	138.	1615.	-1.10	2.55	-4.50	4.73	-388.72	-2.70	18.72
QMAX	1821200	821200	821190	96.	135.	-4.50	5.15	-4.50	4.73	388.80	4.49	18.62
QMAX	9821290	821290	821200	140.	1890.	0.87	5.66	-4.50	5.15	330.90	0.84	18.93
QMAX	1821300	821300	821290	54.	120.	0.87	6.90	0.87	5.66	110.35	6.83	18.75
QMAX	2821300	821300	821290	54.	120.	0.87	6.90	0.87	5.66	110.35	6.83	18.75
QMAX	3821300	821300	821290	54.	120.	0.87	6.90	0.87	5.66	110.35	6.83	18.75
QMAX	9821390	821390	821300	132.	2790.	8.00	10.96	0.87	6.90	256.00	1.94	17.28
QMAX	1821400	821400	821390	43.	320.	9.00	11.49	8.00	10.96	85.35	6.55	17.17
QMAX	2821400	821400	821390	43.	320.	9.00	11.49	8.00	10.96	85.35	6.55	17.17
QMAX	3821400	821400	821390	43.	320.	9.00	11.49	8.00	10.96	85.35	6.55	17.17
QMAX	9821490	821490	821400	96.	4690.	19.00	20.78	9.00	11.49	83.30	2.32	14.97
QMAX	1821500	821500	821490	24.	320.	21.50	25.87	20.00	20.78	21.79	7.11	14.50
QMAX	2821500	821500	821490	36.	320.	20.50	25.87	19.00	20.78	62.12	10.84	14.77
QMAX	9822000	822000	82200	60.	500.	-2.10	2.01	-2.50	2.00	971.58	0.72	16.28
QMAX	1822100	822100	822000	60.	113.	-2.00	2.95	-2.00	2.01	275.10	6.15	17.03
QMAX	2822100	822100	822000	60.	150.	-2.10	2.95	-2.10	2.01	243.52	5.91	17.03
QMAX	3822100	822100	822000	60.	150.	-2.10	2.95	-2.10	2.01	243.52	5.91	17.03
QMAX	9822150	822150	822100	96.	965.	-2.00	2.98	-2.00	2.95	89.41	0.55	18.08
QMAX	9822190	822190	822150	96.	890.	-2.00	2.99	-2.00	2.98	37.26	0.23	17.18
QMAX	1822200	822200	822190	54.	320.	-1.00	3.09	-2.00	2.99	37.96	2.43	16.02
QMAX	9822110	822110	822100	73.	785.	-1.10	3.31	-2.00	2.95	688.10	1.35	15.75
QMAX	1822250	822250	822110	57.	320.	-1.10	3.76	-1.10	3.31	693.24	5.10	15.67
QMAX	9822290	822290	822250	128.	1460.	-0.65	5.44	-1.10	3.76	649.32	1.94	15.68
QMAX	1822300	822300	822290	48.	105.	-0.65	6.31	-0.65	5.44	76.44	6.06	17.78
QMAX	2822300	822300	822290	48.	105.	-0.65	6.31	-0.65	5.44	76.44	6.06	17.78
QMAX	3822300	822300	822290	48.	105.	-0.65	6.31	-0.65	5.44	76.44	6.06	17.78
QMAX	9822350	822350	822290	96.	1870.	0.00	5.99	-0.65	5.44	491.74	1.89	14.80
QMAX	9822390	822390	822350	96.	2265.	1.00	6.13	0.00	5.99	285.39	1.36	21.25
QMAX	1822400	822400	822390	48.	100.	1.50	9.31	1.00	6.13	142.37	11.20	21.12
QMAX	2822400	822400	822390	48.	100.	1.50	9.31	1.00	6.13	142.37	11.20	21.12
QMAX	9822410	822410	822400	144.	1240.	2.80	9.32	1.50	9.31	131.34	1.25	30.35
QMAX	1822420	822420	822410	24.	260.	3.00	10.25	2.80	9.32	30.81	9.71	30.28
QMAX	2822420	822420	822410	36.	260.	3.00	10.25	2.80	9.32	98.64	8.50	30.47

QMAX	9822490	822490	822420	144.	4100.	4.00	10.30	3.00	10.25	106.87	1.18	20.20
QMAX	1822500	822500	822490	38.	115.	5.00	11.36	4.00	10.30	86.01	6.79	15.75
QMAX	2822500	822500	822490	30.	115.	5.00	11.36	4.00	10.30	29.14	-10.00	19.22
QMAX	1822050	822050	822000	24.	320.	0.50	3.62	-0.50	2.01	20.62	6.55	15.57
QMAX	2822050	822050	822000	24.	320.	0.50	3.62	-0.50	2.01	35.24	7.00	15.57
QMAX	9823000	823000	82300	60.	500.	-2.00	2.00	-2.50	2.00	327.07	0.25	14.00
QMAX	1823100	823100	823000	60.	140.	-2.00	4.10	-2.00	2.00	155.59	8.42	22.82
QMAX	9823170	823170	823100	90.	2515.	-0.50	4.20	-2.00	4.10	96.67	1.06	22.30
QMAX	1823180	823170	823180	60.	320.	1.92	4.20	1.26	4.58	-96.88	-3.49	22.20
QMAX	1823190	823180	823190	48.	320.	1.17	4.58	0.09	4.90	-32.62	-2.67	21.73
QMAX	2823190	823180	823190	48.	320.	1.17	4.58	0.09	4.90	-32.62	-2.67	21.73
QMAX	3823190	823180	823190	48.	320.	1.17	4.58	0.09	4.90	-32.62	-2.67	21.73
QMAX	1823200	823190	823200	48.	320.	1.18	4.90	0.22	5.27	-49.23	-3.98	21.52
QMAX	2823200	823190	823200	48.	320.	1.18	4.90	0.22	5.27	-49.23	-3.98	21.52
QMAX	9823290	823290	823200	79.	1160.	1.40	6.50	0.22	5.27	94.89	1.91	21.43
QMAX	1823300	823300	823290	48.	230.	3.00	6.59	1.40	6.50	94.67	3.16	21.23
QMAX	9823380	823380	823300	71.	1360.	3.20	7.23	3.00	6.59	98.13	2.04	16.87
QMAX	9823390	823390	823380	82.	900.	3.30	7.53	3.20	7.23	98.78	2.24	16.83
QMAX	1823400	823400	823390	52.	380.	3.60	9.46	3.30	7.53	99.01	6.80	16.80
QMAX	9823490	823490	823400	90.	2000.	5.00	9.46	3.60	9.46	-13.01	-0.55	14.22
QMAX	9824000	824000	82400	60.	500.	-2.54	2.01	-2.60	2.00	913.18	0.64	13.50
QMAX	1824080	824080	824000	84.	175.	-1.01	2.28	-2.54	2.01	145.87	4.65	16.05
QMAX	2824080	824080	824000	84.	175.	-1.01	2.28	-2.54	2.01	145.87	4.65	16.05
QMAX	9824085	824085	824080	84.	2125.	0.30	2.38	-1.01	2.28	35.66	0.59	20.17
QMAX	1824100	824100	824085	66.	100.	0.30	3.11	0.30	2.38	35.41	3.53	20.05
QMAX	9824110	824110	824100	84.	1800.	3.40	4.33	1.00	3.11	13.54	0.82	20.63
QMAX	1824200	824200	824110	36.	122.	3.60	5.54	3.40	4.33	13.54	4.05	20.43
QMAX	9824120	824120	824100	84.	2690.	1.50	3.91	1.00	3.11	29.35	1.09	16.80
QMAX	9824130	824130	824120	84.	1490.	3.70	4.74	1.50	3.91	17.20	0.86	18.15
QMAX	1824300	824300	824130	36.	264.	3.90	6.00	3.70	4.74	17.21	4.62	18.00
QMAX	9824140	824140	824120	84.	2615.	5.00	6.10	1.50	3.91	17.98	1.16	14.48
QMAX	1824400	824400	824140	36.	138.	5.20	7.51	5.00	6.10	18.18	4.48	14.20
QMAX	1824490	824000	824490	30.	100.	1.59	2.01	1.15	4.83	-27.33	-5.79	21.13
QMAX	2824490	824000	824490	30.	100.	1.59	2.01	1.15	4.83	-27.33	-5.79	21.13
QMAX	9824500	824500	824490	60.	2550.	2.00	5.73	1.15	4.83	54.72	1.33	20.80
QMAX	9824590	824590	824500	60.	2780.	3.00	5.91	2.00	5.73	22.55	0.89	28.20
QMAX	1824600	824600	824590	48.	110.	3.50	5.91	3.00	5.91	22.05	-1.00	27.92
QMAX	9824650	824650	824600	84.	2250.	5.00	5.91	3.50	5.91	11.41	1.00	13.78
QMAX	9825100	825100	82510	144.	500.	-4.00	2.00	-4.00	2.00	495.05	0.36	16.62
QMAX	1825200	825200	825100	144.	125.	-4.00	2.03	-4.00	2.00	309.89	1.29	20.30
QMAX	9825610	825610	825600	133.	2550.	-3.60	2.11	-4.00	2.10	173.09	0.42	16.27
QMAX	1825650	825650	826190	140.	475.	-4.00	2.07	-4.00	2.06	384.52	1.29	14.25
QMAX	9825650	825650	825600	168.	825.	-4.00	2.07	-4.00	2.10	-379.70	-0.92	14.27
QMAX	9825653	825653	825650	97.	2050.	-1.05	2.11	-4.00	2.07	42.54	0.13	26.97
QMAX	1825655	825653	825655	24.	200.	-1.05	2.11	-1.29	2.11	-5.95	-1.08	27.03
QMAX	9825615	825615	825655	96.	650.	-1.00	2.11	-1.29	2.11	7.91	0.05	28.20
QMAX	9825616	825615	825610	126.	235.	-3.00	2.11	-3.60	2.11	172.01	0.44	16.25
QMAX	1825700	825700	825615	24.	150.	3.00	6.00	1.50	2.11	13.98	4.69	19.68
QMAX	9825620	825620	825615	144.	1580.	1.20	3.19	-3.00	2.11	162.58	1.75	16.27
QMAX	1825630	825630	825620	96.	121.	1.20	3.59	1.20	3.19	81.31	3.09	16.20
QMAX	2825630	825630	825620	96.	121.	1.20	3.59	1.20	3.19	81.31	3.09	16.20
QMAX	1825800	825800	825630	72.	320.	3.63	5.45	3.58	3.59	81.39	3.70	16.12
QMAX	2825800	825800	825630	72.	320.	3.63	5.45	3.58	3.59	81.39	3.70	16.12
QMAX	9825900	825900	825800	144.	680.	4.00	5.80	3.63	5.45	49.02	1.48	14.28
QMAX	9825220	825220	825200	120.	5910.	4.00	4.99	-4.00	2.03	48.78	0.25	20.58
QMAX	9825410	825410	825220	120.	810.	6.10	6.89	4.00	4.99	41.57	1.43	19.92
QMAX	1825420	825420	825410	36.	129.	6.30	12.92	6.10	6.89	30.59	7.10	19.92
QMAX	9825430	825430	825420	120.	1170.	6.50	12.94	6.30	12.92	41.59	0.98	19.82
QMAX	9825429	825429	825630	120.	1700.	8.00	9.31	3.50	3.59	20.63	1.92	19.98

QMAX	1825500	825500	825430	30.	125.	9.41	13.32	8.82	12.94	30.04	6.43	16.27
QMAX	9825230	825230	825200	192.	5900.	4.00	5.60	-4.00	2.03	77.73	0.50	16.90
QMAX	1825230	825230	825220	54.	340.	4.00	5.60	4.00	4.99	9.08	2.55	20.77
QMAX	1825300	825300	825230	60.	110.	4.00	6.71	4.00	5.60	86.24	5.01	16.65
QMAX	9825390	825390	825300	192.	845.	4.00	6.85	4.00	6.71	81.30	-0.95	20.95
QMAX	1825400	825400	825390	36.	135.	5.50	11.51	4.00	6.85	81.29	11.57	20.85
QMAX	9826150	826150	82615	84.	500.	-4.00	2.03	-4.00	2.00	827.64	0.63	13.47
QMAX	9826190	826190	826150	120.	1450.	-4.00	2.06	-4.00	2.03	385.76	0.60	14.27
QMAX	9826200	826200	82620	84.	500.	-3.50	2.03	-3.50	2.00	1350.25	1.13	12.72
QMAX	9826245	826245	826200	122.	7150.	-3.20	2.13	-3.50	2.03	362.86	0.60	15.98
QMAX	1826250	826250	826245	144.	240.	-3.17	2.42	-3.20	2.13	362.61	3.69	15.90
QMAX	9826290	826290	826250	96.	5140.	0.00	2.45	-3.17	2.42	172.77	0.46	25.07
QMAX	1826295	826295	826290	54.	180.	6.00	13.88	3.00	2.45	156.34	10.14	25.15
QMAX	1826400	826400	826295	30.	120.	8.38	14.50	7.59	13.88	39.72	8.05	20.85
QMAX	2826400	826400	826295	42.	120.	8.14	14.50	7.68	13.88	89.45	9.31	21.20
QMAX	1826300	826300	826290	84.	320.	1.00	3.04	0.00	2.45	38.11	3.62	14.97
QMAX	9826305	826305	826300	120.	485.	1.40	3.43	1.00	3.04	25.75	1.52	15.18
QMAX	1826310	826310	826305	72.	120.	1.50	3.74	1.40	3.43	25.74	2.85	15.07
QMAX	9826315	826315	826310	120.	595.	2.00	4.02	1.50	3.74	25.76	1.19	14.90
QMAX	1826320	826320	826315	60.	340.	2.50	4.80	2.20	4.02	25.81	3.88	14.72
QMAX	9826325	826325	826320	120.	260.	6.00	6.87	2.50	4.80	25.82	-1.66	14.62
QMAX	1826350	826350	826325	36.	300.	8.12	10.35	6.88	6.87	25.82	5.37	14.60
QMAX	9826450	826450	82645	78.	500.	-3.50	2.03	-3.50	2.00	1444.81	1.21	12.75
QMAX	9826500	826500	826450	126.	2950.	-3.50	2.20	-3.50	2.03	699.54	1.14	21.38
QMAX	1826550	826550	826500	120.	195.	-2.00	2.21	-3.50	2.20	354.88	1.43	13.28
QMAX	9826560	826560	826500	114.	4950.	-2.53	2.48	-3.50	2.20	669.70	1.09	21.17
QMAX	1826570	826570	826560	72.	100.	-2.02	4.39	-2.53	2.48	239.72	8.81	21.02
QMAX	2826570	826560	826570	72.	100.	-1.99	2.48	-2.62	4.39	-212.98	-8.16	21.03
QMAX	3826570	826560	826570	72.	100.	-2.07	2.48	-2.55	4.39	-217.19	-8.25	21.03
QMAX	9826600	826600	826570	108.	1210.	-1.00	5.63	-2.62	4.39	669.91	3.82	20.98
QMAX	9826640	826640	826600	106.	4055.	2.20	8.74	-1.00	5.63	604.33	2.58	20.23
QMAX	1826650	826650	826640	96.	116.	2.20	8.84	2.20	8.74	204.66	2.64	19.32
QMAX	2826650	826650	826640	96.	116.	2.20	8.84	2.20	8.74	204.66	2.64	19.32
QMAX	3826650	826650	826640	96.	116.	2.20	8.84	2.20	8.74	204.66	2.64	19.32
QMAX	9826665	826665	826650	112.	715.	2.64	9.66	2.20	8.84	599.24	2.90	18.95
QMAX	9826685	826685	826665	96.	650.	8.98	9.80	4.00	9.66	15.84	-2.74	27.27
QMAX	1826700	826700	826685	30.	380.	9.28	13.73	8.98	9.80	15.84	4.99	27.20
QMAX	1826750	826750	826665	96.	340.	2.64	9.74	2.64	9.66	297.47	2.66	18.72
QMAX	2826750	826750	826665	96.	340.	2.64	9.74	2.64	9.66	297.47	2.66	18.72
QMAX	9826780	826780	826750	120.	1460.	8.03	12.44	2.64	9.74	434.65	3.74	18.65
QMAX	1826850	826780	826850	48.	100.	8.68	12.44	8.27	15.63	-99.96	-8.27	17.18
QMAX	2826850	826850	826780	48.	100.	8.31	15.63	8.03	12.44	105.32	8.61	16.25
QMAX	9826855	826855	826850	120.	2120.	17.50	21.53	8.27	15.63	282.65	3.39	16.13
QMAX	1826860	826860	826855	43.	100.	18.00	24.82	17.50	21.53	91.11	9.15	14.53
QMAX	9826865	826865	826860	120.	2080.	29.00	33.73	18.00	24.82	282.72	4.30	16.05
QMAX	1826900	826900	826865	48.	240.	29.50	36.43	29.00	33.73	108.58	8.52	15.12
QMAX	2826900	826900	826865	48.	240.	29.50	36.43	29.00	33.73	108.58	8.52	15.12
QMAX	9826940	826940	826900	180.	1900.	41.00	43.02	29.50	36.43	189.68	1.09	16.28
QMAX	1826950	826950	826940	48.	304.	41.10	44.68	41.00	43.02	94.88	5.65	16.25
QMAX	2826950	826950	826940	48.	304.	41.10	44.68	41.00	43.02	94.88	5.65	16.25
QMAX	9826790	826790	826750	120.	4810.	27.50	29.75	2.64	9.74	103.35	1.87	15.50
QMAX	1826800	826800	826790	48.	140.	28.00	31.84	27.50	29.75	51.79	5.27	15.30
QMAX	2826800	826800	826790	48.	140.	28.00	31.84	27.50	29.75	51.79	5.27	15.30
QMAX	9826970	826970	826850	120.	1170.	8.50	15.79	8.27	15.63	172.14	-1.51	19.60
QMAX	9826980	826980	826970	120.	1525.	10.00	16.37	8.50	15.79	142.36	1.87	18.87
QMAX	1826990	826990	826980	54.	340.	10.50	18.72	10.00	16.37	117.52	7.36	21.85
QMAX	9829000	829000	82900	48.	500.	-1.00	2.14	-1.00	2.00	1264.45	1.97	13.77
QMAX	9829100	829100	829000	60.	450.	1.70	2.66	-1.00	2.14	13.97	0.06	15.70
QMAX	9829190	829190	829000	84.	1600.	-1.00	2.18	-1.00	2.14	72.84	0.73	20.47

QMAX	1829200	829200	829190	29.	100.	0.00	3.93	-1.00	2.18	52.59	7.33	20.38
QMAX	2829200	829200	829190	24.	100.	0.00	3.93	-1.00	2.18	20.23	6.41	20.38
QMAX	9829400	829400	82940	84.	500.	-4.00	2.11	-4.00	2.00	451.30	0.53	16.77
QMAX	9829410	829410	829400	120.	1100.	-3.90	2.10	-4.00	2.11	147.35	0.47	19.22
QMAX	1829450	829450	829410	132.	200.	-3.81	2.11	-3.90	2.10	143.97	1.06	19.50
QMAX	9829500	829500	829450	133.	1350.	-3.50	2.19	-3.81	2.11	138.24	1.06	19.52
QMAX	9829300	829300	82930	48.	500.	-1.50	2.09	-1.50	2.00	1333.70	1.79	12.75
QMAX	9829501	829500	829300	85.	1400.	-1.10	2.19	-1.50	2.09	100.89	0.91	19.05
QMAX	9829510	829510	829500	120.	1750.	-1.00	2.20	-1.10	2.19	11.67	0.14	19.67
QMAX	1829600	829600	829510	30.	260.	-0.50	2.36	-1.00	2.20	11.62	2.31	19.48

	WEIR_ID	FROM	TO	ZCREST	ZU	ZD	ZMAXU	QMAX	ZMAXD	TMAX
QWEIR	7821200	821200	821190	7.50	-4.50	-4.50	5.15	0.00	4.73	0.0
QWEIR	7821300	821300	821290	10.60	0.87	0.87	6.90	0.00	5.66	0.0
QWEIR	7821400	821400	821390	14.90	9.00	8.00	11.49	0.00	10.96	0.0
QWEIR	7821500	821500	821490	26.20	20.50	19.00	25.87	0.00	20.78	0.0
QWEIR	7822050	822050	822000	4.50	0.50	-2.10	3.62	0.00	2.01	0.0
QWEIR	7822100	822100	822000	6.50	-2.10	-2.10	2.95	0.00	2.01	0.0
QWEIR	7822200	822200	822190	6.50	-1.00	-2.00	3.09	0.00	2.99	0.0
QWEIR	7822250	822250	822110	6.08	-1.10	-1.10	3.76	0.00	3.31	0.0
QWEIR	7822300	822300	822290	12.00	-0.65	-0.65	6.31	0.00	5.44	0.0
QWEIR	7822400	822400	822390	12.50	1.50	1.00	9.31	0.00	6.13	0.0
QWEIR	7822420	822420	822410	12.50	3.00	2.80	10.25	0.00	9.32	0.0
QWEIR	7822500	822500	822490	15.40	5.00	4.00	11.36	0.00	10.30	0.0
QWEIR	7823100	823100	823000	6.50	-2.00	-2.00	4.10	0.00	2.00	0.0
QWEIR	7823180	823180	823170	6.00	1.17	-0.50	4.58	0.00	4.20	0.0
QWEIR	7823190	823190	823180	6.00	0.09	1.17	4.90	0.00	4.58	0.0
QWEIR	7823200	823200	823190	6.00	0.22	0.09	5.27	0.00	4.90	0.0
QWEIR	7823300	823300	823290	9.00	3.00	1.40	6.59	0.00	6.50	0.0
QWEIR	7823400	823400	823390	9.80	3.60	3.30	9.46	0.00	7.53	0.0
QWEIR	7824080	824080	824000	6.50	-1.01	-2.54	2.28	0.00	2.01	0.0
QWEIR	7824100	824100	824085	5.50	0.30	0.30	3.11	0.00	2.38	0.0
QWEIR	7824200	824200	824110	9.30	3.60	3.40	5.54	0.00	4.33	0.0
QWEIR	7824300	824300	824130	10.00	3.90	3.70	6.00	0.00	4.74	0.0
QWEIR	7824400	824400	824140	11.00	5.20	5.00	7.51	0.00	6.10	0.0
QWEIR	7824490	824490	824000	7.50	1.15	-2.54	4.83	0.00	2.01	0.0
QWEIR	7824600	824600	824590	12.50	3.50	3.00	5.91	0.00	5.91	0.0
QWEIR	7825200	825200	825100	10.00	-4.00	-4.00	2.03	0.00	2.00	0.0
QWEIR	7825300	825300	825230	12.00	4.00	4.00	6.71	0.00	5.60	0.0
QWEIR	7825400	825400	825390	15.00	5.50	4.00	11.51	0.00	6.85	0.0
QWEIR	7825420	825420	825410	12.80	6.30	6.10	12.92	11.01	6.89	19.8
QWEIR	6825430	825430	825429	12.40	6.50	8.00	12.94	20.68	9.31	19.8
QWEIR	7825500	825500	825430	13.00	9.41	6.50	13.32	47.22	12.94	19.8
QWEIR	6825600	825600	825200	4.80	-4.00	-4.00	2.10	0.00	2.03	0.0
QWEIR	7825630	825630	825620	13.50	1.20	1.20	3.59	0.00	3.19	0.0
QWEIR	7825655	825655	825653	6.80	-1.29	-1.05	2.11	0.00	2.11	0.0
QWEIR	7825700	825700	825615	9.20	3.00	-3.00	6.00	0.00	2.11	0.0
QWEIR	7825800	825800	825630	13.50	3.63	1.20	5.45	0.00	3.59	0.0
QWEIR	7826250	826250	826245	10.00	-3.17	-3.20	2.42	0.00	2.13	0.0
QWEIR	7826295	826295	826290	14.00	6.00	0.00	13.88	0.00	2.45	0.0
QWEIR	7826300	826300	826290	10.00	1.00	0.00	3.04	0.00	2.45	0.0
QWEIR	7826310	826310	826305	10.00	1.50	1.40	3.74	0.00	3.43	0.0
QWEIR	7826320	826320	826315	10.20	2.50	2.00	4.80	0.00	4.02	0.0
QWEIR	7826350	826350	826325	13.00	8.12	6.00	10.35	0.00	6.87	0.0
QWEIR	7826400	826400	826295	14.00	8.14	6.00	14.50	93.79	13.88	25.1
QWEIR	7826500	826500	826450	6.00	-3.50	-3.50	2.20	0.00	2.03	0.0
QWEIR	7826550	826550	826500	4.00	-2.00	-3.50	2.21	0.00	2.20	0.0
QWEIR	7826570	826570	826560	5.00	-2.62	-2.53	4.39	0.00	2.48	0.0
QWEIR	7826650	826650	826640	11.00	2.20	2.20	8.84	0.00	8.74	0.0
QWEIR	7826700	826700	826685	14.00	9.28	8.98	13.73	0.00	9.80	0.0

QWEIR	7826750	826750	826665	12.00	2.64	2.64	9.74	0.00	9.66	0.0
QWEIR	7826800	826800	826790	34.00	28.00	27.50	31.84	0.00	29.75	0.0
QWEIR	7826850	826850	826780	14.70	8.27	8.03	15.63	235.06	12.44	18.6
QWEIR	7826860	826860	826855	24.00	18.00	17.50	24.82	196.83	21.53	16.1
QWEIR	7826900	826900	826865	36.00	29.50	29.00	36.43	72.89	33.73	16.0
QWEIR	7826990	826990	826980	18.50	10.50	10.00	18.72	27.75	16.37	18.8
QWEIR	7829100	829100	829000	2.00	1.70	-1.00	2.66	141.17	2.14	15.7
QWEIR	7829200	829200	829190	5.00	0.00	-1.00	3.93	0.00	2.18	0.0
QWEIR	7829600	829600	829510	5.00	-0.50	-1.00	2.36	0.00	2.20	0.0
QWEIR	90221	82100	0	-2.00	-2.00	0.00	2.00	757.25	0.00	13.5
QWEIR	90222	82200	0	-2.50	-2.50	0.00	2.00	971.58	0.00	16.3
QWEIR	90223	82300	0	-2.50	-2.50	0.00	2.00	327.07	0.00	14.0
QWEIR	90224	82400	0	-2.60	-2.60	0.00	2.00	913.18	0.00	13.5
QWEIR	90225	82510	0	-4.00	-4.00	0.00	2.00	495.05	0.00	16.6
QWEIR	90226	82615	0	-4.00	-4.00	0.00	2.00	827.64	0.00	13.5
QWEIR	90227	82620	0	-3.50	-3.50	0.00	2.00	1350.25	0.00	12.7
QWEIR	90228	82645	0	-3.50	-3.50	0.00	2.00	1444.81	0.00	12.8
QWEIR	90229	82900	0	-1.00	-1.00	0.00	2.00	1264.45	0.00	13.8
QWEIR	90230	82930	0	-1.50	-1.50	0.00	2.00	1333.70	0.00	12.8
QWEIR	90231	82940	0	-4.00	-4.00	0.00	2.00	451.30	0.00	16.8

5. MC-100-exRAI.smx

File: J:\Projects\TECO\Gypsum\Drainage Report\Miscellaneous Coastal Streams Existing\Miscellaneou Coastal Streams Existing - RAI\100RAI_Test\MC-100_exRAI.SMX
12/3/2012, 11:50:53 AM

	JUNC_ID	INVT	Z_MAX	T_MAX
ZMAX	82100	-2.00	2.00	0.00
ZMAX	821000	-2.00	2.21	12.47
ZMAX	821100	-1.10	2.43	12.48
ZMAX	821190	-4.50	5.28	18.30
ZMAX	821200	-4.50	6.07	18.22
ZMAX	821290	0.87	6.35	19.85
ZMAX	821300	0.87	8.46	19.73
ZMAX	821390	8.00	11.56	17.95
ZMAX	821400	9.00	12.96	17.92
ZMAX	821490	19.00	21.36	14.57
ZMAX	821500	20.50	26.44	14.25
ZMAX	82200	-2.50	2.00	0.00
ZMAX	822000	-2.10	2.01	15.65
ZMAX	822050	0.50	4.69	15.00
ZMAX	822100	-2.10	3.86	16.75
ZMAX	822110	-1.10	4.15	16.43
ZMAX	822150	-2.00	3.91	16.82
ZMAX	822190	-2.00	3.91	16.82
ZMAX	822200	-1.00	4.29	16.63
ZMAX	822250	-1.10	4.86	15.72
ZMAX	822290	-0.65	6.19	15.25
ZMAX	822300	-0.65	8.14	18.50
ZMAX	822350	0.00	6.92	14.58
ZMAX	822390	1.00	7.02	14.82
ZMAX	822400	1.50	11.68	20.78
ZMAX	822410	2.80	11.68	20.82
ZMAX	822420	3.00	12.51	25.32
ZMAX	822490	4.00	12.53	25.28
ZMAX	822500	5.00	13.96	22.90
ZMAX	82300	-2.50	2.00	0.00
ZMAX	823000	-2.00	2.00	12.97
ZMAX	823100	-2.00	5.14	24.77
ZMAX	823170	-0.50	5.22	24.82
ZMAX	823180	1.17	5.45	24.08
ZMAX	823190	0.09	5.96	22.43
ZMAX	823200	0.22	6.28	21.60
ZMAX	823290	1.40	6.96	19.57
ZMAX	823300	3.00	7.25	19.42
ZMAX	823380	3.20	8.06	17.62
ZMAX	823390	3.30	8.46	17.35
ZMAX	823400	3.60	10.20	17.05
ZMAX	823490	5.00	10.20	17.05
ZMAX	82400	-2.60	2.00	0.00
ZMAX	824000	-2.54	2.01	13.00
ZMAX	824080	-1.01	2.75	15.80
ZMAX	824085	0.30	2.81	16.17
ZMAX	824100	0.30	3.51	20.57
ZMAX	824110	3.40	4.57	19.75
ZMAX	824120	1.50	4.43	16.28
ZMAX	824130	3.70	4.99	17.87
ZMAX	824140	5.00	6.41	14.25
ZMAX	824200	3.60	5.97	19.48
ZMAX	824300	3.90	6.48	17.67
ZMAX	824400	5.20	8.28	13.83
ZMAX	824490	1.15	5.95	20.95
ZMAX	824500	2.00	6.54	20.78
ZMAX	824590	3.00	6.63	21.48
ZMAX	824600	3.50	6.63	21.53

& 100 year Existing Stage
4.43 NGVD
- 1.97
2.46 NAVD

ZMAX	824650	5.00	6.63	21.55
ZMAX	82510	-4.00	2.00	0.00
ZMAX	825100	-4.00	2.01	12.17
ZMAX	825200	-4.00	2.09	17.75
ZMAX	825220	4.00	5.52	18.00
ZMAX	825230	4.00	5.80	15.88
ZMAX	825300	4.00	7.06	15.63
ZMAX	825390	4.00	7.16	15.92
ZMAX	825400	5.50	13.67	20.65
ZMAX	825410	6.10	7.35	17.47
ZMAX	825420	6.30	13.14	17.40
ZMAX	825429	8.00	9.66	18.57
ZMAX	825430	6.50	13.22	17.38
ZMAX	825500	9.41	13.60	17.37
ZMAX	825600	-4.00	2.24	13.67
ZMAX	825610	-3.60	2.26	13.98
ZMAX	825615	-3.00	2.26	13.97
ZMAX	825620	1.20	4.05	16.65
ZMAX	825630	1.20	4.52	16.63
ZMAX	825650	-4.00	2.16	13.65
ZMAX	825653	-1.05	2.17	13.55
ZMAX	825655	-1.29	2.26	13.97
ZMAX	825700	3.00	6.79	19.48
ZMAX	825800	3.63	5.97	15.77
ZMAX	825900	4.00	6.30	15.27
ZMAX	82615	-4.00	2.00	0.00
ZMAX	82620	-3.50	2.00	0.00
ZMAX	82645	-3.50	2.00	0.00
ZMAX	826150	-4.00	2.06	11.65
ZMAX	826190	-4.00	2.09	12.00
ZMAX	826200	-3.50	2.05	12.50
ZMAX	826245	-3.20	2.27	15.43
ZMAX	826250	-3.17	2.85	15.38
ZMAX	826290	0.00	2.96	19.43
ZMAX	826295	6.00	14.76	19.93
ZMAX	826300	1.00	3.44	15.13
ZMAX	826305	1.40	3.80	15.15
ZMAX	826310	1.50	4.10	15.13
ZMAX	826315	2.00	4.37	15.07
ZMAX	826320	2.50	5.13	14.67
ZMAX	826325	6.00	7.02	14.57
ZMAX	826350	8.12	10.89	14.53
ZMAX	826400	8.14	15.13	19.93
ZMAX	826450	-3.50	2.09	11.78
ZMAX	826500	-3.50	2.49	20.68
ZMAX	826550	-2.00	2.49	20.68
ZMAX	826560	-2.53	3.06	20.35
ZMAX	826570	-2.62	5.89	20.05
ZMAX	826600	-1.00	7.56	20.03
ZMAX	826640	2.20	9.92	18.85
ZMAX	826650	2.20	10.21	18.65
ZMAX	826665	2.64	10.86	18.22
ZMAX	826685	8.98	11.02	18.25
ZMAX	826700	9.28	14.28	22.32
ZMAX	826750	2.64	11.16	17.98
ZMAX	826780	8.03	14.16	16.62
ZMAX	826790	27.50	30.32	15.00
ZMAX	826800	28.00	34.08	14.75
ZMAX	826850	8.27	16.53	16.58

ZMAX	826855	17.50	22.82	15.37
ZMAX	826860	18.00	25.36	15.33
ZMAX	826865	29.00	35.27	15.32
ZMAX	826900	29.50	37.14	15.28
ZMAX	826940	41.00	43.56	15.37
ZMAX	826950	41.10	47.34	15.25
ZMAX	826970	8.50	16.82	16.92
ZMAX	826980	10.00	17.74	16.75
ZMAX	826990	10.50	19.20	16.48
ZMAX	82900	-1.00	2.00	0.00
ZMAX	82930	-1.50	2.00	0.00
ZMAX	82940	-4.00	2.00	0.00
ZMAX	829000	-1.00	2.29	13.50
ZMAX	829100	1.70	2.86	15.38
ZMAX	829190	-1.00	2.34	13.83
ZMAX	829200	0.00	4.90	20.10
ZMAX	829300	-1.50	2.19	12.75
ZMAX	829400	-4.00	2.19	15.32
ZMAX	829410	-3.90	2.16	15.27
ZMAX	829450	-3.81	2.18	15.27
ZMAX	829500	-3.50	2.40	18.27
ZMAX	829510	-1.00	2.40	18.30
ZMAX	829600	-0.50	2.68	19.57

	PIPE_ID	FROM	TO	SIZE(INCH)	LENGTH	INV_U	ZMAXU	INV_D	ZMAXD	QMAX	VMAX	TMAX
QMAX	9821000	821000	82100	60.	500.	-2.00	2.21	-2.00	2.00	835.17	1.62	14.62
QMAX	9821100	821100	821000	83.	144.	-1.10	2.43	-2.00	2.21	568.87	5.48	17.38
QMAX	9821190	821100	821190	138.	1615.	-1.10	2.43	-4.50	5.28	-507.43	-2.73	18.22
QMAX	1821200	821200	821190	96.	135.	-4.50	6.07	-4.50	5.28	507.61	6.20	18.15
QMAX	9821290	821290	821200	140.	1890.	0.87	6.35	-4.50	6.07	429.84	0.85	19.85
QMAX	1821300	821300	821290	54.	120.	0.87	8.46	0.87	6.35	143.35	8.87	19.60
QMAX	2821300	821300	821290	54.	120.	0.87	8.46	0.87	6.35	143.35	8.87	19.60
QMAX	3821300	821300	821290	54.	120.	0.87	8.46	0.87	6.35	143.35	8.87	19.60
QMAX	9821390	821390	821300	132.	2790.	8.00	11.56	0.87	8.46	368.90	2.10	17.95
QMAX	1821400	821400	821390	43.	320.	9.00	12.96	8.00	11.56	122.98	7.49	17.87
QMAX	2821400	821400	821390	43.	320.	9.00	12.96	8.00	11.56	122.98	7.49	17.87
QMAX	3821400	821400	821390	43.	320.	9.00	12.96	8.00	11.56	122.98	7.49	17.87
QMAX	9821490	821490	821400	96.	4690.	19.00	21.36	9.00	12.96	136.58	2.76	14.57
QMAX	1821500	821500	821490	24.	320.	21.50	26.44	20.00	21.36	23.34	7.56	14.25
QMAX	2821500	821500	821490	36.	320.	20.50	26.44	19.00	21.36	83.70	12.82	14.55
QMAX	9822000	822000	82200	60.	500.	-2.10	2.01	-2.50	2.00	1392.31	1.03	15.92
QMAX	1822100	822100	822000	60.	113.	-2.00	3.86	-2.00	2.01	382.42	8.08	16.77
QMAX	2822100	822100	822000	60.	150.	-2.10	3.86	-2.10	2.01	341.49	7.98	16.77
QMAX	3822100	822100	822000	60.	150.	-2.10	3.86	-2.10	2.01	341.49	7.98	16.77
QMAX	9822150	822150	822100	96.	965.	-2.00	3.91	-2.00	3.86	145.96	0.64	17.57
QMAX	9822190	822190	822150	96.	890.	-2.00	3.91	-2.00	3.91	62.47	0.29	16.53
QMAX	1822200	822200	822190	54.	320.	-1.00	4.29	-2.00	3.91	64.74	3.97	15.52
QMAX	9822110	822110	822100	73.	785.	-1.10	4.15	-2.00	3.86	982.67	1.53	15.07
QMAX	1822250	822250	822110	57.	320.	-1.10	4.86	-1.10	4.15	1001.97	6.79	15.00
QMAX	9822290	822290	822250	128.	1460.	-0.65	6.19	-1.10	4.86	925.96	1.95	15.00
QMAX	1822300	822300	822290	48.	105.	-0.65	8.14	-0.65	6.19	114.69	9.07	18.98
QMAX	2822300	822300	822290	48.	105.	-0.65	8.14	-0.65	6.19	114.69	9.07	18.98
QMAX	3822300	822300	822290	48.	105.	-0.65	8.14	-0.65	6.19	114.69	9.07	18.98
QMAX	9822350	822350	822290	96.	1870.	0.00	6.92	-0.65	6.19	759.82	2.41	14.08
QMAX	9822390	822390	822350	96.	2265.	1.00	7.02	0.00	6.92	347.17	1.52	21.12
QMAX	1822400	822400	822390	48.	100.	1.50	11.68	1.00	7.02	173.19	13.70	21.00
QMAX	2822400	822400	822390	48.	100.	1.50	11.68	1.00	7.02	173.19	13.70	21.00
QMAX	9822410	822410	822400	144.	1240.	2.80	11.68	1.50	11.68	156.35	1.10	31.98
QMAX	1822420	822420	822410	24.	260.	3.00	12.51	2.80	11.68	37.70	11.83	32.00
QMAX	2822420	822420	822410	36.	260.	3.00	12.51	2.80	11.68	115.92	10.20	32.00

