Figure 2.1-1
ALAFIA RIVER
WATERSHED STUDY AREA

Legend

Watershed Boundary

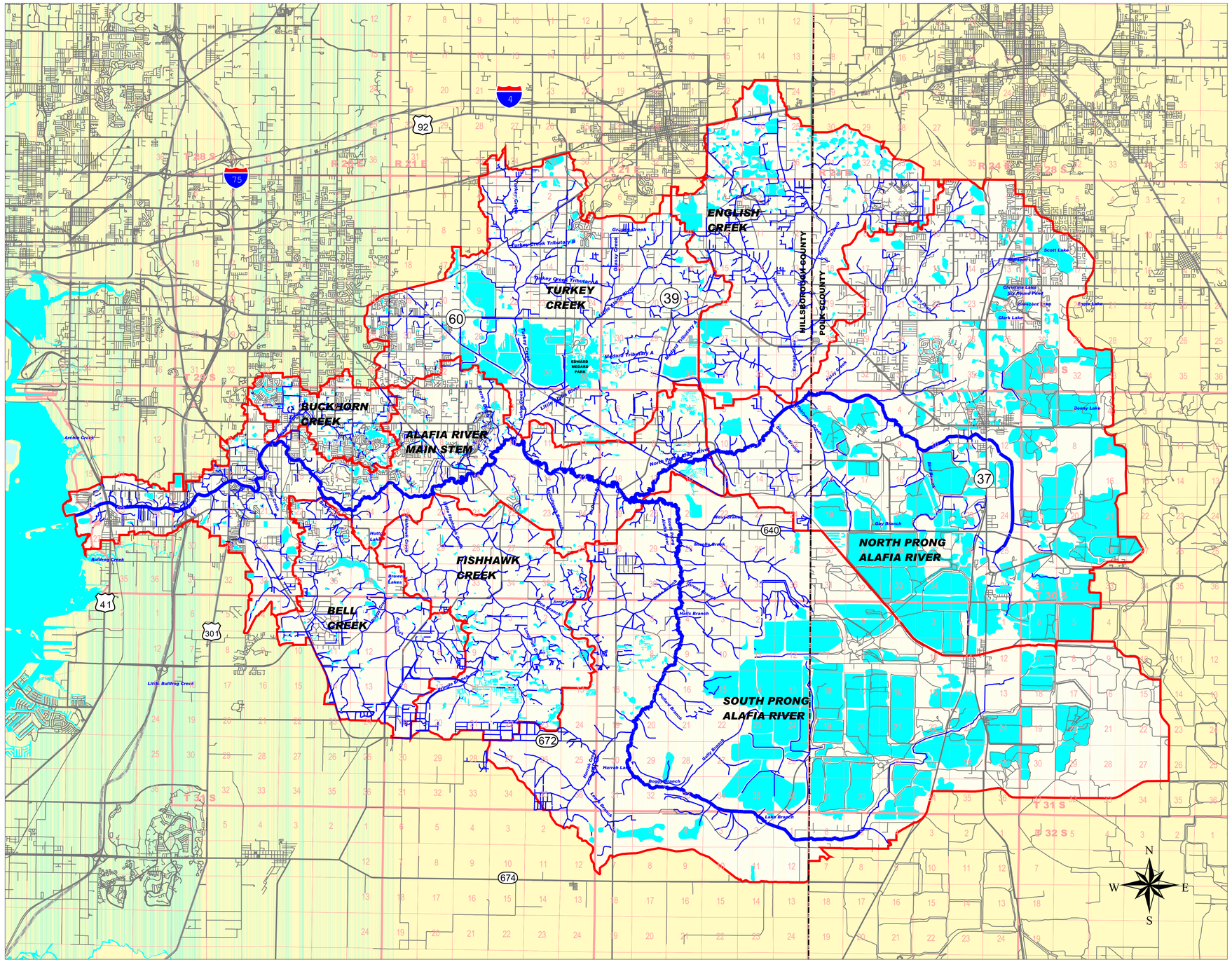
- Watershed
- Subwatershed

Conveyance Network

- Creek
- Main River Channel
- Storage
- Section/Township/Range
- Sections

Major Roads

- Primary road with limited access
- Primary road
- Secondary and connecting road
- Alafia River Watershed
- County Boundary



8000 0 8000 16000 Feet

Scale: 1" = 8,000'

HILLSBOROUGH COUNTY FLORIDA

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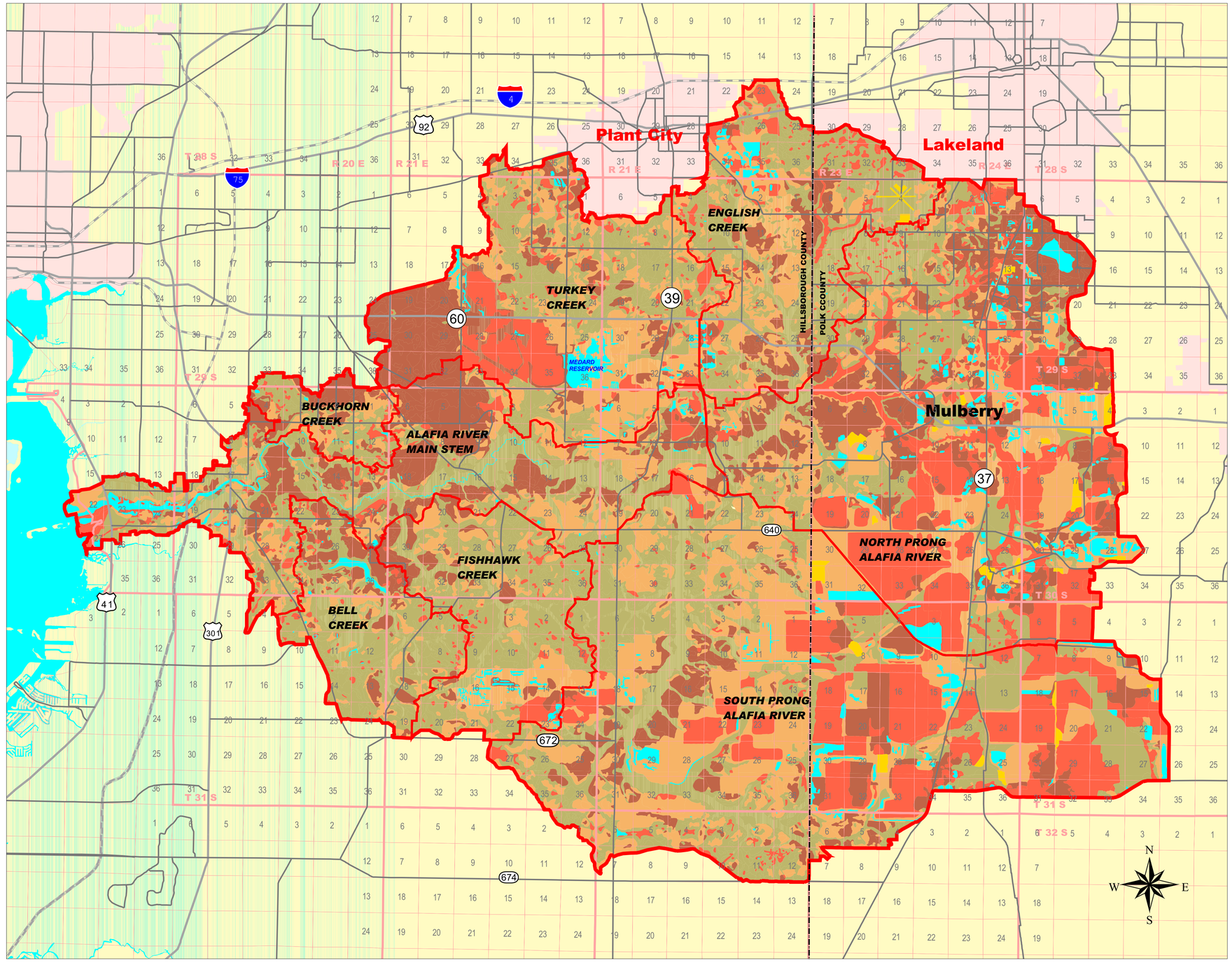
Figure 2.3-1
ALAFIA RIVER HYDROLOGIC SOIL GROUP CLASSIFICATION MAP



