

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

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## OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

**FILE** P.I. # 0012670

Clayton County

GDOT District 7 - Metro Atlanta

Signal Upgrades: SR 3 at 6 locations;

SR 54 at 1 location; SR 138 at 1 location;

SR 314 at 3 locations

**OFFICE** Design Policy & Support

**DATE** 10/24/2014

*Description Corrected  
10/09/2015 (DRP)*

**FROM**  for Brent Story, State Design Policy Engineer

**TO** SEE DISTRIBUTION

**SUBJECT** APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

**DISTRIBUTION:**

Glenn Bowman, Director of Engineering

Joe Carpenter, Director of P3/Program Delivery

Genetha Rice-Singleton, Assistant Director of P3/Program Delivery

Bobby Hilliard, Program Control Administrator

Albert Shelby, State Program Delivery Engineer

Cindy VanDyke, State Transportation Planning Administrator

Hiral Patel, State Environmental Administrator

Ben Rabun, State Bridge Engineer

Kathy Zahul, State Traffic Engineer

Angela Robinson, Financial Management Administrator

Lisa Myers, State Project Review Engineer

Charles "Chuck" Hasty, State Materials Engineer

Mike Bolden, State Utilities Engineer

Richard Cobb, Statewide Location Bureau

Katelyn Digioia, State Pedestrian and Bicycle Coordinator

Rachel Brown, District Engineer

Scott Lee, District Preconstruction Engineer

Patrick Allen, District Utilities Engineer

Xavier James, Project Manager

BOARD MEMBER - 5th and 13th Congressional Districts

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
LIMITED SCOPE PROJECT CONCEPT REPORT**

Project Type: <u>Reconstruction / Rehabilitation</u>	P.I. Number: <u>0012670</u>
GDOT District: <u>7</u>	County: <u>Clayton</u>
Federal Route Number: <u>19, 41</u>	State Route Number: <u>3, 54, 138, 314</u>

SR 3 @ <sup>6</sup>7 LOCS; SR 54 @ 1 LOC & SR 314 @ 3 LOCS IN CLAYTON CO ; SR 138 @ 1 LOC

10/9/2015

**Submitted for approval:**

Michael R. Holt, PE <i>Michael R. Holt</i>	<u>08/25/2014</u>
Parsons Brinckerhoff, Inc.	DATE
<i>Albert Shelby</i>	<u>9.8.14</u>
State Program Delivery Engineer	DATE
<i>Xavier James</i>	<u>8/26/14</u>
GDOT Project Manager	DATE

**Recommendation for approval:**

* <i>HIRAL DATEL</i>	<u>9/16/2014</u>
State Environmental Administrator	DATE
* <i>KATHY ZAHUL</i>	<u>10/2/2014</u>
State Traffic Engineer	DATE
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).	
* <i>CHLOTHIA L VAUGHN</i>	<u>9/17/2014</u>
State Transportation Planning Administrator	DATE