QMAX	9822490	822490	822420	144.	4100.	4.00	12.53	3.00	12.51	123.45	1.16	21.08
QMAX	1822500	822500	822490	38.	115.	5.00	13.96	4.00	12.53	106.35	8.43	16.87
QMAX	2822500	822500	822490	30.	115.	5.00	13.96	4.00	12.53	36.25	-10.00	16.90
QMAX	1822050	822050	822000	24.	320.	0.50	4.69	-0.50	2.01	26.56	8.42	15.00
QMAX	2822050	822050	822000	24.	320.	0.50	4.69	-0.50	2.01	45.38	9.00	15.00
QMAX	9823000	823000	82300	60.	500.	-2.00	2.00	-2.50	2.00	591.98	0.45	13.25
QMAX	1823100	823100	823000	60.	140.	-2.00	5.14	-2.00	2.00	190.11	10.41	24.80
QMAX	9823170	823170	823100	90.	2515.	-0.50	5.22	-2.00	5.14	121.65	0.76	26.52
QMAX	1823180	823170	823180	60.	320.	1.92	5.22	1.26	5.45	-131.18	-3.78	20.57
QMAX	1823190	823180	823190	48.	320.	1.17	5.45	0.09	5.96	-45.78	-3.62	20.30
QMAX	2823190	823180	823190	48.	320.	1.17	5.45	0.09	5.96	-45.78	-3.62	20.30
QMAX	3823190	823180	823190	48.	320.	1.17	5.45	0.09	5.96	-45.78	-3.62	20.30
QMAX	1823200	823190	823200	48.	320.	1.18	5.96	0.22	6.28	-64.37	-5.04	18.18
QMAX	2823200	823190	823200	48.	320.	1.18	5.96	0.22	6.28	-64.37	-5.04	18.18
QMAX	9823290	823290	823200	79.	1160.	1.40	6.96	0.22	6.28	137.37	1.70	19.57
QMAX	1823300	823300	823290	48.	230.	3.00	7.25	1.40	6.96	137.96	3.35	19.18
QMAX	9823380	823380	823300	71.	1360.	3.20	8.06	3.00	7.25	160.12	2.12	17.08
QMAX	9823390	823390	823380	82.	900.	3.30	8.46	3.20	8.06	161.14	2.23	16.98
QMAX	1823400	823400	823390	52.	380.	3.60	10.20	3.30	8.46	105.78	7.26	14.85
QMAX	9823490	823490	823400	90.	2000.	5.00	10.20	3.60	10.20	-47.51	-0.42	14.67
QMAX	9824000	824000	82400	60.	500.	-2.54	2.01	-2.60	2.00	1403.93	0.98	13.25
QMAX	1824080	824080	824000	84.	175.	-1.01	2.75	-2.54	2.01	224.64	6.77	15.80
QMAX	2824080	824080	824000	84.	175.	-1.01	2.75	-2.54	2.01	224.64	6.77	15.80
QMAX	9824085	824085	824080	84.	2125.	0.30	2.81	-1.01	2.75	48.17	0.77	20.78
QMAX	1824100	824100	824085	66.	100.	0.30	3.51	0.30	2.81	47.47	4.13	20.87
QMAX	9824110	824110	824100	84.	1800.	3.40	4.57	1.00	3.51	20.00	0.90	19.75
QMAX	1824200	824200	824110	36.	122.	3.60	5.97	3.40	4.57	20.01	4.68	19.58
QMAX	9824120	824120	824100	84.	2690.	1.50	4.43	1.00	3.51	43.94	1.36	16.13
QMAX	9824130	824130	824120	84.	1490.	3.70	4.99	1.50	4.43	24.92	0.99	17.87
QMAX	1824300	824300	824130	36.	264.	3.90	6.48	3.70	4.99	24.93	5.32	17.73
QMAX	9824140	824140	824120	84.	2615.	5.00	6.41	1.50	4.43	27.31	1.27	14.25
QMAX	1824400	824400	824140	36.	138.	5.20	8.28	5.00	6.41	27.60	5.32	14.03
QMAX	1824490	824000	824490	30.	100.	1.59	2.01	1.15	5.95	-37.18	-7.78	20.95
QMAX	2824490	824000	824490	30.	100.	1.59	2.01	1.15	5.95	-37.18	-7.78	20.95
QMAX	9824500	824500	824490	60.	2550.	2.00	6.54	1.15	5.95	74.51	1.39	20.38
QMAX	9824590	824590	824500	60.	2780.	3.00	6.63	2.00	6.54	35.90	1.03	28.85
QMAX	1824600	824600	824590	48.	110.	3.50	6.63	3.00	6.63	35.11	1.19	28.87
QMAX	9824650	824650	824600	84.	2250.	5.00	6.63	3.50	6.63	18.26	-1.12	13.58
QMAX	9825100	825100	82510	144.	500.	-4.00	2.01	-4.00	2.00	785.73	0.57	17.13
QMAX	1825200	825200	825100	144.	125.	-4.00	2.09	-4.00	2.01	504.69	2.09	17.85
QMAX	9825610	825610	825600	133.	2550.	-3.60	2.26	-4.00	2.24	299.83	0.71	16.52
QMAX	1825650	825650	826190	140.	475.	-4.00	2.16	-4.00	2.09	602.84	1.99	14.07
QMAX	9825650	825650	825600	168.	825.	-4.00	2.16	-4.00	2.24	-595.99	-1.40	13.92
QMAX	9825653	825653	825650	97.	2050.	-1.05	2.17	-4.00	2.16	-79.20	-0.24	12.03
QMAX	1825655	825653	825655	24.	200.	-1.05	2.17	-1.29	2.26	-8.51	-1.54	12.23
QMAX	9825615	825615	825655	96.	650.	-1.00	2.26	-1.29	2.26	14.70	0.09	12.23
QMAX	9825616	825615	825610	126.	235.	-3.00	2.26	-3.60	2.26	297.63	0.74	16.68
QMAX	1825700	825700	825615	24.	150.	3.00	6.79	1.50	2.26	15.55	5.25	19.48
QMAX	9825620	825620	825615	144.	1580.	1.20	4.05	-3.00	2.26	288.09	2.73	16.65
QMAX	1825630	825630	825620	96.	121.	1.20	4.52	1.20	4.05	144.07	3.89	16.60
QMAX	2825630	825630	825620	96.	121.	1.20	4.52	1.20	4.05	144.07	3.89	16.60
QMAX	1825800	825800	825630	72.	320.	3.63	5.97	3.58	4.52	131.33	4.54	15.77
QMAX	2825800	825800	825630	72.	320.	3.63	5.97	3.58	4.52	131.33	4.54	15.77
QMAX	9825900	825900	825800	144.	680.	4.00	6.30	3.63	5.97	76.93	1.71	14.25
QMAX	9825220	825220	825200	120.	5910.	4.00	5.52	-4.00	2.09	103.78	0.49	18.00
QMAX	9825410	825410	825220	120.	810.	6.10	7.35	4.00	5.52	96.66	1.98	17.47
QMAX	1825420	825420	825410	36.	129.	6.30	13.14	6.10	7.35	44.09	8.90	17.47
QMAX	9825430	825430	825420	120.	1170.	6.50	13.22	6.30	13.14	96.68	1.00	17.40
QMAX	9825429	825429	825630	120.	1700.	8.00	9.66	3.50	4.52	38.35	2.34	17.53

* Existing 100 Year Q Through Ditch Section equals 43.94 cfs

QMAX	1825500	825500	825430	30.	125.	9.41	13.60	8.82	13.22	33.65	6.95	15.05
QMAX	9825230	825230	825200	192.	5900.	4.00	5.80	-4.00	2.09	95.61	0.60	15.88
QMAX	1825230	825230	825220	54.	340.	4.00	5.80	4.00	5.52	12.04	2.83	16.48
QMAX	1825300	825300	825230	60.	110.	4.00	7.06	4.00	5.80	106.52	5.49	15.68
QMAX	9825390	825390	825300	192.	845.	4.00	7.16	4.00	7.06	95.46	0.99	20.75
QMAX	1825400	825400	825390	36.	135.	5.50	13.67	4.00	7.16	95.45	13.31	20.65
QMAX	9826150	826150	82615	84.	500.	-4.00	2.06	-4.00	2.00	1430.86	1.09	13.08
QMAX	9826190	826190	826150	120.	1450.	-4.00	2.09	-4.00	2.06	605.18	0.94	14.10
QMAX	9826200	826200	82620	84.	500.	-3.50	2.05	-3.50	2.00	1991.24	1.66	12.53
QMAX	9826245	826245	826200	122.	7150.	-3.20	2.27	-3.50	2.05	536.08	0.86	15.55
QMAX	1826250	826250	826245	144.	240.	-3.17	2.85	-3.20	2.27	535.73	5.18	15.38
QMAX	9826290	826290	826250	96.	5140.	0.00	2.96	-3.17	2.85	383.68	0.83	20.08
QMAX	1826295	826295	826290	54.	180.	6.00	14.76	3.00	2.96	166.53	10.73	19.93
QMAX	1826400	826400	826295	30.	120.	8.38	15.13	7.59	14.76	39.97	8.10	16.83
QMAX	2826400	826400	826295	42.	120.	8.14	15.13	7.68	14.76	90.04	9.37	16.92
QMAX	1826300	826300	826290	84.	320.	1.00	3.44	0.00	2.96	51.61	3.94	14.82
QMAX	9826305	826305	826300	120.	485.	1.40	3.80	1.00	3.44	34.12	1.64	15.22
QMAX	1826310	826310	826305	72.	120.	1.50	4.10	1.40	3.80	34.12	3.07	15.07
QMAX	9826315	826315	826310	120.	595.	2.00	4.37	1.50	4.10	34.15	1.29	14.88
QMAX	1826320	826320	826315	60.	340.	2.50	5.13	2.20	4.37	34.21	4.28	14.67
QMAX	9826325	826325	826320	120.	260.	6.00	7.02	2.50	5.13	34.21	1.81	14.57
QMAX	1826350	826350	826325	36.	300.	8.12	10.89	6.88	7.02	34.21	5.87	14.53
QMAX	9826450	826450	82645	78.	500.	-3.50	2.09	-3.50	2.00	2076.37	1.74	12.52
QMAX	9826500	826500	826450	126.	2950.	-3.50	2.49	-3.50	2.09	1167.75	1.82	20.73
QMAX	1826550	826550	826500	120.	195.	-2.00	2.49	-3.50	2.49	522.11	1.97	13.27
QMAX	9826560	826560	826500	114.	4950.	-2.53	3.06	-3.50	2.49	1129.03	1.65	20.20
QMAX	1826570	826570	826560	72.	100.	-2.02	5.89	-2.53	3.06	318.04	11.42	19.88
QMAX	2826570	826560	826570	72.	100.	-1.99	3.06	-2.62	5.89	-294.65	-10.97	20.05
QMAX	3826570	826560	826570	72.	100.	-2.07	3.06	-2.55	5.89	-298.76	-11.05	20.05
QMAX	9826600	826600	826570	108.	1210.	-1.00	7.56	-2.62	5.89	1131.16	4.89	20.03
QMAX	9826640	826640	826600	106.	4055.	2.20	9.92	-1.00	7.56	1046.66	2.57	18.85
QMAX	1826650	826650	826640	96.	116.	2.20	10.21	2.20	9.92	362.61	3.93	17.80
QMAX	2826650	826650	826640	96.	116.	2.20	10.21	2.20	9.92	362.61	3.93	17.80
QMAX	3826650	826650	826640	96.	116.	2.20	10.21	2.20	9.92	362.61	3.93	17.80
QMAX	9826665	826665	826650	112.	715.	2.64	10.86	2.20	10.21	1078.75	2.97	17.45
QMAX	9826685	826685	826665	96.	650.	8.98	11.02	4.00	10.86	85.74	-2.74	18.95
QMAX	1826700	826700	826685	30.	380.	9.28	14.28	8.98	11.02	26.90	6.27	19.70
QMAX	1826750	826750	826665	96.	340.	2.64	11.16	2.64	10.86	538.17	4.08	17.23
QMAX	2826750	826750	826665	96.	340.	2.64	11.16	2.64	10.86	538.17	4.08	17.23
QMAX	9826780	826780	826750	120.	1460.	8.03	14.16	2.64	11.16	818.00	5.04	16.62
QMAX	1826850	826780	826850	48.	100.	8.68	14.16	8.27	16.53	-100.43	-8.23	14.70
QMAX	2826850	826850	826780	48.	100.	8.31	16.53	8.03	14.16	105.53	8.64	14.38
QMAX	9826855	826855	826850	120.	2120.	17.50	22.82	8.27	16.53	488.17	4.37	15.37
QMAX	1826860	826860	826855	43.	100.	18.00	25.36	17.50	22.82	91.23	9.16	13.37
QMAX	9826865	826865	826860	120.	2080.	29.00	35.27	18.00	25.36	488.26	5.89	15.32
QMAX	1826900	826900	826865	48.	240.	29.50	37.14	29.00	35.27	109.95	8.60	13.60
QMAX	2826900	826900	826865	48.	240.	29.50	37.14	29.00	35.27	109.95	8.60	13.60
QMAX	9826940	826940	826900	180.	1900.	41.00	43.56	29.50	37.14	335.72	1.09	15.37
QMAX	1826950	826950	826940	48.	304.	41.10	47.34	41.00	43.56	168.02	8.52	15.25
QMAX	2826950	826950	826940	48.	304.	41.10	47.34	41.00	43.56	168.02	8.52	15.25
QMAX	9826790	826790	826750	120.	4810.	27.50	30.32	2.64	11.16	169.23	1.99	15.00
QMAX	1826800	826800	826790	48.	140.	28.00	34.08	27.50	30.32	82.17	7.45	14.90
QMAX	2826800	826800	826790	48.	140.	28.00	34.08	27.50	30.32	82.17	7.45	14.90
QMAX	9826970	826970	826850	120.	1170.	8.50	16.82	8.27	16.53	304.97	-2.09	17.50
QMAX	9826980	826980	826970	120.	1525.	10.00	17.74	8.50	16.82	245.41	2.56	16.47
QMAX	1826990	826990	826980	54.	340.	10.50	19.20	10.00	17.74	117.73	7.38	24.13
QMAX	9829000	829000	82900	48.	500.	-1.00	2.29	-1.00	2.00	1885.79	2.86	13.53
QMAX	9829100	829100	829000	60.	450.	1.70	2.86	-1.00	2.29	21.75	0.09	15.38
QMAX	9829190	829190	829000	84.	1600.	-1.00	2.34	-1.00	2.29	89.44	0.87	20.23

QMAX	1829200	829200	829190	29.	100.	0.00	4.90	-1.00	2.34	64.56	8.99	20.13
QMAX	2829200	829200	829190	24.	100.	0.00	4.90	-1.00	2.34	24.84	7.86	20.13
QMAX	9829400	829400	82940	84.	500.	-4.00	2.19	-4.00	2.00	738.84	0.87	15.30
QMAX	9829410	829410	829400	120.	1100.	-3.90	2.16	-4.00	2.19	230.35	0.72	18.42
QMAX	1829450	829450	829410	132.	200.	-3.81	2.18	-3.90	2.16	223.09	1.62	18.50
QMAX	9829500	829500	829450	133.	1350.	-3.50	2.40	-3.81	2.18	216.98	1.60	18.78
QMAX	9829300	829300	82930	48.	500.	-1.50	2.19	-1.50	2.00	1922.13	2.54	12.75
QMAX	9829501	829500	829300	85.	1400.	-1.10	2.40	-1.50	2.19	155.28	1.32	18.30
QMAX	9829510	829510	829500	120.	1750.	-1.00	2.40	-1.10	2.40	15.93	0.17	20.58
QMAX	1829600	829600	829510	30.	260.	-0.50	2.68	-1.00	2.40	15.68	3.19	20.62

	WEIR ID	FROM	TO	ZCREST	ZU	ZD	ZMAXU	QMAX	ZMAXD	TMAX
QWEIR	7821200	821200	821190	7.50	-4.50	-4.50	6.07	0.00	5.28	0.0
QWEIR	7821300	821300	821290	10.60	0.87	0.87	8.46	0.00	6.35	0.0
QWEIR	7821400	821400	821390	14.90	9.00	8.00	12.96	0.00	11.56	0.0
QWEIR	7821500	821500	821490	26.20	20.50	19.00	26.44	30.65	21.36	14.2
QWEIR	7822050	822050	822000	4.50	0.50	-2.10	4.69	21.74	2.01	15.0
QWEIR	7822100	822100	822000	6.50	-2.10	-2.10	3.86	0.00	2.01	0.0
QWEIR	7822200	822200	822190	6.50	-1.00	-2.00	4.29	0.00	3.91	0.0
QWEIR	7822250	822250	822110	6.08	-1.10	-1.10	4.86	0.00	4.15	0.0
QWEIR	7822300	822300	822290	12.00	-0.65	-0.65	8.14	0.00	6.19	0.0
QWEIR	7822400	822400	822390	12.50	1.50	1.00	11.68	0.00	7.02	0.0
QWEIR	7822420	822420	822410	12.50	3.00	2.80	12.51	0.44	11.68	25.3
QWEIR	7822500	822500	822490	15.40	5.00	4.00	13.96	0.00	12.53	0.0
QWEIR	7823100	823100	823000	6.50	-2.00	-2.00	5.14	0.00	2.00	0.0
QWEIR	7823180	823180	823170	6.00	1.17	-0.50	5.45	0.00	5.22	0.0
QWEIR	7823190	823190	823180	6.00	0.09	1.17	5.96	0.00	5.45	0.0
QWEIR	7823200	823200	823190	6.00	0.22	0.09	6.28	39.62	5.96	21.6
QWEIR	7823300	823300	823290	9.00	3.00	1.40	7.25	0.00	6.96	0.0
QWEIR	7823400	823400	823390	9.80	3.60	3.30	10.20	66.15	8.46	17.0
QWEIR	7824080	824080	824000	6.50	-1.01	-2.54	2.75	0.00	2.01	0.0
QWEIR	7824100	824100	824085	5.50	0.30	0.30	3.51	0.00	2.81	0.0
QWEIR	7824200	824200	824110	9.30	3.60	3.40	5.97	0.00	4.57	0.0
QWEIR	7824300	824300	824130	10.00	3.90	3.70	6.48	0.00	4.99	0.0
QWEIR	7824400	824400	824140	11.00	5.20	5.00	8.28	0.00	6.41	0.0
QWEIR	7824490	824490	824000	7.50	1.15	-2.54	5.95	0.00	2.01	0.0
QWEIR	7824600	824600	824590	12.50	3.50	3.00	6.63	0.00	6.63	0.0
QWEIR	7825200	825200	825100	10.00	-4.00	-4.00	2.09	0.00	2.01	0.0
QWEIR	7825300	825300	825230	12.00	4.00	4.00	7.06	0.00	5.80	0.0
QWEIR	7825400	825400	825390	15.00	5.50	4.00	13.67	0.00	7.16	0.0
QWEIR	7825420	825420	825410	12.80	6.30	6.10	13.14	52.60	7.35	17.4
QWEIR	6825430	825430	825429	12.40	6.50	8.00	13.22	38.90	9.66	17.4
QWEIR	7825500	825500	825430	13.00	9.41	6.50	13.60	120.51	13.22	17.4
QWEIR	6825600	825600	825200	4.80	-4.00	-4.00	2.24	0.00	2.09	0.0
QWEIR	7825630	825630	825620	13.50	1.20	1.20	4.52	0.00	4.05	0.0
QWEIR	7825655	825655	825653	6.80	-1.29	-1.05	2.26	0.00	2.17	0.0
QWEIR	7825700	825700	825615	9.20	3.00	-3.00	6.79	0.00	2.26	0.0
QWEIR	7825800	825800	825630	13.50	3.63	1.20	5.97	0.00	4.52	0.0
QWEIR	7826250	826250	826245	10.00	-3.17	-3.20	2.85	0.00	2.27	0.0
QWEIR	7826295	826295	826290	14.00	6.00	0.00	14.76	173.24	2.96	19.9
QWEIR	7826300	826300	826290	10.00	1.00	0.00	3.44	0.00	2.96	0.0
QWEIR	7826310	826310	826305	10.00	1.50	1.40	4.10	0.00	3.80	0.0
QWEIR	7826320	826320	826315	10.20	2.50	2.00	5.13	0.00	4.37	0.0
QWEIR	7826350	826350	826325	13.00	8.12	6.00	10.89	0.00	7.02	0.0
QWEIR	7826400	826400	826295	14.00	8.14	6.00	15.13	291.19	14.76	19.9
QWEIR	7826500	826500	826450	6.00	-3.50	-3.50	2.49	0.00	2.09	0.0
QWEIR	7826550	826550	826500	4.00	-2.00	-3.50	2.49	0.00	2.49	0.0
QWEIR	7826570	826570	826560	5.00	-2.62	-2.53	5.89	219.76	3.06	20.0
QWEIR	7826650	826650	826640	11.00	2.20	2.20	10.21	0.00	9.92	0.0
QWEIR	7826700	826700	826685	14.00	9.28	8.98	14.28	39.30	11.02	22.3

QWEIR	7826750	826750	826665	12.00	2.64	2.64	11.16	0.00	10.86	0.0
QWEIR	7826800	826800	826790	34.00	28.00	27.50	34.08	5.68	30.32	14.8
QWEIR	7826850	826850	826780	14.70	8.27	8.03	16.53	650.86	14.16	16.6
QWEIR	7826860	826860	826855	24.00	18.00	17.50	25.36	416.01	22.82	15.3
QWEIR	7826900	826900	826865	36.00	29.50	29.00	37.14	319.25	35.27	15.3
QWEIR	7826990	826990	826980	18.50	10.50	10.00	19.20	155.03	17.74	16.5
QWEIR	7829100	829100	829000	2.00	1.70	-1.00	2.86	209.12	2.29	15.4
QWEIR	7829200	829200	829190	5.00	0.00	-1.00	4.90	0.00	2.34	0.0
QWEIR	7829600	829600	829510	5.00	-0.50	-1.00	2.68	0.00	2.40	0.0
QWEIR	90221	82100	0	-2.00	-2.00	0.00	2.00	835.17	0.00	14.6
QWEIR	90222	82200	0	-2.50	-2.50	0.00	2.00	1392.31	0.00	15.9
QWEIR	90223	82300	0	-2.50	-2.50	0.00	2.00	591.98	0.00	13.2
QWEIR	90224	82400	0	-2.60	-2.60	0.00	2.00	1403.93	0.00	13.2
QWEIR	90225	82510	0	-4.00	-4.00	0.00	2.00	785.73	0.00	17.1
QWEIR	90226	82615	0	-4.00	-4.00	0.00	2.00	1430.86	0.00	13.1
QWEIR	90227	82620	0	-3.50	-3.50	0.00	2.00	1991.24	0.00	12.5
QWEIR	90228	82645	0	-3.50	-3.50	0.00	2.00	2076.37	0.00	12.5
QWEIR	90229	82900	0	-1.00	-1.00	0.00	2.00	1885.79	0.00	13.5
QWEIR	90230	82930	0	-1.50	-1.50	0.00	2.00	1922.13	0.00	12.8
QWEIR	90231	82940	0	-4.00	-4.00	0.00	2.00	738.84	0.00	15.3