Legend

Watershed Boundary

- Watershed
- Subwatershed

Soil Group Classification

- A - High Infiltration
- B - Moderate Infiltration
- B or D Depending on Conditions
- C - Slow Infiltration
- D - Very Slow Infiltation
- W - Water

- Section/Township/Range
- Sections

Major Roads

- Primary road with limited access
- Primary road
- County Boundary

SOURCE:

Detailed soils from the United States Department of Agriculture/Natural Resources Conservation Service (formaly USDA/SCS) soil survey maps. These data represent the information found in the county level soils atlases.

REVISION: 1.0
DATE: April 1999

8000 0 8000 16000 Feet

Scale: 1" = 8,000'

HILLSBOROUGH COUNTY FLORIDA

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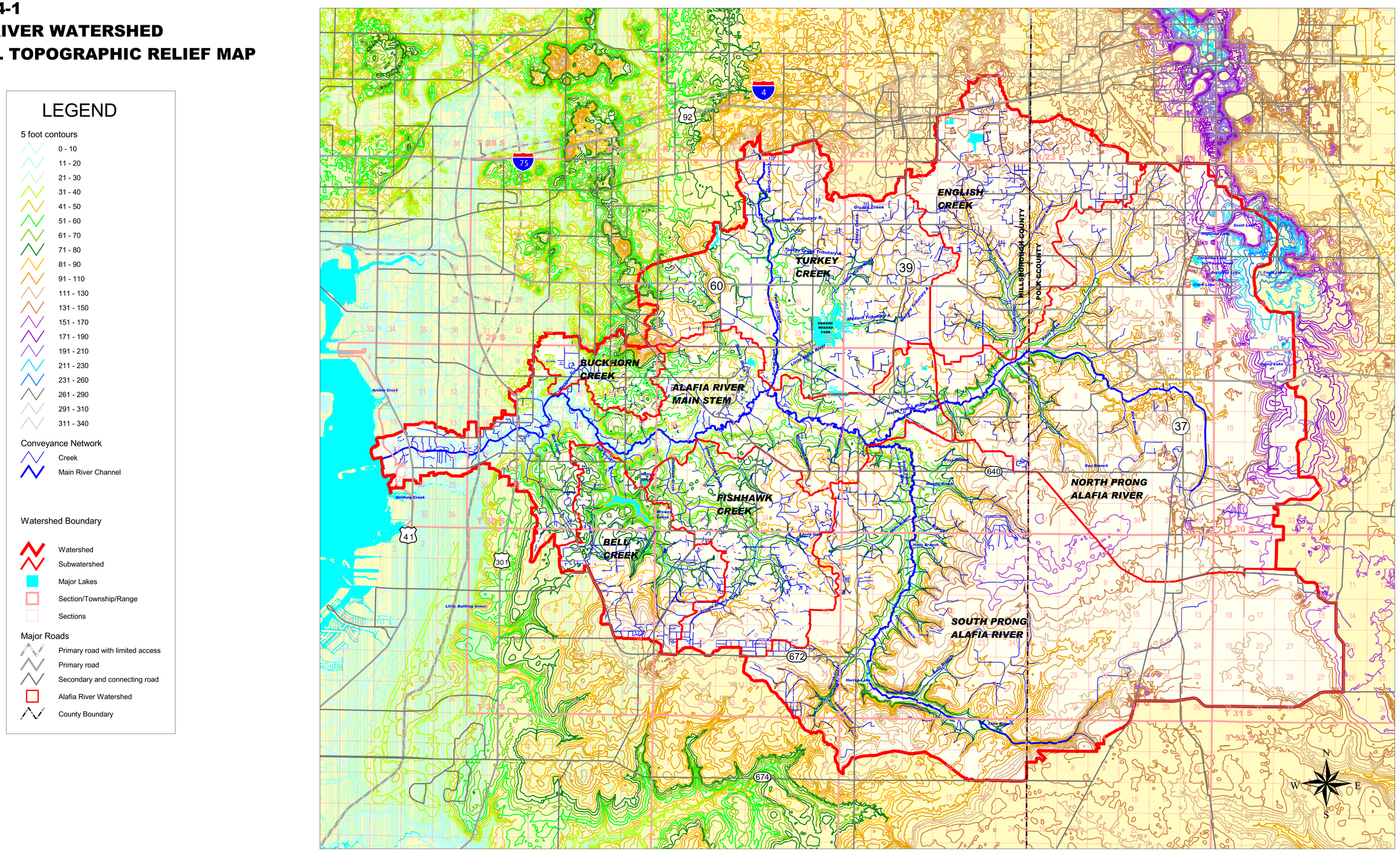
Figure 2.4-1
ALAFIA RIVER WATERSHED
GENERAL TOPOGRAPHIC RELIEF MAP