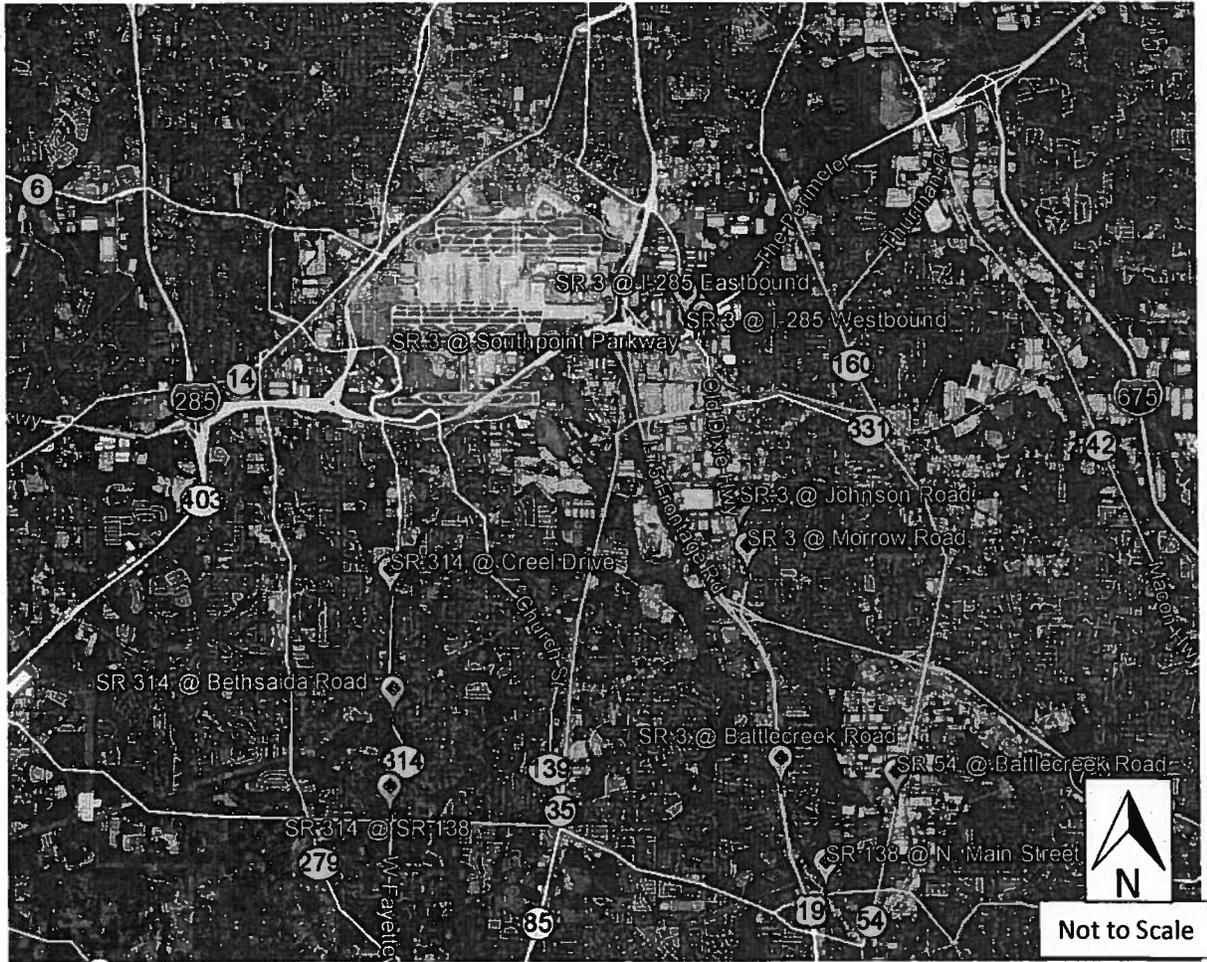
**Approval:**

Concur: *Mike Bon* 10/14/14  
 GDOT Director of Engineering DATE

Approve: *Bill R. Williams* 10/20/14  
 GDOT Chief Engineer DATE

\* RECOMMENDATION ON FILE *[Signature]*

### PROJECT LOCATION MAP



## PLANNING & BACKGROUND DATA

**Project Justification Statement:** The following intersections located in Clayton County have been identified by The Office of Traffic Operation as high priority for minor intersection improvements. The proposed project is to be included in the Region-wide Signal Upgrade Program Lump Sum.

- SR 314/ West Fayetteville Rd @ SR 138
- SR 314/ West Fayetteville Rd @ Bethsaida Road
- SR 314/ West Fayetteville Rd @ Creel Drive
- SR 3/ US 19/ US 41/ Tara Blvd @ Battlecreek Road
- SR 54/Jonesboro Rd @ Battlecreek Road
- SR 138 @ North Main Street
- SR 3/ US 19/41 / Old Dixie Rd @ Morrow Road
- SR 3/ US 19/41 / Old Dixie Rd @ Johnson Road
- SR 3/ US 19/41 / Old Dixie Rd @ Southpoint Parkway
- SR 3/ US 19/41 / Old Dixie Rd @ I-285 Eastbound Ramp
- SR 3/ US 19/41 / Old Dixie Rd @ I-285 Westbound Ramp

The District has noted obsolete equipment and ADA compliance as reason to upgrade each intersection. The project will upgrade equipment, accommodate pedestrians, and update pedestrian facilities to meet current ADA standards. The Office of Traffic Operations has justified these upgrades based on the following deficiencies: pedestrian accommodations, ADA compliance, old conductor cable, 332 cabinet w/2070, support poles/mast arms, utility issues, and signal interconnect.

The standard project limits will be 200 feet from the center point of each intersection; should setback loops need replacement, the project limits will be 500 feet from the center point of the intersection. If setback loops are present, the survey should include the edge of pavement and property lines to the setback loop. Standard erosion control details should be used. Traffic studies are not needed for this project. The scope of this project will be limited to equipment upgrades, pedestrian accommodations, and updating pedestrian facilities to meet ADA standards. Funding is provided by ARC. All communications and meetings involving this project should include the Office of Traffic Operations.