ATTACHMENT 5

PROPOSED CONDITIONS MODEL

INPUT AND OUTPUT FILES

1. MC-25-PropRAI.s4d

```
*   NBLOCKS    INBLK1  OUTBLK1    INBLK2  OUTBLK
SW    2          8         12       12      14
* NITCH NSCRATCH(1)NSCRATCH(2)NSCRATCH(3)NSCRATCH(4)NSCRATCH(5)NSCRATCH(NTH)
MM    6    10    11    13    14    15    16
* ========================================================================
@     8    'WB-25_PropRAI.WPX'
@    11    'MC-25_PropRAI.HOT'
@    12    'MC-25_PropRAI.INT'
@    15    'MC-25_PropRAI.SMX'
@    16    'MC-25_PropRAI.PLT'
* ========================================================================
$COMBINE
A1  11
B1  '  GENERATE HYDROGRAPH FROM INTERNAL SCS METHOD'
B1  '  MAKE SWMM INTERFACE FILE          '
* ========================================================================
$EXTRAN
A1 'WOLF BRANCH BASIN - MISCELLANEOUS COASTAL STREAMS  7/25/00 FINAL'
A1 'EXISTING CONDITIONS 2.33 YEAR, 24 HOUR EVENT '
************************************************************************
** 7/10/00  Editted roadway overflow elevation for 825420 from 12.5 to 12.8 *
**       Added interbasin overland connection from 825430 to 825630      *
** 7/20/00  Added floodplain definition (From Type 6 to Type 8) for channels*
**       9823170, 9823290, 9823490, 9826640, 9826665           *
** 7/25/00  Edited 9825600 to 6825600 to model earthen berm obstruction     *
**    Dropped 825640 and made 825615 linear storage for better model  *
************************************************************************
*         ISOL     KSUPER   LOSSES
B0          2        0       1
*          JELEV    JDOWN
BB           1        0
*====================*
*====================*                        1 hour    5 min
*       NTCYC    DELT     TZERO   NSTART    INTER     JNTER    JREDO  IDATZ(opt)
B1      57600    2.0       0.0      1       1800      150      0
*     32 HOUR SIMULATION
*       METRIC   NEQUAL   AMEN    ITMAX    SURTOL
B2         0        0     10.0      120    0.0015
*      H-prnt  Q-prnt H-plot Q-plot   NJSW
B3       0      0      142      223     0     0    0
B6          82100   82200   82300   82400   82510   82615   82620   82645   82900   82900
            82930   82940  821000  821100  821190  821200  821290  821300  821390  821400
           821490  821500  822000  822050  822100  822110  822190  822150  822200  822250
           822290  822300  822350  822390  822400  822410  822420  822490  822500  823000
           823100  823170  823180  823190  823200  823290  823300  823380  823390  823400
           823490  824000  824080  824085  824100  824110  824120  824130  824140  824200
           824300  824400  824490  824500  824590  824600  824650  825100  825200  825220
           825230  825300  825390  825400  825410  825420  825430  825500  825600  825610
           825615  825620  825630  825630  825650  825653  825655  825700  825800  825900
           826150  826190  826200  826245  826250  826290  826295  826300  826305  826310
           826315  826320  826325  826350  826400  826450  826500  826550  826560  826570
           826600  826640  826650  826665  826685  826700  826750  826780  826790  826800
           826850  826855  826860  826865  826900  826970  826980  826990  829000  829100
           829190  829200  829300  829400  829410  829450  829500  829510  829600  826940
           826950  825429  824112  824111
B7        9821000 9821100 9821190 1821200 9821290 1821300 2821300 3821300 9821390 1821400
          2821400 3821400 9821490 1821500 2821500 9822000 1822050 2822050 1822100 2822100
          3822100 9822150 9822190 1822200 9822110 1822250 9822290 1822300 2822300 3822300
          9822350 9822390 1822400 2822400 9822410 1822420 2822420 9822490 1822500 2822500
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         9823000 1823100 9823170 1823180 1823190 2823190 3823190 1823200 2823200 9823290
         1823300 9823380 9823390 1823400 9823490 9824000 1824080 2824080 9824085 1824100
         9824120 9824140 1824400 9824130 1824300 9824110 1824200 1824490 2824490 9824500
         9824590 1824600 9824650 9825100 1825200 9825610 9825610 1825650 9825650 9825653
         1825655 9825615 9825616 1825700 1825700 9825620 1825630 2825630 1825800 2825800
         9825900 9825220 9825410 1825420 9825430 1825500 9825230 1825230 1825300 9825390
         1825400 9826150 9826190 9826200 9826245 1826250 9826290 1826295 1826400 2826400
         1826300 9826305 1826310 9826315 1826320 9826325 1826350 9826450 9826500 1826550
         9826560 1826570 2826570 3826570 9826600 9826640 1826650 2826650 3826650 9826665
         9826685 1826700 1826750 2826750 9826790 1826800 2826800 9826780 1826850 2826850
         9826855 1826860 9826865 1826900 2826900 9826970 9826980 1826990 9829000 9829100
         9829190 1829200 2829200 9829400 9829410 1829450 9829500 9829300 9829501 9829510
         1829600 7821200 7821300 7821400 7821500 7822050 7822100 7822200 7822250 7822300
         7822400 7822420 7822500 7823100 7823180 7823190 7823200 7823300 7823400 7824080
         7824100 7824200 7824300 7824400 7824490 7824600 7825200 7825300 7825400 7825420
         7825500 7825630 7825655 7825700 7825800 7826250 7826295 7826300 7826310 7826320
         7826350 7826400 7826500 7826550 7826570 7826650 7826700 7826750 7826800 7826850
         7826860 7826900 7826990 7826990 7829100 7829200 7829600 1826950 2826950 9826940
         6825430 9825429 6825600 1824112 2824112
*================================
** Conduit Data
*================================
*  NCOND   NJUNC(1)NJUNC(2)  QO    NKLASS AFULL     DEEP    WIDE    LEN    ZP(1)   ZP(2)  ROUGH   STHETA  SPHI      KENT  KEXIT KMIN  STRE *NOTES
************************
*****  DUG CREEK  *******                                                                                                              *
************************
C1  9821000  821000   82100   0      6       0.000   5   100         500   -2.00   -2.00   0.02    7.0         7.0      0     0     0  1  * BOUNDARY
C1  9821100  821100  821000   0      8       0.000   0   0           144   -1.10   -2.00   0.035 9821100     0.00635    0     0     0  1  * S#W-1
C1  9821190  821190  821100   0      8       0.000   0   0          1615   -4.50   -1.10   0.035 9821190 0.002205263    0     0     0  1  * S#W-1 COPY
** US 41
C1  1821200  821200  821190   0      2      80.000   8   10          135   -4.50   -4.50   0.015       0           0    0.1     1     0  1  * FDOT
C1  9821290  821290  821200   0      8       0.000   0   0          1890    0.87   -4.50   0.035 9821290  0.00294127    0     0     0  1  * S#W-2
** CSX R.R.
C1  1821300  821300  821290   0      1      15.904  4.5  4.5         120    0.87    0.87   0.015       0           0    0.1     1     0  1  * FDOT
C1  2821300  821300  821290   0      1      15.904  4.5  4.5         120    0.87    0.87   0.015       0           0    0.1     1     0  1  * FDOT
C1  3821300  821300  821290   0      1      15.904  4.5  4.5         120    0.87    0.87   0.015       0           0    0.1     1     0  1  * FDOT
C1  9821390  821390  821300   0      6       0.000   11  15          2790    8.00    0.87   0.035    3.33        3.33    0     0     0  1  * E,F
** NORTH ST.
C1  1821400  821400  821390   0      3      16.116  3.6  5.7          80    9.00    8.00   0.015       0           0    0.1     1     0  4  * E,F
C1  2821400  821400  821390   0      3      16.116  3.6  5.7          80    9.00    8.00   0.015       0           0    0.1     1     0  4  * E,F
C1  3821400  821400  821390   0      3      16.116  3.6  5.7          80    9.00    8.00   0.015       0           0    0.1     1     0  4  * E,F
C1  9821490  821490  821400   0      6       0.000   8   15          4690   19.00    9.00   0.035   2.083       2.083    0     0     0  1  * E,F
** MESSLER RD.
C1  1821500  821500  821490   0      1       3.142   2   2            80   21.50   20.00   0.026       0           0    0.5     1     0  4  * E,F
C1  2821500  821500  821490   0      1       7.069   3   3            80   20.50   19.00   0.015       0           0    0.1     1     0  4  * E,F
********************************
*****  KITCHEN BRANCH  *********
********************************
C1  9822000  822000   82200   0      6       0.000   5   300         500   -2.10   -2.50   0.02        3           3    0     0     0  1  * BOUNDARY
** US 41
C1  1822100  822100  822000   0      2      50.000   5   10          113   -2.00   -2.00   0.015       0           0    0.1     1     0  1  * FDOT
C1  2822100  822100  822000   0      2      45.000   5   9           150   -2.10   -2.10   0.015       0           0    0.1     1     0  1  * FDOT
C1  3822100  822100  822000   0      2      45.000   5   9           150   -2.10   -2.10   0.015       0           0    0.1     1     0  1  * FDOT
**********************
*** KRACKER AVE TRIB **
**********************
C1  9822150  822150  822100   0      6       0.000   8   4           965   -2.00   -2.00   0.035       6           6    0     0     0  1  * EM
C1  9822190  822190  822150   0      6       0.000   8   4           890   -2.00   -2.00   0.035       6           6    0     0     0  1  * E,F&M
** CORNER OF KRACKER AND PHILLIPS
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C1  1822200  822200  822190   0      1      15.904  4.5   4.5          80   -1.00   -2.00   0.015       0           0   0.1     1     0  4  * E,F
*******************************
*****  KITCHEN BRANCH CONT'D) **
*******************************
C1  9822110  822110  822100   0      8       0.000  0     0           785   -1.10   -2.00   0.035 9822110 0.001246497     0     0     0  1  * E,F &M
** PHILLIPS LANE
C1  1822250  822250  822110   0      2     142.500  4.75  30           80   -1.10   -1.10   0.015       0           0   0.1     1     0  4  * E,F , S#W-3
C1  9822290  822290  822250   0      8       0.000  0     0         1460   -0.65   -1.10   0.035 9822290 0.000408219     0     0     0  1  * S#W-3
** CSX R.R.
C1  1822300  822300  822290   0      1      12.566  4     4          105   -0.65   -0.65   0.015       0           0   0.1     1     0  1  * FDOT
C1  2822300  822300  822290   0      1      12.566  4     4          105   -0.65   -0.65   0.015       0           0   0.1     1     0  1  * FDOT
C1  3822300  822300  822290   0      1      12.566  4     4          105   -0.65   -0.65   0.015       0           0   0.1     1     0  1  * FDOT
C1  9822350  822350  822290   0      6       0.000  8     20        1870    0.00   -0.65   0.035       4           4     0     0     0  1  * EM (DBL DITCH)
C1  9822390  822390  822350   0      6       0.000  8     20        2265    1.00    0.00   0.035       4           4     0     0     0  1  * EM (DBL DITCH)
**  SIDE DITCH CROSSINGS OF CSX R.R. 4300 FEET SOUTH OF MAIN CSX-KITCHEN CROSSING
C1  1822400  822400  822390   0      1      12.566  4     4          100    1.50    1.00   0.015       0           0   0.1     1     0  1  * E,F
C1  2822400  822400  822390   0      1      12.566  4     4          100    1.50    1.00   0.015       0           0   0.1     1     0  1  * E,F
C1  9822410  822410  822400   0      6       0.000  12    20        1240    2.80    1.50   0.035     2.2         2.2     0     0     0  1  * E,F (DBL DITCH)
** SIDE DITCH CROSSINGS OF CSX R.R. 1.05 MILES SOUTH OF MAIN CSX-KITCHEN CROSSING
C1  1822420  822420  822410   0      1       3.142  2     2           65    3.00    2.80   0.015       0           0   0.1     1     0  4  * FDOT
C1  2822420  822420  822410   0      3      11.310  3     4.8         65    3.00    2.80   0.026       0           0   0.5     1     0  4  * FDOT
C1  9822490  822490  822420   0      6       0.000  12    20        4100    4.00    3.00   0.035     2.2         2.2     0     0     0  1  * E,F, S#W-8
** CR 672/BIG BEND ROAD @ CSX RR
C1  1822500  822500  822490   0      3      12.566  3.2   5          115    5.00    4.00   0.015       0           0   0.1     1     0  1  * E,F, S#W-8
C1  2822500  822500  822490   0      1       4.909  2.5   2.5        115    5.00    4.00   0.015       0           0   0.1     1     0  1  * E,F, S#W-8
*****************************
*** KRACKER AVE OUTFALL******
*****************************
** KRACKER AVE.
C1  1822050  822050  822000   0      1       3.142  2     2           80    0.50   -0.50   0.015       0           0   0.1     1     0  4  * E,F
C1  2822050  822050  822000   0      3       5.027  2     3.2         80    0.50   -0.50   0.015       0           0   0.1     1     0  4  * E,F
***********************************
******  SIMS BRANCH  **************
***********************************
C1  9823000  823000   82300   0      6       0.000  5     300        500   -2.00   -2.50   0.02        3           3     0     0     0  1  * BOUNDARY
** N OF CSX R.R. AT BIG BEND INDUSTRIAL PARK - OUTFALL
C1  1823100  823100  823000   0      1      19.635  5     5          140   -2.00   -2.00   0.015       0           0   0.1     1     0  1  * E,F
*C1  9823170  823170  823100   0      6       0.000  10    6         2515   -0.50   -2.00   0.035    1.75        1.75     0     0     0  1  * E,F
C1  9823170  823170  823100   0      8       0.000  0.0   0.0       2515   -0.50   -2.00   0.035 9823170    0.000596     0     0     0  1  * E,F
** CSX R.R. AT BIG BEND INDUSTRIAL PARK
C1  1823180  823180  823170   0      2      50.000  5     10          80    1.26    1.92   0.015       0           0   0.1     1     0  4  * F, S#W-4
** CSX R.R. AT BIG BEND INDUSTRIAL PARK
C1  1823190  823190  823180   0      1      12.566  4     4           80    0.09    1.17   0.026       0           0   0.5     1     0  4  * F, S#W-4
C1  2823190  823190  823180   0      1      12.566  4     4           80    0.09    1.17   0.026       0           0   0.5     1     0  4  * F, S#W-4
C1  3823190  823190  823180   0      1      12.566  4     4           80    0.09    1.17   0.026       0           0   0.5     1     0  4  * F, S#W-4
** CSX R.R. AT BIG BEND INDUSTRIAL PARK
C1  1823200  823200  823190   0      1      12.566  4     4           80    0.22    1.18   0.015       0           0   0.1     1     0  4  * F, S#W-4
C1  2823200  823200  823190   0      1      12.566  4     4           80    0.22    1.18   0.015       0           0   0.1     1     0  4  * F, S#W-4
*C1  9823290  823290  823200   0      6       0.000  10    3         1160    1.40    0.22   0.035   0.875       0.875     0     0     0  1  * E,F
C1  9823290  823290  823200   0      8       0.000  0.0   0.0       1160    1.40    0.22   0.035 9823290    0.001017     0     0     0  1  * E,F
** US 41
C1  1823300  823300  823290   0      2      40.000  4     10         115    3.00    1.40   0.015       0           0   0.1     1     0  2  * FDOT
C1  9823380  823380  823300   0      8       0.000  0     0         1360    3.20    3.00   0.035 9823380 0.000247059     0     0     0  1  * S#W-6 COPY
C1  9823390  823390  823380   0      8       0.000  0     0          900    3.30    3.20   0.035 9823390 0.000211111     0     0     0  1  * S#W-6
** POWELL RD.
C1  1823400  823400  823390   0      4      21.614  4.3   6.4         95    3.60    3.30   0.026       0           0   0.5     1     0  4  * E,F
*C1  9823490  823490  823400   0      6       0.000  7     4         2000    5.00    3.60   0.035       1           1     0     0     0  1  * E,F
C1  9823490  823490  823400   0      8       0.000  0.0   0.0       2000    5.00    3.60   0.035 9823490 0.000700      0     0     0  1  * E,F
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*****  JACKSON BRANCH *************
************************************
C1  9824000  824000   82400   0      6       0.000   5   300          500   -2.54   -2.60   0.02       3          3     0     0     0  1  * BOUNDARY
*********************************
*** BIG BEND INDUSTRIAL DRAINAGE**
*********************************
** WYANDOTTE ROAD
C1  1824080  824080  824000   0      2      56.000   7    8           175   -1.01   -2.54   0.015      0          0     0.1   1     0  1  * S#W-10
C1  2824080  824080  824000   0      2      56.000   7    8           175   -1.01   -2.54   0.015      0          0     0.1   1     0  1  * S#W-10
C1  9824085  824085  824080   0      6       0.000   7   20          2125    0.30   -1.01   0.035   1.25       1.25     0     0     0  1  * E,F
** TECO GRAVEL RD - WETLAND OUTFALL
C1  1824100  824100  824085   0      1      23.758 5.5  5.5           100    0.30    0.30   0.026      0          0     0.5   1     0  1  * E, F, S#W-9
C1  9824110  824110  824100   0      6       0.000   7   10          1800    3.40    1.00   0.035      1          1     0     0     0  1  * EM
** US 41 - 3150 FEET NORTH OF 672
C1  1824200  824200  824110   0      1       7.069   3   3            122    3.60    3.40   0.015      0          0     0.1   1     0  1  * FDOT
***********************
*** TRIB 1 TO WETLAND *
***********************
C1  9824111  824111  824100   0      6       0.000   7   10          2350    1.25    1.00   0.035      1          1     0     0     0  1  * EM
** TECO GYPSUM STORAGE - ACCESS ROAD CULVERTS
C1  1824112  824112  824111   0      1       0.000 3.5  3.5           50    1.40    1.25   0.012      0          0     0.1   1     0  1  * RPM
C1  2824112  824112  824111   0      1       0.000 3.5  3.5           50    1.40    1.25   0.012      0          0     0.1   1     0  1  * RPM
C1  9824120  824120  824112   0      6       0.000   7   10          290    1.50    1.40   0.035      1          1     0     0     0  1  * RPM
C1  9824130  824130  824120   0      6       0.000   7   10          1490   3.70    1.50   0.035      1          1     0     0     0  1  * EM
** US 41 - 1530 FEET NORTH OF CR 672
C1  1824300  824300  824130   0      1       7.069   3   3            66    3.90    3.70   0.015      0          0     0.1   1     0  4  * FDOT
***********************
*** TRIB 2 TO WETLAND *
***********************
C1  9824140  824140  824120   0      6       0.000   7   10          2615    5.00    1.50   0.035      1          1     0     0     0  1  * EM
** US 41 - 470 FEET NORTH OF CR 672
C1  1824400  824400  824140   0      1       7.069   3   3            138    5.20    5.00   0.015      0          0     0.1   1     0  1  * FDOT
*****************************
***** JACKSON BRANCH MAIN ****
*****************************
** BIG BEND/CR 672 OUTFALL @ BEACH RD.
C1  1824490  824490  824000   0      1       4.909 2.5  2.5          100    1.15    1.59   0.015      0          0     0.1   1     0  1  * S#W-11
C1  2824490  824490  824000   0      1       4.909 2.5  2.5          100    1.15    1.59   0.015      0          0     0.1   1     0  1  * S#W-11
C1  9824500  824500  824490   0      6       0.000   5   4          2550    2.00    1.15   0.035      2          2     0     0     0  1  * E,F,S#W-11
C1  9824590  824590  824500   0      6       0.000   5   4          2780    3.00    2.00   0.035      2          2     0     0     0  1  * E,F
** US 41 - 910 FEET SOUTH OF CR 672
C1  1824600  824600  824590   0      2      40.000   4   10          110    3.50    3.00   0.015      0          0     0.1   1     0  1  * E,F
C1  9824650  824650  824600   0      6       0.000   7   15          2250   5.00    3.50   0.035      1          1     0     0     0  1  * EM
**************************************
*****  NEWMAN BRANCH MAIN  ***********
**************************************
C1  9825100  825100   82510   0      6       0.000  12  200          500   -4.00   -4.00   0.02       5          5     0     0     0  1  * BOUNDARY
** DICKMAN DR.
C1  1825200  825200  825100   0      2     480.000  12   40          125   -4.00   -4.00   0.015      0          0     0.1   1     0  1  * E,F BRIDGE
*C1  9825600  825600  825200   0      8       0.000   0    0         1000   -4.00   -4.00   0.035 9825600     0.0001     0     0     0  1  * S#W-13 COPY
C1  9825610  825610  825600   0      8       0.000   0    0         2550   -3.60   -4.00   0.035 9825610 0.000256863     0     0     0  1  * S#W-13
****************************************
*****  NEWMAN BRANCH SOUTHERN OUTFALL ***
****************************************
** DICKMAN DRIVE
C1  1825650  825650  826190   0      8       0.000   0    0          475   -4.00   -4.00   0.015 1825650      0.0001     0     0     0  1  * S#W-16 BR:
LowCh=9.29, Rd=11.55
C1  9825650  825650  825600   0      8       0.000   0    0          825   -4.00   -4.00   0.035 9825650      0.0001     0     0     0  1  * S#W-13 COPY
C1  9825653  825653  825650   0      8       0.000   0    0         2050   -1.05   -4.00   0.035 9825653 0.001539024     0     0     0  1  * S#W-13 COPY
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** PIERRES WAY
C1  1825655  825655  825653   0      3       5.498   2    3.5          50   -1.29   -1.05   0.026       0           0   0.5     1     0  4  * S#W-14
C1  9825615  825615  825655   0      8       0.000   0    0           650   -1.00   -1.29   0.035 9825615 0.000546154   0     0     0  1  * S#W-13 COPY
C1  9825616  825615  825610   0      8       0.000   0    0           235   -3.00   -3.60   0.035 9825616 0.002653191   0     0     0  1  * S#W-13 COPY
** changed 825615 to storage 700 ft x 70 ft 7/25/00
** ELLSBERRY RD.
C1  1825700  825700  825615   0      1       3.142   2    2           150    3.00    1.50   0.026       0           0   0.5     1     0  1  * E,F
*************************************
*****  NEWMAN BRANCH MAIN (CONT'D)****
*************************************
C1  9825620  825620  825615   0      6       0.000   12   25         1580    1.20   -3.00   0.035   0.313       0.313   0     0     0  1  * E,F
** US 41
C1  1825630  825630  825620   0      2      96.000   8    12          121    1.20    1.20   0.015       0           0   0.1     1     0  1  * FDOT
C1  2825630  825630  825620   0      2      96.000   8    12          121    1.20    1.20   0.015       0           0   0.1     1     0  1  * FDOT
** CSX R.R.
C1  1825800  825800  825630   0      2      96.000   6    16           80    3.63    3.58   0.015       0           0   0.1     1     0  4  * FDOT
C1  2825800  825800  825630   0      2      96.000   6    16           80    3.63    3.58   0.015       0           0   0.1     1     0  4  * FDOT
C1  9825900  825900  825800   0      6       0.000   12   15          680    4.00    3.63   0.035       3           3   0     0     0  1  * EM
*************************************
*****  NEWMAN BRANCH TECO DITCH OUTFALL**
*************************************
** TECO SOUTH DITCH TO DICKMAN ROAD
C1  9825220  825220  825200   0      6       0.000   10   30         5910    4.00   -4.00   0.035       5           5   0     0     0  1  * E,F
C1  9825410  825410  825220   0      6       0.000   10   25          810    6.10    4.00   0.035      10          10   0     0     0  1  * EM
** US 41
C1  1825420  825420  825410   0      1       7.069   3    3           129    6.30    6.10   0.015       0           0   0.1     1     0  1  * FDOT
C1  9825430  825430  825420   0      6       0.000   10   10         1170    6.50    6.30   0.035       1           1   0     0     0  1  * EM
*****************
***** EXISTING INTERBASIN CONNECTION
C1  9825429  825429  825630   0      6       0.000   10   10         1700     8.0    3.50   0.035       2           2   0     0     0  1  * EM
** CSX R.R. UNDER POWER LINES
C1  1825500  825500  825430   0      1       4.909   2.5  2.5         125    9.41    8.82   0.015       0           0   0.1     1     0  1  * FDOT
** TECO NORTH DITCH TO DICKMAN ROAD
C1  9825230  825230  825200   0      6       0.000   16   20         5900    4.00   -4.00   0.035       4           4   0     0     0  1  * E,F
C1  1825230  825230  825220   0      1      15.904   4.5  4.5          85    4.00    4.00   0.026       0           0   0.5     1     0  4  * E,F
** US 41
C1  1825300  825300  825230   0      2      40.000   5    8           110    4.00    4.00   0.015       0           0   0.1     1     0  1  * FDOT
C1  9825390  825390  825300   0      6       0.000   16   20          845    4.00    4.00   0.035       4           4   0     0     0  1  * E,F
** CSX R.R.
C1  1825400  825400  825390   0      1       7.069   3    3           135    5.50    4.00   0.015       0           0   0.1     1     0  1  * E,F
*********************************************
**********  APOLLO BEACH **********************
*********************************************
C1  9826150  826150   82615   0      6       0.000   7    200         500   -4.00   -4.00   0.025       3           3   0     0     0  1  * BOUNDARY
C1  9826190  826190  826150   0      8       0.000   0    0          1450   -4.00   -4.00   0.035 9826190      0.0001   0     0     0  1  * S#W-17 copy
C1  9826200  826200   82620   0      6       0.000   7    200         500   -3.50   -3.50   0.025       3           3   0     0     0  1  * BOUNDARY
C1  9826245  826245  826200   0      8       0.000   0    0          7150   -3.20   -3.50   0.035 9826245 0.000141958   0     0     0  1  * S#W-17 copy
** FAIRWAY BLVD.
C1  1826250  826250  826245   0      2     216.000   12   18           60   -3.17   -3.20   0.015       0           0   0.1     1     0  4  * F ,  S#W-17
C1  9826290  826290  826250   0      8       0.000   0    0          5140    0.00   -3.17   0.035 9826290 0.000716732   0     0     0  1  * S#W-17 copy
** US 41
C1  1826295  826295  826290   0      1      15.904   4.5  4.5         180    6.00    3.00   0.026       0           0   0.5     1     0  1  * E,F
** CSX R.R.
C1  1826400  826400  826295   0      1       4.909   2.5  2.5         120    8.38    7.59   0.015       0           0   0.1     1     0  1  * FDOT
C1  2826400  826400  826295   0      1       9.621   3.5  3.5         120    8.14    7.68   0.015       0           0   0.1     1     0  1  * FDOT
***************
*** TRIB 1 ****
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** US 41 DRIVEWAY CULVERT
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C1  1826300  826300  826290   0      1      38.485   7    7          80    1.00    0.00   0.026       0          0   0.5     1     0  4  * E,F
C1  9826305  826305  826300   0      6       0.000   10   6         485    1.40    1.00   0.035   1.183      1.183    0     0     0  1  * E,F
** US 41 DRIVEWAY CULVERT
C1  1826310  826310  826305   0      1      28.274   6    6         120    1.50    1.40   0.015       0          0   0.1     1     0  1  * E,F
C1  9826315  826315  826310   0      6       0.000   10   6         595    2.00    1.50   0.035       2          2    0     0     0  1  * E,F
** US 41 DRIVEWAY CULVERT
C1  1826320  826320  826315   0      1      19.635   5    5         340    2.50    2.20   0.015       0          0   0.1     1     0  1  * E,F
C1  9826325  826325  826320   0      6       0.000   10   6         260    6.00    2.50   0.035       2          2    0     0     0  1  * E,F
** CSX R.R. & US 41
C1  1826350  826350  826325   0      1       7.069   3    3         300    8.12    6.88   0.015       0          0   0.1     1     0  1  * FDOT
*********************************************
**********  WILDCAT CREEK *********************
*********************************************
C1  9826450  826450   82645   0      6       0.000   6.5  200       500   -3.50   -3.50   0.025       3          3    0     0     0  1  * BOUNDARY
C1  9826500  826500  826450   0      8       0.000   0    0        2950   -3.50   -3.50   0.035 9826500     0.0001    0     0     0  1  * S#W-17 copy
** GOLF COURSE PATH
C1  1826550  826550  826500   0      6       0.000   10   20        195   -2.00   -3.50   0.035       6          6    0     0     0  1  * EM-Golf Cart
path not modeled
C1  9826560  826560  826500   0      8       0.000   0    0        4950   -2.53   -3.50   0.035 9826560  0.00029596    0     0     0  1  * S#W-17 COPY
** GOLF & SEA BLVD. @ MILLER MAC RD.
C1  1826570  826570  826560   0      1      28.274   6    6         100   -2.02   -2.53   0.015       0          0   0.1     1     0  1  * F, S#W-18
C1  2826570  826570  826560   0      1      28.274   6    6         100   -2.62   -1.99   0.015       0          0   0.1     1     0  1  * F, S#W-18
C1  3826570  826570  826560   0      1      28.274   6    6         100   -2.55   -2.07   0.015       0          0   0.1     1     0  1  * F, S#W-18
C1  9826600  826600  826570   0      6       0.000   9    20       1210   -1.00   -2.62   0.035   0.833      0.833    0     0     0  1  * E,F
*C1  9826640  826640  826600   0      6       0.000   8    20       4055    2.20   -1.00   0.035       1          1    0     0     0  1  * E,F
C1  9826640  826640  826600   0      8       0.000   0.0  0.0      4055    2.20   -1.00   0.035 9826640  0.000789    0     0     0  1  * E,F
** US 41
C1  1826650  826650  826640   0      2      96.000   8    12        116    2.20    2.20   0.015       0          0   0.1     1     0  1  * FDOT
C1  2826650  826650  826640   0      2      96.000   8    12        116    2.20    2.20   0.015       0          0   0.1     1     0  1  * FDOT
C1  3826650  826650  826640   0      2      96.000   8    12        116    2.20    2.20   0.015       0          0   0.1     1     0  1  * FDOT
*C1  9826665  826665  826650   0      6       0.000   10   12        715    2.64    2.20   0.035     1.5        1.5    0     0     0  1  * E,F
C1  9826665  826665  826650   0      8       0.000   0.0  0.0       715    2.64    2.20   0.035 9826665  0.000615    0     0     0  1  * E,F
***************
*** TRIB 1 *****
***************
C1  9826685  826685  826665   0      6       0.000   8    4         650    8.98    4.00   0.035     4.5        4.5    0     0     0  1  * EM
** CSX R.R AT RUSKIN VEGETABLE CORP.
C1  1826700  826700  826685   0      1       4.909   2.5  2.5       380    9.28    8.98   0.015       0          0   0.1     1     0  1  * FDOT
*********************************************
**********  WILDCAT CREEK (CONT'D)*************
*********************************************
** CSX R.R
C1  1826750  826750  826665   0      2     128.000   8    16         85    2.64    2.64   0.015       0          0   0.1     1     0  4  * FDOT
C1  2826750  826750  826665   0      2     128.000   8    16         85    2.64    2.64   0.015       0          0   0.1     1     0  4  * FDOT
C1  9826780  826780  826750   0      6       0.000   10   12        1460    8.03    2.64   0.035     1.5        1.5    0     0     0  1  * E,F
** SAND FIELD DRIVE
C1  1826850  826850  826780   0      1      12.566   4    4         100    8.27    8.68   0.026       0          0   0.5     1     0  1  * F, S#W-19
C1  2826850  826850  826780   0      1      12.566   4    4         100    8.31    8.03   0.026       0          0   0.5     1     0  1  * F, S#W-19
C1  9826855  826855  826850   0      6       0.000   10   8        2120   17.50    8.27   0.035   1.375      1.375    0     0     0  1  * E,F
** UNNAMED DIRT ROAD (SECTION 27)
C1  1826860  826860  826855   0      4      15.268   3.6  5.4       100   18.00   17.50   0.026       0          0   0.5     1     0  1  * E,F
C1  9826865  826865  826860   0      6       0.000   10   6        2080   29.00   18.00   0.035     0.9        0.9    0     0     0  1  * E,F
** TECO POWER LINE ACCESS ROAD
C1  1826900  826900  826865   0      1      12.566   4    4          60   29.50   29.00   0.026       0          0   0.5     1     0  4  * E,F
C1  2826900  826900  826865   0      1      12.566   4    4          60   29.50   29.00   0.026       0          0   0.5     1     0  4  * E,F
C1  9826940  826940  826900   0      6       0.000   15   6        1900   41.00   29.50   0.035      10         10    0     0     0  1  * EM
** I-75
C1  1826950  826950  826940   0      2      24.000   4    6         304   41.10   41.00   0.015       0          0   0.1     1     0  1  * FDOT
C1  2826950  826950  826940   0      2      24.000   4    6         304   41.10   41.00   0.015       0          0   0.1     1     0  1  * FDOT
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***************
*** TRIB 2 *****
***************
C1  9826790  826790  826750   0      6       0.000   10   5          4810   27.50   2.64   0.035    3.2        3.2     0     0     0  1  * EM
** TECO POWER LINES ACCESS ROAD
C1  1826800  826800  826790   0      1      12.566   4    4           140   28.00   27.50  0.026    0          0       0.5   1     0  1  * assumed same as
1826900/2826900
C1  2826800  826800  826790   0      1      12.566   4    4           140   28.00   27.50  0.026    0          0       0.5   1     0  1  * assumed same as
1826900/2826900
***************
*** TRIB 3 *****
***************
C1  9826970  826970  826850   0      6       0.000   10   8          1170    8.50   8.27   0.035    1.375      1.375   0     0     0  1  * E,F
C1  9826980  826980  826970   0      6       0.000   10   6          1525   10.00   8.50   0.035    0.75       0.75    0     0     0  1  * E,F
** UNNAMED DIRT ROAD
C1  1826990  826990  826980   0      1      15.904   4.5  4.5          85   10.50   10.00  0.026    0          0       0.5   1     0  4  * E,F
**************************************************
***** MISCELLANEOUS SOUTHERN COASTAL BASINS *********
**************************************************
C1  9829000  829000   82900   0      6       0.000   4    200         500   -1.00   -1.00  0.025    3          3       0     0     0  1  * BOUNDARY
C1  9829100  829100  829000   0      8       0.000   0    0           450    1.70   -1.00  0.035 9829100   0.0061  0     0     0  1  * S#W-43
C1  9829190  829190  829000   0      8       0.000   0    0          1600   -1.00   -1.00  0.035 9829190   0.0001  0     0     0  1  * S#W-40 COPY
** 19TH AVE. NW & 14TH ST. NW
C1  1829200  829200  829190   0      3       7.163   2.4  3.8         100    0.00   -1.00  0.015    0          0       0.1   1     0  1  * E,F
C1  2829200  829200  829190   0      1       3.142   2    2           100    0.00   -1.00  0.015    0          0       0.1   1     0  1  * E,F
C1  9829400  829400   82940   0      6       0.000   7    100         500   -4.00   -4.00  0.02     7.00       7.00    0     0     0  1  * BOUNDARY
C1  9829410  829410  829400   0      6       0.000   10   30         1100   -3.90   -4.00  0.025    3.75       3.75    0     0     0  1  * F, S#W-41 COPY
** 32ND ST NW & SEAGRAPE DR.
C1  1829450  829450  829410   0      2     253.000   11   23           50   -3.81   -3.90  0.015    0          0       0.1   1     0  4  * S#W-41 BR:
LowCH=6.92, Rd=9.44
C1  9829500  829500  829450   0      8       0.000   0    0          1350   -3.50   -3.81  0.035 9829500   0.00032963  0     0     0  1  * F, S#W-41
C1  9829300  829300   82930   0      6       0.000   4    200         500   -1.50   -1.50  0.025    3          3       0     0     0  1  * BOUNDARY
C1  9829501  829500  829300   0      8       0.000   0    0          1400   -1.10   -1.50  0.035 9829501   0.000385714 0     0     0  1  * S#W-40 copy
C1  9829510  829510  829500   0      6       0.000   10   20         1750   -1.00   -1.10  0.035    2          2       0     0     0  1  * EM
** SHELL POINT ROAD @ CEDAR DRIVE
C1  1829600  829600  829510   0      1       4.909   2.5  2.5          65   -0.50   -1.00  0.015    0          0       0.1   1     0  4  * E,F
*=====================================
*  IRREGULAR CHANNEL CROSS-SECTIONS
*=====================================
**NC    XNL     XNR     XNCH
**X1    SECNO   NUMSTA  STCHL   STCHR   XLOBL   XLOBR   LEN     PXSECR  PSXECE
**GR    EL1     STA1    EL2     STA2    EL3     STA3    EL4     STA4    EL5     STA5
***
* DUG CREEK
***           SURVEY W-1  F.P. ADDED (SWFWMD MAPS)
NC          0.10    0.10    0.025
X1    9821100     11      0      82       0       0    144     0       0
GR     5.8  -200      5       0     4.7      11     1.6      20     0.8      28
GR     -1.1      47       0.4      51     1.9      69       5      74     5.1      82
GR     5.8      1600
***           SURVEY W-1  F.P. ADDED (SWFWMD MAPS)
NC          0.10    0.10    0.03
X1    9821190     11      0      82       0       0   1615     0       0
GR     7.0  -800      5       0     4.7      11     1.6      20     0.8      28
GR     -4.5      47       0.4      51     1.9      69       5      74     5.1      82
GR     6.5     1500
***           SURVEY W-2  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.035
X1    9821290    8         0      49       0       0    1890       0       0
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GR    12.5  -400    10.7       0    10.4      10     0.87     20     1.2      29
GR    6.4   39       7.1      49    12.5      750
****
* KITCHEN BRANCH
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW
NC          0.16    0.16    0.04
X1    9822110     8          0      70     0        0     785        0        0
GR     5.0  -480   3.0  -130   1.0    0    -1.1    20    -1.1    50
GR     1.0   70    3.0    100     5.0   420
***           SURVEY W-3  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.04
X1    9822290     9          0     112        0        0    1460     0        0
GR     10  -500      3.1    0      3.4     33     0.8       41    -0.65     56
GR     1     74      5.5    85     5.1     112     10      820
****
* SIMS BRANCH
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9823170     11         0      21.6   0        0     2515        0        0
GR    7.0   -25.0    6.0   -20     5.0     -10     4.0        0     -0.5     7.8
GR    -0.5    13.8   4.0    21.6   5.0     31.6    5.0      622     6.0     662
GR    7.0     665
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9823290     13         0      10.0   0        0     1160        0        0
GR    8.0   -250     7.0   -220     6.5     -200    6.5      -100    6.0     -10.0
GR    5.5     0.0    1.4    3.5     1.4      6.5    5.5      10.0    6.0     20.0
GR    7.0     90     7.0    160     8.0     170.0
***           SURVEY W-6  COPY  Rt.Bank ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.04
X1    9823380     10         0      81     0        0     1360        0        0
GR    9.0   -1100    8.9      0     8.7     41      4.6       50     3.2       58
GR    3.6      66    8.7     69     8.8     76      8.9       81     9.1    681
***           SURVEY W-6  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.04
X1    9823390     10         0      81     0        0     900    0        0
GR    9.8   -1200    8.9      0     8.7     41      4.6       50     3.3       58
GR    3.6      66    8.7      69    9.9     76      10       81      10.1   1481
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9823490     11         0      10.0   0        0     2000        0        0
GR    12.5   -20     10.5  -15.0    10.0  -10      8.0      0       5.0       3
GR     5.0     7     8.0    10.0     9.0     20.0   10      210     10.5     610
GR    12.5   620
***
* NEWMAN BRANCH
***           SURVEY W-13 COPY  R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
******* obstructed by earthen berm at elev 4.8!!!
*NC          0.16    0.16    0.025
*X1    9825600     8          0     131        0    0      1000     0        0
*GR    7.5  -100    4.19      0    -1.8      1     -4.0       51     1.6      101
*GR    5.0   106     5.1      131        5.2     631
***           SURVEY W-13  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825610     8          0     131        0    0    2550     0        0
GR    7.5  -300    4.19      0    -1.8      1     -3.6       51     1.6      101
GR    5.8   106     5.7      131        5.9     431
***           SURVEY W-16 BRIDGE  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
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X1    1825650     9       0     160       0    0    475     0       0
GR    7.7  -450   7.66       0    6.56      25   -1.24    33.6   -4.0    61
GR    0.84  106   6.66     112    6.76     160        6.8  360
***           SURVEY W-13  COPY  R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825650     8         0     131       0    0     825     0       0
GR    10.0 -500   4.19     0    -1.8     1    -4.0      51     1.6     101
GR    5.8   106    5.7     131       7.0     731
***           SURVEY W-13  COPY (+2.55') F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825653     8         0     131       0    0    2050     0       0
GR    7.0  -450   4.19     0    0.75     1    -1.05     51     4.15    101
GR    5.8   106    5.7     131       7.0     331
***           SURVEY W-13  COPY (+2.55') F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825615     8         0     131       0     0    650     0       0
GR    7.0  -450   4.19     0    0.75     1    -1.00     51     4.15    101
GR    5.8   106    5.7     131       7.0     331
***           SURVEY W-13  COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9825616     8         0     131       0     0     235     0       0
GR    7.5  -300   4.19     0    -1.8     1    -3.0      51     1.6     101
GR    5.8   106    5.7     131       5.9     431
****          SURVEY W-13  COPY (+2' TO 5.1') F.P. ADDED (SWFWMD MAPS)
*NC         0.16    0.16    0.025
*X1    9825640     8         0     131       0     0    310     0       0
*GR    9.4  -300   9.29     0    3.3      1    1.5      51     6.7     101
*GR    7.8   106    7.7     131       8.2     431
***
* APOLLO BEACH/WILDCAT CREEK
***
***           SURVEY W-17  COPY  R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826190     10        0     191       0       0    1450       0       0
GR    6  -450    5.0   -350    4.1       0   -1.07       2   -4.00       83
GR    1.33 164    4.81 166      4.63  191     5.0      300      5.5     350
***           SURVEY W-17  COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826245     8         0     191       0       0    7150       0       0
GR    7.0   -400    4.1       0   -1.07       2   -3.20       83    1.33     164
GR    6.81     166      6.63     191       7.0     400
***           SURVEY W-17  COPY  (+3')R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826290     8         0     191       0       0    5140       0       0
GR    8.0   -100    7.1     0      2.07       2   0.0      83    4.33     164
GR    6.81     166      7.63     191       8.0     300
***           SURVEY W-17  COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826500     8         0     191       0       0    2950       0       0
GR    7.0   -100    4.1       0   -1.07       2   -3.50       83    1.33     164
GR    6.81     166      6.63     191       7.0     300
***           SURVEY W-17  COPY (+0.5')R.B. ADJUSTED & F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.025
X1    9826560     8         0     191       0       0    4950       0       0
GR    7.0   -100    4.6       0   -0.57       2   -2.53       83    1.83     164
GR    6.81     166      6.83     191       7.0     300
***     CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9826640      9      0      30     0       0     4055       0       0
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GR    11    -310    9.5   -300     7.2   0     2.2    5.0     2.2      25
GR    7.2    30     9.0    280    10.0   430    11    450
***      CROSS-SECTION TAKEN FROM SWFWMD MAPPING AND FIELD REVIEW 7/20/00
NC          0.16    0.16    0.04
X1    9826665     12       0      30     0       0     715        0       0
GR    12.0 -510     10.0  -500     9.0   -100    9.0    -20     8.64      0
GR    2.64    9     2.64    21     8.64    30     8.0    80      9.0     130
GR    10.0   230    12     250
***
* COASTAL BASINS
***
***           SURVEY W-43  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.03
X1   9829100     9         0      62       0       0   450       0       0
GR   6.7    -200    3.5       0     3.7      25     2.1      27     1.7      31
GR   2.5    36     2.6       37     3.1      62      6.7    762
***           SURVEY W-40 COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.03
X1  9829190     9         0      80       0       0    1600      0       0
GR    5    -150     1.56     0    1.36      10    0.16      16   -1.00      30
GR    -0.34   44       5.96    55     5.96      80       6    230
***           SURVEY W-41 COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.03
X1  9829500     7         0      75       0       0   1350      0       0
GR      7.59       0    6.45    26.4   -0.41    26.5   -3.50      41   -0.21      57
GR      6.99      64    7.59      75
***           SURVEY W-40 COPY  F.P. ADDED (SWFWMD MAPS)
NC          0.16    0.16    0.03
X1  9829501     9         0      80       0       0    1400      0       0
GR    6    -100     1.56     0    1.36      10    0.16      16   -1.10      30
GR    -0.34   44       5.96    55     5.96      80       5    2000
*==============================
** Junction Data     TW=2
*==============================
*  (INPUT) (opt. 200)      (INPUT)HBC Model
*    JUN    GRELEV    Z      QINST    Y0             TOB   Yo or Rd Top
**  DUG CREEK
D1    82100      5      -2   0      2       *    3.5     BOUNDARY
D1   821000      7      -2   0      2       *    5
D1   821100     15    -1.1   0      2       *    5
D1   821190   17.6    -4.5   0      2       *    7.6
D1   821200   17.7    -4.5   0      2       *    7.7     7.5
D1   821290     20    0.87   0      2       *    10
D1   821300     20    0.87   0      2       *    10      10.6
D1   821390     25       8   0      8       *    15
D1   821400     25       9   0      9       *    15      14.9
D1   821490     36      19   0     19       *    26
D1   821500     37    20.5   0   20.5       *    27      26.2
** KITCHEN BRANCH
D1    82200      5    -2.5   0      2       *    3.5     BOUNDARY
D1   822000      7    -2.1   0      2       *    4
D1   822050     10     0.5   0      2       *    5       4.5
D1   822100     15    -2.1   0      2       *    5       6.5
D1   822110     15    -1.1   0      2       *    5
D1   822150     15      -2   0      2       *    5
D1   822190     15      -2   0      2       *    5
D1   822200     15      -1   0      2       *    5       6.5
D1   822250     16    -1.1   0      2       *    6       6.08
D1   822290     15   -0.65   0      2       *    5
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D1    822300      16    -0.65   0      2       *    6       12
D1    822350      17        0   0      2       *    7
D1    822390      20        1   0      2       *    10
D1    822400      20      1.5   0      2       *    10      12.5
D1    822410      20      2.8   0      2.8     *    10
D1    822420      20        3   0      3       *    10      12.5
D1    822490      20        4   0      4       *    10
D1    822500      20        5   0      5       *    10      15.4
** SIMS BRANCH
D1     82300       5     -2.5   0      2       *    3.5     BOUNDARY
D1    823000       7       -2   0      2       *    6
D1    823100      17       -2   0      2       *    7       6.5
D1    823170      17     -0.5   0      2       *    7
D1    823180      17     1.17   0      2       *    7       6
D1    823190      16     0.09   0      2       *    6       6
D1    823200      16     0.22   0      2       *    6       6
D1    823290      19      1.4   0      2       *    9
D1    823300      19        3   0      3       *    9       9
D1    823380      18      3.2   0      3.2     *    8
D1    823390      20      3.3   0      3.3     *    10
D1    823400      20      3.6   0      3.6     *    10      9.8
D1    823490    20.5        5   0      5       *    10.5
** JACKSON BRANCH
D1     82400       5     -2.6   0      2       *    3.5     BOUNDARY
D1    824000       7    -2.54   0      2       *    7
D1    824080    16.5    -1.01   0      2       *    6.5     6.5
D1    824085      16      0.3   0      2       *    6
D1    824100      16      0.3   0      2       *    6       Yo=3, 5.5
D1    824110    16.5      3.4   0      3.4     *    6.5
D1    824111      16     1.25   0      2       *    6       TECO GYPSUM ACCESS ROAD CULVERT
D1    824112      16      1.4   0      2       *    6       TECO GYPSUM ACCESS ROAD CULVERT
D1    824120      16      1.5   0      2       *    6
D1    824130      18      3.7   0      3.7     *    8
D1    824140      18        5   0      5       *    8
D1    824200      17      3.6   0      3.6     *    7       9.3
D1    824300      18      3.9   0      3.9     *    8       10
D1    824400      21      5.2   0      5.2     *    11      11
D1    824490    17.5     1.15   0      2       *    7.5     7.5
D1    824500      16        2   0      2       *    6
D1    824590      18        3   0      3       *    8
D1    824600      20      3.5   0      3.5     *    10      12.5
D1    824650      20        5   0      5       *    10      Yo=8
** NEWMAN BRANCH
D1    82510        9       -4   0      2       *    BOUNDARY
D1    825100       9       -4   0      2       *    4
D1    825200      15       -4   0      2       *    5       5
D1    825220      20        4   0      4       *    10
D1    825230      20        4   0      4       *    10
D1    825300      22        4   0      4       *    12      12
D1    825390      20        4   0      4       *    10
D1    825400      22      5.5   0      5.5     *    12      15
D1    825410      22      6.1   0      6.1     *    12
D1    825420      22      6.3   0      6.3     *    12      12.8
D1    825429    22.5      8.0   0      8.0     *    12.4
D1    825430    22.5      6.5   0      6.5     *    12.5
D1    825500      23     9.41   0      9.41    *    13      13
D1    825600      11       -4   0      2       *    7
D1    825610      11     -3.6   0      2       *    7
D1    825615      11       -3   0      2       *    7
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D1	825620	15	1.2	0	2	*	9		
D1	825630	23	1.2	0	2	*	13	13.5	
*D1	825640	17	1.5	0	2	*	7		
D1	825650	11	-4	0	2	*	5		
D1	825653	11	-1.05	0	2	*	6		
D1	825655	11	-1.29	0	2	*	6		
D1	825700	19	3	0	3	*	9	9.2	
D1	825800	23	3.63	0	3.63	*	13	13.5	
D1	825900	20	4	0	4	*	10		
** APOLLO BEACH/WILDCAT CREEK									
D1	82615	5	-4	0	2	*	3.5	BOUNDARY	
D1	82620	5	-3.5	0	2	*	3.5	BOUNDARY	
D1	82645	5	-3.5	0	2	*	3.5	BOUNDARY	
D1	826150	9	-4	0	2	*	8		
D1	826190	14.5	-4	0	2	*	4.5		
D1	826200	9	-3.5	0	2	*	6		
D1	826245	16	-3.2	0	2	*	6		
D1	826250	16	-3.17	0	2	*	6	10	
D1	826290	20	0	0	2	*	10		
D1	826295	23	6	0	6	*	13	14	
D1	826300	22	1	0	2	*	12	10	
D1	826305	20	1.4	0	2	*	10		
D1	826310	20	1.5	0	2	*	10	10	
D1	826315	20	2	0	2	*	10		
D1	826320	20	2.5	0	2.5	*	10	10.2	
D1	826325	20	6	0	6	*	10		
D1	826350	21.5	8.12	0	8.12	*	11.5	13	
D1	826400	22	8.14	0	8.14	*	12	14	
D1	826450	9	-3.5	0	2	*	7		
D1	826500	15	-3.5	0	2	*	5	6	
D1	826550	14	-2	0	2	*	4	4	
D1	826560	14	-2.53	0	2	*	4		
D1	826570	16	-2.62	0	2	*	6	5	
D1	826600	15	-1	0	2	*	5		
D1	826640	18	2.2	0	2.2	*	8		
D1	826650	21	2.2	0	2.2	*	11	11	
D1	826665	19	2.64	0	2.64	*	9		
D1	826685	22	8.98	0	8.98	*	12		
D1	826700	25	9.28	0	9.28	*	15	14	
D1	826750	22	2.64	0	2.64	*	12	12	
D1	826780	20	8.03	0	8.03	*	10		
D1	826790	45	27.5	0	27.5	*	35		
D1	826800	44	28	0	28	*	34	34	
D1	826850	24	8.27	0	8.27	*	14	14.7	
D1	826855	34	17.5	0	17.5	*	24		
D1	826860	34	18	0	18	*	24	24	
D1	826865	46	29	0	29	*	36		
D1	826900	46	29.5	0	29.5	*	36	36	
D1	826940	57	41	0	41	*	47		
D1	826950	57	41.1	0	41.1	*	47		
D1	826970	25	8.5	0	8.5	*	15	15	
D1	826980	28	10	0	10	*	18		
D1	826990	28	10.5	0	10.5	*	18	18.5	
** COASTAL BASINS									
D1	82900	5	-1	0	2	*	3.5	BOUNDARY	
D1	82930	5	-1.5	0	2	*	3.5	BOUNDARY	
D1	82940	5	-4	0	2	*	3.5	BOUNDARY	
D1	829000	7	-1	0	2	*	1		
D1	829100	12	1.7	0	2	*	2	2	