HILLSBOROUGH COUNTY
FLORIDA

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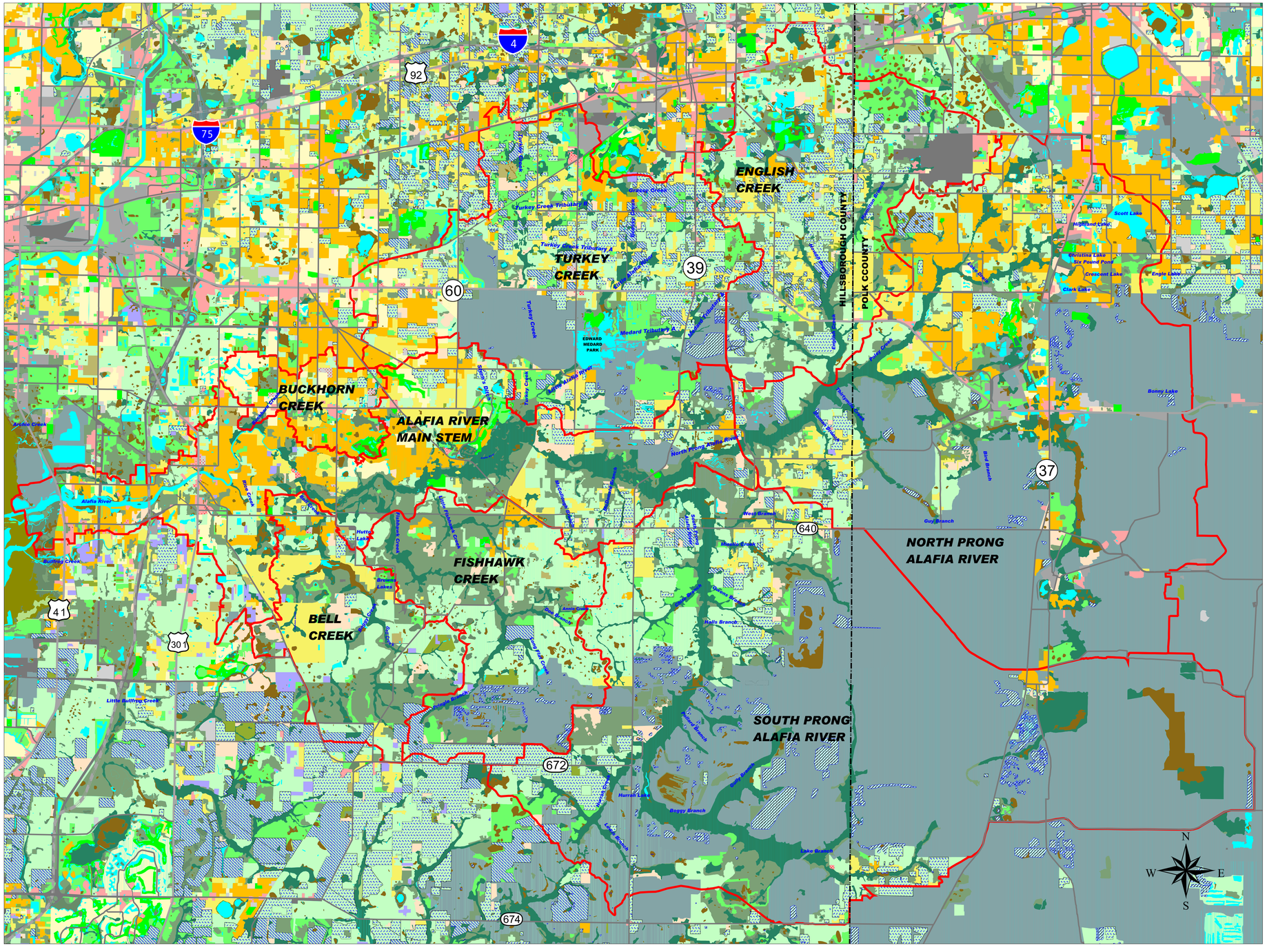
Figure 2.5-1
ALAFIA RIVER WATERSHED
EXISTING (1995) LAND USE MAP

LAND USE/COVER FLUCCS

- 1100 - RESIDENTIAL - LOW DENSITY
- 1200 - RESIDENTIAL - MEDIUM DENSITY
- 1300 - RESIDENTIAL - HIGH DENSITY
- 1400 - COMMERCIAL
- 1500 - INDUSTRIAL
- 1600 - MINING
- 1700 - INSTITUTIONAL
- 1800 - RECREATIONAL
- 1900/3000/7400 - OPEN/RANGE/BARREN LAND
- 2100 - IMPROVED PASTURES
- 2140 - ROW CROPS
- 2200 - TREE CROPS
- 2300 - FEEDING OPERATIONS
- 2400 - NURSERIES/SOD FARMS
- 2500 - SPECIALTY FARMS/FISH
- 2600 - AGRICULTURE - OPEN LANDS
- 4000 - UPLAND FORESTS
- 5000 - WATER
- 6150 - WETLANDS - BOTTOMLANDS
- 6200/6300 - WETLANDS - FORESTED
- 6400 - WETLANDS - NON FORESTED
- 6500 - WETLANDS - NO VEGETATED
- 8000 - TRANS./COMM./UTIL
- 1401/1701 - PERVIOUS
- 1660 - HOLDING PONDS

Watershed Boundary



Source: 1995 USGS DOQQ
MODIFIED SWFWMD 1995
LAND USE/COVER. UPDATED 1998

7000 0 7000 14000 Feet

Scale: 1" = 7,000'

HILLSBOROUGH COUNTY FLORIDA

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Figure 2.5-2
ALAFIA RIVER
FUTURE LAND USE MAP (2015)

Developed

Developed lands consist of areas of intensive use with much of the land occupied by man-made structures. Included in this catagories are cities, towns, villages, strip development along highways such areas as those occupied by malls, shopping centers, industrial and commecial complexes and institutions that, in some instances, are isolated from urban areas. Included here are transportation,utility and communication complexes.

Agriculture

In a broad sense, agricultural lands may be defined as those lands which are cultivated to produce food crops and livestock. The agriculture category includes: Cropland, pastureland, orchards, groves, nurseries, feeding operations and specialty farms.

Mining (active)

Extractive areas encompass both surface and subsurface mining operations. Included are sand, gravel and clay pits, phosphate mines, limestone quarries plus oil and gas wells. Industrial complexes where the extracted material is refined, packaged or further processed are also included in this catagory. Flooded pits and quarries which may be part of a mining operation are included.

Natural

Natural areas include categories such as upland forests and wetlands. Upland forests are areas that support a tree canopy closure of 10% or more. Wetlands are those areas where the water table is at, near or above the land surface for a significant part of the year. The hydrologic regime is such that aquatic or hydrophytic vegetation usually is established. Examples include marshes, mudflats, emergent vegetation areas and swamps. Included here are open land and rangeland. Rangelands are areas where the natural vegetation is predominantly grasses and shrubs and is capable of being grazed.