### Existing conditions:

#### **Mainline Design Features: SR 314 / W Fayetteville Rd from SR 138 to Creel Dr**

SR 314 is an undivided roadway with one 11 foot lane in each direction, rural shoulders with curb and gutter drainage in some sections and exclusive left or right turn lanes at most major intersections. The speed limit is 45 mph south of Bethsaida Rd and 40 mph north of Bethsaida Rd along this segment. Sidewalks exist between Thornhedge Dr and Cheryl Leigh Dr, as well as in front of Fountain of Faith Missionary Church, along this segment.

#### **Mainline Design Features: SR 3 / US 19 / US 41 / Tara Blvd at Battlecreek Rd**

SR 3 / Tara Blvd is a median separated roadway with three 12 foot lanes in each direction, 36 ft median, curb and gutter drainage and exclusive left or right turn lanes at most major intersections. The speed limit is 45 mph along this segment. No sidewalks exist at this intersection.

**Mainline Design Features: SR 54/Jonesboro Rd at Battlecreek Rd**

SR 54 is an undivided roadway with two 11 foot lanes in the northbound direction, two 12 foot lanes in the southbound direction, a two-way left-turn lane, curb and gutter drainage and exclusive left or right turn lanes at most major intersections. The speed limit is 45 mph along this segment. An existing 6' sidewalk in the northeast corner of the intersection extends approximately 750' to the north and 425' to the east.

**Mainline Design Features: SR 138 at N Main St**

SR 138 is an undivided roadway with two 12 foot lanes in each direction, a two-way left-turn lane, curb and gutter drainage and exclusive left turn lanes. The speed limit is 45 mph along this segment. Two 4' sidewalks extend from the northeast and southeast corners of the intersection to the east. Painted islands exist on all four corners of the intersection. The southeast and northwest corners painted islands are larger than the other two corners, and service shared through-right lanes.

**Mainline Design Features: SR 3 / US 41 / Old Dixie Rd from Johnson Rd to Morrow Rd**

SR 3 / US 41 / Old Dixie Rd is an undivided roadway with two 12 foot lanes in each direction, a two-way left-turn lane, curb and gutter drainage and exclusive left or right turn lanes at the intersections. The speed limit is 45 mph along this segment. A sidewalk exists on the northwest corner of the intersection of SR 3 @ Johnson Rd, extending to the north.

**Mainline Design Features: SR 3 / US 41 / Old Dixie Rd from Morrow Rd to I-285 Westbound**

SR 3 / US 41 / Old Dixie Rd is an undivided roadway with two 12 foot lanes in each direction, a two-way left-turn lane, curb and gutter drainage and exclusive left or right turn lanes at the intersections. The speed limit is 40 mph along this segment. Sidewalks exist on the bridge over I-285, on the east side of the road between I-285 Eastbound ramp and Southpoint Dr, and on both sides south of Southpoint Dr. Auxiliary lanes exist between on the bridge over I-285.

**Side Road Design Features: SR 138 at SR 314 / West Fayetteville Rd**

SR 138 is an undivided roadway with two 12 foot lanes in each direction, a two-way left-turn lane, curb and gutter drainage and exclusive left turn lanes at SR 314. The speed limit is 45 mph along this segment. No sidewalks exist at the intersection.

**Side Road Design Features: Bethsaida Rd at SR 314 / West Fayetteville Rd**

Bethsaida Rd is an undivided two lane roadway with one 10 foot lane in each direction, with left-turn lanes at the intersection of SR 314. The speed limit is 35 mph and no sidewalks exist at the intersection.

**Side Road Design Features: Creel Dr at SR 314 / West Fayetteville Rd**

Creel Dr is an undivided two lane roadway with one 10 foot lane in each direction, with left-turn lanes at the intersection of SR 314. The speed limit is 35 mph and no sidewalks exist at the intersection.

**Side Road Design Features: Battlecreek Rd from SR 3 to SR 54**

Battlecreek Rd is an undivided two lane roadway with one 11 foot lane in each direction, with left-turn lanes at the intersection of SR 3, and both left and right turn lanes at the intersection of SR 54. The speed limit is 40 mph and no sidewalks exist along this segment.

**Side Road Design Features: North Main St at SR 138**

North Main St is an undivided roadway with two 12 foot lanes in each direction, a two-way left-turn lane, curb and gutter drainage and exclusive left turn lanes at the intersection of SR 318. The speed

limit is 45 mph north of the intersection and 35 mph south of the intersection. Sidewalks exist on the northeast corner of the intersection.