```
D1   829190      14      -1   0      2       *    4
D1   829200      15       0   0      2       *    5       5
D1   829300       7    -1.5   0      2       *    5
D1   829400       7      -4   0      2       *    1.5
D1   829410    11.5    -3.9   0      2       *    1.5
D1   829450      14   -3.81   0      2       *    4       BR: LC=6.92, RD=9.44
D1   829500      13    -3.5   0      2       *    3
D1   829510      14      -1   0      2       *    4
D1   829600      15    -0.5   0      2       *    5       5
*====================================
* STORAGE NODES - ROAD OVERTOPPING
* (allows non-overlapping pipe connect.s & weirs)
*====================================
** DUG CREEK
E1 821190  18   5000  0
E1 821200  18   -1    4
E2 0.007   -4.5
    2.0     5.0
    21      7.0
    21     17.0
E1 821290  20   5000    0
E1 821390  25   5000    0
E1 821400  25   -1    3
E2  0.005   9.0
    26.5    14.5
    26.5    24.5
E1 821490  36   5000    0
E1 821500  37   5000    0
** KITCHEN BRANCH
E1 822050  15   5000    0
E1 822000  15   100000  0
E1 822200  15   5000    0
E1 822190  15   5000    0
E1 822250  16   5000    0
E1 822110  15   5000    0
E1 822290  15   5000    0
E1 822400  22   -1   3
E2  0.005   1.5
    17.0    12.0
    17.0    22.0
E1 822390  20   5000    0
E1 822420  22   -1   3
E2  0.005   3.0
    24.0    12.0
    24.0    22.0
E1 822410  20   5000    0
E1 822500  25   -1   3
E2  0.005   5.0
    30.0    14.9
    17.0    24.9
E1 822490  20   5000    0
** SIMS BRANCH
E1 823000  17   5000    0
E1 823100  17   5000    0
E1 823170  17   5000    0
E1 823180  17   -1   3
E2  0.005  1.17
    5.0    5.50
    5.0    15.5
```

```
E1 823190  17   -1   3
E2  0.005  0.09
    2.0    5.50
    2.0    15.5
E1 823200  17   5000    0
** storage accounted for in type 8 floodplain
*E1 823200  17   -1   3
*E2  0.005  0.22
*    5.5    5.50
*    5.5    15.5
E1 823290  20   5000    0
E1 823300  20   -1   3
E2  0.005   3.0
    30     8.50
    30     18.5
E1 823380  20   5000    0
E1 823390  20   5000    0
E1 823400  20   5000    0
** storage accounted for in type 8 floodplain
*E1 823400  20   -1   3
*E2  0.005   3.6
*    3.0     9.3
*    3.0     19.3
E1 823490  20   5000    0
** JACKSON BRANCH
E1 824000  16   5000    0
E1 824085  16   5000    0
E1 824080  16   -1   3
E2  0.005  -1.01
    8.0     5.0
    8.0     15.0
E1 824110  16   5000    0
E1 824130  18   5000    0
E1 824140  18   5000    0
E1 824200  19   -1   3
E2  0.005   3.6
    52.0    8.8
    52.0    18.8
E1 824300  20   -1   3
E2  0.005   3.9
    24.0    9.5
    24.0    19.5
E1 824400  21   5000    0
E1 824490  18   5000    0
E1 824590  18   5000    0
E1 824600  22    -1   3
E2  0.005   3.5
    83.0    12.0
    83.0    22.0
** NEWMAN BRANCH
E1 825100  20   1000000 0
E1 825230  20   5000    0
E1 825300  22    -1   3
E2  0.005   4.0
     3.0    11.5
     3.0    21.5
E1 825390  20   5000    0
E1 825400  25    -1   3
E2  0.005   5.5
```

```
    27.0    14.5
    27.0    24.5
E1 825410  20   5000    0
E1 825420  20   5000    0
E1 825429  20   5000    0
E1 825430  20   5000    0
E1 825500  23    -1   4
E2  0.005   9.41
    3.2     10.0
    18.0    13.0
    18.0    23.0
E1 825620  15   5000    0
E1 825630  23    -1   3
E2  0.005   1.2
    2.0     13.0
    2.0     23.0
E1 825653  11   5000    0
E1 825655  11   5000    0
E1 825615  11   52500   0
E1 825700  20    -1   3
E2  0.005   3.0
    21.0    8.7
    21.0    18.7
E1 825800  23    -1   4
E2  0.005   3.63
    6.5     10.0
    21.0    13.0
    21.0    23.0
** APOLLO BEACH/WILDCAT CREEK
E1 826245  21   5000    0
E1 826250  21   5000    0
E1 826290  22   5000    0
E1 826300  22    -1   3
E2  0.005   1.0
    1.10    9.5
    1.10    19.5
E1 826305  20   5000    0
E1 826310  20   5000    0
E1 826315  20   5000    0
E1 826320  20   5000    0
E1 826325  21.5 5000    0
E1 826350  22.5   -1    3
E2  0.005   8.12
    29.0   12.5
    29.0   22.5
E1 826295  22.0 5000    0
E1 826400  24.0   -1    3
E2  0.005   8.14
    23.0   13.5
    23.0   23.5
E1 826450  15.0 5000    0
E1 826500  16.0   -1    3
E2  0.005   -3.5
    37.0    5.5
    37.0   15.5
E1 826550  14.0   -1    3
E2  0.005   -2.0
    39.0    3.5
    39.0   13.5
```

```
E1 826560  16   5000    0
E1 826570  16     -1    3
E2  0.005   -2.62
    0.21     4.5
    0.21    14.5
E1 826640  21   5000    0
E1 826665  22     -1    4
E2  0.005  2.64
    0.55   7.9
    2.5    8.0
    2.5   18.0
E1 826685  25 5000    0
E1 826700  25   -1    3
E2  0.005  9.28
    20.0   13.5
    20.0   23.5
E1 826650  21.0 5000    0
E1 826750  22.0   -1    3
E2  0.005  2.64
    16.4   11.5
    16.4   21.5
E1 826790  44 5000    0
E1 826800  44   -1    3
E2  0.005  28.0
    0.23   33.5
    0.23   43.5
E1 826780  24   5000    0
E1 826850  24.2   -1    3
E2  0.005  8.27
    5.2    14.2
    5.2    24.2
E1 826855  34   5000    0
E1 826860  34   5000    0
E1 826865  46   5000    0
E1 826900  46   5000    0
E1 826970  25     -1    3
E2  0.005  8.5
    13.7   14.5
    13.7   24.5
E1 826980  28   5000    0
E1 826990  28     -1    3
E2  0.005  10.5
     5.2   18.0
     5.2   28.0
** COASTAL BASINS
E1 829000  12   5000    0
E1 829190  15   5000    0
E1 829200  15     -1    3
E2  0.005  0.0
    33.0    4.5
    33.0   14.5
E1 829510  15   5000    0
E1 829600  15     -1    3
E2  0.005  -0.5
    21.0    4.5
    21.0   14.5
*===========================================
* STORAGE DATA (SIGNIFICANT LAKES/WETLANDS)
*===========================================
```

```
** DUG CREEK
E1 821300 20  -1 4
E2  0.005   0.87
    2.5     5.0
    49.0    10.0
    49.0    20.0
** KITCHEN BRANCH
E1 822100  15   1000000  0
E1 822150  15    313000  0
E1 822300  17    -1   5
E2  0.005   -0.65
    0.5     5.0
    28.0    10.0
    119.0   12.0
    119.0   17.0
** JACKSON BRANCH
E1 824100  17    -1   6
E2  0.005  0.30
    0.005   2.9
    10.5    3.0
    40      5.0
    78      6.0
   100     11.0
E1 824650  20    -1   6
E2  0.005   5.0
    0.005   7.9
    0.75    8.0
    3.0     10.0
    8.8     11.5
    50      16.5
** NEWMAN BRANCH
E1 825200  15    -1   3
E2  0.005   -4.0
    20.0     4.5
    50.0    14.0
** COASTAL BASINS
E1 829100  15  1129250  0
E1 829500  15  3681250  0
*=======================
** Weir Data
*=======================
* ================================
*  FLOOD FLOW OVERTOP ROAD PATHS
* ================================
*        IDWEIR   NJUNC(1) NJUNC(2)  KWEIR   EL.CREST  EL.TOP   WLEN    COEFF
** DUG CREEK
G1      7821200   821200    821190       1      7.50    17.7     100    2.63
G1      7821300   821300    821290       1     10.60      20     100    2.63
G1      7821400   821400    821390       1     14.90      25     100    2.63
G1      7821500   821500    821490       1     26.20      37     100    2.63
** KITCHEN BRANCH
G1      7822050   822050    822000       1      4.50      15     100    2.63
G1      7822100   822100    822000       1      6.50      15     400    2.63
G1      7822200   822200    822190       1      6.50      15     100    2.63
G1      7822250   822250    822110       1      6.08      16     100    2.63
G1      7822300   822300    822290       1     12.00      16     100    2.63
G1      7822400   822400    822390       1     12.50      20     100    2.63
G1      7822420   822420    822410       1     12.50      20     100    2.63
G1      7822500   822500    822490       1     15.40      20     100    2.63
```

```
** SIMS BRANCH
G1      7823100   823100    823000       1      6.50      17     100    2.63
G1      7823180   823180    823170       1      6.00      17     100    2.63
G1      7823190   823190    823180       1      6.00      16     100    2.63
G1      7823200   823200    823190       1      6.00      16     100    2.63
G1      7823300   823300    823290       1      9.00      19     100    2.63
G1      7823400   823400    823390       1      9.80      20     100    2.63
** JACKSON BRANCH
G1      7824080   824080    824000       1      6.50    16.5     100    2.63
G1      7824100   824100    824085       1      5.50      16     100    2.63
G1      7824112   824112    824111       1      6.00      16      50    2.63
G1      7824200   824200    824110       1      9.30      17     100    2.63
G1      7824300   824300    824130       1     10.00      18     100    2.63
G1      7824400   824400    824140       1     11.00      21     100    2.63
G1      7824490   824490    824000       1      7.50    17.5     100    2.63
G1      7824600   824600    824590       1     12.50      20     100    2.63
** NEWMAN BRANCH
G1      7825200   825200    825100       1     10.00      15     100    2.63
G1      7825300   825300    825230       1     12.00      22     100    2.63
G1      7825400   825400    825390       1     15.00      22     100    2.63
G1      7825420   825420    825410       1     12.80      22     100    2.63
********* INTERBASIN TRANSFER TO FDOT DITCH  7/10/00
G1      6825430   825430    825429       1     12.40      22      20    2.63
**********
G1      7825500   825500    825430       1     13.00      23     100    2.63
***** 7/25 MODIFICATION earthen berm obstructs flow
G1      6825600   825600    825200       1      4.80      10     100    2.63
********************
G1      7825630   825630    825620       1     13.50      17     100    2.63
G1      7825655   825655    825653       1      6.80      11     100    2.63
G1      7825700   825700    825615       1      9.20      19     100    2.63
G1      7825800   825800    825630       1     13.50      23     100    2.63
** APOLLO BEACH/WILDCAT CREEK
G1      7826250   826250    826245       1     10.00      16     100    2.63
G1      7826295   826295    826290       1     14.00      23     100    2.63
G1      7826300   826300    826290       1     10.00      22      50    2.63
G1      7826310   826310    826305       1     10.00      20      50    2.63
G1      7826320   826320    826315       1     10.20      20      50    2.63
G1      7826350   826350    826325       1     13.00    21.5     100    2.63
G1      7826400   826400    826295       1     14.00      22     100    2.63
G1      7826500   826500    826450       1      6.00      15     100    2.63
G1      7826550   826550    826500       1      4.00      14     100    2.63
G1      7826570   826570    826560       1      5.00      16     100    2.63
G1      7826650   826650    826640       1     11.00      21     100    2.63
G1      7826700   826700    826685       1     14.00      25     100    2.63
G1      7826750   826750    826665       1     12.00      22     100    2.63
G1      7826800   826800    826790       1     34.00      44     100    2.63
G1      7826850   826850    826780       1     14.70      24     100    2.63
G1      7826860   826860    826855       1     24.00      34     100    2.63
G1      7826900   826900    826865       1     36.00      46     100    2.63
G1      7826990   826990    826980       1     18.50      28     100    2.63
** COASTAL BASINS
G1      7829100   829100    829000       1      2.00      12     100    2.63
G1      7829200   829200    829190       1      5.00      15     100    2.63
G1      7829600   829600    829510       1      5.00      15     100    2.63
********* Outfall Data ************************************************************
* Tidal (CONSTANT)
*
I1    82100  1
```

```
I1     82200  1
I1     82300  1
I1     82400  1
I1     82510  1
I1     82615  1
I1     82620  1
I1     82645  1
I1     82900  1
I1     82930  1
I1     82940  1
J1   2
J2   2.0
$ENDPROGRAM
```

2.WB-25-PropRAI.wpx

```
* ============================================================================
*                        BULLFROG CREEK/WOLF BRANCH
* ============================================================================
*
ID                 WOLF BRANCH 25-YEAR STORM
ID         Dames & Moore for Hillsborough County BOCC--Dept of Stormwater Management
*
*
*   This is a standard HEC-1 file.  RDHEC copies the ID, *, IT, IO, JR,
*       PG, IN, PC, and PR records from this file.  It ignores other records.
*
*FREE
*DIAGRAM
*     ------------------------
*      25-YEAR 24 HOUR STORM
*     ------------------------
*
*   NMIN  DATE      ITIME       NQ  NDDATE    NDTIME
IT    15 26SEP97     0000      250 27SEP97     0000
*
*NOLIST
*   IPRT    IPLT
*   0,1,2          All
*      3           Input Data and Intermediate and Master Summaries
*      4           Input Data and Master Summary
*      5           Job specification and Master Summary Only
*
*            0,1   No Printer Plots--Can be overriden on KO record
*              2   Plot All
*
IO     3       0
*
* ######################################################
JR  PREC     8.0
* ######################################################
*    SCS 24-HR, TYPE II FLORIDA-MODIFIED DISTRIBUTION (30-MIN INCREMENTS)
*    SOURCE: SWFWMD ERP INFORMATION MANUAL TABLE C-1
* GAGE      UDEPTH
PGSCSFLM     1.0
*
*  TSTEP IDATE       ITIME
IN     30 26SEP97        0
PC  .000     .006     .012     .019     .025     .032     .039     .047     .054     .062
PC  .071     .080     .089     .099     .110     .122     .134     .148     .164     .181
PC  .201     .226     .258     .308     .607     .719     .757     .785     .807     .826
PC  .842     .857     .870     .882     .893     .904     .913     .923     .931     .940
PC  .948     .955     .962     .969     .976     .983     .989     .995    1.000    1.000
*
* ============================================================================
*    SCS 24-HR, TYPE II FLORIDA-MODIFIED DISTRIBUTION
PRSCSFLM
* ============================================================================
ZZ
*                                          AMC II
* BASINID NJUNC    TC  ACRE     CN  IACOEFF K KPRINT
WP  821000  821000  105 214.86  95  0.2 256 0
WP  821100  821100  176 72.13   90  0.2 256 0
WP  821200  821200  168 120.9   84  0.2 256 0
WP  821300  821300  170 189.1   81  0.2 256 0
WP  821400  821400  268 352.13  82  0.2 256 0
WP  821500  821500  173 110.84  81  0.2 256 0
WP  822000  822000  127 235.71  82  0.2 256 0
WP  822050  822050  233 97.92   79  0.2 256 0
WP  822100  822100  190 42.06   90  0.2 256 0
WP  822150  822150  338 107.69  80  0.2 256 0
WP  822200  822200  263 77.31   77  0.2 256 0
WP  822250  822250  110 64.71   80  0.2 256 0
WP  822300  822300  349 487    84  0.2 256 0
WP  822350  822350  84  347.15  83  0.2 256 0
WP  822400  822400  238 565.29  84  0.2 256 0
WP  822500  822500  237 386.38  81  0.2 256 0
WP  823000  823000  96  215.07  88  0.2 256 0
WP  823100  823100  377 167.38  84  0.2 256 0
WP  823200  823200  143 26.86   92  0.2 256 0
WP  823300  823300  143 49.07   84  0.2 256 0
WP  823400  823400  163 179.51  81  0.2 256 0
WP  824650  824650  77  8.84    83  0.2 256 0
WP  824000  824000  63  439.81  93  0.2 256 0
WP  824080  824080  265 410.24  86  0.2 256 0
WP  824200  824200  154 58.21   83  0.2 256 0
WP  824300  824300  126 38.92   83  0.2 256 0
WP  824400  824400  131 19.1    82  0.2 256 0
WP  824500  824500  343 88.29   86  0.2 256 0
WP  824600  824600  186 82.87   82  0.2 256 0
```

```
WP  825000  825000   1 221.84  99  0.2 256 0
WP  825050  825050  52  44.19  94  0.2 256 0
WP  825100  825100 227 296.6   92  0.2 256 0
WP  825200  825200 428 475.42  86  0.2 256 0
WP  825300  825300  98  23.17  90  0.2 256 0
WP  825400  825400 189 263.51  81  0.2 256 0
WP  825500  825500 188 152.33  83  0.2 256 0
WP  825600  825600  87  210.83  87  0.2 256 0
WP  825700  825700 143 52.88   88  0.2 256 0
WP  825800  825800 321 252.66  83  0.2 256 0
WP  825900  825900 147 55.42   83  0.2 256 0
WP  826000  826000  51  111.8   76  0.2 256 0
WP  826050  826050  61  100.8   91  0.2 256 0
WP  826100  826100  56  218.02  84  0.2 256 0
WP  826150  826150  63  272.26  94  0.2 256 0
WP  826200  826200  19  370.65  93  0.2 256 0
WP  826250  826250 165 296.12  88  0.2 256 0
WP  826300  826300 155 13.16   91  0.2 256 0
WP  826350  826350  31  60.75   82  0.2 256 0
WP  826400  826400 358 559.84  80  0.2 256 0
WP  826450  826450  16  276.05  89  0.2 256 0
WP  826500  826500  17  89.04   89  0.2 256 0
WP  826550  826550  39  173.15  82  0.2 256 0
WP  826600  826600 195 216.14  87  0.2 256 0
WP  826650  826650 189 37.3    95  0.2 256 0
WP  826700  826700 275 140.75  80  0.2 256 0
WP  826750  826750 253 198.16  82  0.2 256 0
WP  826800  826800 217 157.27  83  0.2 256 0
WP  826850  826850  96  111.13  82  0.2 256 0
WP  826900  826900 180 125.24  86  0.2 256 0
WP  826950  826950 296 361.32  84  0.2 256 0
WP  826970  826970 194 57.1    80  0.2 256 0
WP  826990  826990 282 295.16  83  0.2 256 0
WP  827000  827000  65  306.51  98  0.2 256 0
WP  827100  827100  37  190.21  84  0.2 256 0
WP  827150  827150 187 287.47  84  0.2 256 0
WP  827200  827200 109 101.22  87  0.2 256 0
WP  827250  827250 255 220.92  83  0.2 256 0
WP  827300  827300 312 107.04  85  0.2 256 0
WP  827350  827350 205 115.19  85  0.2 256 0
WP  827400  827400 104 208.79  86  0.2 256 0
WP  827450  827450  78  104.1   86  0.2 256 0
WP  827500  827500 145 309.99  83  0.2 256 0
WP  827550  827550 228 97.17   83  0.2 256 0
WP  827600  827600  79  112.76  83  0.2 256 0
WP  827650  827650 274 165.14  83  0.2 256 0
WP  827700  827700 137 89.33   82  0.2 256 0
WP  827750  827750 179 84.22   82  0.2 256 0
WP  827800  827800 103 138.01  85  0.2 256 0
WP  827850  827850 127 178.05  83  0.2 256 0
WP  827890  827890 116 239.72  87  0.2 256 0
WP  828000  828000  38  255.18  86  0.2 256 0
WP  828050  828050 133 38.83   85  0.2 256 0
WP  828100  828100 171 239.83  87  0.2 256 0
WP  828150  828150 183 169.74  85  0.2 256 0
WP  828200  828200 228 109.78  86  0.2 256 0
WP  828250  828250 133 133.56  81  0.2 256 0
WP  828300  828300 299 260.67  82  0.2 256 0
WP  828350  828350 196 294.38  81  0.2 256 0
WP  828400  828400 230 52.12   86  0.2 256 0
WP  828450  828450  92  39.85   88  0.2 256 0
WP  828500  828500 188 283.47  89  0.2 256 0
WP  828550  828550 132 92.73   84  0.2 256 0
WP  829000  829000  90  806.77  98  0.2 256 0
WP  829100  829100 148 179.34  89  0.2 256 0
WP  829200  829200 191 187.95  89  0.2 256 0
WP  829700  829700 247 100.41  93  0.2 256 0
WP  829400  829400 116 158.83  91  0.2 256 0
WP  829600  829600 178 26.9    81  0.2 256 0
WP  829500  829500 357 476.57  89  0.2 256 0
WP  829300  829300  22  439.75  92  0.2 256 0
WP  829800  829800 157 311.6   94  0.2 256 0
```

3. WB-100-PropRAI.wpx

```
* ===========================================================================
*                        BULLFROG CREEK/WOLF BRANCH
* ===========================================================================
*
ID                 WOLF BRANCH 100-YEAR STORM
ID         Dames & Moore for Hillsborough County BOCC--Dept of Stormwater Management
*
*
*   This is a standard HEC-1 file.  RDHEC copies the ID, *, IT, IO, JR,
*       PG, IN, PC, and PR records from this file.  It ignores other records.
*
*FREE
*DIAGRAM
*     -----------------------
*     100-YEAR 24 HOUR STORM
*     -----------------------
*
*   NMIN  DATE     ITIME      NQ  NDDATE   NDTIME
IT    15 26SEP97    0000     250 27SEP97    0000
*
*NOLIST
*   IPRT    IPLT
*   0,1,2          All
*       3          Input Data and Intermediate and Master Summaries
*       4          Input Data and Master Summary
*       5          Job specification and Master Summary Only
*
*            0,1  No Printer Plots--Can be overriden on KO record
*              2  Plot All
*
IO     3       0
*
* ######################################################
JR  PREC   11.0
* ######################################################
*    SCS 24-HR, TYPE II FLORIDA-MODIFIED DISTRIBUTION (30-MIN INCREMENTS)
*    SOURCE: SWFWMD ERP INFORMATION MANUAL TABLE C-1
* GAGE     UDEPTH
PGSCSFLM    1.0
*
*  TSTEP IDATE      ITIME
IN    30 26SEP97       0
PC  .000    .006    .012    .019    .025    .032    .039    .047    .054    .062
PC  .071    .080    .089    .099    .110    .122    .134    .148    .164    .181
PC  .201    .226    .258    .308    .607    .719    .757    .785    .807    .826
PC  .842    .857    .870    .882    .893    .904    .913    .923    .931    .940
PC  .948    .955    .962    .969    .976    .983    .989    .995   1.000   1.000
*
* ===========================================================================
*    SCS 24-HR, TYPE II FLORIDA-MODIFIED DISTRIBUTION
PRSCSFLM
* ===========================================================================
ZZ
*                                        AMC II
* BASINID NJUNC   TC  ACRE    CN IACOEFF  K KPRINT
WP  821000  821000  93  214.86  95  0.2 256 0
WP  821100  821100  155 72.13   90  0.2 256 0
WP  821200  821200  149 120.9   84  0.2 256 0
WP  821300  821300  150 189.1   81  0.2 256 0
WP  821400  821400  236 352.13  82  0.2 256 0
WP  821500  821500  153 110.84  81  0.2 256 0
WP  822000  822000  112 235.71  82  0.2 256 0
WP  822050  822050  206 97.92   79  0.2 256 0
WP  822100  822100  167 42.06   90  0.2 256 0
WP  822150  822150  298 107.69  80  0.2 256 0
WP  822200  822200  232 77.31   77  0.2 256 0
WP  822250  822250  97  64.71   80  0.2 256 0
WP  822300  822300  308 487    84  0.2 256 0
WP  822350  822350  74  347.15  83  0.2 256 0
WP  822400  822400  220 565.29  84  0.2 256 0
WP  822500  822500  217 386.38  81  0.2 256 0
WP  823000  823000  61  215.07  88  0.2 256 0
WP  823100  823100  340 167.38  84  0.2 256 0
WP  823200  823200  126 26.86   92  0.2 256 0
WP  823300  823300  126 49.07   84  0.2 256 0
WP  823400  823400  143 179.51  81  0.2 256 0
WP  824650  824650  68  8.84    83  0.2 256 0
WP  824000  824000  56  439.81  93  0.2 256 0
WP    824080    824080    234     410.24    86    0.2   256     0
WP  824200  824200  136 58.21   83  0.2 256 0
WP  824300  824300  111 38.92   83  0.2 256 0
WP  824400  824400  116 19.1    82  0.2 256 0
WP  824500  824500  322 88.29   86  0.2 256 0
WP  824600  824600  164 82.87   82  0.2 256 0
```