Water

Lakes and ponds, whether natural or man-made, are included in this category. Lakes are extensive inland water bodies. Ponds or reservoirs are artificial impoundments of water. They are used for irrigation, flood control, municipal and rural water supply and recreation. Bays, estuaries and the wide portion of the river are included.

Watershed/Subwatershed

SOURCE

Hillsborough County portion is from the Hillsborough County Planning Commission adopted 2015 Future Land Use. This is in reality an intended zoning tool, and there may ultimately be differences between zoning designations and realized build-out land use/cover.

Polk County portion is based on data from the Southwest Florida Regional Planning Council, 2010 Future Land Use, created in 1994.

HILLSBOROUGH COUNTY

The land use categories shown on the Future Land Use Map are identified according to the predominant use or maximum level of intensity intended for that category of land use. Other uses may be permitted in any land use category, as described within the individual plan category descriptions. Specific locations for uses other than the predominant use are not shown graphically because to do so would predetermine locations of individual uses at a level of detail beyond the scope of the Future Land Use Map. All uses shall be reviewed for conformance with the Goals, Objectives, and Policies of the Future Land Use Element, other Elements of the Comprehensive Plan and with applicable development standards.

The character of each land use category is defined by building type, residential density, functional use, non-residential intensities, or the physical composition of the land. The integration of these factors sets the general atmosphere and character of each land use category. Each category has a range of potentially permissible uses which are not exhaustive but are intended to be illustrative of the character of uses permitted within the land use designation. To further refine the range of potentially permissible uses a matrix is adopted as part of the Zoning Code which will implement, in part, the intent of the land use categories through the rezoning process. The matrix will identify the zoning districts, and consequently the uses, which may be considered within each category. Not all of those potential uses are routinely acceptable anywhere within that land use category. Each potential use must be evaluated for compliance with the Goal, Objectives, and Policies of the Future Land Use Element and with applicable development regulations.

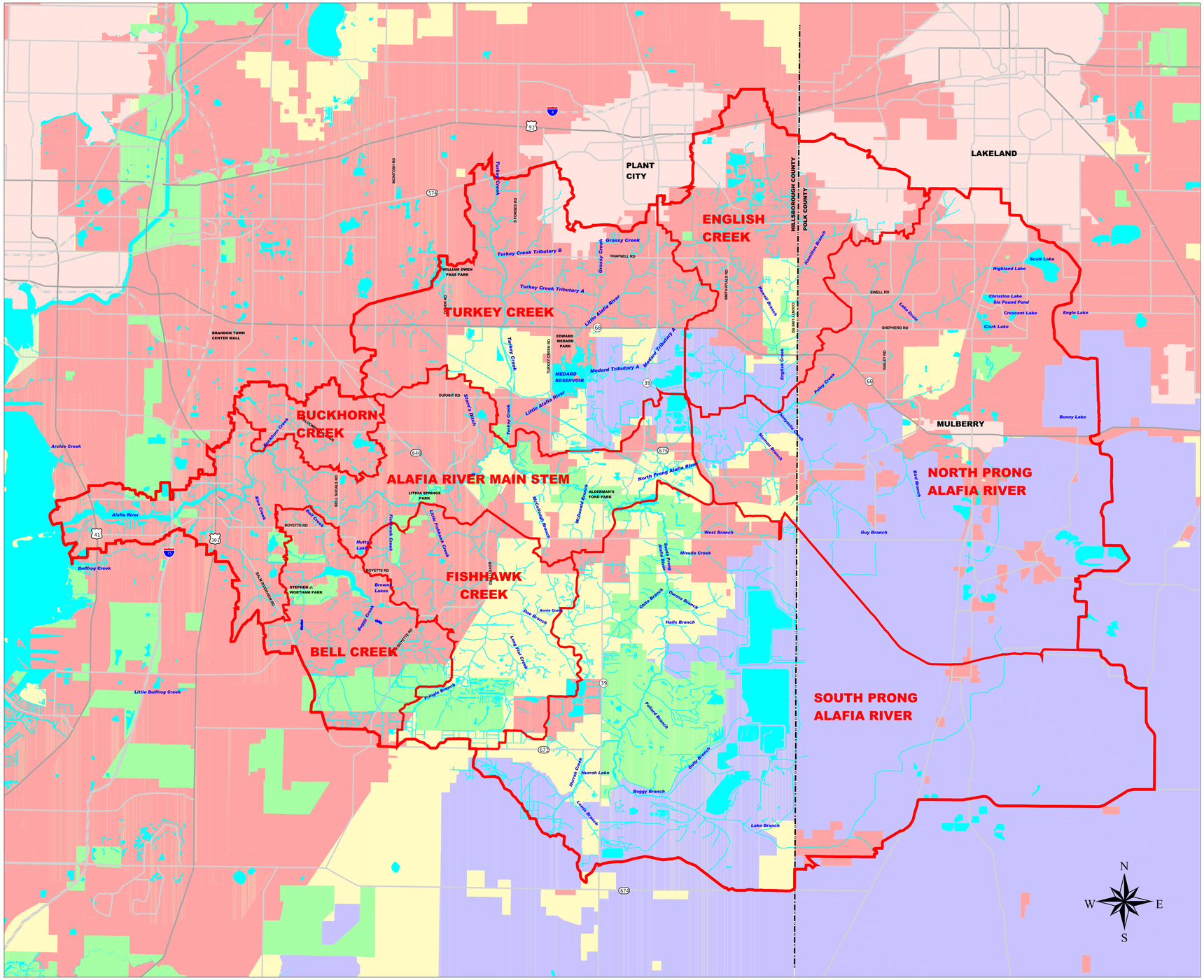
PLANT CITY
LAKELAND
HILLSBOROUGH COUNTY
POLK COUNTY
ENGLISH CREEK
TURKEY CREEK
BUCKHORN CREEK
ALAFIA RIVER MAIN STEM
FISHHAWK CREEK
BELL CREEK
NORTH PRONG ALAFIA RIVER
SOUTH PRONG ALAFIA RIVER
MULBERRY
BRANDON TOWN CENTER MALL
WILLIAM OWEN PASS PARK
EDWARD MEDARD PARK
MEDARD RESERVOIR
LITHIA SPRINGS PARK
ALDERMAN'S FORD PARK
STEPHEN J. WORTHAM PARK
Turkey Creek
Grassy Creek
Turkey Creek Tributary B
Turkey Creek Tributary A
Little Alafia River
Medard Tributary A
Stewart Ditch
Archie Creek
Alafia River
Bullfrog Creek
Little Bullfrog Creek
Bell Creek
Hunter Lake
Brown Lakes
Lithia Springs Creek
Little Fishhawk Creek
McCormick Branch
Richardson Branch
North Prong Alafia River
Mosaic Branch
Fishhawk Creek
Annie Creek
Dixie Branch
Long Pine Creek
Pringle Branch
Hurrah Creek
Hurrah Lake
Lovers Branch
Boggy Branch
Lake Branch
Sulfur Branch
Pollard Branch
Chalos Branch
Queens Branch
Halls Branch
Mizelle Creek
West Branch
Guy Branch
Bird Branch
Bonny Lake
Scott Lake
Highland Lake
Christina Lake
Six Pound Pond
Crescent Lake
Clark Lake
Engle Lake
Lake Drain
Hamilton Branch
Harvey Branch
English Creek
Poley Creek
Mosaic Branch
Tributary Creek
Turkey Creek Tributary
Lake Alafia River
Stewart Ditch
Tarpon Creek
Richardson Branch
Alderman Creek
Bell Creek
Fishhawk Creek
Annie Creek
Dixie Branch
Long Pine Creek
Pringle Branch
Hurrah Creek

FIGURE 5.1-4

BUCKHORN CREEK SUBWATERSHED MODEL NETWORK MAP

PROVIDENCE RD
WATSON RD
JOHN MOORE RD
SWINGS AVE
BARKFIELD ST
BROOKER RD
BRYAN RD
BELL SHOALS RD
E BLOOMINGDALE AVE
LITHIA PINECREST RD

LEGEND

- JUNCTIONS
- DUMMY JUNCTIONS

CONVEYANCE NETWORK

- CREEK
- RIVER
- STRUCTURE

SUBBASIN BOUNDARY

- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

0 750 1500 Feet

1" = 750'

N W E S

HILLSBOROUGH COUNTY FLORIDA

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FIGURE 5.1-4

BUCKHORN CREEK SUBWATERSHED MODEL NETWORK MAP

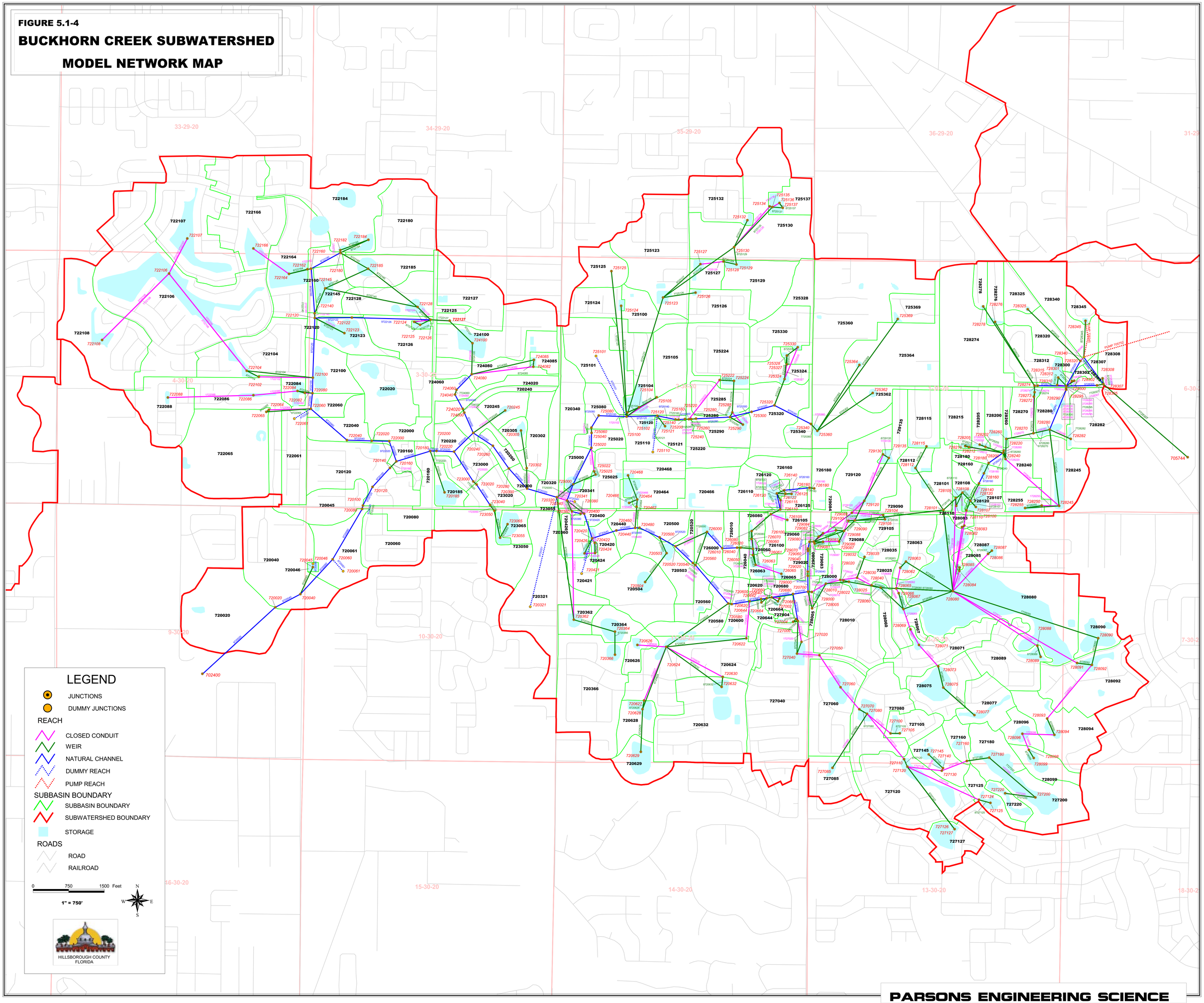


FIGURE 5.2-4

BELL CREEK SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS
- DUMMY JUNCTIONS

CONVEYANCE NETWORK
- CREEK
- RIVER
- STRUCTURE

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

0 1000 2000 Feet

1" = 1000'

N W E S

HILLSBOROUGH COUNTY FLORIDA

BELL SHOALS RD

BOYETTE RD

BALM RIVERVIEW RD

RHODINE RD

BIG BEND RD

BALM BOYETTE RD

HOBSON SIMMONS RD

PARSONS ENGINEERING SCIENCE

FIGURE 5.2-4

BELL CREEK SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS
- DUMMY JUNCTIONS

REACH
- CLOSED CONDUIT
- WEIR
- NATURAL CHANNEL
- DUMMY REACH

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

ROADS
- ROAD
- RAILROAD

0 1000 2000 Feet

1" = 1000'