```
WP  825000  825000  1 221.84  99  0.2 256 0
WP  825050  825050  46  44.19   94  0.2 256 0
WP  825100  825100  200 296.6   92  0.2 256 0
WP  825200  825200  378 475.42  86  0.2 256 0
WP  825300  825300  87  23.17   90  0.2 256 0
WP  825400  825400  167 263.51  81  0.2 256 0
WP  825500  825500  170 152.33  83  0.2 256 0
WP  825600  825600  76  210.83  87  0.2 256 0
WP  825700  825700  126 52.88   88  0.2 256 0
WP  825800  825800  288 252.66  83  0.2 256 0
WP  825900  825900  135 55.42   83  0.2 256 0
WP  826000  826000  45  111.8   76  0.2 256 0
WP  826050  826050  54  100.8   91  0.2 256 0
WP  826100  826100  33  218.02  84  0.2 256 0
WP  826150  826150  35  272.26  94  0.2 256 0
WP  826200  826200  17  370.65  93  0.2 256 0
WP  826250  826250  145 296.12  88  0.2 256 0
WP  826300  826300  154 13.16   91  0.2 256 0
WP  826350  826350  27  60.75   82  0.2 256 0
WP  826400  826400  326 559.84  80  0.2 256 0
WP  826450  826450  14  276.05  89  0.2 256 0
WP  826500  826500  15  89.04   89  0.2 256 0
WP  826550  826550  34  173.15  82  0.2 256 0
WP  826600  826600  188 216.14  87  0.2 256 0
WP  826650  826650  166 37.3    95  0.2 256 0
WP  826700  826700  252 140.75  80  0.2 256 0
WP  826750  826750  223 198.16  82  0.2 256 0
WP  826800  826800  191 157.27  83  0.2 256 0
WP  826850  826850  85  111.13  82  0.2 256 0
WP  826900  826900  159 125.24  86  0.2 256 0
WP  826950  826950  236 361.32  84  0.2 256 0
WP  826970  826970  171 57.1    80  0.2 256 0
WP  826990  826990  261 295.16  83  0.2 256 0
WP  827000  827000  63  306.51  98  0.2 256 0
WP  827100  827100  33  190.21  84  0.2 256 0
WP  827150  827150  165 287.47  84  0.2 256 0
WP  827200  827200  96  101.22  87  0.2 256 0
WP  827250  827250  225 220.92  83  0.2 256 0
WP  827300  827300  289 107.04  85  0.2 256 0
WP  827350  827350  223 115.19  85  0.2 256 0
WP  827400  827400  92  208.79  86  0.2 256 0
WP  827450  827450  69  104.1   86  0.2 256 0
WP  827500  827500  128 309.99  83  0.2 256 0
WP  827550  827550  202 97.17   83  0.2 256 0
WP  827600  827600  70  112.76  83  0.2 256 0
WP  827650  827650  248 165.14  83  0.2 256 0
WP  827700  827700  121 89.33   82  0.2 256 0
WP  827750  827750  158 84.22   82  0.2 256 0
WP  827800  827800  91  138.01  85  0.2 256 0
WP  827850  827850  116 178.05  83  0.2 256 0
WP  827890  827890  102 239.72  87  0.2 256 0
WP  828000  828000  34  255.18  86  0.2 256 0
WP  828050  828050  121 38.83   85  0.2 256 0
WP  828100  828100  161 239.83  87  0.2 256 0
WP  828150  828150  162 169.74  85  0.2 256 0
WP  828200  828200  210 109.78  86  0.2 256 0
WP  828250  828250  117 133.56  81  0.2 256 0
WP  828300  828300  282 260.67  82  0.2 256 0
WP  828350  828350  188 294.38  81  0.2 256 0
WP  828400  828400  203 52.12       86  0.2 256 0
WP  828450  828450  81  39.85       88  0.2 256 0
WP  828500  828500  166 283.47  89  0.2 256 0
WP  828550  828550  116 92.73       84  0.2 256 0
WP  829000  829000  79  806.77  98  0.2 256 0
WP  829100  829100  145 179.34  89  0.2 256 0
WP  829200  829200  168 187.95  89  0.2 256 0
WP    829700      829700      230   100.41      93    0.2   256   0
WP  829400  829400  102 158.83  91  0.2 256 0
WP    829600      829600      177    26.9       81    0.2   256   0
WP    829500      829500      315     476.57    89    0.2   256   0
WP    829300      829300      20      439.75    92    0.2   256   0
WP  829800  829800  74   311.6      94  0.2 256 0
```

4. MC-25-PropRAI.smx

File: J:\Projects\TECO\Gypsum\Drainage Report\Miscellaneous Coastal Streams Proposed\Miscellaneous Coastal Streams Proposed - RAI\25 Year_PropRAI\MC-25_PropRAI.SMX 12/3/2012, 1:02:32 PM

	JUNC_ID	INVT	Z_MAX	T_MAX
ZMAX	82100	-2.00	2.00	0.00
ZMAX	821000	-2.00	2.46	14.88
ZMAX	821100	-1.10	2.55	14.97
ZMAX	821190	-4.50	4.73	18.73
ZMAX	821200	-4.50	5.15	18.72
ZMAX	821290	0.87	5.66	18.93
ZMAX	821300	0.87	6.90	18.83
ZMAX	821390	8.00	10.96	17.28
ZMAX	821400	9.00	11.49	17.22
ZMAX	821490	19.00	20.78	14.97
ZMAX	821500	20.50	25.87	14.50
ZMAX	82200	-2.50	2.00	0.00
ZMAX	822000	-2.10	2.01	16.27
ZMAX	822050	0.50	3.62	15.57
ZMAX	822100	-2.10	2.95	17.03
ZMAX	822110	-1.10	3.31	16.60
ZMAX	822150	-2.00	2.98	17.12
ZMAX	822190	-2.00	2.99	17.12
ZMAX	822200	-1.00	3.09	17.07
ZMAX	822250	-1.10	3.76	16.30
ZMAX	822290	-0.65	5.44	15.72
ZMAX	822300	-0.65	6.31	17.07
ZMAX	822350	0.00	5.99	15.17
ZMAX	822390	1.00	6.13	15.57
ZMAX	822400	1.50	9.31	20.55
ZMAX	822410	2.80	9.31	20.57
ZMAX	822420	3.00	10.25	24.60
ZMAX	822490	4.00	10.30	24.52
ZMAX	822500	5.00	11.36	22.80
ZMAX	82300	-2.50	2.00	0.00
ZMAX	823000	-2.00	2.12	22.85
ZMAX	823100	-2.00	4.11	22.88
ZMAX	823170	-0.50	4.21	22.68
ZMAX	823180	1.17	4.58	22.43
ZMAX	823190	0.09	4.90	22.17
ZMAX	823200	0.22	5.27	21.93
ZMAX	823290	1.40	6.50	21.07
ZMAX	823300	3.00	6.59	21.12
ZMAX	823380	3.20	7.23	19.47
ZMAX	823390	3.30	7.53	18.93
ZMAX	823400	3.60	9.46	17.82
ZMAX	823490	5.00	9.46	17.80
ZMAX	82400	-2.60	2.00	0.00
ZMAX	824000	-2.54	2.01	13.00
ZMAX	824080	-1.01	2.25	16.03
ZMAX	824085	0.30	2.35	16.67
ZMAX	824100	0.30	3.10	19.87
ZMAX	824110	3.40	4.33	20.63
ZMAX	824111	1.25	3.75	16.95
ZMAX	824112	1.40	3.81	16.92
ZMAX	824120	1.50	3.89	16.87
ZMAX	824130	3.70	4.74	18.15
ZMAX	824140	5.00	6.10	14.48
ZMAX	824200	3.60	5.54	20.33
ZMAX	824300	3.90	6.00	17.90
ZMAX	824400	5.20	7.51	13.93
ZMAX	824490	1.15	4.83	21.13
ZMAX	824500	2.00	5.73	20.90

ZMAX	824590	3.00	5.91	21.82
ZMAX	824600	3.50	5.91	21.83
ZMAX	824650	5.00	5.91	21.85
ZMAX	82510	-4.00	2.00	0.00
ZMAX	825100	-4.00	2.01	12.72
ZMAX	825200	-4.00	2.03	20.05
ZMAX	825220	4.00	4.99	20.58
ZMAX	825230	4.00	5.60	16.90
ZMAX	825300	4.00	6.71	16.62
ZMAX	825390	4.00	6.85	20.73
ZMAX	825400	5.50	11.51	20.85
ZMAX	825410	6.10	6.89	19.92
ZMAX	825420	6.30	12.92	19.82
ZMAX	825429	8.00	9.31	19.98
ZMAX	825430	6.50	12.94	19.80
ZMAX	825500	9.41	13.32	19.78
ZMAX	825600	-4.00	2.10	14.12
ZMAX	825610	-3.60	2.11	14.22
ZMAX	825615	-3.00	2.11	14.23
ZMAX	825620	1.20	3.19	16.27
ZMAX	825630	1.20	3.59	16.23
ZMAX	825650	-4.00	2.07	14.12
ZMAX	825653	-1.05	2.10	12.15
ZMAX	825655	-1.29	2.11	14.23
ZMAX	825700	3.00	6.00	19.70
ZMAX	825800	3.63	5.45	16.10
ZMAX	825900	4.00	5.80	15.27
ZMAX	82615	-4.00	2.00	0.00
ZMAX	82620	-3.50	2.00	0.00
ZMAX	82645	-3.50	2.00	0.00
ZMAX	826150	-4.00	2.03	10.90
ZMAX	826190	-4.00	2.06	28.00
ZMAX	826200	-3.50	2.03	12.50
ZMAX	826245	-3.20	2.13	15.77
ZMAX	826250	-3.17	2.42	15.87
ZMAX	826290	0.00	2.45	16.25
ZMAX	826295	6.00	13.88	25.15
ZMAX	826300	1.00	3.04	14.97
ZMAX	826305	1.40	3.43	15.07
ZMAX	826310	1.50	3.74	15.07
ZMAX	826315	2.00	4.02	15.02
ZMAX	826320	2.50	4.80	14.72
ZMAX	826325	6.00	6.87	14.62
ZMAX	826350	8.12	10.35	14.58
ZMAX	826400	8.14	14.50	25.13
ZMAX	826450	-3.50	2.03	12.50
ZMAX	826500	-3.50	2.20	21.32
ZMAX	826550	-2.00	2.21	13.10
ZMAX	826560	-2.53	2.48	21.15
ZMAX	826570	-2.62	4.40	21.03
ZMAX	826600	-1.00	5.63	21.00
ZMAX	826640	2.20	8.74	20.22
ZMAX	826650	2.20	8.84	20.15
ZMAX	826665	2.64	9.66	19.80
ZMAX	826685	8.98	9.80	27.27
ZMAX	826700	9.28	13.73	27.15
ZMAX	826750	2.64	9.74	19.75
ZMAX	826780	8.03	12.44	18.65
ZMAX	826790	27.50	29.75	15.50

ZMAX	826800	28.00	31.84	15.27
ZMAX	826850	8.27	15.63	18.62
ZMAX	826855	17.50	21.53	16.13
ZMAX	826860	18.00	24.82	16.08
ZMAX	826865	29.00	33.73	16.05
ZMAX	826900	29.50	36.43	16.02
ZMAX	826940	41.00	43.02	16.28
ZMAX	826950	41.10	44.68	16.25
ZMAX	826970	8.50	15.79	18.97
ZMAX	826980	10.00	16.37	18.88
ZMAX	826990	10.50	18.72	18.82
ZMAX	82900	-1.00	2.00	0.00
ZMAX	82930	-1.50	2.00	0.00
ZMAX	82940	-4.00	2.00	0.00
ZMAX	829000	-1.00	2.14	13.75
ZMAX	829100	1.70	2.66	15.70
ZMAX	829190	-1.00	2.18	14.80
ZMAX	829200	0.00	3.93	20.37
ZMAX	829300	-1.50	2.09	12.75
ZMAX	829400	-4.00	2.06	24.75
ZMAX	829410	-3.90	2.05	24.68
ZMAX	829450	-3.81	2.06	24.70
ZMAX	829500	-3.50	2.16	18.67
ZMAX	829510	-1.00	2.17	18.72
ZMAX	829600	-0.50	2.35	18.95

	PIPE_ID	FROM	TO	SIZE(INCH)	LENGTH	INV_U	ZMAXU	INV_D	ZMAXD	QMAX	VMAX	TMAX
QMAX	9821000	821000	82100	60.	500.	-2.00	2.46	-2.00	2.00	952.05	1.84	14.35
QMAX	9821100	821100	821000	83.	144.	-1.10	2.55	-2.00	2.46	588.95	5.57	14.98
QMAX	9821190	821100	821190	138.	1615.	-1.10	2.55	-4.50	4.73	-388.76	-2.70	18.73
QMAX	1821200	821200	821190	96.	135.	-4.50	5.15	-4.50	4.73	388.83	4.49	18.63
QMAX	9821290	821290	821200	140.	1890.	0.87	5.66	-4.50	5.15	330.90	0.84	18.93
QMAX	1821300	821300	821290	54.	120.	0.87	6.90	0.87	5.66	110.35	6.83	18.75
QMAX	2821300	821300	821290	54.	120.	0.87	6.90	0.87	5.66	110.35	6.83	18.75
QMAX	3821300	821300	821290	54.	120.	0.87	6.90	0.87	5.66	110.35	6.83	18.75
QMAX	9821390	821390	821300	132.	2790.	8.00	10.96	0.87	6.90	256.00	1.94	17.28
QMAX	1821400	821400	821390	43.	320.	9.00	11.49	8.00	10.96	85.35	6.55	17.18
QMAX	2821400	821400	821390	43.	320.	9.00	11.49	8.00	10.96	85.35	6.55	17.18
QMAX	3821400	821400	821390	43.	320.	9.00	11.49	8.00	10.96	85.35	6.55	17.18
QMAX	9821490	821490	821400	96.	4690.	19.00	20.78	9.00	11.49	83.30	2.32	14.97
QMAX	1821500	821500	821490	24.	320.	21.50	25.87	20.00	20.78	21.79	7.10	14.50
QMAX	2821500	821500	821490	36.	320.	20.50	25.87	19.00	20.78	62.12	10.84	14.77
QMAX	9822000	822000	82200	60.	500.	-2.10	2.01	-2.50	2.00	971.50	0.72	16.30
QMAX	1822100	822100	822000	60.	113.	-2.00	2.95	-2.00	2.01	275.11	6.15	17.03
QMAX	2822100	822100	822000	60.	150.	-2.10	2.95	-2.10	2.01	243.52	5.91	17.05
QMAX	3822100	822100	822000	60.	150.	-2.10	2.95	-2.10	2.01	243.52	5.91	17.05
QMAX	9822150	822150	822100	96.	965.	-2.00	2.98	-2.00	2.95	89.45	0.55	18.05
QMAX	9822190	822190	822150	96.	890.	-2.00	2.99	-2.00	2.98	37.26	0.23	17.17
QMAX	1822200	822200	822190	54.	320.	-1.00	3.09	-2.00	2.99	37.96	2.43	16.02
QMAX	9822110	822110	822100	73.	785.	-1.10	3.31	-2.00	2.95	687.97	1.35	15.77
QMAX	1822250	822250	822110	57.	320.	-1.10	3.76	-1.10	3.31	693.10	5.11	15.68
QMAX	9822290	822290	822250	128.	1460.	-0.65	5.44	-1.10	3.76	649.20	1.94	15.68
QMAX	1822300	822300	822290	48.	105.	-0.65	6.31	-0.65	5.44	76.44	6.06	17.78
QMAX	2822300	822300	822290	48.	105.	-0.65	6.31	-0.65	5.44	76.44	6.06	17.78
QMAX	3822300	822300	822290	48.	105.	-0.65	6.31	-0.65	5.44	76.44	6.06	17.78
QMAX	9822350	822350	822290	96.	1870.	0.00	5.99	-0.65	5.44	491.98	1.89	14.80
QMAX	9822390	822390	822350	96.	2265.	1.00	6.13	0.00	5.99	285.39	1.36	21.25
QMAX	1822400	822400	822390	48.	100.	1.50	9.31	1.00	6.13	142.38	11.20	21.13
QMAX	2822400	822400	822390	48.	100.	1.50	9.31	1.00	6.13	142.38	11.20	21.13
QMAX	9822410	822410	822400	144.	1240.	2.80	9.31	1.50	9.31	131.36	1.25	30.33

QMAX	1822420	822420	822410	24.	260.	3.00	10.25	2.80	9.31	30.81	9.71	30.25
QMAX	2822420	822420	822410	36.	260.	3.00	10.25	2.80	9.31	98.64	8.50	30.45
QMAX	9822490	822490	822420	144.	4100.	4.00	10.30	3.00	10.25	106.86	1.18	20.22
QMAX	1822500	822500	822490	38.	115.	5.00	11.36	4.00	10.30	85.96	6.78	15.75
QMAX	2822500	822500	822490	30.	115.	5.00	11.36	4.00	10.30	29.13	-10.00	19.23
QMAX	1822050	822050	822000	24.	320.	0.50	3.62	-0.50	2.01	20.62	6.55	15.57
QMAX	2822050	822050	822000	24.	320.	0.50	3.62	-0.50	2.01	35.24	7.00	15.57
QMAX	9823000	823000	82300	60.	500.	-2.00	2.12	-2.50	2.00	482.30	0.36	22.98
QMAX	1823100	823100	823000	60.	140.	-2.00	4.11	-2.00	2.12	155.62	8.52	22.90
QMAX	9823170	823170	823100	90.	2515.	-0.50	4.21	-2.00	4.11	96.77	1.06	22.20
QMAX	1823180	823170	823180	60.	320.	1.92	4.21	1.26	4.58	-96.94	-3.49	22.23
QMAX	1823190	823180	823190	48.	320.	1.17	4.58	0.09	4.90	-32.64	-2.68	21.75
QMAX	2823190	823180	823190	48.	320.	1.17	4.58	0.09	4.90	-32.64	-2.68	21.75
QMAX	3823190	823180	823190	48.	320.	1.17	4.58	0.09	4.90	-32.64	-2.68	21.75
QMAX	1823200	823190	823200	48.	320.	1.18	4.90	0.22	5.27	-49.25	-3.98	21.52
QMAX	2823200	823190	823200	48.	320.	1.18	4.90	0.22	5.27	-49.25	-3.98	21.52
QMAX	9823290	823290	823200	79.	1160.	1.40	6.50	0.22	5.27	94.96	1.91	21.43
QMAX	1823300	823300	823290	48.	230.	3.00	6.59	1.40	6.50	94.73	3.14	21.23
QMAX	9823380	823380	823300	71.	1360.	3.20	7.23	3.00	6.59	98.12	2.04	16.85
QMAX	9823390	823390	823380	82.	900.	3.30	7.53	3.20	7.23	98.76	2.24	16.85
QMAX	1823400	823400	823390	52.	380.	3.60	9.46	3.30	7.53	98.99	6.80	16.77
QMAX	9823490	823490	823400	90.	2000.	5.00	9.46	3.60	9.46	-12.95	-0.55	14.22
QMAX	9824000	824000	82400	60.	500.	-2.54	2.01	-2.60	2.00	904.41	0.63	13.50
QMAX	1824080	824080	824000	84.	175.	-1.01	2.25	-2.54	2.01	137.57	4.41	16.05
QMAX	2824080	824080	824000	84.	175.	-1.01	2.25	-2.54	2.01	137.57	4.41	16.05
QMAX	9824085	824085	824080	84.	2125.	0.30	2.35	-1.01	2.25	35.61	0.59	20.12
QMAX	1824100	824100	824085	66.	100.	0.30	3.10	0.30	2.35	35.40	3.54	20.02
QMAX	9824110	824110	824100	84.	1800.	3.40	4.33	1.00	3.10	13.54	0.82	20.63
QMAX	1824200	824200	824110	36.	122.	3.60	5.54	3.40	4.33	13.55	4.05	20.43
QMAX	9824111	824111	824100	84.	2350.	1.25	3.75	1.00	3.10	29.33	1.06	16.78
QMAX	1824112	824112	824111	42.	50.	1.40	3.81	1.25	3.75	14.71	2.05	16.62
QMAX	2824112	824112	824111	42.	50.	1.40	3.81	1.25	3.75	14.71	2.05	16.62
QMAX	9824120	824120	824112	84.	290.	1.50	3.89	1.40	3.81	29.44	0.99	16.60
QMAX	9824130	824130	824120	84.	1490.	3.70	4.74	1.50	3.89	17.20	0.87	18.15
QMAX	1824300	824300	824130	36.	264.	3.90	6.00	3.70	4.74	17.21	4.62	18.00
QMAX	9824140	824140	824120	84.	2615.	5.00	6.10	1.50	3.89	17.98	1.15	14.48
QMAX	1824400	824400	824140	36.	138.	5.20	7.51	5.00	6.10	18.18	4.48	14.20
QMAX	1824490	824000	824490	30.	100.	1.59	2.01	1.15	4.83	-27.33	-5.79	21.13
QMAX	2824490	824000	824490	30.	100.	1.59	2.01	1.15	4.83	-27.33	-5.79	21.13
QMAX	9824500	824500	824490	60.	2550.	2.00	5.73	1.15	4.83	54.72	1.33	20.78
QMAX	9824590	824590	824500	60.	2780.	3.00	5.91	2.00	5.73	22.54	0.89	28.27
QMAX	1824600	824600	824590	48.	110.	3.50	5.91	3.00	5.91	22.04	-1.00	28.05
QMAX	9824650	824650	824600	84.	2250.	5.00	5.91	3.50	5.91	11.41	1.00	13.78
QMAX	9825100	825100	82510	144.	500.	-4.00	2.01	-4.00	2.00	495.05	0.36	16.62
QMAX	1825200	825200	825100	144.	125.	-4.00	2.03	-4.00	2.01	309.90	1.29	20.30
QMAX	9825610	825610	825600	133.	2550.	-3.60	2.11	-4.00	2.10	173.24	0.42	16.35
QMAX	1825650	825650	826190	140.	475.	-4.00	2.07	-4.00	2.06	384.40	1.29	14.33
QMAX	9825650	825650	825600	168.	825.	-4.00	2.07	-4.00	2.10	-380.42	-0.92	14.18
QMAX	9825653	825653	825650	97.	2050.	-1.05	2.10	-4.00	2.07	46.08	0.14	12.20
QMAX	1825655	825653	825655	24.	200.	-1.05	2.10	-1.29	2.11	5.97	1.08	11.38
QMAX	9825615	825615	825655	96.	650.	-1.00	2.11	-1.29	2.11	10.08	0.06	11.53
QMAX	9825616	825615	825610	126.	235.	-3.00	2.11	-3.60	2.11	172.00	0.44	16.35
QMAX	1825700	825700	825615	24.	150.	3.00	6.00	1.50	2.11	13.98	4.69	19.70
QMAX	9825620	825620	825615	144.	1580.	1.20	3.19	-3.00	2.11	162.58	1.75	16.27
QMAX	1825630	825630	825620	96.	121.	1.20	3.59	1.20	3.19	81.31	3.09	16.20
QMAX	2825630	825630	825620	96.	121.	1.20	3.59	1.20	3.19	81.31	3.09	16.20
QMAX	1825800	825800	825630	72.	320.	3.63	5.45	3.58	3.59	81.39	3.70	16.12
QMAX	2825800	825800	825630	72.	320.	3.63	5.45	3.58	3.59	81.39	3.70	16.12
QMAX	9825900	825900	825800	144.	680.	4.00	5.80	3.63	5.45	49.01	1.48	14.28

QMAX	9825220	825220	825200	120.	5910.	4.00	4.99	-4.00	2.03	48.78	0.25	20.58
QMAX	9825410	825410	825220	120.	810.	6.10	6.89	4.00	4.99	41.58	1.43	19.92
QMAX	1825420	825420	825410	36.	129.	6.30	12.92	6.10	6.89	30.59	7.10	19.90
QMAX	9825430	825430	825420	120.	1170.	6.50	12.94	6.30	12.92	41.60	0.98	19.82
QMAX	9825429	825429	825630	120.	1700.	8.00	9.31	3.50	3.59	20.63	1.92	19.98
QMAX	1825500	825500	825430	30.	125.	9.41	13.32	8.82	12.94	30.03	6.43	16.27
QMAX	9825230	825230	825200	192.	5900.	4.00	5.60	-4.00	2.03	77.73	0.50	16.90
QMAX	1825230	825230	825220	54.	340.	4.00	5.60	4.00	4.99	9.08	2.55	20.78
QMAX	1825300	825300	825230	60.	110.	4.00	6.71	4.00	5.60	86.24	5.01	16.65
QMAX	9825390	825390	825300	192.	845.	4.00	6.85	4.00	6.71	81.30	-0.95	20.97
QMAX	1825400	825400	825390	36.	135.	5.50	11.51	4.00	6.85	81.29	11.57	20.85
QMAX	9826150	826150	82615	84.	500.	-4.00	2.03	-4.00	2.00	828.90	0.63	13.52
QMAX	9826190	826190	826150	120.	1450.	-4.00	2.06	-4.00	2.03	386.26	0.60	14.17
QMAX	9826200	826200	82620	84.	500.	-3.50	2.03	-3.50	2.00	1350.09	1.13	12.72
QMAX	9826245	826245	826200	122.	7150.	-3.20	2.13	-3.50	2.03	362.84	0.59	15.97
QMAX	1826250	826250	826245	144.	240.	-3.17	2.42	-3.20	2.13	362.58	3.69	15.90
QMAX	9826290	826290	826250	96.	5140.	0.00	2.45	-3.17	2.42	172.78	0.46	25.08
QMAX	1826295	826295	826290	54.	180.	6.00	13.88	3.00	2.45	156.33	10.14	25.15
QMAX	1826400	826400	826295	30.	120.	8.38	14.50	7.59	13.88	39.72	8.05	20.85
QMAX	2826400	826400	826295	42.	120.	8.14	14.50	7.68	13.88	89.45	9.31	21.20
QMAX	1826300	826300	826290	84.	320.	1.00	3.04	0.00	2.45	38.12	3.62	14.97
QMAX	9826305	826305	826300	120.	485.	1.40	3.43	1.00	3.04	25.77	1.52	15.20
QMAX	1826310	826310	826305	72.	120.	1.50	3.74	1.40	3.43	25.75	2.85	15.07
QMAX	9826315	826315	826310	120.	595.	2.00	4.02	1.50	3.74	25.77	1.19	14.90
QMAX	1826320	826320	826315	60.	340.	2.50	4.80	2.20	4.02	25.83	3.88	14.72
QMAX	9826325	826325	826320	120.	260.	6.00	6.87	2.50	4.80	25.84	-1.66	14.62
QMAX	1826350	826350	826325	36.	300.	8.12	10.35	6.88	6.87	25.84	5.38	14.58
QMAX	9826450	826450	82645	78.	500.	-3.50	2.03	-3.50	2.00	1452.25	1.22	12.75
QMAX	9826500	826500	826450	126.	2950.	-3.50	2.20	-3.50	2.03	699.96	1.14	21.42
QMAX	1826550	826550	826500	120.	195.	-2.00	2.21	-3.50	2.20	354.86	1.43	13.28
QMAX	9826560	826560	826500	114.	4950.	-2.53	2.48	-3.50	2.20	670.13	1.09	21.17
QMAX	1826570	826570	826560	72.	100.	-2.02	4.40	-2.53	2.48	239.86	8.82	21.03
QMAX	2826570	826560	826570	72.	100.	-1.99	2.48	-2.62	4.40	-213.11	-8.17	21.03
QMAX	3826570	826560	826570	72.	100.	-2.07	2.48	-2.55	4.40	-217.33	-8.26	21.03
QMAX	9826600	826600	826570	108.	1210.	-1.00	5.63	-2.62	4.40	670.33	3.82	20.98
QMAX	9826640	826640	826600	106.	4055.	2.20	8.74	-1.00	5.63	604.99	2.58	20.22
QMAX	1826650	826650	826640	96.	116.	2.20	8.84	2.20	8.74	204.70	2.63	19.35
QMAX	2826650	826650	826640	96.	116.	2.20	8.84	2.20	8.74	204.70	2.63	19.35
QMAX	3826650	826650	826640	96.	116.	2.20	8.84	2.20	8.74	204.70	2.63	19.35
QMAX	9826665	826665	826650	112.	715.	2.64	9.66	2.20	8.84	599.22	2.90	18.97
QMAX	9826685	826685	826665	96.	650.	8.98	9.80	4.00	9.66	15.84	-2.74	27.27
QMAX	1826700	826700	826685	30.	380.	9.28	13.73	8.98	9.80	15.84	4.99	27.20
QMAX	1826750	826750	826665	96.	340.	2.64	9.74	2.64	9.66	297.48	2.66	18.73
QMAX	2826750	826750	826665	96.	340.	2.64	9.74	2.64	9.66	297.48	2.66	18.73
QMAX	9826780	826780	826750	120.	1460.	8.03	12.44	2.64	9.74	434.64	3.74	18.65
QMAX	1826850	826780	826850	48.	100.	8.68	12.44	8.27	15.63	-99.95	-8.27	17.18
QMAX	2826850	826850	826780	48.	100.	8.31	15.63	8.03	12.44	105.32	8.61	16.25
QMAX	9826855	826855	826850	120.	2120.	17.50	21.53	8.27	15.63	282.64	3.39	16.13
QMAX	1826860	826860	826855	43.	100.	18.00	24.82	17.50	21.53	91.11	9.15	14.53
QMAX	9826865	826865	826860	120.	2080.	29.00	33.73	18.00	24.82	282.72	4.30	16.05
QMAX	1826900	826900	826865	48.	240.	29.50	36.43	29.00	33.73	108.59	8.52	15.10
QMAX	2826900	826900	826865	48.	240.	29.50	36.43	29.00	33.73	108.59	8.52	15.10
QMAX	9826940	826940	826900	180.	1900.	41.00	43.02	29.50	36.43	189.68	1.09	16.28
QMAX	1826950	826950	826940	48.	304.	41.10	44.68	41.00	43.02	94.88	5.65	16.25
QMAX	2826950	826950	826940	48.	304.	41.10	44.68	41.00	43.02	94.88	5.65	16.25
QMAX	9826790	826790	826750	120.	4810.	27.50	29.75	2.64	9.74	103.35	1.87	15.50
QMAX	1826800	826800	826790	48.	140.	28.00	31.84	27.50	29.75	51.79	5.27	15.32
QMAX	2826800	826800	826790	48.	140.	28.00	31.84	27.50	29.75	51.79	5.27	15.32
QMAX	9826970	826970	826850	120.	1170.	8.50	15.79	8.27	15.63	172.15	-1.51	19.55

QMAX	9826980	826980	826970	120.	1525.	10.00	16.37	8.50	15.79	142.37	1.87	18.87
QMAX	1826990	826990	826980	54.	340.	10.50	18.72	10.00	16.37	117.53	7.36	21.85
QMAX	9829000	829000	82900	48.	500.	-1.00	2.14	-1.00	2.00	1264.63	1.97	13.77
QMAX	9829100	829100	829000	60.	450.	1.70	2.66	-1.00	2.14	13.97	0.06	15.70
QMAX	9829190	829190	829000	84.	1600.	-1.00	2.18	-1.00	2.14	72.84	0.73	20.48
QMAX	1829200	829200	829190	29.	100.	0.00	3.93	-1.00	2.18	52.59	7.33	20.38
QMAX	2829200	829200	829190	24.	100.	0.00	3.93	-1.00	2.18	20.23	6.41	20.40
QMAX	9829400	829400	82940	84.	500.	-4.00	2.06	-4.00	2.00	264.58	0.31	13.97
QMAX	9829410	829410	829400	120.	1100.	-3.90	2.05	-4.00	2.06	147.88	0.47	18.82
QMAX	1829450	829450	829410	132.	200.	-3.81	2.06	-3.90	2.05	147.87	1.09	18.83
QMAX	9829500	829500	829450	133.	1350.	-3.50	2.16	-3.81	2.06	147.87	1.14	18.78
QMAX	9829300	829300	82930	48.	500.	-1.50	2.09	-1.50	2.00	1334.76	1.79	12.75
QMAX	9829501	829500	829300	85.	1400.	-1.10	2.16	-1.50	2.09	92.47	0.84	18.75
QMAX	9829510	829510	829500	120.	1750.	-1.00	2.17	-1.10	2.16	12.26	0.14	19.27
QMAX	1829600	829600	829510	30.	260.	-0.50	2.35	-1.00	2.17	12.23	2.43	19.12

	WEIR_ID	FROM	TO	ZCREST	ZU	ZD	ZMAXU	QMAX	ZMAXD	TMAX
QWEIR	7821200	821200	821190	7.50	-4.50	-4.50	5.15	0.00	4.73	0.0
QWEIR	7821300	821300	821290	10.60	0.87	0.87	6.90	0.00	5.66	0.0
QWEIR	7821400	821400	821390	14.90	9.00	8.00	11.49	0.00	10.96	0.0
QWEIR	7821500	821500	821490	26.20	20.50	19.00	25.87	0.00	20.78	0.0
QWEIR	7822050	822050	822000	4.50	0.50	-2.10	3.62	0.00	2.01	0.0
QWEIR	7822100	822100	822000	6.50	-2.10	-2.10	2.95	0.00	2.01	0.0
QWEIR	7822200	822200	822190	6.50	-1.00	-2.00	3.09	0.00	2.99	0.0
QWEIR	7822250	822250	822110	6.08	-1.10	-1.10	3.76	0.00	3.31	0.0
QWEIR	7822300	822300	822290	12.00	-0.65	-0.65	6.31	0.00	5.44	0.0
QWEIR	7822400	822400	822390	12.50	1.50	1.00	9.31	0.00	6.13	0.0
QWEIR	7822420	822420	822410	12.50	3.00	2.80	10.25	0.00	9.31	0.0
QWEIR	7822500	822500	822490	15.40	5.00	4.00	11.36	0.00	10.30	0.0
QWEIR	7823100	823100	823000	6.50	-2.00	-2.00	4.11	0.00	2.12	0.0
QWEIR	7823180	823180	823170	6.00	1.17	-0.50	4.58	0.00	4.21	0.0
QWEIR	7823190	823190	823180	6.00	0.09	1.17	4.90	0.00	4.58	0.0
QWEIR	7823200	823200	823190	6.00	0.22	0.09	5.27	0.00	4.90	0.0
QWEIR	7823300	823300	823290	9.00	3.00	1.40	6.59	0.00	6.50	0.0
QWEIR	7823400	823400	823390	9.80	3.60	3.30	9.46	0.00	7.53	0.0
QWEIR	7824080	824080	824000	6.50	-1.01	-2.54	2.25	0.00	2.01	0.0
QWEIR	7824100	824100	824085	5.50	0.30	0.30	3.10	0.00	2.35	0.0
QWEIR	7824112	824112	824111	6.00	1.40	1.25	3.81	0.00	3.75	0.0
QWEIR	7824200	824200	824110	9.30	3.60	3.40	5.54	0.00	4.33	0.0
QWEIR	7824300	824300	824130	10.00	3.90	3.70	6.00	0.00	4.74	0.0
QWEIR	7824400	824400	824140	11.00	5.20	5.00	7.51	0.00	6.10	0.0
QWEIR	7824490	824490	824000	7.50	1.15	-2.54	4.83	0.00	2.01	0.0
QWEIR	7824600	824600	824590	12.50	3.50	3.00	5.91	0.00	5.91	0.0
QWEIR	7825200	825200	825100	10.00	-4.00	-4.00	2.03	0.00	2.01	0.0
QWEIR	7825300	825300	825230	12.00	4.00	4.00	6.71	0.00	5.60	0.0
QWEIR	7825400	825400	825390	15.00	5.50	4.00	11.51	0.00	6.85	0.0
QWEIR	7825420	825420	825410	12.80	6.30	6.10	12.92	11.02	6.89	19.8
QWEIR	6825430	825430	825429	12.40	6.50	8.00	12.94	20.69	9.31	19.8
QWEIR	7825500	825500	825430	13.00	9.41	6.50	13.32	47.23	12.94	19.8
QWEIR	6825600	825600	825200	4.80	-4.00	-4.00	2.10	0.00	2.03	0.0
QWEIR	7825630	825630	825620	13.50	1.20	1.20	3.59	0.00	3.19	0.0
QWEIR	7825655	825655	825653	6.80	-1.29	-1.05	2.11	0.00	2.10	0.0
QWEIR	7825700	825700	825615	9.20	3.00	-3.00	6.00	0.00	2.11	0.0
QWEIR	7825800	825800	825630	13.50	3.63	1.20	5.45	0.00	3.59	0.0
QWEIR	7826250	826250	826245	10.00	-3.17	-3.20	2.42	0.00	2.13	0.0
QWEIR	7826295	826295	826290	14.00	6.00	0.00	13.88	0.00	2.45	0.0
QWEIR	7826300	826300	826290	10.00	1.00	0.00	3.04	0.00	2.45	0.0
QWEIR	7826310	826310	826305	10.00	1.50	1.40	3.74	0.00	3.43	0.0
QWEIR	7826320	826320	826315	10.20	2.50	2.00	4.80	0.00	4.02	0.0
QWEIR	7826350	826350	826325	13.00	8.12	6.00	10.35	0.00	6.87	0.0

QWEIR	7826400	826400	826295	14.00	8.14	6.00	14.50	93.77	13.88	25.1
QWEIR	7826500	826500	826450	6.00	-3.50	-3.50	2.20	0.00	2.03	0.0
QWEIR	7826550	826550	826500	4.00	-2.00	-3.50	2.21	0.00	2.20	0.0