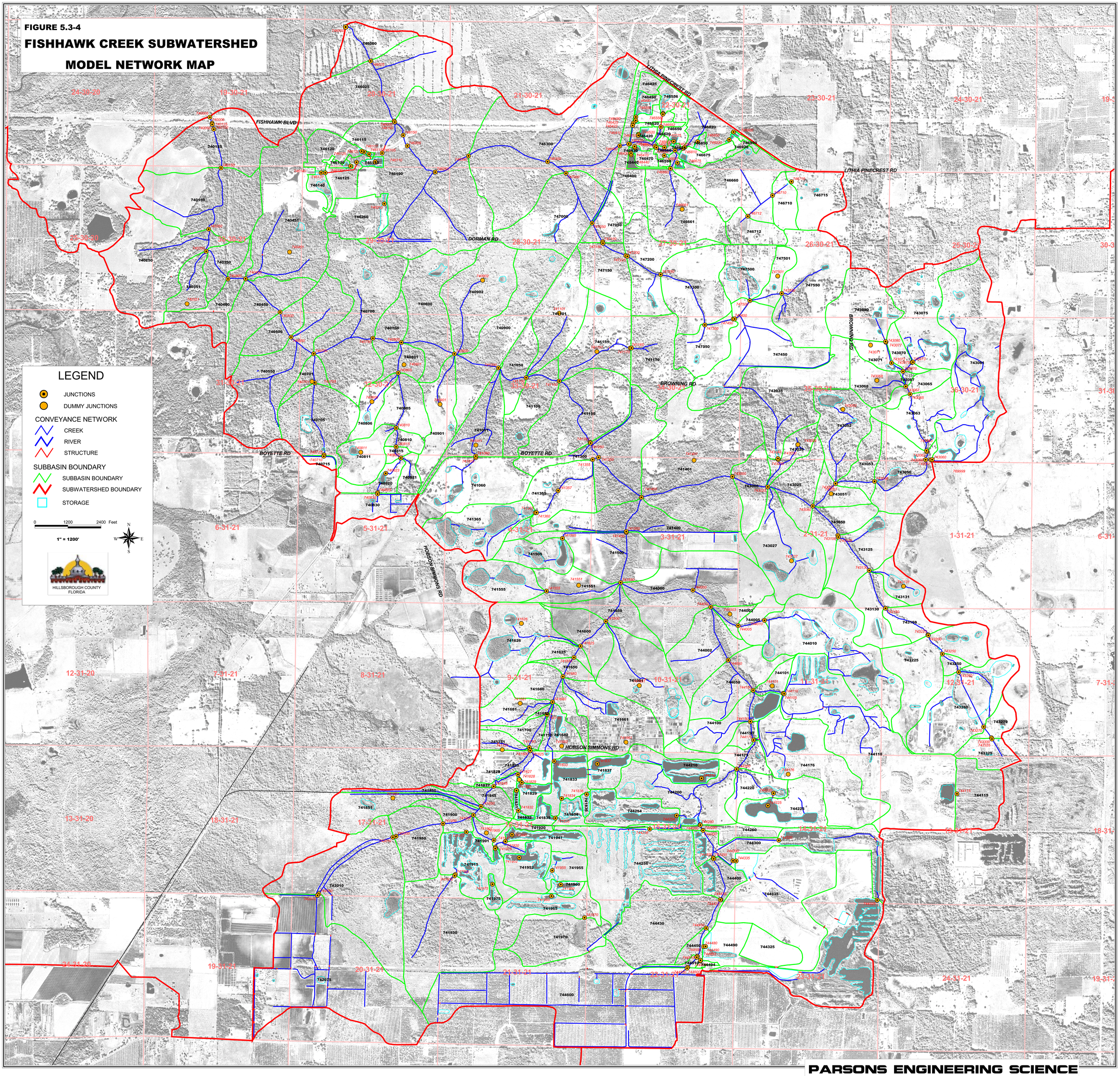
N W E S

HILLSBOROUGH COUNTY
FLORIDA

PARSONS ENGINEERING SCIENCE

FIGURE 5.3-4

FISHHAWK CREEK SUBWATERSHED MODEL NETWORK MAP



PARSONS ENGINEERING SCIENCE

FIGURE 5.3-4

FISHHAWK CREEK SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS
- DUMMY JUNCTIONS

REACH
- CLOSED CONDUIT
- WEIR
- NATURAL CHANNEL
- DUMMY REACH

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

ROADS
- ROAD
- RAILROAD

0 1200 2400 Feet

1" = 1200'

N W E S

HILLSBOROUGH COUNTY FLORIDA

PARSONS ENGINEERING SCIENCE

FIGURE 5.4-4

TURKEY CREEK SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS

CONVEYANCE NETWORK
- CREEK
- RIVER
- STRUCTURE

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

0 1500 3000 Feet

1" = 1500'

N W E S

HILLSBOROUGH COUNTY FLORIDA

MARTIN LUTHER KING BLVD
SYDNEY RD
SALEM CHURCH RD
W O'G RIFFIN RD
EDWARDS RD
W TRAPNELL RD
MUD LAKE RD
SAM ASTIN RD
CHARLIE GRIFFIN RD
W ALEXANDER ST
JAMES L REDMAN PKWY
SPARKMAN RD
KILGORE RD
COWART RD
PIPPIN RD
COLSON RD
HOLLOWAY RD
BERRY PATCH RD
TURKEY CREEK RD
N DOVER RD
E STATE ROAD 60
W STATE ROAD 60
S MILLER RD
S DOVER RD
S COUNTY ROAD 39
S VALRICO RD
DURANT RD
LITHIA PINECREST RD
W KEYSVILLE RD
HENRY GEORGE RD

PARSONS ENGINEERING SCIENCE

FIGURE 5.4-4

TURKEY CREEK SUBWATERSHED MODEL NETWORK MAP

LEGEND

JUNCTIONS

REACH
- CLOSED CONDUIT
- WEIR
- NATURAL CHANNEL
- DUMMY REACH
- PUMP REACH

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

ROADS
- ROAD
- RAILROAD

0 2000 4000 Feet

1" = 2000'

N W E S

HILLSBOROUGH COUNTY
FLORIDA

PARSONS ENGINEERING SCIENCE

FIGURE 5.5-4

ENGLISH CREEK SUBWATERSHED MODEL NETWORK MAP

HILLSBOROUGH COUNTY

POLK COUNTY

RICE RD

SPARKMAN RD

E TRAPNELL RD

NESMITH RD

S MAGNOLIA RD

OLD HOPEWELL RD

LEGEND

JUNCTIONS

CONVEYANCE NETWORK

- CREEK
- RIVER
- STRUCTURE

SUBBASIN BOUNDARY

- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

0 2000 4000 Feet

1" = 2000'