QWEIR	7826570	826570	826560	5.00	-2.62	-2.53	4.40	0.00	2.48	0.0
QWEIR	7826650	826650	826640	11.00	2.20	2.20	8.84	0.00	8.74	0.0
QWEIR	7826700	826700	826685	14.00	9.28	8.98	13.73	0.00	9.80	0.0
QWEIR	7826750	826750	826665	12.00	2.64	2.64	9.74	0.00	9.66	0.0
QWEIR	7826800	826800	826790	34.00	28.00	27.50	31.84	0.00	29.75	0.0
QWEIR	7826850	826850	826780	14.70	8.27	8.03	15.63	235.05	12.44	18.6
QWEIR	7826860	826860	826855	24.00	18.00	17.50	24.82	196.82	21.53	16.1
QWEIR	7826900	826900	826865	36.00	29.50	29.00	36.43	72.88	33.73	16.0
QWEIR	7826990	826990	826980	18.50	10.50	10.00	18.72	27.76	16.37	18.8
QWEIR	7829100	829100	829000	2.00	1.70	-1.00	2.66	141.17	2.14	15.7
QWEIR	7829200	829200	829190	5.00	0.00	-1.00	3.93	0.00	2.18	0.0
QWEIR	7829600	829600	829510	5.00	-0.50	-1.00	2.35	0.00	2.17	0.0
QWEIR	90225	82100	0	-2.00	-2.00	0.00	2.00	952.05	0.00	14.4
QWEIR	90226	82200	0	-2.50	-2.50	0.00	2.00	971.50	0.00	16.3
QWEIR	90227	82300	0	-2.50	-2.50	0.00	2.00	482.30	0.00	23.0
QWEIR	90228	82400	0	-2.60	-2.60	0.00	2.00	904.41	0.00	13.5
QWEIR	90229	82510	0	-4.00	-4.00	0.00	2.00	495.05	0.00	16.6
QWEIR	90230	82615	0	-4.00	-4.00	0.00	2.00	828.90	0.00	13.5
QWEIR	90231	82620	0	-3.50	-3.50	0.00	2.00	1350.09	0.00	12.7
QWEIR	90232	82645	0	-3.50	-3.50	0.00	2.00	1452.25	0.00	12.8
QWEIR	90233	82900	0	-1.00	-1.00	0.00	2.00	1264.63	0.00	13.8
QWEIR	90234	82930	0	-1.50	-1.50	0.00	2.00	1334.76	0.00	12.8
QWEIR	90235	82940	0	-4.00	-4.00	0.00	2.00	264.58	0.00	14.0

5. MC-100-PropRAI.smx

File: J:\Projects\TECO\Gypsum\Drainage Report\Miscellaneous Coastal Streams Proposed\Miscellaneous Coastal Streams Proposed - RAI\100 Year_PropRAI\MC-100_PropRAI.SMX 12/3/2012, 1:03:51 PM

	JUNC_ID	INVT	Z_MAX	T_MAX
ZMAX	82100	-2.00	2.00	0.00
ZMAX	821000	-2.00	2.34	12.70
ZMAX	821100	-1.10	2.46	12.72
ZMAX	821190	-4.50	5.28	18.27
ZMAX	821200	-4.50	6.07	18.20
ZMAX	821290	0.87	6.35	19.85
ZMAX	821300	0.87	8.46	19.73
ZMAX	821390	8.00	11.56	17.95
ZMAX	821400	9.00	12.96	17.92
ZMAX	821490	19.00	21.36	14.57
ZMAX	821500	20.50	26.44	14.25
ZMAX	82200	-2.50	2.00	0.00
ZMAX	822000	-2.10	2.01	15.72
ZMAX	822050	0.50	4.69	15.00
ZMAX	822100	-2.10	3.86	16.75
ZMAX	822110	-1.10	4.15	16.43
ZMAX	822150	-2.00	3.91	16.82
ZMAX	822190	-2.00	3.91	16.82
ZMAX	822200	-1.00	4.29	16.63
ZMAX	822250	-1.10	4.86	15.72
ZMAX	822290	-0.65	6.19	15.25
ZMAX	822300	-0.65	8.14	18.50
ZMAX	822350	0.00	6.92	14.58
ZMAX	822390	1.00	7.02	14.82
ZMAX	822400	1.50	11.68	20.78
ZMAX	822410	2.80	11.68	20.82
ZMAX	822420	3.00	12.52	25.32
ZMAX	822490	4.00	12.53	25.28
ZMAX	822500	5.00	13.96	22.90
ZMAX	82300	-2.50	2.00	0.00
ZMAX	823000	-2.00	2.06	25.52
ZMAX	823100	-2.00	5.14	24.78
ZMAX	823170	-0.50	5.22	24.83
ZMAX	823180	1.17	5.45	24.08
ZMAX	823190	0.09	5.96	22.42
ZMAX	823200	0.22	6.28	21.58
ZMAX	823290	1.40	6.96	19.57
ZMAX	823300	3.00	7.25	19.42
ZMAX	823380	3.20	8.06	17.60
ZMAX	823390	3.30	8.46	17.35
ZMAX	823400	3.60	10.20	17.05
ZMAX	823490	5.00	10.20	17.05
ZMAX	82400	-2.60	2.00	0.00
ZMAX	824000	-2.54	2.01	13.00
ZMAX	824080	-1.01	2.65	15.77
ZMAX	824085	0.30	2.73	16.18
ZMAX	824100	0.30	3.50	20.67
ZMAX	824110	3.40	4.57	19.75
ZMAX	824111	1.25	4.24	16.45
ZMAX	824112	1.40	4.34	16.38
ZMAX	824120	1.50	4.42	16.33
ZMAX	824130	3.70	4.99	17.87
ZMAX	824140	5.00	6.41	14.25
ZMAX	824200	3.60	5.97	19.48
ZMAX	824300	3.90	6.48	17.67
ZMAX	824400	5.20	8.28	13.83
ZMAX	824490	1.15	5.95	20.95
ZMAX	824500	2.00	6.54	20.78

* 100 Year Proposed Stage =
4.42 NGVD
- 1.97
2.45 NAVD

ZMAX	824590	3.00	6.63	21.48
ZMAX	824600	3.50	6.63	21.53
ZMAX	824650	5.00	6.63	21.55
ZMAX	82510	-4.00	2.00	0.00
ZMAX	825100	-4.00	2.01	10.55
ZMAX	825200	-4.00	2.09	17.75
ZMAX	825220	4.00	5.52	18.00
ZMAX	825230	4.00	5.80	15.88
ZMAX	825300	4.00	7.06	15.63
ZMAX	825390	4.00	7.16	15.92
ZMAX	825400	5.50	13.67	20.65
ZMAX	825410	6.10	7.35	17.47
ZMAX	825420	6.30	13.14	17.40
ZMAX	825429	8.00	9.66	18.57
ZMAX	825430	6.50	13.22	17.37
ZMAX	825500	9.41	13.60	17.37
ZMAX	825600	-4.00	2.23	13.88
ZMAX	825610	-3.60	2.26	14.00
ZMAX	825615	-3.00	2.26	13.98
ZMAX	825620	1.20	4.05	16.65
ZMAX	825630	1.20	4.52	16.63
ZMAX	825650	-4.00	2.16	13.87
ZMAX	825653	-1.05	2.16	13.78
ZMAX	825655	-1.29	2.26	13.97
ZMAX	825700	3.00	6.79	19.48
ZMAX	825800	3.63	5.97	15.77
ZMAX	825900	4.00	6.30	15.27
ZMAX	82615	-4.00	2.00	0.00
ZMAX	82620	-3.50	2.00	0.00
ZMAX	82645	-3.50	2.00	0.00
ZMAX	826150	-4.00	2.05	10.47
ZMAX	826190	-4.00	2.09	11.47
ZMAX	826200	-3.50	2.05	12.50
ZMAX	826245	-3.20	2.27	15.42
ZMAX	826250	-3.17	2.85	15.38
ZMAX	826290	0.00	2.96	19.42
ZMAX	826295	6.00	14.76	19.93
ZMAX	826300	1.00	3.44	15.13
ZMAX	826305	1.40	3.81	15.15
ZMAX	826310	1.50	4.10	15.13
ZMAX	826315	2.00	4.37	15.07
ZMAX	826320	2.50	5.13	14.65
ZMAX	826325	6.00	7.02	14.57
ZMAX	826350	8.12	10.89	14.53
ZMAX	826400	8.14	15.13	19.93
ZMAX	826450	-3.50	2.06	12.50
ZMAX	826500	-3.50	2.49	20.67
ZMAX	826550	-2.00	2.49	20.68
ZMAX	826560	-2.53	3.06	20.35
ZMAX	826570	-2.62	5.89	20.05
ZMAX	826600	-1.00	7.56	20.02
ZMAX	826640	2.20	9.92	18.85
ZMAX	826650	2.20	10.21	18.65
ZMAX	826665	2.64	10.86	18.20
ZMAX	826685	8.98	11.03	18.25
ZMAX	826700	9.28	14.28	22.32
ZMAX	826750	2.64	11.16	17.98
ZMAX	826780	8.03	14.16	16.62
ZMAX	826790	27.50	30.32	15.00

ZMAX	826800	28.00	34.08	14.75
ZMAX	826850	8.27	16.53	16.58
ZMAX	826855	17.50	22.82	15.37
ZMAX	826860	18.00	25.36	15.33
ZMAX	826865	29.00	35.27	15.32
ZMAX	826900	29.50	37.14	15.28
ZMAX	826940	41.00	43.56	15.37
ZMAX	826950	41.10	47.34	15.25
ZMAX	826970	8.50	16.82	16.92
ZMAX	826980	10.00	17.74	16.75
ZMAX	826990	10.50	19.20	16.48
ZMAX	82900	-1.00	2.00	0.00
ZMAX	82930	-1.50	2.00	0.00
ZMAX	82940	-4.00	2.00	0.00
ZMAX	829000	-1.00	2.29	13.50
ZMAX	829100	1.70	2.86	15.38
ZMAX	829190	-1.00	2.34	13.83
ZMAX	829200	0.00	4.90	20.10
ZMAX	829300	-1.50	2.19	12.75
ZMAX	829400	-4.00	2.04	28.25
ZMAX	829410	-3.90	2.04	28.23
ZMAX	829450	-3.81	2.07	18.57
ZMAX	829500	-3.50	2.35	18.57
ZMAX	829510	-1.00	2.36	18.63
ZMAX	829600	-0.50	2.65	19.53

	PIPE_ID	FROM	TO	SIZE(INCH)	LENGTH	INV_U	ZMAXU	INV_D	ZMAXD	QMAX	VMAX	TMAX
QMAX	9821000	821000	82100	60.	500.	-2.00	2.34	-2.00	2.00	835.28	1.62	14.52
QMAX	9821100	821100	821000	83.	144.	-1.10	2.46	-2.00	2.34	569.16	5.48	17.38
QMAX	9821190	821100	821190	138.	1615.	-1.10	2.46	-4.50	5.28	-507.66	-2.72	18.20
QMAX	1821200	821200	821190	96.	135.	-4.50	6.07	-4.50	5.28	507.81	6.20	18.15
QMAX	9821290	821290	821200	140.	1890.	0.87	6.35	-4.50	6.07	429.87	0.84	19.85
QMAX	1821300	821300	821290	54.	120.	0.87	8.46	0.87	6.35	143.36	8.87	19.60
QMAX	2821300	821300	821290	54.	120.	0.87	8.46	0.87	6.35	143.36	8.87	19.60
QMAX	3821300	821300	821290	54.	120.	0.87	8.46	0.87	6.35	143.36	8.87	19.60
QMAX	9821390	821390	821300	132.	2790.	8.00	11.56	0.87	8.46	368.94	2.10	17.95
QMAX	1821400	821400	821390	43.	320.	9.00	12.96	8.00	11.56	122.99	7.49	17.87
QMAX	2821400	821400	821390	43.	320.	9.00	12.96	8.00	11.56	122.99	7.49	17.87
QMAX	3821400	821400	821390	43.	320.	9.00	12.96	8.00	11.56	122.99	7.49	17.87
QMAX	9821490	821490	821400	96.	4690.	19.00	21.36	9.00	12.96	136.58	2.76	14.57
QMAX	1821500	821500	821490	24.	320.	21.50	26.44	20.00	21.36	23.34	7.56	14.25
QMAX	2821500	821500	821490	36.	320.	20.50	26.44	19.00	21.36	83.70	12.82	14.55
QMAX	9822000	822000	82200	60.	500.	-2.10	2.01	-2.50	2.00	1392.65	1.03	15.92
QMAX	1822100	822100	822000	60.	113.	-2.00	3.86	-2.00	2.01	382.53	8.08	16.77
QMAX	2822100	822100	822000	60.	150.	-2.10	3.86	-2.10	2.01	341.58	7.99	16.77
QMAX	3822100	822100	822000	60.	150.	-2.10	3.86	-2.10	2.01	341.58	7.99	16.77
QMAX	9822150	822150	822100	96.	965.	-2.00	3.91	-2.00	3.86	146.03	0.64	17.58
QMAX	9822190	822190	822150	96.	890.	-2.00	3.91	-2.00	3.91	62.48	0.29	16.52
QMAX	1822200	822200	822190	54.	320.	-1.00	4.29	-2.00	3.91	64.74	3.97	15.52
QMAX	9822110	822110	822100	73.	785.	-1.10	4.15	-2.00	3.86	983.43	1.53	15.05
QMAX	1822250	822250	822110	57.	320.	-1.10	4.86	-1.10	4.15	1002.19	6.80	15.00
QMAX	9822290	822290	822250	128.	1460.	-0.65	6.19	-1.10	4.86	926.20	1.95	15.05
QMAX	1822300	822300	822290	48.	105.	-0.65	8.14	-0.65	6.19	114.70	9.08	18.98
QMAX	2822300	822300	822290	48.	105.	-0.65	8.14	-0.65	6.19	114.70	9.08	18.98
QMAX	3822300	822300	822290	48.	105.	-0.65	8.14	-0.65	6.19	114.70	9.08	18.98
QMAX	9822350	822350	822290	96.	1870.	0.00	6.92	-0.65	6.19	759.92	2.41	14.08
QMAX	9822390	822390	822350	96.	2265.	1.00	7.02	0.00	6.92	347.21	1.52	21.13
QMAX	1822400	822400	822390	48.	100.	1.50	11.68	1.00	7.02	173.21	13.70	21.00
QMAX	2822400	822400	822390	48.	100.	1.50	11.68	1.00	7.02	173.21	13.70	21.00
QMAX	9822410	822410	822400	144.	1240.	2.80	11.68	1.50	11.68	156.38	1.10	31.97

QMAX	1822420	822420	822410	24.	260.	3.00	12.52	2.80	11.68	37.70	11.83	32.00
QMAX	2822420	822420	822410	36.	260.	3.00	12.52	2.80	11.68	115.93	10.20	32.00
QMAX	9822490	822490	822420	144.	4100.	4.00	12.53	3.00	12.52	123.47	1.16	21.08
QMAX	1822500	822500	822490	38.	115.	5.00	13.96	4.00	12.53	106.33	8.43	16.88
QMAX	2822500	822500	822490	30.	115.	5.00	13.96	4.00	12.53	36.24	-10.00	16.88
QMAX	1822050	822050	822000	24.	320.	0.50	4.69	-0.50	2.01	26.56	8.42	15.00
QMAX	2822050	822050	822000	24.	320.	0.50	4.69	-0.50	2.01	45.38	9.00	15.00
QMAX	9823000	823000	82300	60.	500.	-2.00	2.06	-2.50	2.00	592.19	0.45	13.25
QMAX	1823100	823100	823000	60.	140.	-2.00	5.14	-2.00	2.06	190.77	10.42	25.07
QMAX	9823170	823170	823100	90.	2515.	-0.50	5.22	-2.00	5.14	121.65	0.76	26.57
QMAX	1823180	823170	823180	60.	320.	1.92	5.22	1.26	5.45	-131.26	-3.78	20.60
QMAX	1823190	823180	823190	48.	320.	1.17	5.45	0.09	5.96	-45.83	-3.63	20.28
QMAX	2823190	823180	823190	48.	320.	1.17	5.45	0.09	5.96	-45.83	-3.63	20.28
QMAX	3823190	823180	823190	48.	320.	1.17	5.45	0.09	5.96	-45.83	-3.63	20.28
QMAX	1823200	823190	823200	48.	320.	1.18	5.96	0.22	6.28	-64.37	-5.05	18.20
QMAX	2823200	823190	823200	48.	320.	1.18	5.96	0.22	6.28	-64.37	-5.05	18.20
QMAX	9823290	823290	823200	79.	1160.	1.40	6.96	0.22	6.28	137.49	1.70	19.57
QMAX	1823300	823300	823290	48.	230.	3.00	7.25	1.40	6.96	138.07	3.35	19.17
QMAX	9823380	823380	823300	71.	1360.	3.20	8.06	3.00	7.25	160.18	2.12	17.08
QMAX	9823390	823390	823380	82.	900.	3.30	8.46	3.20	8.06	161.18	2.23	17.00
QMAX	1823400	823400	823390	52.	380.	3.60	10.20	3.30	8.46	105.76	7.25	14.85
QMAX	9823490	823490	823400	90.	2000.	5.00	10.20	3.60	10.20	-47.55	-0.42	14.68
QMAX	9824000	824000	82400	60.	500.	-2.54	2.01	-2.60	2.00	1391.20	0.97	13.25
QMAX	1824080	824080	824000	84.	175.	-1.01	2.65	-2.54	2.01	212.02	6.46	15.82
QMAX	2824080	824080	824000	84.	175.	-1.01	2.65	-2.54	2.01	212.02	6.46	15.82
QMAX	9824085	824085	824080	84.	2125.	0.30	2.73	-1.01	2.65	47.73	0.76	20.72
QMAX	1824100	824100	824085	66.	100.	0.30	3.50	0.30	2.73	47.13	4.13	20.83
QMAX	9824110	824110	824100	84.	1800.	3.40	4.57	1.00	3.50	20.01	0.91	19.75
QMAX	1824200	824200	824110	36.	122.	3.60	5.97	3.40	4.57	20.02	4.68	19.58
QMAX	9824111	824111	824100	84.	2350.	1.25	4.24	1.00	3.50	43.84	1.34	16.17
QMAX	1824112	824112	824111	42.	50.	1.40	4.34	1.25	4.24	22.00	2.54	16.00
QMAX	2824112	824112	824111	42.	50.	1.40	4.34	1.25	4.24	22.00	2.54	16.00
QMAX	9824120	824120	824112	84.	290.	1.50	4.42	1.40	4.34	44.03	1.17	16.00
QMAX	9824130	824130	824120	84.	1490.	3.70	4.99	1.50	4.42	24.93	1.00	17.87
QMAX	1824300	824300	824130	36.	264.	3.90	6.48	3.70	4.99	24.94	5.32	17.73
QMAX	9824140	824140	824120	84.	2615.	5.00	6.41	1.50	4.42	27.31	1.27	14.25
QMAX	1824400	824400	824140	36.	138.	5.20	8.28	5.00	6.41	27.60	5.32	14.03
QMAX	1824490	824000	824490	30.	100.	1.59	2.01	1.15	5.95	-37.19	-7.78	20.95
QMAX	2824490	824000	824490	30.	100.	1.59	2.01	1.15	5.95	-37.19	-7.78	20.95
QMAX	9824500	824500	824490	60.	2550.	2.00	6.54	1.15	5.95	74.53	1.39	20.38
QMAX	9824590	824590	824500	60.	2780.	3.00	6.63	2.00	6.54	35.92	1.03	28.92
QMAX	1824600	824600	824590	48.	110.	3.50	6.63	3.00	6.63	35.13	1.19	28.88
QMAX	9824650	824650	824600	84.	2250.	5.00	6.63	3.50	6.63	18.26	-1.12	13.58
QMAX	9825100	825100	82510	144.	500.	-4.00	2.01	-4.00	2.00	785.90	0.57	17.15
QMAX	1825200	825200	825100	144.	125.	-4.00	2.09	-4.00	2.01	504.79	2.09	17.85
QMAX	9825610	825610	825600	133.	2550.	-3.60	2.26	-4.00	2.23	299.90	0.71	16.53
QMAX	1825650	825650	826190	140.	475.	-4.00	2.16	-4.00	2.09	602.23	1.99	14.03
QMAX	9825650	825650	825600	168.	825.	-4.00	2.16	-4.00	2.23	-594.14	-1.39	13.95
QMAX	9825653	825653	825650	97.	2050.	-1.05	2.16	-4.00	2.16	38.88	0.12	26.10
QMAX	1825655	825653	825655	24.	200.	-1.05	2.16	-1.29	2.26	-7.81	-1.42	14.93
QMAX	9825615	825615	825655	96.	650.	-1.00	2.26	-1.29	2.26	12.20	0.07	10.95
QMAX	9825616	825615	825610	126.	235.	-3.00	2.26	-3.60	2.26	297.71	0.74	16.55
QMAX	1825700	825700	825615	24.	150.	3.00	6.79	1.50	2.26	15.55	5.25	19.48
QMAX	9825620	825620	825615	144.	1580.	1.20	4.05	-3.00	2.26	288.16	2.73	16.65
QMAX	1825630	825630	825620	96.	121.	1.20	4.52	1.20	4.05	144.10	3.89	16.60
QMAX	2825630	825630	825620	96.	121.	1.20	4.52	1.20	4.05	144.10	3.89	16.60
QMAX	1825800	825800	825630	72.	320.	3.63	5.97	3.58	4.52	131.34	4.54	15.77
QMAX	2825800	825800	825630	72.	320.	3.63	5.97	3.58	4.52	131.34	4.54	15.77
QMAX	9825900	825900	825800	144.	680.	4.00	6.30	3.63	5.97	76.95	1.71	14.25

QMAX	9825220	825220	825200	120.	5910.	4.00	5.52	-4.00	2.09	103.83	0.49	18.00
QMAX	9825410	825410	825220	120.	810.	6.10	7.35	4.00	5.52	96.71	1.98	17.47
QMAX	1825420	825420	825410	36.	129.	6.30	13.14	6.10	7.35	44.11	8.90	17.45
QMAX	9825430	825430	825420	120.	1170.	6.50	13.22	6.30	13.14	96.74	1.00	17.40
QMAX	9825429	825429	825630	120.	1700.	8.00	9.66	3.50	4.52	38.37	2.34	17.52
QMAX	1825500	825500	825430	30.	125.	9.41	13.60	8.82	13.22	33.64	6.95	15.03
QMAX	9825230	825230	825200	192.	5900.	4.00	5.80	-4.00	2.09	95.63	0.60	15.88
QMAX	1825230	825230	825220	54.	340.	4.00	5.80	4.00	5.52	12.04	2.83	16.48
QMAX	1825300	825300	825230	60.	110.	4.00	7.06	4.00	5.80	106.54	5.49	15.68
QMAX	9825390	825390	825300	192.	845.	4.00	7.16	4.00	7.06	95.48	0.99	20.75
QMAX	1825400	825400	825390	36.	135.	5.50	13.67	4.00	7.16	95.46	13.31	20.65
QMAX	9826150	826150	82615	84.	500.	-4.00	2.05	-4.00	2.00	1413.91	1.08	13.12
QMAX	9826190	826190	826150	120.	1450.	-4.00	2.09	-4.00	2.05	602.87	0.93	14.10
QMAX	9826200	826200	82620	84.	500.	-3.50	2.05	-3.50	2.00	1991.24	1.66	12.53
QMAX	9826245	826245	826200	122.	7150.	-3.20	2.27	-3.50	2.05	536.26	0.86	15.55
QMAX	1826250	826250	826245	144.	240.	-3.17	2.85	-3.20	2.27	535.88	5.18	15.38
QMAX	9826290	826290	826250	96.	5140.	0.00	2.96	-3.17	2.85	383.78	0.83	20.05
QMAX	1826295	826295	826290	54.	180.	6.00	14.76	3.00	2.96	166.53	10.73	19.93
QMAX	1826400	826400	826295	30.	120.	8.38	15.13	7.59	14.76	39.97	8.10	16.83
QMAX	2826400	826400	826295	42.	120.	8.14	15.13	7.68	14.76	90.04	9.37	16.92
QMAX	1826300	826300	826290	84.	320.	1.00	3.44	0.00	2.96	51.66	3.95	14.82
QMAX	9826305	826305	826300	120.	485.	1.40	3.81	1.00	3.44	34.16	1.64	15.23
QMAX	1826310	826310	826305	72.	120.	1.50	4.10	1.40	3.81	34.17	3.07	15.05
QMAX	9826315	826315	826310	120.	595.	2.00	4.37	1.50	4.10	34.20	1.29	14.87
QMAX	1826320	826320	826315	60.	340.	2.50	5.13	2.20	4.37	34.25	4.28	14.67
QMAX	9826325	826325	826320	120.	260.	6.00	7.02	2.50	5.13	34.26	1.81	14.57
QMAX	1826350	826350	826325	36.	300.	8.12	10.89	6.88	7.02	34.26	5.87	14.53
QMAX	9826450	826450	82645	78.	500.	-3.50	2.06	-3.50	2.00	2060.15	1.72	12.73
QMAX	9826500	826500	826450	126.	2950.	-3.50	2.49	-3.50	2.06	1168.76	1.82	20.73
QMAX	1826550	826550	826500	120.	195.	-2.00	2.49	-3.50	2.49	522.02	1.97	13.27
QMAX	9826560	826560	826500	114.	4950.	-2.53	3.06	-3.50	2.49	1130.05	1.65	20.18
QMAX	1826570	826570	826560	72.	100.	-2.02	5.89	-2.53	3.06	318.09	11.42	19.88
QMAX	2826570	826560	826570	72.	100.	-1.99	3.06	-2.62	5.89	-294.74	-10.97	20.05
QMAX	3826570	826560	826570	72.	100.	-2.07	3.06	-2.55	5.89	-298.85	-11.05	20.05
QMAX	9826600	826600	826570	108.	1210.	-1.00	7.56	-2.62	5.89	1132.09	4.89	20.02
QMAX	9826640	826640	826600	106.	4055.	2.20	9.92	-1.00	7.56	1047.47	2.57	18.85
QMAX	1826650	826650	826640	96.	116.	2.20	10.21	2.20	9.92	362.99	3.93	17.80
QMAX	2826650	826650	826640	96.	116.	2.20	10.21	2.20	9.92	362.99	3.93	17.80
QMAX	3826650	826650	826640	96.	116.	2.20	10.21	2.20	9.92	362.99	3.93	17.80
QMAX	9826665	826665	826650	112.	715.	2.64	10.86	2.20	10.21	1080.06	2.96	17.52
QMAX	9826685	826685	826665	96.	650.	8.98	11.03	4.00	10.86	89.13	-2.74	18.43
QMAX	1826700	826700	826685	30.	380.	9.28	14.28	8.98	11.03	26.90	6.27	19.87
QMAX	1826750	826750	826665	96.	340.	2.64	11.16	2.64	10.86	538.34	4.08	17.23
QMAX	2826750	826750	826665	96.	340.	2.64	11.16	2.64	10.86	538.34	4.08	17.23
QMAX	9826780	826780	826750	120.	1460.	8.03	14.16	2.64	11.16	818.31	5.03	16.62
QMAX	1826850	826780	826850	48.	100.	8.68	14.16	8.27	16.53	-100.42	-8.28	14.68
QMAX	2826850	826850	826780	48.	100.	8.31	16.53	8.03	14.16	105.53	8.64	14.37
QMAX	9826855	826855	826850	120.	2120.	17.50	22.82	8.27	16.53	488.18	4.37	15.37
QMAX	1826860	826860	826855	43.	100.	18.00	25.36	17.50	22.82	91.23	9.16	13.35
QMAX	9826865	826865	826860	120.	2080.	29.00	35.27	18.00	25.36	488.26	5.89	15.32
QMAX	1826900	826900	826865	48.	240.	29.50	37.14	29.00	35.27	109.94	8.60	13.60
QMAX	2826900	826900	826865	48.	240.	29.50	37.14	29.00	35.27	109.94	8.60	13.60
QMAX	9826940	826940	826900	180.	1900.	41.00	43.56	29.50	37.14	335.73	1.09	15.35
QMAX	1826950	826950	826940	48.	304.	41.10	47.34	41.00	43.56	168.02	8.52	15.25
QMAX	2826950	826950	826940	48.	304.	41.10	47.34	41.00	43.56	168.02	8.52	15.25
QMAX	9826790	826790	826750	120.	4810.	27.50	30.32	2.64	11.16	169.23	1.99	15.00
QMAX	1826800	826800	826790	48.	140.	28.00	34.08	27.50	30.32	82.17	7.45	14.90
QMAX	2826800	826800	826790	48.	140.	28.00	34.08	27.50	30.32	82.17	7.45	14.90
QMAX	9826970	826970	826850	120.	1170.	8.50	16.82	8.27	16.53	305.05	-2.08	17.52

QMAX	9826980	826980	826970	120.	1525.	10.00	17.74	8.50	16.82	245.45	2.56	16.43
QMAX	1826990	826990	826980	54.	340.	10.50	19.20	10.00	17.74	117.75	7.38	24.13
QMAX	9829000	829000	82900	48.	500.	-1.00	2.29	-1.00	2.00	1886.01	2.86	13.53
QMAX	9829100	829100	829000	60.	450.	1.70	2.86	-1.00	2.29	21.76	0.09	15.38
QMAX	9829190	829190	829000	84.	1600.	-1.00	2.34	-1.00	2.29	89.45	0.87	20.23
QMAX	1829200	829200	829190	29.	100.	0.00	4.90	-1.00	2.34	64.57	8.99	20.13
QMAX	2829200	829200	829190	24.	100.	0.00	4.90	-1.00	2.34	24.84	7.86	20.13
QMAX	9829400	829400	82940	84.	500.	-4.00	2.04	-4.00	2.00	402.31	0.47	13.95
QMAX	9829410	829410	829400	120.	1100.	-3.90	2.04	-4.00	2.04	222.84	0.71	18.63
QMAX	1829450	829450	829410	132.	200.	-3.81	2.07	-3.90	2.04	222.82	1.64	18.65
QMAX	9829500	829500	829450	133.	1350.	-3.50	2.35	-3.81	2.07	222.80	1.67	18.67
QMAX	9829300	829300	82930	48.	500.	-1.50	2.19	-1.50	2.00	1920.75	2.53	12.75
QMAX	9829501	829500	829300	85.	1400.	-1.10	2.35	-1.50	2.19	143.92	1.24	18.60
QMAX	9829510	829510	829500	120.	1750.	-1.00	2.36	-1.10	2.35	15.96	0.18	20.67
QMAX	1829600	829600	829510	30.	260.	-0.50	2.65	-1.00	2.36	15.74	3.20	20.38

	WEIR_ID	FROM	TO	ZCREST	ZU	ZD	ZMAXU	QMAX	ZMAXD	TMAX
QWEIR	7821200	821200	821190	7.50	-4.50	-4.50	6.07	0.00	5.28	0.0
QWEIR	7821300	821300	821290	10.60	0.87	0.87	8.46	0.00	6.35	0.0
QWEIR	7821400	821400	821390	14.90	9.00	8.00	12.96	0.00	11.56	0.0
QWEIR	7821500	821500	821490	26.20	20.50	19.00	26.44	30.65	21.36	14.2
QWEIR	7822050	822050	822000	4.50	0.50	-2.10	4.69	21.74	2.01	15.0
QWEIR	7822100	822100	822000	6.50	-2.10	-2.10	3.86	0.00	2.01	0.0
QWEIR	7822200	822200	822190	6.50	-1.00	-2.00	4.29	0.00	3.91	0.0
QWEIR	7822250	822250	822110	6.08	-1.10	-1.10	4.86	0.00	4.15	0.0
QWEIR	7822300	822300	822290	12.00	-0.65	-0.65	8.14	0.00	6.19	0.0
QWEIR	7822400	822400	822390	12.50	1.50	1.00	11.68	0.00	7.02	0.0
QWEIR	7822420	822420	822410	12.50	3.00	2.80	12.52	0.49	11.68	25.3
QWEIR	7822500	822500	822490	15.40	5.00	4.00	13.96	0.00	12.53	0.0
QWEIR	7823100	823100	823000	6.50	-2.00	-2.00	5.14	0.00	2.06	0.0
QWEIR	7823180	823180	823170	6.00	1.17	-0.50	5.45	0.00	5.22	0.0
QWEIR	7823190	823190	823180	6.00	0.09	1.17	5.96	0.00	5.45	0.0
QWEIR	7823200	823200	823190	6.00	0.22	0.09	6.28	39.86	5.96	21.6
QWEIR	7823300	823300	823290	9.00	3.00	1.40	7.25	0.00	6.96	0.0
QWEIR	7823400	823400	823390	9.80	3.60	3.30	10.20	66.23	8.46	17.0
QWEIR	7824080	824080	824000	6.50	-1.01	-2.54	2.65	0.00	2.01	0.0
QWEIR	7824100	824100	824085	5.50	0.30	0.30	3.50	0.00	2.73	0.0
QWEIR	7824112	824112	824111	6.00	1.40	1.25	4.34	0.00	4.24	0.0
QWEIR	7824200	824200	824110	9.30	3.60	3.40	5.97	0.00	4.57	0.0
QWEIR	7824300	824300	824130	10.00	3.90	3.70	6.48	0.00	4.99	0.0
QWEIR	7824400	824400	824140	11.00	5.20	5.00	8.28	0.00	6.41	0.0
QWEIR	7824490	824490	824000	7.50	1.15	-2.54	5.95	0.00	2.01	0.0
QWEIR	7824600	824600	824590	12.50	3.50	3.00	6.63	0.00	6.63	0.0
QWEIR	7825200	825200	825100	10.00	-4.00	-4.00	2.09	0.00	2.01	0.0
QWEIR	7825300	825300	825230	12.00	4.00	4.00	7.06	0.00	5.80	0.0
QWEIR	7825400	825400	825390	15.00	5.50	4.00	13.67	0.00	7.16	0.0
QWEIR	7825420	825420	825410	12.80	6.30	6.10	13.14	52.64	7.35	17.4
QWEIR	6825430	825430	825429	12.40	6.50	8.00	13.22	38.92	9.66	17.4
QWEIR	7825500	825500	825430	13.00	9.41	6.50	13.60	120.58	13.22	17.4
QWEIR	6825600	825600	825200	4.80	-4.00	-4.00	2.23	0.00	2.09	0.0
QWEIR	7825630	825630	825620	13.50	1.20	1.20	4.52	0.00	4.05	0.0
QWEIR	7825655	825655	825653	6.80	-1.29	-1.05	2.26	0.00	2.16	0.0
QWEIR	7825700	825700	825615	9.20	3.00	-3.00	6.79	0.00	2.26	0.0
QWEIR	7825800	825800	825630	13.50	3.63	1.20	5.97	0.00	4.52	0.0
QWEIR	7826250	826250	826245	10.00	-3.17	-3.20	2.85	0.00	2.27	0.0
QWEIR	7826295	826295	826290	14.00	6.00	0.00	14.76	173.27	2.96	19.9
QWEIR	7826300	826300	826290	10.00	1.00	0.00	3.44	0.00	2.96	0.0
QWEIR	7826310	826310	826305	10.00	1.50	1.40	4.10	0.00	3.81	0.0
QWEIR	7826320	826320	826315	10.20	2.50	2.00	5.13	0.00	4.37	0.0
QWEIR	7826350	826350	826325	13.00	8.12	6.00	10.89	0.00	7.02	0.0

QWEIR	7826400	826400	826295	14.00	8.14	6.00	15.13	291.22	14.76	19.9
QWEIR	7826500	826500	826450	6.00	-3.50	-3.50	2.49	0.00	2.06	0.0
QWEIR	7826550	826550	826500	4.00	-2.00	-3.50	2.49	0.00	2.49	0.0
QWEIR	7826570	826570	826560	5.00	-2.62	-2.53	5.89	220.44	3.06	20.0
QWEIR	7826650	826650	826640	11.00	2.20	2.20	10.21	0.00	9.92	0.0
QWEIR	7826700	826700	826685	14.00	9.28	8.98	14.28	39.33	11.03	22.3
QWEIR	7826750	826750	826665	12.00	2.64	2.64	11.16	0.00	10.86	0.0
QWEIR	7826800	826800	826790	34.00	28.00	27.50	34.08	5.68	30.32	14.8
QWEIR	7826850	826850	826780	14.70	8.27	8.03	16.53	651.19	14.16	16.6
QWEIR	7826860	826860	826855	24.00	18.00	17.50	25.36	416.01	22.82	15.3
QWEIR	7826900	826900	826865	36.00	29.50	29.00	37.14	319.25	35.27	15.3
QWEIR	7826990	826990	826980	18.50	10.50	10.00	19.20	155.09	17.74	16.5
QWEIR	7829100	829100	829000	2.00	1.70	-1.00	2.86	209.15	2.29	15.4
QWEIR	7829200	829200	829190	5.00	0.00	-1.00	4.90	0.00	2.34	0.0
QWEIR	7829600	829600	829510	5.00	-0.50	-1.00	2.65	0.00	2.36	0.0
QWEIR	90225	82100	0	-2.00	-2.00	0.00	2.00	835.28	0.00	14.5
QWEIR	90226	82200	0	-2.50	-2.50	0.00	2.00	1392.65	0.00	15.9
QWEIR	90227	82300	0	-2.50	-2.50	0.00	2.00	592.19	0.00	13.2
QWEIR	90228	82400	0	-2.60	-2.60	0.00	2.00	1391.20	0.00	13.2
QWEIR	90229	82510	0	-4.00	-4.00	0.00	2.00	785.90	0.00	17.1
QWEIR	90230	82615	0	-4.00	-4.00	0.00	2.00	1413.91	0.00	13.1
QWEIR	90231	82620	0	-3.50	-3.50	0.00	2.00	1991.24	0.00	12.5
QWEIR	90232	82645	0	-3.50	-3.50	0.00	2.00	2060.15	0.00	12.7
QWEIR	90233	82900	0	-1.00	-1.00	0.00	2.00	1886.01	0.00	13.5
QWEIR	90234	82930	0	-1.50	-1.50	0.00	2.00	1920.75	0.00	12.8
QWEIR	90235	82940	0	-4.00	-4.00	0.00	2.00	402.31	0.00	13.9

ATTACHMENT 6

MODEL RESULT

COMPARISON TABLES

Model Results Comparison - 2.33 Year Event
Proposed RAI Model Results Minus Modified Existing Model Results
****Results compiled from the .smx model files.**

Existing Conditions Model Results		Magnitude of	*1 Indicates Positive	Proposed Conditions Model Results - RAI	
Junction	Stage	Stage Change	Stage Change	Junction	Stage