N W E S

HILLSBOROUGH COUNTY FLORIDA

PARSONS ENGINEERING SCIENCE

FIGURE 5.5-4

ENGLISH CREEK SUBWATERSHED MODEL NETWORK MAP

HILLSBOROUGH COUNTY

POLK COUNTY

S WIGGINS RD

RICE RD

SPARKMAN RD

NESMITH RD

OLD HOPEWELL RD

E TRAPNELL RD

LEGEND

JUNCTIONS

REACH
- WEIR
- CLOSED CONDUIT
- NATURAL CHANNEL

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

ROADS
- ROAD
- RAILROAD

0 2000 4000 Feet

1" = 2000'

N W E S

HILLSBOROUGH COUNTY FLORIDA

PARSONS ENGINEERING SCIENCE

FIGURE 5.6-4

NORTH PRONG ALAFIA RIVER SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS

CONVEYANCE NETWORK
- CREEK
- RIVER
- STRUCTURE

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY

- STORAGE

ROADS
- ROAD
- RAILROAD

0 3000 6000 Feet

1" = 3000'

N W E S

HILLSBOROUGH COUNTY
FLORIDA

HILLSBOROUGH COUNTY

POLK COUNTY

HENRY GEORGE RD

HOOTON RD

PRITCHER RD

NICHOLS RD

PORTER RD

PARSONS ENGINEERING SCIENCE

FIGURE 5.6-4

NORTH PRONG ALAFIA RIVER SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS

REACH
- CLOSED CONDUIT
- WEIR
- NATURAL CHANNEL

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY

- STORAGE

ROADS
- ROAD
- RAILROAD

0 3000 6000 Feet

1" = 3000'

N W E S

HILLSBOROUGH COUNTY FLORIDA

HILLSBOROUGH COUNTY

POLK COUNTY

PARSONS ENGINEERING SCIENCE

FIGURE 5.7-4

SOUTH PRONG ALAFIA RIVER SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS
- CONVEYANCE NETWORK
  - CREEK
  - RIVER
  - STRUCTURE
- SUBBASIN BOUNDARY
  - SUBBASIN BOUNDARY
  - SUBWATERSHED BOUNDARY
  - STORAGE

0 3000 6000 Feet

1" = 3000'

N W E S

HILLSBOROUGH COUNTY FLORIDA

HILLSBOROUGH COUNTY

POLK COUNTY

LITHIA PINECREST RD

E KEYSVILLE RD

WALTER HUNTER RD

SCHOOLROAD

JAMESON RD

HISCOCK RD

STATE ROAD 674

672

PARSONS ENGINEERING SCIENCE

FIGURE 5.7-4

SOUTH PRONG ALAFIA RIVER SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS
- REACH
  - WEIR
  - CLOSED CONDUIT
  - NATURAL CHANNEL
- SUBBASIN BOUNDARY
  - SUBBASIN BOUNDARY
  - SUBWATERSHED BOUNDARY
  - STORAGE
- ROADS
  - ROAD
  - RAILROAD

0 3000 6000 Feet

1" = 3000'