82400	2	0		82400	2
824000	2.01	0		824000	2.01
824080	2.04	0		824080	2.04
824085	2.08	-0.01		824085	2.07
824100	2.4	0		824100	2.4
824110	3.96	0		824110	3.96
				824111	2.86
				824112	2.9
824120	3	-0.04		824120	2.96
824130	4.32	0		824130	4.32
824140	5.61	0		824140	5.61
824200	4.9	0		824200	4.9
824300	5.3	0		824300	5.3
824400	6.65	0		824400	6.65
824490	3.52	0		824490	3.52
824500	4.65	0		824500	4.65
824590	4.92	0		824590	4.92
824600	4.92	0.01	1	824600	4.93
824650	5.46	0		824650	5.46

Model Results Comparison - 5 Year Event
Proposed RAI Model Results Minus Modified Existing Model Results
****Results compiled from the .smx model files.**

Existing Conditions Model Results				Proposed Conditions Model Results - RAI	
Junction	Stage	Magnitude of Stage Change	*1 Indicates Positive Stage Change	Junction	Stage
82400	2	0		82400	2
824000	2.01	0		824000	2.01
824080	2.08	-0.01		824080	2.07
824085	2.15	-0.01		824085	2.14
824100	2.64	0		824100	2.64
824110	4.07	0		824110	4.07
				824111	3.15
				824112	3.2
824120	3.3	-0.04		824120	3.26
824130	4.45	0		824130	4.45
824140	5.75	0		824140	5.75
824200	5.1	0		824200	5.1
824300	5.52	0		824300	5.52
824400	6.9	0		824400	6.9
824490	3.87	0		824490	3.87
824500	4.99	0		824500	4.99
824590	5.23	0		824590	5.23
824600	5.24	0		824600	5.24
824650	5.57	0		824650	5.57

Model Results Comparison - 10 Year Event
Proposed RAI Model Results Minus Modified Existing Model Results
****Results compiled from the .smx model files.**

Existing Conditions Model Results				Proposed Conditions Model Results - RAI	
Junction	Stage	Magnitude of Stage Change	*1 Indicates Positive Stage Change	Junction	Stage
82400	2	0		82400	2
824000	2.02	0		824000	2.02
824080	2.17	-0.02		824080	2.15
824085	2.28	-0.02		824085	2.26
824100	2.96	0		824100	2.96
824110	4.23	0		824110	4.23
				824111	3.53
				824112	3.59
824120	3.68	-0.03		824120	3.65
824130	4.62	0.01	1	824130	4.63
824140	5.94	0		824140	5.94
824200	5.37	0		824200	5.37
824300	5.81	0		824300	5.81
824400	7.23	0		824400	7.23
824490	4.42	0		824490	4.42
824500	5.43	0		824500	5.43
824590	5.64	0		824590	5.64
824600	5.64	0.01	1	824600	5.65
824650	5.71	0		824650	5.71

Model Results Comparison - 25 Year Event
Proposed RAI Model Results Minus Modified Existing Model Results
****Results compiled from the .smx model files.**

Existing Conditions Model Results		Magnitude of Stage Change	*1 Indicates Positive Stage Change	Proposed Conditions Model Results - RAI	
Junction	Stage			Junction	Stage
82400	2	0		82400	2
824000	2.01	0		824000	2.01
824080	2.28	-0.03		824080	2.25
824085	2.38	-0.03		824085	2.35
824100	3.11	-0.01		824100	3.1
824110	4.33	0		824110	4.33
				824111	3.75
				824112	3.81
824120	3.91	-0.02		824120	3.89
824130	4.74	0		824130	4.74
824140	6.1	0		824140	6.1
824200	5.54	0		824200	5.54
824300	6	0		824300	6
824400	7.51	0		824400	7.51
824490	4.83	0		824490	4.83
824500	5.73	0		824500	5.73
824590	5.91	0		824590	5.91
824600	5.91	0		824600	5.91
824650	5.91	0		824650	5.91

Model Results Comparison - 50 Year Event
Proposed RAI Model Results Minus Modified Existing Model Results
****Results compiled from the .smx model files.**

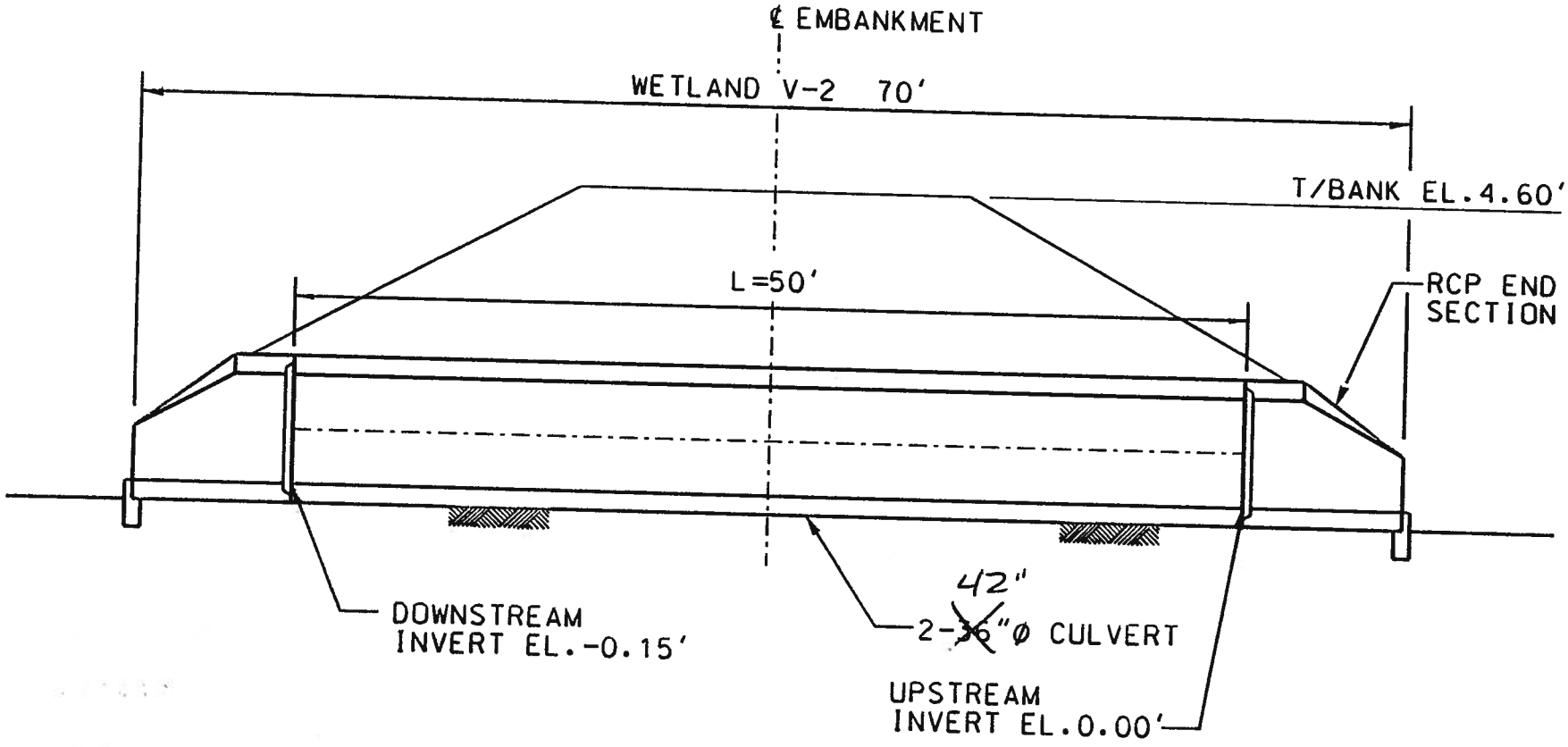
Existing Conditions Model Results		Magnitude of	*1 Indicates Positive	Proposed Conditions Model Results - RAI	
Junction	Stage	Stage Change	Stage Change	Junction	Stage
82400	2	0		82400	2
824000	2.01	0		824000	2.01
824080	2.54	-0.07		824080	2.47
824085	2.62	-0.06		824085	2.56
824100	3.37	-0.01		824100	3.36
824110	4.49	0		824110	4.49
				824111	4.06
				824112	4.14
824120	4.24	-0.02		824120	4.22
824130	4.91	0		824130	4.91
824140	6.27	0		824140	6.27
824200	5.83	0		824200	5.83
824300	6.31	0		824300	6.31
824400	7.86	0		824400	7.86
824490	5.59	0		824490	5.59
824500	6.27	0		824500	6.27
824590	6.39	0		824590	6.39
824600	6.39	0		824600	6.39
824650	6.39	0		824650	6.39

Model Results Comparison - 100 Year Event
Proposed RAI Model Results Minus Modified Existing Model Results
****Results compiled from the .smx model files.**

Existing Conditions Model Results		Magnitude of Stage Change	*1 Indicates Positive Stage Change	Proposed Conditions Model Results - RAI	
Junction	Stage			Junction	Stage
82400	2	0		82400	2
824000	2.01	0		824000	2.01
824080	2.75	-0.1		824080	2.65
824085	2.81	-0.08		824085	2.73
824100	3.51	-0.01		824100	3.5
824110	4.57	0		824110	4.57
				824111	4.24
				824112	4.34
824120	4.43	-0.01		824120	4.42
824130	4.99	0		824130	4.99
824140	6.41	0		824140	6.41
824200	5.97	0		824200	5.97
824300	6.48	0		824300	6.48
824400	8.28	0		824400	8.28
824490	5.95	0		824490	5.95
824500	6.54	0		824500	6.54
824590	6.63	0		824590	6.63
824600	6.63	0		824600	6.63
824650	6.63	0		824650	6.63

ATTACHMENT 7

REVISED FIGURE 14



C-7 LOOKING NORTH

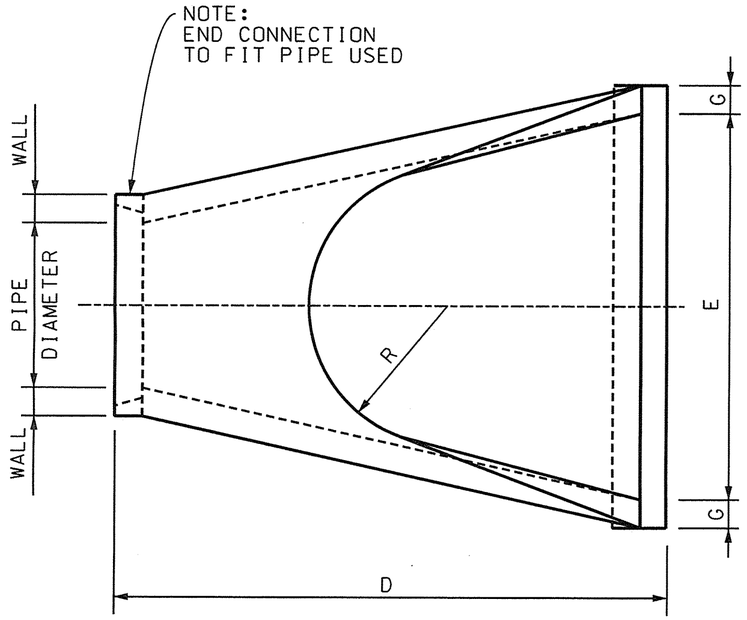
N.T.S.
ELEVATIONS IN NAVD 88

C. J. Nelson
3/29/2012

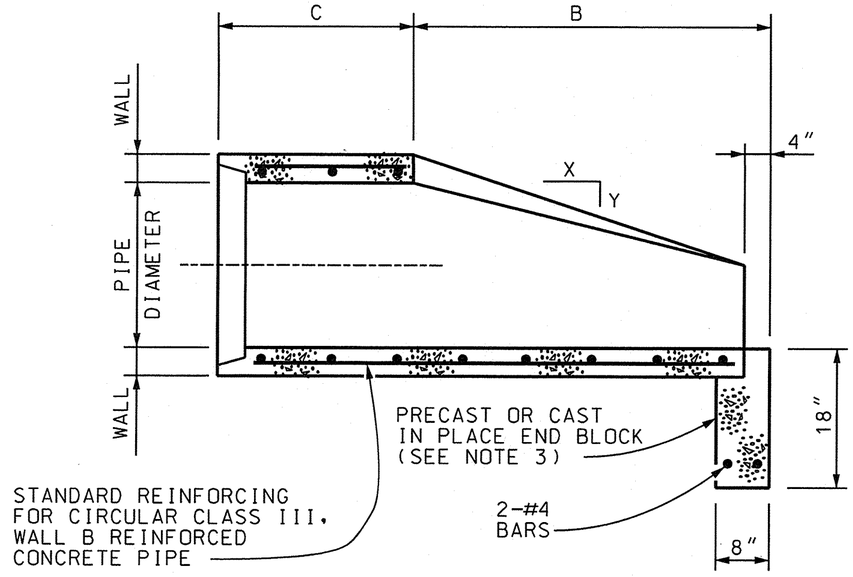
FIGURE 14
CULVERT DESIGN C-7
TAMPA ELECTRIC COMPANY
BIG BEND POWER STATION GYPSUM RELOCATION PROJECT
SOURCE: SARGENT & LUNDY,LLC,2012;ECT,2012

CHARLES J. NELSON
#52508

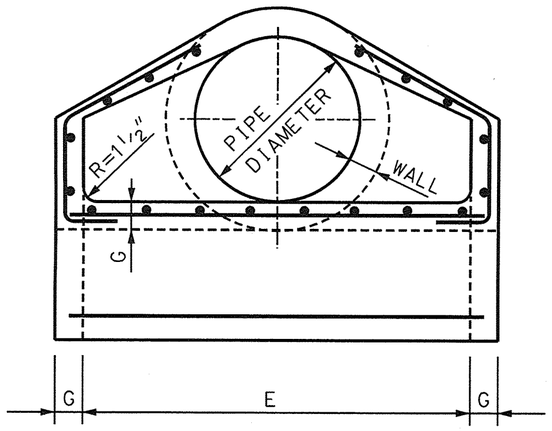
TECO
TAMPA ELECTRIC



PLAN



LONGITUDINAL SECTION



END VIEW

NOTES:

(1) PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS IV, WALL B REINFORCED CONCRETE PIPE.

(2) PRECAST CONCRETE FLARED END SECTION FOR PIPE DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.

(3) THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION.

(4) INSTALL GRATING FOR CONCRETE FLARED END SECTION FOR ALL END SECTIONS.

END SECTION FOR CONCRETE PIPE
DETAIL YSK-11-2-01

N.T.S.

PIPE DIA.	APPROX. WT. (lbs)	WALL	A	B	C	D	E	G	R	SLOPE
18"	990	2½"	9"	2'-3"	3'-10"	6'-1"	3'-0"	2½"	12"	3:1
21"	1280	2¾"	9"	2'-11"	3'-2"	6'-1"	3'-6"	2¾"	13"	3:1
24"	1520	3"	9½"	3'-7½"	2'-6"	6'-1½"	4'-0"	3"	14"	3:1
30"	2490	3½"	1'-0"	4'-6"	1'-7⅛"	6'-1⅛"	5'-0"	3½"	15"	3:1
42"	5580	4½"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	4½"	22"	3:1

ISSUED FOR AGENCY REVIEW

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

HOLD INFORMATION

NO.	DESCRIPTION

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

RELEASE INFORMATION

REV.	DATE	DESCRIPTION
A	03-29-2012	ISSUED FOR AGENCY REVIEW
B	10-05-2012	ISSUED FOR AGENCY REVIEW
C	12-10-2012	ISSUED FOR AGENCY REVIEW

ISSUE PURPOSE: REVIEW
SPECIFICATION: T-5705
PROJECT NO.: 12877-001

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

PAUL HOORNAERT
12-10-2012

MY LICENSE RENEWAL DATE IS: 02-28-2013
PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.

CERTIFICATE OF AUTHORIZATION 00006938

CAD FILE NAME: B2741-YSK-11-2.DGN
PREPARED BY: C. FLAMINI
REVIEWED BY: J. PERRY
APPROVED BY: P. HOORNAERT

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CHICAGO, ILLINOIS 60603-5780

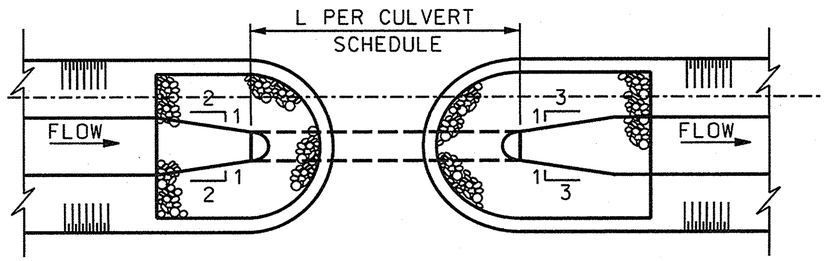
TECO
TAMPA ELECTRIC

PROJECT
GYPSUM HANDLING SYSTEM
UNITS 1, 2, 3 & 4

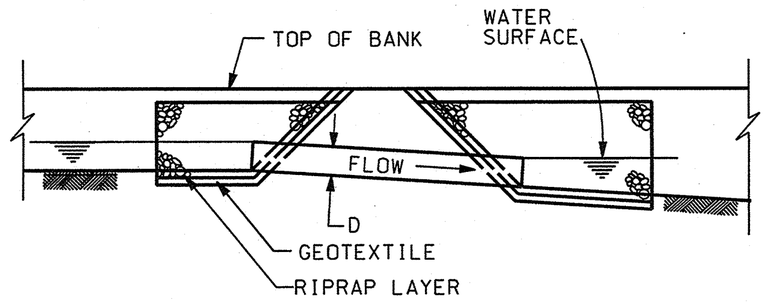
BIG BEND POWER STATION
TAMPA ELECTRIC CO

DRAWING TITLE
STORMWATER DRAINAGE DETAILS

DRAWING NUMBER	REVISION
B2741-YSK-11-2	C
SHEET 2 OF 3	



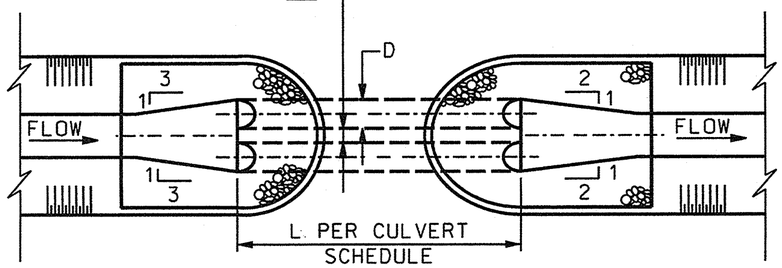
PLAN



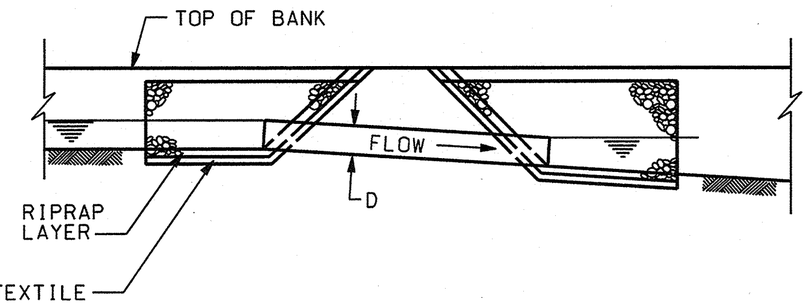
SINGLE CULVERT
DETAIL YSK-11-03

CULVERTS

MINIMUM SPACE BETWEEN PIPES INCHES	DIA. (D) INCHES
12"	24"
1/2 D	30" TO 42"



PLAN



DOUBLE CULVERT
DETAIL YSK-11-04

CULVERT SCHEDULE

CULVERT NO.	MATERIAL	DWG. NO. (PLAN)	UP-STREAM INVERT	DOWN-STREAM INVERT	SIZE (IN)	LENGTH, L (FT.)	DETAIL NO.
C-1	RCP CLASS IV	YSK-5-2	1.80	1.00	24	50	YSK-11-03
C-2	RCP CLASS IV	YSK-5-2	-0.20	-0.40	24	90	YSK-11-03
C-3	RCP CLASS IV	YSK-5-4	-0.40	-0.55	24	50	YSK-11-03
C-4	RCP CLASS IV	YSK-5-4	0.40	0.00	2x24	90	YSK-11-04
C-5	RCP CLASS IV	YSK-5-5	0.80	0.50	2x24	50	YSK-11-04
C-6	RCP CLASS IV	YSK-5-5	1.90	1.60	24	50	YSK-11-03
C-7	RCP CLASS IV	YSK-5-8	0.00	-0.15	2x42	50	YSK-11-04
C-8	RCP CLASS IV	YSK-5-8	4.10	4.00	24	75	YSK-11-03

* ALL SHWT ELEVATIONS ARE BASED ON GEORGE F. YOUNG WETLAND SURVEY 04/26/2011.

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REVIEWED BY: J. PERRY
APPROVED BY: P. HOORNAERT

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SARGENT & LUNDY LLC
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CHICAGO, ILLINOIS 60603-5780

TECO
TAMPA ELECTRIC

PROJECT

GYPSUM HANDLING SYSTEM UNITS 1, 2, 3 & 4

BIG BEND POWER STATION TAMPA ELECTRIC CO

DRAWING TITLE

STORMWATER DRAINAGE DETAILS

DRAWING NUMBER	REVISION
B2741-YSK-11-3	C
SHEET 3 OF 3	

ATTACHMENT 8

REVISED FIGURES 1 AND 2

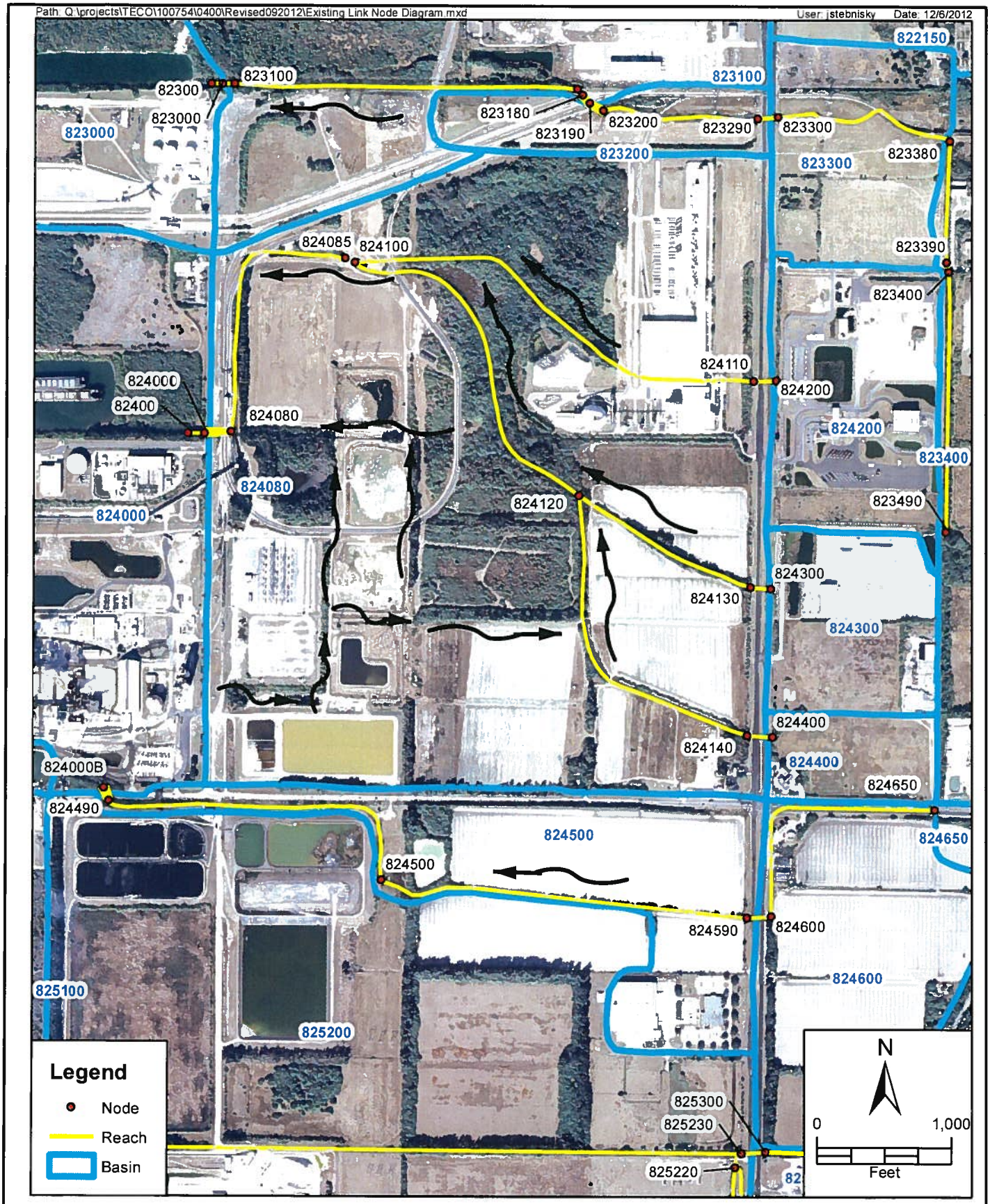


FIGURE 1.
EXISTING LINK NODE DIAGRAM/BASIN DELINEATION
TAMPA ELECTRIC COMPANY
BIG BEND POWER STATION GYPSUM STORAGE AREA/CONVEYOR IMPROVEMENTS PROJECT
HILLSBOROUGH COUNTY, FLORIDA

Sources: SWFWMD Aerial Photography, 2012, ECT, 2012

TECO
TAMPA ELECTRIC

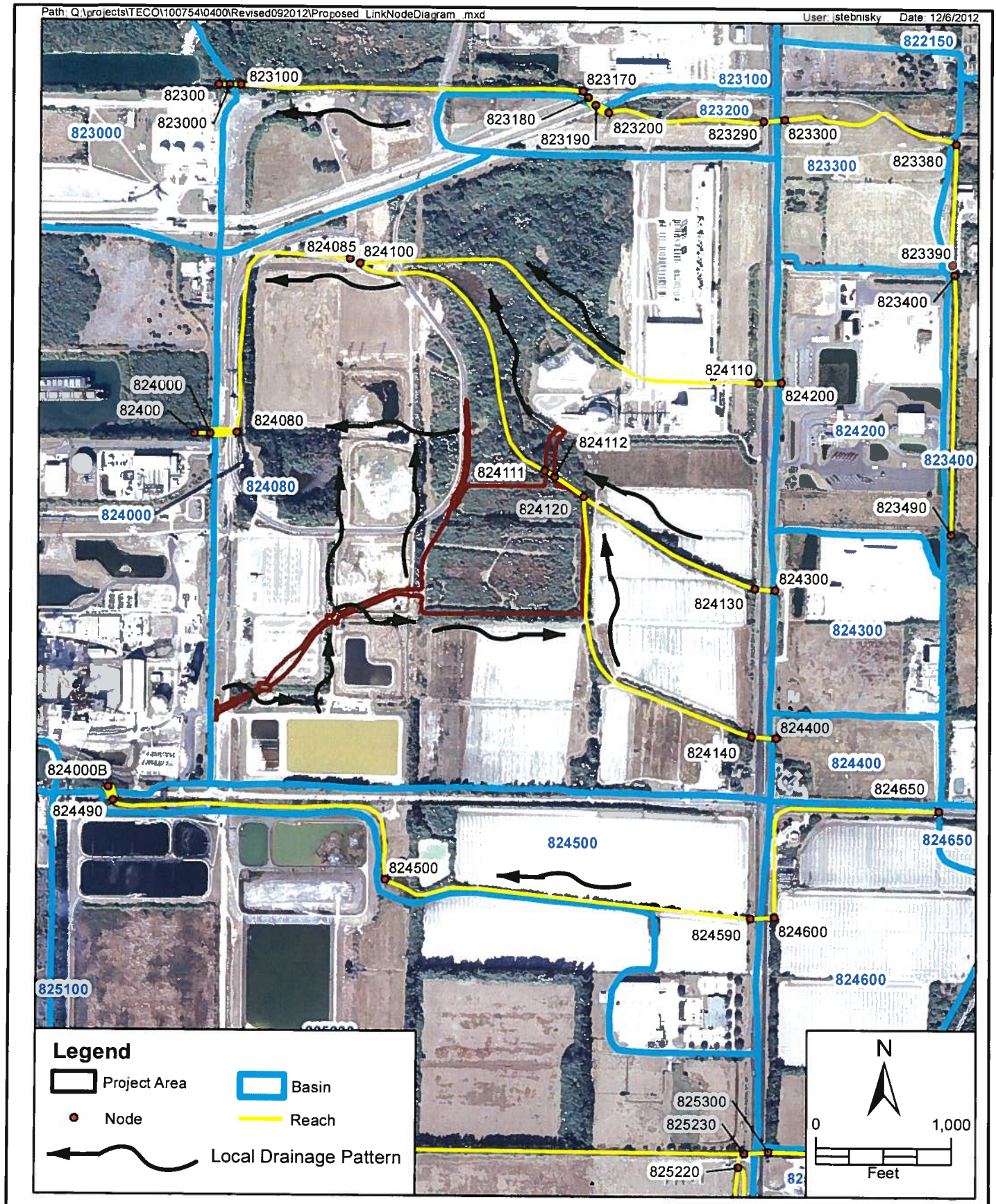


FIGURE 2.
PROPOSED LINK NODE DIAGRAM/BASIN DELINEATION
TAMPA ELECTRIC COMPANY
BIG BEND POWER STATION GYPSUM STORAGE AREA/CONVEYOR IMPROVEMENTS PROJECT
HILLSBOROUGH COUNTY, FLORIDA

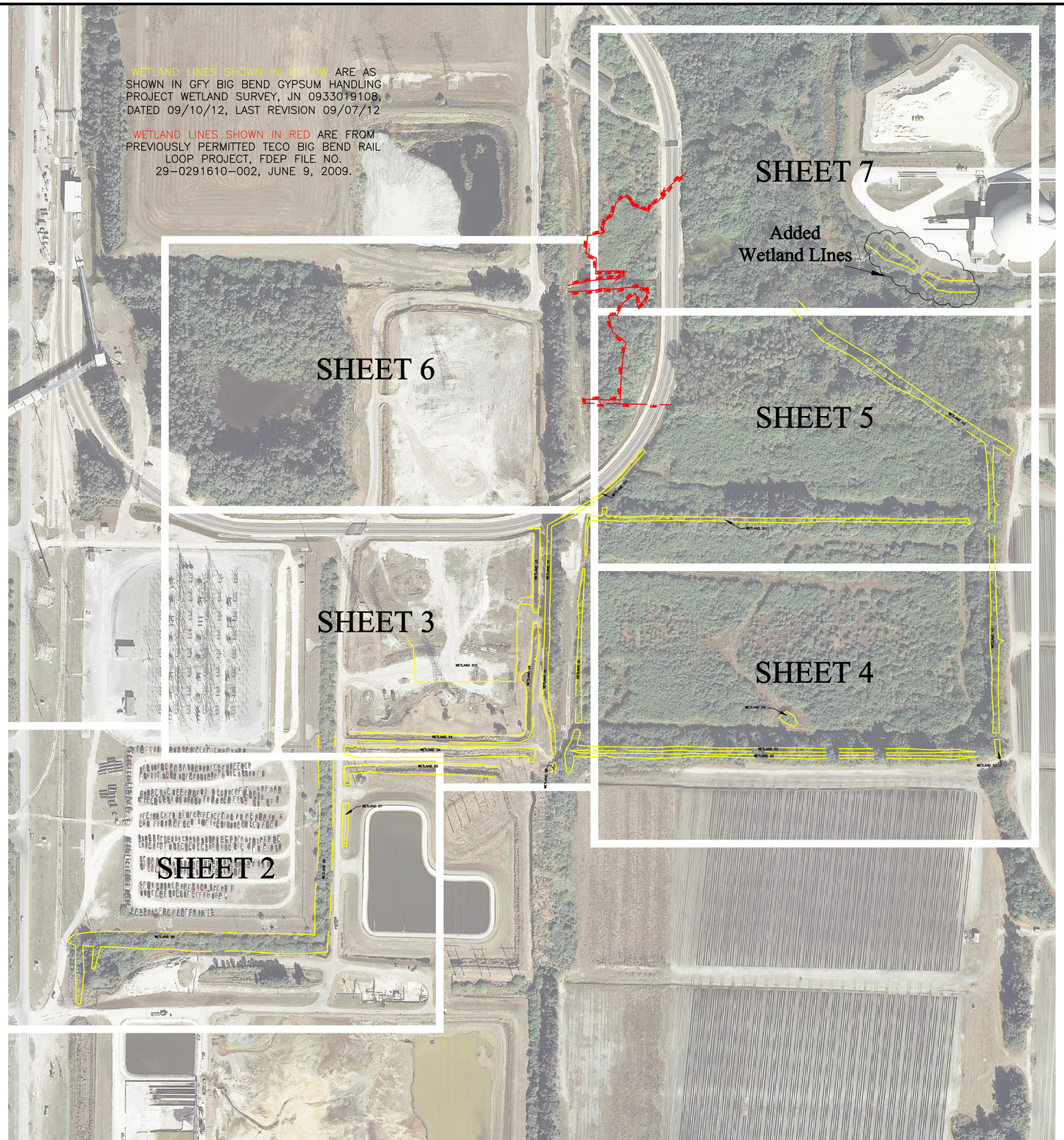
Sources: SWFWMD Aerial Photography, 2012; ECT, 2012

TECO
TAMPA ELECTRIC

ATTACHMENT 9

WETLAND SURVEY

Flag	Northing	Easting	Flag	Northing	Easting	Flag	Northing	Easting
D-1	1260227.77	530508.52	S3 3	1258899.39	530568.08	S11 B20	1259535.82	530334.51
D-2	1260228.45	530474.15	S3 4	1258913.66	530567.45	S11 B21	1259534.13	530396.88
D-3	1260228.07	530446.93	S3 5	1258915.96	530581.79	S11 B22	1259536.77	530485.38
D-4	1260235.01	530406.34	S3 6	1258899.75	530582.96	S11 B23 END	1259530.97	530497.98
D-5	1260247.62	530386.87	S3 7	1258882.48	530583.58	S12 A1	1259738.66	529565.55
D-6	1260253.29	530370.45	S3 8	1258869.18	530584.76	S12 A2	1259701.29	529532.26
D-7	1260238.17	530358.15	S4 A1	1258849.38	529246.21	S12 A3	1259663.45	529500.47
D-8	1260222.73	530380.15	S4 A1A	1258848.91	529233.57	S12 A4	1259625.21	529458.48
D-9	1260202.86	530400.62	S4 A2	1258865.33	529230.98	S12 A5	1259593.97	529417.37
D-10	1260195.83	530440.65	S4 A3	1258864.75	529174.62	S12 A6	1259558.91	529364.77
D-11	1260195.81	530485.56	S4 A4	1258864.13	529097.47	S12 B1	1259745.40	529559.49
D-12	1260196.23	530513.43	S4 A5	1258860.22	529026.10	S12 B2	1259703.08	529522.15
D-13	1260341.41	530255.52	S4 A6	1258862.58	528951.51	S12 B3	1259670.19	529495.03
D-14	1260315.12	530287.55	S4 A7	1258861.51	528866.86	S12 B4	1259629.02	529449.98
D-15	1260299.59	530310.64	S4 A8	1258861.91	528803.21	S12 B5	1259598.35	529408.94
D-16	1260287.08	530328.46	S4 A9	1258861.29	528741.08	S12 B6	1259569.07	529359.13
D-17	1260269.17	530348.86	S4 A10	1258873.38	528703.29	S12 B7	1259528.47	529285.94
D-18	1260254.91	530337.36	S4 B1	1258885.27	529253.94	TOB1	1259763.17	530519.97
D-19	1260266.55	530319.33	S4 B2	1258888.74	529223.94	TOB2	1259852.43	530404.33
D-20	1260282.09	530275.70	S4 B3	1258889.70	529174.51	TOB3	1259885.84	530359.08
D-21	1260280.51	530261.39	S4 B4	1258894.34	529101.47	TOB4	1259927.89	530274.03
D-22	1260308.55	530232.08	S4 B5	1258891.27	529027.86	TOB5	1259988.67	530191.49
D-23	1260323.78	530212.66	S4 B6	1258896.25	528953.65	TOB6	1260009.83	530162.56
D-24	1260333.99	530196.13	S4 B7	1258893.09	528869.15	TOB7	1260056.75	530072.81
J1	1260196.67	529344.42	S4 B8	1258895.78	528803.72	TOB8	1260150.79	529984.81
J9	1260214.53	529343.89	S4 B9	1258894.64	528741.84	V1 A1	1259523.74	529298.25
P2C	1260536.73	529681.59	S4 B10	1258893.55	528705.63	V1 A2	1259441.98	529296.17
Q1	1260223.17	529381.94	S5 A1	1258785.00	528719.79	V1 A3	1259355.71	529295.02
Q1A	1260198.65	529384.57	S5 A2	1258815.76	528721.46	V1 A4	1259284.08	529292.10
Q1AA	1260523.84	529665.17	S5 A3	1258820.22	528774.55	V1 A5	1259201.32	529292.63
Q1B	1260504.56	529640.85	S5 A4	1258815.10	528828.35	V1 A6	1259133.68	529287.75
Q2	1260229.76	529415.53	S5 A5	1258813.78	528875.30	V1 A7	1259028.30	529288.73
Q2A	1260201.40	529422.67	S5 A6	1258814.65	528934.90	V1 A8	1258936.15	529307.45
Q2B	1260485.62	529624.35	S5 A7	1258812.70	529001.30	V1 A9	1258857.52	529308.86
Q3	1260232.83	529452.46	S5 A8	1258808.66	529089.21	V1 B1	1259520.92	529285.37
Q3A	1260206.48	529439.38	S5 A9 END	1258806.21	529138.67	V1 B2	1259441.26	529283.65
Q3B	1260455.77	529602.78	S5 B1	1258784.91	528704.49	V1 B3	1259356.12	529280.89
Q4	1260235.27	529479.23	S5 B2	1258833.83	528702.64	V1 B4	1259288.80	529279.27
Q4A	1260203.95	529475.44	S5 B3	1258843.57	528776.42	V1 B5	1259205.89	529277.10
Q4B	1260447.27	529586.56	S5 B4	1258843.08	528830.53	V1 B6	1259134.87	529273.74
Q5	1260251.09	529497.35	S5 B5	1258846.58	528933.57	V1 B7	1259035.27	529271.67
Q5A	1260209.16	529513.16	S5 B7	1258845.33	528999.78	V1 B8	1258933.45	529294.85
Q5B	1260427.03	529574.77	S5 B8	1258843.17	529093.21	V1 B9	1258869.97	529299.83
Q6	1260257.41	529497.69	S5 B9 END	1258835.31	529145.91	V2 A1	1258932.48	530562.24
Q6A	1260209.89	529552.63	S6 A1	1258926.89	528629.69	V2 A2	1258986.05	530563.97
Q6B	1260438.58	529545.57	S6 A2	1258814.19	528629.64	V2 A3	1259049.64	530559.30
Q7	1260256.74	529479.13	S6 A3	1258697.54	528633.42	V2 A4	1259116.06	530560.08
Q7A	1260207.45	529566.90	S6 A4	1258587.73	528628.38	V2 A5	1259196.67	530553.70
Q7B	1260443.90	529529.67	S6 A5	1258448.89	528619.41	V2 A6	1259296.81	530557.26
Q8	1260255.73	529439.02	S6 A6	1258352.71	528618.49	V2 A7	1259356.88	530554.87
Q8A	1260189.37	529571.42	S6 A7	1258355.10	528585.69	V2 A8	1259459.42	530552.51
Q8B	1260457.00	529522.28	S6 A8	1258356.70	528514.39	V2 A9	1259584.89	530551.16
Q9	1260256.06	529424.43	S6 A9	1258357.80	528418.75	V2 A10	1259679.50	530548.38
Q9	1260472.34	529510.38	S6 A10	1258362.97	528261.91	V2 B1	1258931.75	530581.02
Q9A	1260164.45	529556.93	S6 A11	1258362.05	528213.36	V2 B2	1258980.20	530579.88
Q10	1260293.48	529426.03	S6 A12	1258362.13	528098.68	V2 B3	1259049.49	530577.61
Q10A	1260154.02	529544.19	S6 A13	1258363.26	528017.09	V2 B4	1259122.78	530578.82
Q10B	1260452.08	529481.89	S6 A14	1258360.10	527967.72	V2 B5	1259185.90	530580.06
Q11	1260307.61	529395.77	S6 A15	1258354.69	527933.38	V2 B5A	1259196.48	530593.58
Q11A	1260192.86	529538.87	S6 A16 END	1258345.26	527915.66	V2 B5B	1259201.43	530578.26
Q11B	1260412.79	529471.68	S6 B1	1258932.27	528677.90	V2 B6	1259294.33	530572.80
Q12	1260402.58	529453.61	S6 B2	1258818.42	528671.55	V2 B7	1259358.24	530571.16
Q12A	1260166.47	529503.36	S6 B3	1258709.39	528671.03	V2 B8	1259454.18	530567.20
Q13	1260384.19	529446.04	S6 B4	1258583.34	528669.42	V2 B9	1259578.69	530568.39
Q13A	1260179.16	529485.43	S6 B5	1258454.54	528668.28	V2 B9A	1259586.05	530580.55
Q14	1260366.33	529448.96	S6 B6	1258304.26	528655.08	V2 B9B	1259594.08	530567.08
Q14A	1260128.60	529460.97	S6 B7	1258300.11	528599.23	V2 B10	1259685.77	530562.44
Q15	1260357.55	529401.20	S6 B8	1258299.72	528505.84	V2 B11	1259753.82	530564.11
S1 1	1259404.13	529387.58	S6 B9	1258307.28	528410.12	V2 B11A	1259742.44	530586.50
S1 2	1259302.13	529373.40	S6 B10	1258305.68	528274.11	V2 B11B	1259726.70	530609.40
S1 3	1259236.51	529376.08	S6 B11	1258312.92	528206.77	V2 B11C	1259744.00	530620.75
S1 4	1259166.43	529371.51	S6 B12	1258313.30	528116.56	V2 B11C	1259768.35	530582.81
S1 5	1259074.82	529367.65	S6 B13	1258316.80	528079.06	V2 B11D	1259784.91	530549.89
S1 6	1258960.00	529365.97	S6 B14	1258319.63	528006.30	V2 B12	1259821.71	530494.86
S1 7	1258961.53	529383.43	S6 B15	1258252.80	527987.01	V2 B13	1259861.68	530428.58
S1 8	1259070.84	529382.96	S6 B16	1258256.55	527979.65	V2 B14	1259903.26	530365.78
S1 9	1259161.41	529382.61	S6 B17	1258319.75	527985.02	V2 B15	1259955.43	530292.04
S1 10	1259235.06	529383.80	S6 B18	1258322.56	527954.19	V2 B16	1260015.72	530209.79
S1 11	1259291.91	529386.86	S6 B19	1258247.47	527957.71	V2 B17	1260038.01	530169.54
S1 12	1259401.88	529393.37	S6 B20	1258200.40	527953.44	V2 B18	1260090.44	530084.85
S2 1	1258818.72	529341.13	S6 B21	1258153.66	527946.75	V2 B19	1260170.92	530005.15
S2 2	1258870.15	529334.74	S6 B22	1258160.66	527934.27	V3 A1	1259518.04	529231.25
S2 3	1258888.69	529341.65	S6 B23	1258210.47	527934.62	V3 A2	1259519.14	529264.56
S2 4	1258912.95	529355.66	S6 B24	1258263.52	527933.02	V3 A3	1259442.13	529264.86
S2 5	1258928.29	529358.84	S6 B25	1258322.10	527933.51	V3 A4	1259353.18	529262.14
S2 6	1258941.26	529363.20	S6 B26	1258332.84	527910.25	V3 A5	1259307.95	529262.84
S2 7	1258942.69	529371.27	S7 A1	1258731.11	528717.14	V3 A6	1259277.22	529259.27
S2 8	1258938.40	529378.43	S7 A2	1258658.75	528714.19	V3 B1	1259504.22	529232.95
S2 9	1258926.91	529379.95	S7 A3	1258605.77	528709.13	V3 B2	1259503.55	529246.71
S2 10	1258916.76	529374.77	S7 B1	1258731.04	528700.19	V3 B3	1259441.37	529243.77
S2 11	1258896.78	529371.35	S7 B2	1258661.53	528696.88	V3 B4	1259357.88	529244.97
S2 12	1258893.15	529427.82	S7 B3	1258605.12	528697.47	V3 B5	1259322.44	529243.56
S2 13	1258892.51	529477.80	S8 1	1258820.05	529299.34	V3 B5A	1259318.59	529206.87
S2 14	1258890.85	529556.77	S8 2	1258838.36	529300.73	V3 B5B	1259312.81	529205.55
S2 15	1258890.56	529606.27	S8 3	1258847.70	529303.19	V3 B5C	1259299.72	529241.75
S2 16	1258894.05	529654.16	S8 4	1258846.15	529309.43	V3 B6	1259277.55	529246.41
S2 17	1258892.46	529706.22	S8 5	1258836.57	529311.08	V4 A1	1259246.64	529257.38
S2 18	1258889.25	529778.59	S8 6	1258818.50	529308.81	V4 A2	1259211.27	529261.27
S2 19	1258889.14	529840.50	S9 1START	1258960.48	530002.93	V4 A3	1259172.90	529259.41
S2 20	1258889.95	529946.56	S9 2	1258950.33	529992.65	V4 A4	1259114.54	529250.44
S2 21	1258888.55	530031.22	S9 3	1258964.32	529960.63	V4 A5	1259080.97	529246.52
S2 22	1258886.46	530171.50	S9 4	1258977.46	529948.92	V4 A6	1259058.59	529244.68
S2 23	1258887.82	530302.42	S9 5	1258994.55	529971.63	V4 A7	1259037.92	529243.51
S2 24	1258883.40	530392.33	S9 6 END	1258981.36	529991.64	V4 A8	1258915.46	529231.07
S2 25	1258885.20	530455.12	S10 1	1259201.05	528884.57	V4 A9	1258905.21	529206.48
S2 26	1258878.18	530512.48	S10 2	1259174.51	528901.67	V4 A10	1258904.58	529140.87
S2 27	1258877.55	530461.78	S10 3	1259117.79	528905.52	V4 A11	1258905.79	529044.14
S2 28	1258875.10	530388.70	S10 4	1259082.62	528906.99	V4 A12	1258909.06	528925.66
S2 29	1258874.95	530300.39	S10 5	1259078.03	528917.57	V4 A13	1258910.24	528812.77
S2 30	1258875.44	530175.49	S10 6	1259079.46	528972.85	V4 A14	1258913.44	528712.98
S2 31	1258877.48	530032.56	S10 7	1259079.13	529042.21	V4 B1	1259248.47	529244.29
S2 32	1258877.00	529947.00	S10 8	1259080.24	529124.35	V4 B2	1259214.36	529242.04
S2 33	1258880.52	529833.36	S10 9	1259079.66	529194.68	V4 B3	1259161.69	529238.65
S2 34	1258880.28	529779.30	S10 10	1259133.05	529199.09	V4 B4	1259112.99	529227.53
S2 35	1258880.67	529699.99	S10 11	1259203.91	529198.17	V4 B4A END	1259105.31	529213.98
S2 36	1258882.59	529657.38	S10 12	1259277.22	529199.91	V4 B4B	1259086.75	529207.25
S2 37	1258879.62	529598.76	S11 24	1259546.63	530485.87	V4 B5	1259063.32	529224.36
S2 38	1258880.71	529558.55	S11 25	1259547.77	530491.50	V4 B6	1259041.93	529226.03
S2 39	1258881.24	529439.79	S11 A1	1259542.04	530393.65	V4 B7	1258941.03	529224.32
S2 40	1258883.44	529421.22	S11 A2	1259489.70	529394.19	V4 B8	1258927.67	529213.19
S2 41	1258882.39	529377.19	S11 A3	1259523.29	529396.39	V4 B9	1258925.49	529200.46
S2 42	1258882.13	529350.01	S11 A4	1259558.14	529402.27	V4 B10	1258924.85	529137.67
S2 43	1258875.01	529381.44	S11 A5	1259552.40	529428.09	V4 B11	1258926.54	529037.15
S2 44	1258873.92	529425.85	S11 A6	1259555.33	529442.11	V4 B12	1258929.70	528925.00
S2 45	1258874.13	529450.29	S11 A7	1259578.30	529444.74	V4 B13	1258931.58	528812.86
S2 46	1258874.20	529478.92	S11 A8	1259578.18	529456.24	V4 B14	1258936.57	528718.74
S2 47	1258873.43	529561.19	S11 A9	1259554.19	529455.72	YYY1/Q22A	1259874.95	529539.87
S2 48	1258872.13	529601.92	S11 A10	1259551.95	529500.17	YYY1A	1259872.50	529639.10
S2 49	1258870.96	529667.94	S11 A11	1259550.29	529534.41	YYY2	1259876.42	529480.51
S2 50	1258873.77	529698.21	S11 A12	1259553.96	529584.85	YYY3	1259877.21	529395.12
S2 51	1258869.93	529786.55	S11 A13	1259551.86	529638.17	YYY4	1259889.31	529394.51
S2 52	1258870.63	529834.06	S11 A14	1259550.79	529705.68	YYY5	1259886.70	529453.80
S2 53	1258868.29	529957.19	S11 A15	1259549.74	529828.38	YYY6	1259887.04	529494.53
S2 54	1258867.11	530030.11	S11 A16	1259547.88	529906.64	YYY7	1259934.75	529496.45
S2 55	1258867.32	530173.17	S11 A17	1259549.13	529994.64	YYY8	1260005.55	529501.57
S2 56	1258868.50	530306.57	S11 A18	1259546.25	530087.02	YYY9	1260051.34	529511.26
S2 57	1258866.70	530388.24	S11 A19	1259547.95	530138.06	YYY10	1260081.49	529472.72
S2 58	1258865.94	530449.54	S11 A20	1259546.81	530183.34			
S2 59	1258863.85	530517.55	S11 A21	1259546.41	530260.89			
S2 60	1258855.23	530447.07	S11 A22	1259544.80	530335.24			
S2 61	1258858.22	530387.61	S11 A23	1259545.21	530390.70			
S2 62	1258858.35	530304.19	S11 B1	1259439.47	529397.02			
S2 63	1258860.76	530174.12	S11 B2	1259489.78	529401.18			
S2 64	1258858.02	530032.27	S11 B3	1259520.56	529401.31			
S2 65	1258860.14	529957.58	S11 B4	1259541.28	529407.03			
S2 66	1258861.17	529841.27	S11 B5	1259540.68	529430.87			
S2 67	1258865.09	529768.87	S11 B6	1259541.81	529451.08			
S2 68	1258865.21	529689.55	S11 B7	1259539.16	529494.20			
S2 69	1258862.39	529668.46	S11 B8	1259539.62	529533.04			
S2 70	1258858.23	529594.13	S11 B9	1259540.11	529589.46			
S2 71	1258860.65	529549.01	S11 B10	1259541.17	529644.23			
S2 72	1258862.09	529479.00	S11 B11	1259539.93	529708.71			
S2 73	1258867.58	529449.78	S11 B12	1259540.85	529761.57			
S2 74	1258864.45	529421.11	S11 B13	1259536.83	529825.38			
S2 75	1258863.30	529380.82	S11 B14	1259535.82	529909.15			
S2 76	1258865.99	529360.94	S11 B15	1259534.02	529997.87			
S2 77	1258848.43	529361.00	S11 B16	1259538.91	530087.31			
S2 78	1258817.67	529352.49	S11 B17	1259537.01	530137.44			
S3 1	1258865.84	530570.73	S11 B18	1259537.62	530189.62			
S3 2	1258886.01	530570.28	S11 B19	1259535.87	530256.87			



DESCRIPTION:

A portion of the Tampa Electric Company Big Bend Power Station lying in Section 15, Township 31 South, Range 19 East, Hillsborough County, Florida.

SURVEYOR'S NOTES:

1. Elevations shown hereon are based on North American Datum of 1988 (NAVD88). Control for this survey is based on Tampa Electric Companies "Construction Marker Locations and Plot Plan Index, Big Bend Station", drawing number 349-FY-2XA, dated 12-16-08. Bench marks used for this survey include stations 101 (NAVD88 Elevation = 8.236'), 102 (NAVD88 Elevation = 8.003'), and 103 (NAVD88 Elevation = 8.026')
2. Coordinates Shown hereon are based on Florida State Plane Coordinate System, West Zone, as referenced to the North American Datum of 1983, adjustment of 1990, NAD83(90). Control for this survey is based on Tampa Electric Company "Construction Marker Locations and Plot Plan Index, Big Bend Station", drawing number 349-FY-2XA, dated 12-16-08. Stations used for this survey include stations 102, 107, 110, and 114.
3. Aerial photography included in this drawing was obtained from Florida Department of Environmental Protection, Flight date February 2011. The photograph is 1 foot pixels, orthorectified with an expected accuracy of 3 feet more or less. Our review of this photograph shows errors in the range of one foot more or less in the areas we have reviewed.
4. Underground utilities shown are based on above-ground evidence and surface marking found during this survey. There may be other underground installations within the subject property which were not located and are not shown.
5. This survey prepared without the benefit of a title search. No instruments of record reflecting ownership, easements or rights of way were furnished to the undersigned, unless otherwise shown hereon.
6. This survey is not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper and is only for informational purposes unless so validated.

HORIZONTAL DATUM
NAD83 Florida State
Plane West Zone
VERTICAL DATUM NAVD88

REVISED	NO.	BY	DATE	DESCRIPTION
	1	LSB	8/28/12	Add wetland lines
	2	LSB	9/7/12	Add Box Culvert
	3	WDK	12/10/12	Added portions of wetland lines Q & Y, removed wetland lines W1, W2 & W3
	4			
	5			

REVISED	NO.	BY	DATE	DESCRIPTION
	6			
	7			
	8			
	9			
	10			

	INITIALS	DATE
CREW CHIEF	CH	4/15/11
DRAWN	LSB	4/25/11
CHECKED	WAS	4/26/11
FIELD BOOK	HILLS 380	
FIELD DATE	4/15/11	

PREPARED FOR:
Tampa Electric Company
702 N. Franklin Street
Tampa, FL 33601-0111

Since 1919
George F. Young, Inc.
1921 TAMPA EAST BOULEVARD TAMPA, FLORIDA 33619
PHONE (813) 223-1747 FAX (813) 229-0657
BUSINESS ENTITY LB21
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Wayne A. Sanborn PSM 4173
12/10/2012
Date

Big Bend Gypsum Handling Project
Wetland Survey

SECTION 10, TOWNSHIP 31S., RANGE 19E.

JOB NO. 0933019108
SHEET NO. 1 OF 7

PLOTTED: 12/10/12 12:16:10 LOGIN: WAK
FILE: J:\PROJECTS\PJ0933\0933019108\DGN\PHOTOLINES 8292012304.DWG

MATCH LINE
SEE SHEET 3

LINE TABLE

LINE	BEARING	DISTANCE
L332	N. 03°06'51" E.	90.81'
L333	N. 85°11'55" E.	53.27'
L334	S. 84°39'44" E.	94.05'
L335	S. 88°39'13" E.	46.97'
L336	N. 89°09'58" E.	39.69'
L342	S. 88°54'08" W.	86.21'
L343	S. 88°08'11" W.	103.10'
L344	N. 89°29'51" W.	54.11'
L345	S. 81°08'35" W.	74.42'
L346	S. 06°05'55" E.	48.95'
L347	N. 83°41'07" E.	15.00'
L348	N. 09°35'50" W.	56.41'
L349	N. 08°43'39" E.	43.09'
L350	N. 89°46'14" E.	16.98'
L351	S. 06°19'31" W.	72.48'
L352	S. 85°27'18" E.	53.26'
L353	S. 86°48'13" W.	11.69'
L354	S. 00°01'57" W.	112.56'
L355	S. 01°51'24" E.	116.71'
L356	S. 08°42'41" W.	109.93'
L357	S. 03°41'53" W.	139.13'
L358	S. 88°09'40" E.	99.84'
L359	S. 89°59'59" E.	119.92'
L385	N. 89°08'18" W.	16.14'
L386	N. 86°37'56" W.	94.67'
L391	S. 87°51'09" E.	84.92'
L392	N. 87°38'18" W.	65.49'
L393	S. 88°36'37" W.	61.89'
L394	S. 88°15'49" W.	38.82'
L395	S. 05°36'27" W.	20.91'
L396	S. 29°15'09" E.	39.57'
L397	N. 89°26'10" E.	65.14'
L398	S. 89°38'28" E.	63.62'
L399	N. 89°15'19" E.	84.66'
L305	N. 89°45'48" E.	93.40'
L306	N. 89°42'54" E.	96.00'
L307	N. 89°51'35" E.	131.64'
L308	N. 01°51'18" E.	127.87'
L309	N. 00°43'56" E.	26.06'
L310	N. 00°16'28" E.	109.03'
L311	N. 00°11'57" E.	114.03'
L316	N. 05°36'54" W.	96.15'
L317	N. 84°50'07" W.	38.88'
L318	N. 88°48'49" W.	71.33'
L319	N. 89°20'28" W.	95.69'
L320	N. 88°06'40" W.	156.93'
L321	N. 88°54'39" W.	48.56'
L322	N. 89°57'45" W.	114.68'
L323	N. 89°18'50" W.	91.50'
L324	N. 86°56'31" W.	49.42'
L333	S. 81°03'03" W.	34.77'
L334	S. 61°57'49" W.	30.02'
L335	S. 89°38'16" W.	13.55'
L336	S. 89°19'38" E.	58.68'
L337	N. 00°24'54" W.	68.97'
L338	S. 03°07'53" E.	43.08'
L339	N. 00°24'19" W.	49.81'
L341	N. 08°08'59" E.	42.96'
L340	N. 05°10'59" E.	42.46'
L343	N. 05°40'57" E.	75.18'
L344	S. 84°47'18" E.	30.95'
L345	S. 04°51'09" W.	63.43'
L346	S. 62°59'59" E.	8.26'
L347	N. 16°05'58" E.	69.56'
L348	S. 87°46'40" E.	72.85'
L349	S. 84°40'06" E.	37.65'
L350	S. 89°45'35" E.	90.21'
L351	S. 89°51'42" E.	67.74'
L352	N. 89°19'38" E.	136.01'
L353	S. 85°29'11" E.	96.02'

LEGEND

- P – Wetland Point
- – Metal Light Pole
- – Spot Elevation
- – Spot Elevation at Edge of Pavement
- – Wetland Line

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This map is intended to be displayed at a scale of 1" = 40' or smaller

WETLAND S4

WETLAND S5

WETLAND S7

WETLAND S6

HORIZONTAL DATUM NAD83 Florida State Plane West Zone
VERTICAL DATUM NAVD88

REVISED	NO.	BY	DATE	DESCRIPTION
	1	LSB	8/28/12	Add wetland lines
	2	LSB	9/7/12	Add Box Culvert
	3	WDK	12/10/12	Added portions of wetland lines Q & Y, removed wetland lines W1, W2 & W3
	4			
	5			

REVISED	NO.	BY	DATE	DESCRIPTION
	6			
	7			
	8			
	9			
	10			

	INITIALS	DATE
CREW CHIEF	CH	4/15/11
DRAWN	LSB	4/25/11
CHECKED	WAS	4/26/11
FIELD BOOK	HILLS 380	
FIELD DATE	4/15/11	

PREPARED FOR:
Tampa Electric Company
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Big Bend Gypsum Handling Project
Wetland Survey
SECTION 10, TOWNSHIP 31S., RANGE 19E.

JOB NO. 0933019108
SHEET NO. 2 OF 7

PLOTTED: 12/10/12 12:26:10
FILE: I:\PROJECT\SUR\0933-0022-16\DWG\0933019108WDKGRIPMETLANDS 20121210.DWG
LOGIN: WMK

MATCH LINE
SEE SHEET 6

MATCH LINE
SEE SHEET 2

MATCH LINE
SEE SHEET 4

LINE TABLE

LINE	BEARING	DISTANCE
L148	N 07°04'39" W	51.82'
L149	N 59°35'53" E	19.97'
L150	N 30°00'28" E	28.02'
L151	N 71°41'56" E	15.66'
L152	N 18°58'04" W	13.72'
L153	N 80°00'01" E	8.20'
L154	S 59°04'06" E	8.34'
L155	S 87°53'07" E	118.91'
L156	S 27°01'55" W	11.40'
L157	S 69°42'50" E	20.27'
L158	S 86°19'44" E	56.58'
L159	S 89°15'43" E	49.99'
L160	S 88°47'56" E	78.99'
L161	S 89°39'41" E	49.51'
L162	N 89°30'04" E	49.08'
L163	S 87°04'09" W	58.70'
L164	N 88°27'38" W	40.28'
L165	N 89°44'05" W	118.97'
L166	N 83°15'10" W	18.70'
L167	S 89°39'16" W	44.04'
L168	N 89°42'10" W	57.18'
L169	S 77°14'11" E	92.23'
L170	S 88°38'59" E	44.42'
L171	N 89°30'59" E	54.44'
L172	S 89°42'16" E	68.68'
L173	S 89°57'24" E	86.88'
L174	S 88°10'16" E	40.96'
L175	S 89°09'55" E	96.09'
L176	S 86°47'55" W	74.48'
L177	N 86°56'10" W	45.18'
L178	N 89°49'58" W	70.08'
L179	N 79°21'06" W	29.93'
L180	N 87°46'57" W	28.24'
L181	S 88°21'41" W	40.30'
L182	N 82°12'37" W	20.07'
L183	S 80°12'57" W	17.56'
L184	S 15°28'06" W	31.91'
L185	S 01°15'52" W	24.00'
L186	S 87°07'15" W	44.91'
L187	S 88°49'46" E	34.28'
L188	S 89°55'59" E	50.51'
L189	S 87°44'53" E	59.36'
L190	S 89°05'42" E	67.58'
L191	S 88°53'29" E	44.78'
L192	S 89°36'18" E	56.43'
L193	S 89°19'14" E	98.07'
L194	S 86°58'43" W	49.84'
L195	S 86°42'28" W	50.24'
L196	S 88°11'15" W	49.55'
L197	S 89°19'14" E	98.07'
L198	S 19°58'48" W	51.49'
L199	S 00°13'46" W	50.78'
L200	S 04°49'53" W	50.48'
L201	N 52°43'21" W	4.24'
L202	N 37°38'39" E	47.67'
L203	N 03°44'55" E	33.56'
L204	N 09°54'38" E	35.34'
L205	N 01°29'40" E	82.95'
L206	N 01°55'49" E	67.94'
L207	N 01°51'30" E	65.19'
L208	N 01°14'52" E	74.67'
L209	N 04°15'35" E	7.59'
L210	N 01°59'04" E	69.70'
L211	N 59°39'53" E	57.78'
L212	S 56°18'40" W	63.82'
L213	S 62°08'05" W	78.24'
L214	S 01°52'44" W	61.79'
L215	S 09°35'30" W	66.28'
L216	S 02°49'15" W	71.58'
L217	S 38°48'36" E	31.57'
L218	S 89°44'05" E	118.97'
L219	N 06°38'30" E	30.93'

LINE TABLE

LINE	BEARING	DISTANCE
L220	N 60°53'29" W	45.23'
L221	N 01°44'52" E	69.35'
L222	N 60°13'10" W	27.07'
L223	S 88°06'55" W	33.34'
L224	S 87°14'00" E	153.77'
L225	S 02°42'36" E	62.25'
L226	S 00°49'36" E	84.30'
L227	S 89°17'15" E	55.35'
L228	S 84°01'11" E	35.89'
L229	S 87°53'13" E	113.55'
L230	N 12°09'30" E	32.71'
L231	N 63°53'24" W	30.11'
L232	N 05°06'51" E	50.81'
L233	N 85°11'59" E	59.97'
L234	S 04°37'54" E	52.06'
L235	S 88°23'13" E	46.57'
L236	N 89°09'33" E	52.60'
L237	S 88°19'10" E	56.36'
L238	S 87°56'18" E	88.01'
L239	S 87°59'54" E	49.82'
L240	N 89°39'17" E	55.08'
L241	N 87°57'03" E	53.33'
L242	N 89°54'39" E	55.21'
L243	S 88°03'11" E	103.10'
L244	N 89°28'51" E	54.11'
L245	S 89°48'35" E	74.46'
L246	S 05°09'59" E	48.55'
L247	S 89°41'07" E	112.30'
L248	S 00°01'37" W	112.70'
L249	S 01°51'24" E	116.71'
L250	S 01°09'40" E	93.84'
L251	S 89°39'59" E	112.30'
L252	S 89°58'06" E	119.98'
L253	S 89°16'06" E	56.74'
L254	N 89°26'56" E	65.61'
L255	N 02°29'18" E	55.43'
L256	N 28°57'46" E	55.58'
L257	N 00°33'41" E	124.69'
L258	N 12°48'52" E	56.49'
L259	N 06°39'16" E	33.80'
L260	N 09°44'07" E	59.01'
L261	N 02°46'54" E	98.48'
L262	N 06°16'09" W	35.59'
L263	N 01°04'30" E	73.25'
L264	N 03°45'45" W	34.18'
L265	N 11°40'57" W	55.98'
L266	N 12°29'01" W	29.96'
L267	N 60°27'31" E	16.57'
L268	N 39°51'10" E	76.48'
L269	S 35°08'57" E	59.01'
L270	S 04°37'39" E	61.39'
L271	S 88°16'39" W	30.63'
L272	S 86°56'52" W	100.31'
L273	S 78°16'06" E	35.67'
L274	S 89°17'21" E	42.14'
L275	S 89°38'28" E	69.65'
L276	N 89°16'19" E	84.66'
L277	N 89°17'01" E	74.69'
L278	N 86°51'39" E	71.48'
L279	N 89°39'19" E	70.79'
L280	N 89°28'04" E	26.36'
L281	S 68°57'51" E	16.68'
L282	N 00°16'20" E	109.02'
L283	N 03°11'37" E	114.93'
L284	S 04°54'38" W	105.32'
L285	S 02°50'36" E	44.28'
L286	N 03°43'54" W	20.29'
L287	N 89°25'02" E	74.95'
L288	N 00°50'18" W	114.28'
L289	N 84°38'14" E	14.58'
L290	N 89°14'43" E	105.91'
L291	N 00°13'16" W	90.52'
L292	N 00°16'22" E	71.66'
L293	N 03°08'16" E	55.93'
L294	N 03°03'06" E	110.16'
L295	N 68°45'45" W	62.41'
L296	N 04°21'00" E	19.96'
L297	N 14°54'34" W	9.56'
L298	S 16°06'11" E	56.31'
L299	S 09°44'01" E	2.28'
L300	S 07°09'47" W	18.51'
L359	S 89°23'26" E	11.51'

WETLAND V3
WETLAND V1
WETLAND S10
WETLAND V4
WETLAND S1
WETLAND V1
WETLAND V4
WETLAND S4
WETLAND S5
WETLAND S8

LEGEND
P – Wetland Point
– Metal Light Pole
– Spot Elevation
– Spot Elevation at Edge of Pavement
– Wetland Line

N
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This map is intended to be displayed at a scale of 1" = 40' or smaller

HORIZONTAL DATUM NAD83 Florida State Plane West Zone
VERTICAL DATUM NAVD88

REVISED	NO.	BY	DATE	DESCRIPTION
	1	LSB	8/28/12	Add wetland lines
	2	LSB	9/7/12	Add Box Culvert
	3	WDK	12/10/12	Added portions of wetland lines Q & Y, removed wetland lines W1, W2 & W3
	4			
	5			

REVISED	NO.	BY	DATE	DESCRIPTION
	6			
	7			
	8			
	9			
	10			

	INITIALS	DATE
CREW CHIEF	CH	4/15/11
DRAWN	LSB	4/25/11
CHECKED	WAS	4/26/11
FIELD BOOK	HILLS 380	
FIELD DATE	4/15/11	

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Big Bend Gypsum Handling Project
Wetland Survey
SECTION 10, TOWNSHIP 31S., RANGE 19E.

JOB NO. 0933019108
SHEET NO. 3 OF 7

PLOTTED: 12/10/12 2:26:40
LOGIN: WWK
FILE: X:\PROJECTS\PLYB\933-0022-15\DWG\933019108WORKPAPER\LANDS 8201212.DWG

MATCH LINE
SEE SHEET 7

MATCH LINE
SEE SHEET 5

WETLAND S1

WETLAND V2

WETLAND S9

WETLAND S2

WETLAND S2

WETLAND S3

LINE TABLE

LINE	BEARING	DISTANCE
L6	S 00°13'10" E	105.97'
L7	S 88°16'46" W	60.11'
L8	S 02°05'05" W	100.60'
L9	S 04°51'29" E	60.85'
L10	S 00°40'01" W	65.36'
L11	S 04°11'37" E	63.77'
L12	S 01°51'01" W	53.60'
L13	S 87°47'55" E	18.80'
L14	N 01°12'16" E	48.40'
L15	N 01°55'49" W	52.38'
L16	N 00°56'50" E	73.89'
L17	N 01°07'50" E	63.14'
L18	N 51°56'13" E	17.17'
L19	N 76°08'31" W	16.10'
L20	N 01°58'54" W	53.09'
L21	N 01°28'19" W	62.93'
L22	N 03°51'44" E	56.03'
L40	N 01°12'15" W	30.17'
L41	N 89°19'45" W	13.56'
L42	N 01°30'30" W	14.98'
L43	N 88°47'21" E	14.34'
L44	S 04°11'39" E	17.63'
L45	S 01°04'17" E	17.69'
L46	S 05°03'48" E	13.36'
L47	S 75°56'49" W	18.42'
L48	N 07°04'35" W	51.92'
L49	N 69°53'53" E	13.79'
L50	N 01°00'55" E	58.09'
L51	N 11°41'55" E	15.56'
L52	N 18°36'17" E	14.29'
L53	N 80°00'01" E	8.80'
L54	S 89°04'05" E	8.34'
L55	S 07°54'42" E	11.89'
L56	S 27°01'58" W	11.30'
L57	S 89°48'58" W	20.07'
L58	S 86°19'44" W	56.58'
L59	S 89°53'35" E	106.05'
L62	S 89°03'13" E	84.68'
L63	S 89°58'35" E	140.29'
L64	S 89°54'18" E	130.24'
L70	S 87°11'00" E	90.02'
L71	N 89°51'54" E	66.98'
L72	S 83°01'04" E	97.78'
L73	S 89°17'48" E	90.20'
L74	S 89°14'50" E	73.18'
L75	S 89°54'10" E	88.20'
L76	S 89°55'54" E	104.91'
L77	N 89°11'08" E	142.94'
L78	S 89°46'38" W	85.36'
L79	N 89°43'49" W	113.69'
L80	S 89°44'24" W	94.06'
L81	N 89°42'51" W	73.31'

LINE TABLE

LINE	BEARING	DISTANCE
L82	N 87°26'29" W	46.56'
L83	S 87°10'09" W	52.47'
L84	N 89°27'35" W	40.88'
L85	N 89°54'39" W	118.97'
L86	N 83°15'10" W	18.70'
L87	S 88°38'16" W	44.04'
L88	S 89°15'10" W	27.18'
L89	S 77°14'11" E	92.53'
L90	S 88°39'59" E	44.12'
L91	N 89°30'59" E	54.44'
L95	N 89°51'49" E	89.58'
L93	S 89°27'54" E	52.86'
L94	S 88°10'16" E	40.75'
L95	S 88°38'48" E	65.02'
L96	N 84°41'45" E	30.41'
L97	S 82°30'36" E	88.43'
L98	S 89°19'21" E	27.82'
L99	S 88°54'45" E	133.14'
L100	S 89°04'23" E	28.93'
L101	N 89°55'04" E	130.76'
L105	N 89°55'31" E	133.41'
L103	S 89°46'26" E	21.58'
L104	S 89°17'50" E	64.96'
L105	S 88°14'20" E	68.04'
L106	N 81°01'49" W	21.09'
L107	N 87°07'53" W	59.54'
L108	N 89°54'46" W	57.79'
L109	N 89°55'11" W	130.09'
L110	S 88°53'30" W	131.88'
L111	N 89°33'29" W	62.91'
L112	N 89°55'30" W	116.36'
L113	N 89°54'09" W	72.51'
L114	N 89°54'49" W	73.46'
L115	S 89°55'54" W	91.88'
L116	S 89°47'33" W	74.45'
L117	N 89°58'10" W	43.17'
L118	N 88°49'28" W	20.05'
L119	N 89°21'02" W	89.78'
L120	N 89°46'57" W	28.84'
L121	S 88°21'41" W	20.36'
L122	S 89°17'31" W	20.09'
L123	S 90°12'27" E	17.55'
L124	S 14°28'06" W	31.91'
L125	N 14°43'29" W	50.48'
L126	N 89°43'51" W	4.24'
L127	N 00°38'20" E	47.57'
L312	N 89°54'56" W	103.97'
L313	S 89°20'39" E	65.68'
L314	S 89°43'54" E	70.23'
L315	S 89°25'03" W	91.59'
L324	S 60°50'18" W	114.83'
L325	S 24°55'17" W	17.56'
L326	N 00°14'43" W	109.31'
L327	N 01°13'15" W	58.97'
L328	N 00°55'27" E	23.56'
L329	N 03°05'16" E	36.93'
L330	N 09°53'05" E	110.16'
L331	N 68°45'45" W	6.21'

HORIZONTAL DATUM NAD83 Florida State Plane West Zone
VERTICAL DATUM NAVD88

LEGEND

- Wetland Point
- Metal Light Pole
- Spot Elevation
- Spot Elevation at Edge of Pavement
- Wetland Line

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This map is intended to be displayed at a scale of 1" = 40' or smaller

FILE: J:\PROJECTS\JPS\0933-0022-16\DWG\0933019108WORKSPACE\WETLANDS 8201210.DWG
LOGIN: WMK

REVISED	NO.	BY	DATE	DESCRIPTION
	1	LSB	8/28/12	Add wetland lines
	2	LSB	9/7/12	Add Box Culvert
	3	WDK	12/10/12	Added portions of wetland lines Q & Y, removed wetland lines W1, W2 & W3
	4			
	5			

REVISED	NO.	BY	DATE	DESCRIPTION
	6			
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	INITIALS	DATE
CREW CHIEF	CH	4/15/11
DRAWN	LSB	4/25/11
CHECKED	WAS	4/26/11
FIELD BOOK	HILLS 380	
FIELD DATE	4/15/11	

PREPARED FOR:
Tampa Electric Company
702 N. Franklin Street
Tampa, FL 33601-0111

Since 1919

George F. Young, Inc.
1921 TAMPA EAST BOULEVARD TAMPA, FLORIDA 33619
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BUSINESS ENTITY LB21
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Big Bend Gypsum Handling Project
Wetland Survey

SECTION 10, TOWNSHIP 31S., RANGE 19E.

JOB NO. 0933019108
SHEET NO. 4 OF 7

PLOTTED: 12/10/12 2:26:10

MATCH LINE
SEE SHEET 7

MATCH LINE
SEE SHEET 6

MATCH LINE
SEE SHEET 4

WETLAND LINES SHOWN IN YELLOW ARE AS SHOWN IN GFY BIG BEND GYPSUM HANDLING PROJECT WETLAND SURVEY, JN 0933019108, DATED 09/10/12, LAST REVISION 09/07/12

WETLAND LINES SHOWN IN RED ARE FROM PREVIOUSLY PERMITTED TECO BIG BEND RAIL LOOP PROJECT, FDEP FILE NO. 29-0291610-002, JUNE 9, 2009.

WETLAND S12

WETLAND S11

WETLAND V2

SHW-3
ELEVATION = 1.82'

SHW-2
ELEVATION = 1.93'

SHW-1
ELEVATION = 1.88'

N
W
E
S

20 0 40
40

This map is intended to be displayed at a scale of 1" = 40' or smaller

LEGEND
- Wetland Point
- Metal Light Pole
- Spot Elevation
- Spot Elevation at Edge of Pavement
- Wetland Line

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 23°32'26" E	55.93'
L2	S 54°35'07" E	152.37'
L3	S 05°44'09" E	84.99'
L4	S 01°40'49" E	89.65'
L5	S 00°37'01" E	168.46'
L6	S 01°19'10" E	105.59'
L7	N 78°31'44" W	96.03'
L8	N 09°53'09" E	164.51'
L9	N 38°47'37" E	97.81'
L10	N 59°12'59" W	15.59'
L11	N 09°53'09" E	91.97'
L12	N 01°24'00" E	68.06'
L13	S 69°04'19" E	65.16'
L14	S 85°30'15" E	52.78'
L15	N 33°16'40" E	80.59'
L16	N 52°19'00" E	45.88'
L17	N 69°17'06" W	36.85'
L18	N 56°19'31" W	66.19'
L19	N 58°54'41" W	77.41'
L20	N 36°29'20" W	28.31'
L21	N 44°49'19" W	20.31'
L22	N 83°45'49" W	101.88'
L23	N 51°01'07" W	46.08'
L24	N 88°14'29" W	98.90'
L25	S 01°15'29" E	24.00'
L26	S 07°07'18" E	44.51'
L27	S 88°19'46" E	24.25'
L28	N 86°55'59" E	50.31'
L29	S 77°44'53" E	53.78'
L30	S 89°05'43" E	69.85'
L31	N 89°59'41" E	98.19'
L32	S 87°08'49" E	64.35'
L33	S 88°38'18" E	78.28'
L34	N 89°15'07" E	88.01'
L35	S 89°12'40" E	96.42'
L36	N 88°09'23" E	51.02'
L37	S 89°20'17" E	25.93'
L38	S 89°42'29" E	27.55'
L39	S 88°45'48" E	74.97'
L40	N 89°34'39" E	96.46'
L41	S 89°08'32" E	98.18'
L42	N 78°38'21" E	5.74'
L43	S 01°06'37" E	18.60'
L44	S 89°18'14" E	18.97'
L45	S 88°12'42" W	88.54'
L46	S 89°54'09" W	62.29'
L47	N 89°57'30" W	72.54'
L48	N 88°30'47" W	67.08'
L49	S 89°20'17" W	58.15'
L50	N 89°45'48" W	50.17'
L51	S 89°39'15" W	89.59'
L52	N 88°50'26" W	88.74'
L53	N 89°18'33" W	83.22'
L54	S 89°18'14" E	83.94'
L55	S 88°59'41" W	50.87'
L56	N 88°54'27" W	64.58'
L57	N 89°53'22" W	64.78'
L58	S 89°30'16" W	56.43'
L59	S 89°21'18" W	38.89'
L60	N 86°28'43" W	43.20'

LINE TABLE

LINE	BEARING	DISTANCE
L161	S 86°47'28" W	20.62'
L162	N 88°33'13" W	63.68'
L163	S 75°38'48" W	51.59'
L164	S 00°13'42" E	30.48'
L165	S 04°39'39" W	90.48'
L166	N 58°43'29" W	46.24'
L167	N 00°38'30" E	47.67'
L168	N 09°24'56" E	33.55'
L169	N 09°24'56" E	33.55'
L170	S 72°38'54" E	26.45'
L171	N 68°12'58" E	13.29'
L172	N 05°31'57" E	54.16'
L173	N 89°36'53" E	87.78'
L174	N 01°18'42" E	51.63'
L175	N 47°34'43" E	61.03'
L176	N 39°39'34" E	46.64'
L177	N 41°56'47" E	56.43'
L178	S 41°56'18" E	9.05'
L179	N 41°41'07" W	50.04'
L180	S 40°09'05" W	40.48'
L181	S 47°20'37" W	56.79'
L182	S 39°46'11" W	50.23'
L183	S 56°18'40" W	63.59'
L184	S 62°08'06" W	74.84'
L185	S 07°54'58" W	109.97'
L186	N 03°52'06" E	110.16'
L187	N 01°15'45" E	56.61'
L188	N 88°39'05" W	99.56'
L189	N 89°38'09" W	85.39'
L190	N 89°38'09" W	85.39'
L191	N 02°53'41" W	16.18'
L192	N 07°58'05" E	40.83'
L193	N 89°51'18" E	40.74'
L194	N 08°37'37" E	42.39'
L195	N 08°06'09" E	70.99'
L196	N 11°52'18" E	46.80'
L197	N 14°37'21" E	46.80'
L198	N 14°00'09" W	48.58'
L199	S 89°40'18" E	24.47'
L200	S 89°40'18" E	24.47'
L201	S 89°51'09" E	58.20'
L202	S 89°10'37" E	40.60'
L203	S 89°52'25" E	41.51'
L204	N 64°41'46" W	94.87'
L205	N 53°37'58" W	108.31'
L206	N 39°08'42" W	44.59'
L207	N 89°09'05" E	44.50'
L208	N 44°43'13" W	113.27'

HORIZONTAL DATUM NAD83 Florida State Plane West Zone
VERTICAL DATUM NAVD88

REVISED	NO.	BY	DATE	DESCRIPTION
	1	LSB	8/28/12	Add wetland lines
	2	LSB	9/7/12	Add Box Culvert
	3	WDK	12/10/12	Added portions of wetland lines Q & Y, removed wetland lines W1, W2 & W3
	4			
	5			
REVISED	6			
	7			
	8			
	9			
	10			

	INITIALS	DATE
CREW CHIEF	CH	4/15/11
DRAWN	LSB	4/25/11
CHECKED	WAS	4/26/11
FIELD BOOK	HILLS 380	
FIELD DATE	4/15/11	

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Since 1919

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Big Bend Gypsum Handling Project
Wetland Survey
SECTION 10, TOWNSHIP 31S., RANGE 19E.

JOB NO. 0933019108
SHEET NO. 5 OF 7

PLOTTED: 12/10/12 12:16:10 LOGIN: WMK
FILE: L:\PROJECTS\JOBS\0933-0022-10\DWG\0933019108WORKPRINT.DWG 8/20/12 04:54PM



LINE TABLE

LINE	BEARING			DISTANCE
L125	S	01°15'29"	W	54.00'
L126	S	82°07'18"	E	44.51'
L127	S	89°49'46"	E	34.25'
L159	S	89°15'14"	W	38.83'
L160	N	85°28'43"	W	43.56'
L161	S	86°47'28"	W	50.68'
L162	N	88°33'13"	W	53.85'
L163	S	19°28'49"	W	91.49'
L164	S	00°13'42"	W	50.78'
L168	N	03°44'26"	E	53.66'
L169	N	09°34'58"	E	56.34'
L170	S	77°28'34"	E	26.45'
L171	N	76°15'28"	E	14.38'
L172	N	05°17'29"	E	52.12'
L187	N	04°15'55"	E	7.57'
L188	N	60°59'04"	E	83.70'
L189	N	59°52'59"	E	57.78'
L190	N	54°13'37"	E	51.53'
L191	N	37°34'40"	E	61.01'
L192	N	29°50'24"	E	46.53'
L196	S	40°08'08"	W	49.43'
L197	S	47°40'27"	W	56.79'
L198	S	39°46'11"	W	51.63'
L199	S	25°18'40"	W	64.56'
L200	S	86°08'05"	W	58.54'
L263	S	88°05'55"	W	93.33'
L264	S	87°42'00"	E	13.77'
L334	N	88°25'05"	W	59.38'
L335	N	89°28'09"	W	85.39'
L336	N	86°53'41"	W	12.12'
L337	S	87°58'50"	W	59.45'
L338	S	89°31'19"	W	70.74'
L339	N	02°17'51"	E	47.75'
L340	N	04°08'03"	E	70.99'
L341	N	11°57'19"	E	46.80'
L342	N	51°57'21"	W	48.93'
L343	N	14°00'32"	W	48.56'
L344	N	88°40'19"	E	54.47'
L345	N	85°40'20"	E	41.39'
L346	N	89°28'56"	E	44.35'
L353	S	89°08'08"	W	38.08'
L354	N	86°42'34"	W	36.19'
L355	S	74°06'46"	W	17.42'
L356	S	85°51'29"	W	38.20'
L357	S	87°10'51"	W	40.20'
L359	S	89°29'26"	E	11.51'
L384	N	77°11'57"	E	39.08'
L385	N	78°54'19"	E	54.23'
L386	N	85°15'07"	E	37.09'
L387	N	81°47'42"	E	55.97'
L388	N	48°51'58"	E	54.06'
L389	N	03°08'35"	E	6.33'
L390	S	87°54'54"	W	18.98'
L391	S	88°24'03"	W	40.12'
L392	N	88°42'56"	W	14.59'
L393	N	86°56'41"	E	37.46'
L394	N	64°58'46"	E	33.40'
L395	N	06°12'17"	E	50.29'

REVISED	NO.	BY	DATE	DESCRIPTION
	1	LSB	8/28/12	Add wetland lines
	2	LSB	9/7/12	Add Box Culvert
	3	WDK	12/10/12	Added portions of wetland lines Q & Y, removed wetland lines W1, W2 & W3
	4			
	5			
	6			
	7			
	8			
	9			
	10			

	INITIALS	DATE
CREW CHIEF	CH	4/15/11
DRAWN	LSB	4/25/11
CHECKED	WAS	4/26/11
FIELD BOOK	HILLS 380	
FIELD DATE	4/15/11	

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Big Bend Gypsum Handling Project
Topographic Survey
SECTION 10, TOWNSHIP 31S., RANGE 19E.

JOB NO. 0933019108
SHEET NO. 6 OF 7

PLOTTED: 12/10/12 12:18:10 FILE: I:\PROJECTS\SURV\0933-002-1\DWG\0933019108CROSSPRINTPLANS 8201210-DWF LOGIN: WWK

HORIZONTAL DATUM NAD83 Florida State Plane West Zone
VERTICAL DATUM NAVD88

WETLAND LINES SHOWN IN YELLOW ARE AS SHOWN IN GFY BIG BEND GYPSUM HANDLING PROJECT WETLAND SURVEY, JN 0933019108, DATED 09/10/12, LAST REVISION 09/07/12

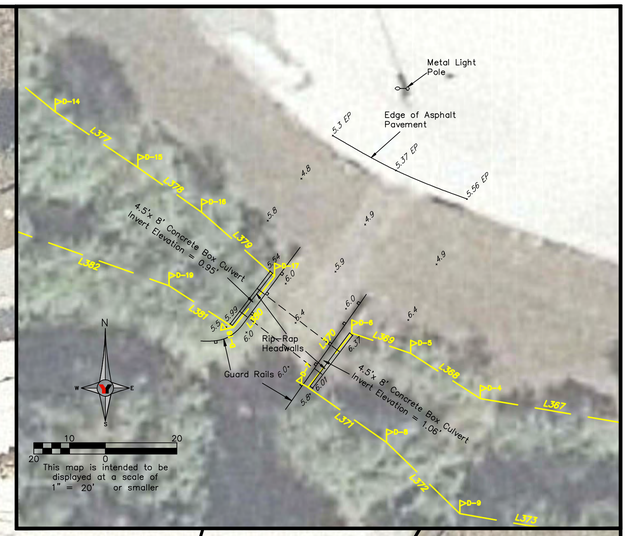
WETLAND LINES SHOWN IN RED ARE FROM PREVIOUSLY PERMITTED TECO BIG BEND RAIL LOOP PROJECT, FDEP FILE NO. 29-0291610-002, JUNE 9, 2009.

LINE TABLE

LINE	BEARING	DISTANCE
L343	N 14°00'27" W	48.56'
L344	N 89°40'28" E	24.47'
L345	N 26°40'00" E	41.39'
L346	N 63°39'56" E	44.50'
L347	S 07°47'20" E	23.62'
L348	N 50°42'38" E	16.47'
L349	N 30°09'39" E	22.06'
L350	N 14°02'22" W	16.64'
L351	N 80°16'24" W	14.48'
L352	S 58°56'58" W	39.47'
L353	S 82°03'08" W	98.08'
L354	N 85°58'41" W	96.47'
L355	N 79°05'46" W	17.47'
L356	S 85°51'39" W	38.50'
L357	S 62°10'31" W	40.67'
L358	N 43°05'56" W	128.79'
L359	N 88°52'17" W	94.98'
L360	N 74°58'08" W	82.36'
L361	N 89°18'24" W	41.17'
L362	N 79°08'40" W	24.20'
L363	N 70°57'49" W	17.98'
L364	S 35°05'36" W	13.45'
L371	S 54°56'49" E	86.88'
L376	S 45°50'53" E	88.59'
L373	S 89°09'31" E	109.58'
L374	S 89°58'10" E	44.99'
L375	S 89°08'08" E	23.86'
L376	S 70°07'28" E	41.44'
L377	S 56°03'33" E	62.84'
L378	S 44°23'19" E	21.79'
L379	N 45°23'19" E	84.85'
L380	S 38°53'01" E	18.84'
L381	S 57°08'15" E	21.46'
L382	N 70°51'19" W	46.92'
L383	N 70°53'29" W	56.76'
L384	N 77°11'57" W	35.05'
L385	N 46°55'20" W	87.43'
L386	N 79°54'19" W	84.28'
L387	N 51°53'42" W	24.68'
L388	N 86°15'02" W	37.07'
L389	N 58°17'46" W	19.44'
L390	N 84°47'34" E	56.87'
L391	N 45°11'08" E	24.06'
L392	N 10°08'08" E	5.35'
L393	S 87°54'54" W	16.58'
L394	N 88°03'03" W	40.03'
L395	N 88°42'06" W	14.59'
L396	N 02°05'41" E	37.40'
L397	N 04°14'19" E	34.40'
L398	N 05°15'19" E	50.98'
L399	N 09°19'42" E	48.47'
L400	N 09°18'29" W	18.10'
L401	N 29°51'57" E	13.66'
L402	N 60°36'56" E	20.75'
L403	N 14°34'06" E	40.69'
L404	S 47°39'32" E	34.99'
L405	S 32°48'08" E	15.41'
L406	S 69°55'41" E	15.07'
L407	S 14°50'56" E	10.77'
L408	S 69°54'19" E	91.40'
L409	N 30°13'51" E	26.40'
L410	N 51°55'37" E	31.05'
L411	N 51°31'54" E	40.88'
L412	N 44°43'19" W	113.27'

LEGEND
- P = Wetland Point
- = Metal Light Pole
- 43.5 = Spot Elevation
- 43.45 EP = Spot Elevation at Edge of Pavement
- = Wetland Line

This map is intended to be displayed at a scale of 1" = 40' or smaller



MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 5

REVISED	NO.	BY	DATE	DESCRIPTION
	1	LSB	8/28/12	Add wetland lines
	2	LSB	9/7/12	Add Box Culvert
	3	WDK	12/10/12	Added portions of wetland lines Q & Y, removed wetland lines W1, W2 & W3
	4			
	5			

REVISED	NO.	BY	DATE	DESCRIPTION
	6			
	7			
	8			
	9			
	10			

	INITIALS	DATE
CREW CHIEF	CH	4/15/11
DRAWN	LSB	4/25/11
CHECKED	WAS	4/26/11
FIELD BOOK	HILLS 380	
FIELD DATE	4/15/11	

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Big Bend Gypsum Handling Project
Wetland Survey

SECTION 10, TOWNSHIP 31S., RANGE 19E.

JOB NO. 0933019108
SHEET NO. 7 OF 7

PLOTTED: 12/10/12 12:16:10 LSGN: WAK FILE: Q:\PROJECTS\JRJOBS\~2012~\10JWO\0933019108\DGN\PWETLANDS R2012104.DWG