HILLSBOROUGH COUNTY FLORIDA

HILLSBOROUGH COUNTY

POLK COUNTY

LITHIA PINECREST RD

E KEYSVILLE RD

WALTER HUNTER RD

COUNTY ROAD 39

HISCOCK RD

STATE ROAD 674

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FIGURE 5.8-4

ALAFIA RIVER MAIN (EAST) STEM SUBWATERSHED MODEL NETWORK MAP

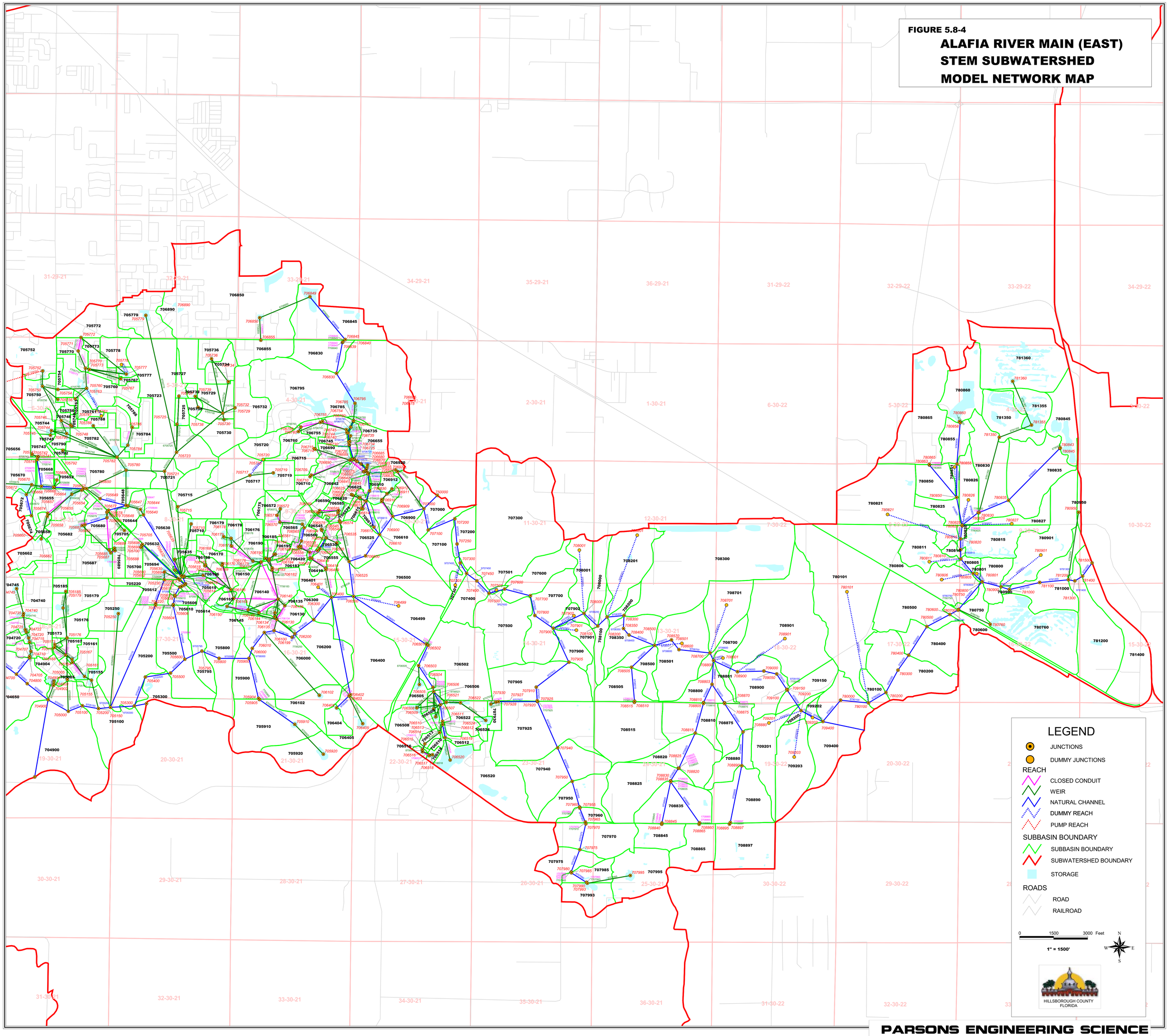

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FIGURE 5.8-4

ALAFIA RIVER MAIN (WEST) STEM SUBWATERSHED MODEL NETWORK MAP

LEGEND

- JUNCTIONS
- DUMMY JUNCTIONS

REACH
- CLOSED CONDUIT
- WEIR
- NATURAL CHANNEL
- DUMMY REACH
- PUMP REACH

SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

ROADS
- ROAD
- RAILROAD

0 1500 3000 Feet

1" = 1500'

N W E S

HILLSBOROUGH COUNTY FLORIDA

PARSONS ENGINEERING SCIENCE

FIGURE 5.8-4

ALAFIA RIVER MAIN STEM SUBWATERSHED (EAST) MODEL NETWORK MAP

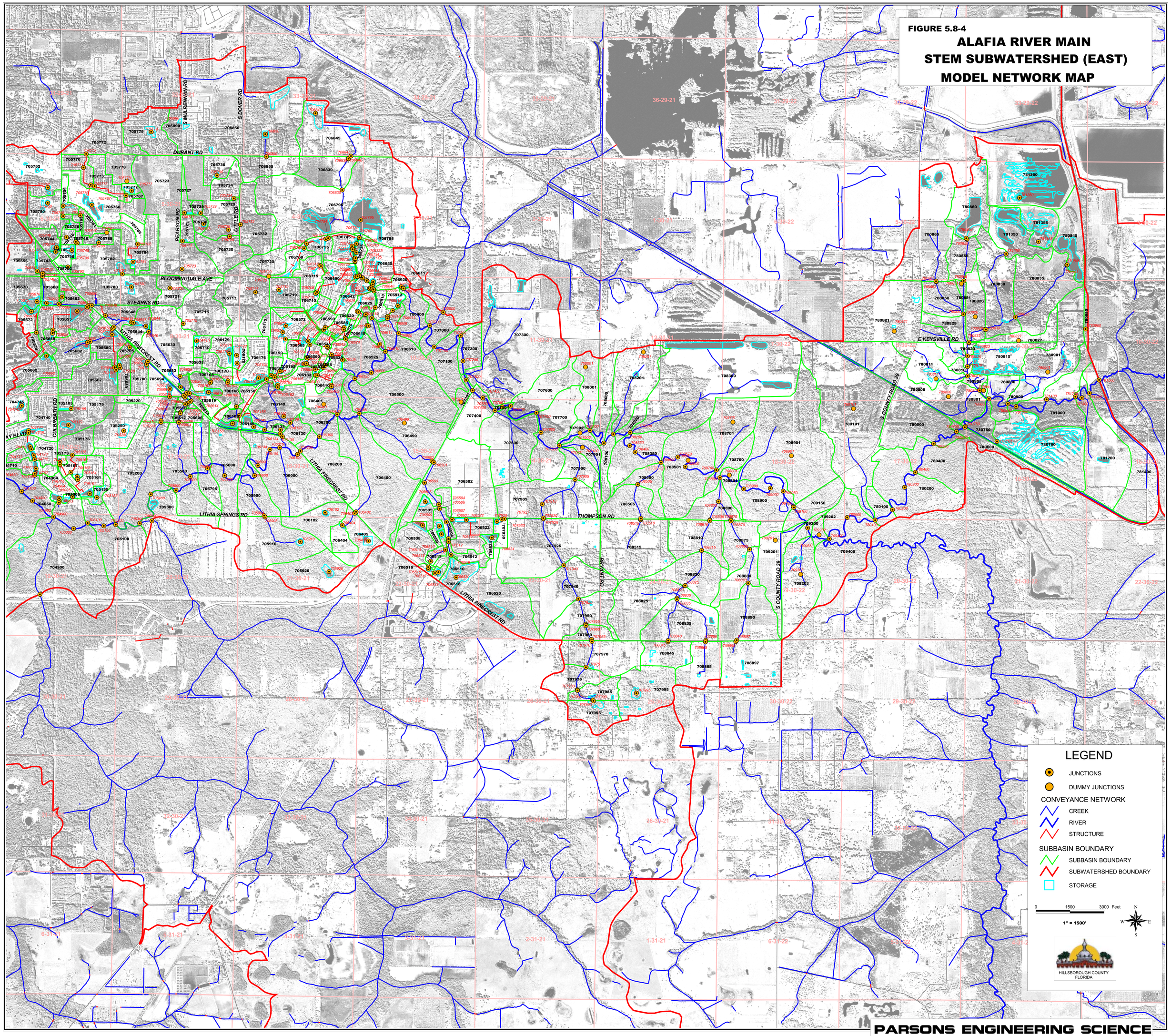

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FIGURE 5.8-4

ALAFIA RIVER MAIN STEM SUBWATERSHED (WEST) MODEL NETWORK MAP

LEGEND

- JUNCTIONS
- DUMMY JUNCTIONS

CONVEYANCE NETWORK

- CREEK
- RIVER
- STRUCTURE

SUBBASIN BOUNDARY

- SUBBASIN BOUNDARY
- SUBWATERSHED BOUNDARY
- STORAGE

0 1500 3000 Feet

1" = 1500'

N W E S

HILLSBOROUGH COUNTY FLORIDA

BLOOMINGDALE AVE
WATSON RD
WATSON RD
PROVIDENCE RD
S KINGS AVE
JOHN MOORE RD
VALRIE LN
REVELS RD
BELL SHOALS RD
NATURES WAY BLVD
MCMULLEN LOOP
US HIGHWAY 301
US HIGHWAY 301
INTERSTATE 75 S
RIVERVIEW DR
RIVERVIEW DR
S US HIGHWAY 41
GIBSONTON DR
BOYETTE RD
BALM RIVERVIEW RD
MCMULLEN RD
BALM RIVERVIEW RD
RHODINE RD
FISHHAWK BLVD

PARSONS ENGINEERING SCIENCE