**Side Road Design Features: Morrow Rd at SR 3 / US 19/41 / Old Dixie Rd**

Morrow Rd is an undivided two lane roadway with one 10 foot lane in each direction to the west of SR 3, and one 11 foot lane in each direction and a two-way left-turn lane to the east of SR 3. At the intersection of SR 3, Morrow Rd has an exclusive left turn lane for the eastbound and westbound approaches, and an exclusive right-turn lane for the westbound approach. The speed limit is 35 mph at this intersection. A short segment of 6 foot sidewalk extends one parcel to the west on the north side of Morrow Rd.

**Side Road Design Features: Johnson Rd at SR 3 / US 19/41 / Old Dixie Rd**

Johnson Rd is an undivided roadway with one 12 foot lane in each direction, curb and gutter drainage and an exclusive westbound right-turn lane at the intersection of SR 3. The speed limit is 25 mph and no sidewalks exist at this intersection.

**Side Road Design Features: Southpoint Dr at SR 3 / US 19/41 / Old Dixie Rd**

Southpoint Dr is an undivided roadway with one 12 foot lane in each direction, a two-way left-turn lane, curb and gutter drainage and left and right turn lanes at the "T" intersection with SR 3. A 12 foot landscaped median exists at the intersection with SR 3. The speed limit is 25 mph and no sidewalks exist along Southpoint Dr. A sidewalk exists on the south leg of SR 3.

**Side Road Design Features: I-285 Eastbound at SR 3 / US 19/41 / Old Dixie Rd**

I-285 Eastbound has two 12 foot entrance lanes, and those two lanes merge into one along the ramp before arriving at the mainline of the collector-distributor road. One lane exits from the I-285 eastbound collector-distributor road and widens into two left turn lanes and one right turn lane at the intersection of SR 3 and I-285 Eastbound Ramps. The speed limit is not posted along the ramps.

**Side Road Design Features: I-285 Westbound at SR 3 / US 19/41 / Old Dixie Rd**

I-285 Westbound has two 12 foot entrance lanes, and those two lanes merge into one along the ramp before arriving at the mainline of the collector-distributor road. One lane exits from the I-285 westbound collector-distributor road and widens into two left turn lanes and one right turn lane at the intersection of SR 3 and I-285 Westbound Ramps. The speed limit is not posted along the ramps.

**Other projects in the area:**

0004445 - SR 54/JONESBORO 16 SIGNAL UPGRADES FM REX RD TO EAST DIXIE

This project will upgrade 12 traffic signals located on SR 54/Jonesboro Rd in Clayton County. The proposed project would improve the overall efficiency and safety of traffic flow on the SR 54 corridor. Improvements include the installing of start of the art traffic signal control equipment (signs, poles, signal mast arms, signal heads, controller cabinets, pedestrian signals, crosswalks, sidewalk ramps, and coordination through fiber optic communications cable.) The project will also add turn lanes at three of the intersections.

751295- SR 54 FROM SR 138 TO 0.19 MI N OF OXFORD DRIVE

No project description is available on TransPi. Construction is listed as long range (LR2).

751775- BATTLECREEK RD FM VALLEY HILL RD TO SOUTHLAKE PKWY

The construction consists of widening Battlecreek Rd. from the existing two lane facility to four, 12' lanes with a 20' raised median and urban shoulders consisting of 2.5' curb & gutter, 6' grassed strip & 5' sidewalks. The intersection of Battlecreek Rd. and Valley Hill Rd. will be realigned to provide an

east-west thru movement from eastbound Valley Hill Rd. to eastbound Battlecreek Rd. Temporary on-site detour pavement will be utilized at various locations to facilitate vertical reconstruction of Battlecreek Rd. Construction program year is 2018.

751850- SR 314 FM SR 279/FAYETTE TO CR 1346/CREEL DR/CLAYTON

No project description is available on TransPi. Construction is listed as long range (LR2).

751855- SR 314 FROM CR 1346/CREEL DRIVE TO SR 139

No project description is available on TransPi. Construction is listed as long range (LR2).

M004416 - SR 314 FROM SR 279/FAYETTE TO SR 139/CLAYTON

This project is the resurfacing of S.R. 314. This section of S.R. 314 needs resurfacing because the existing pavement is deteriorating. S.R. 314 was last resurfaced in 1998.

M004580 - SR 54 FROM SR 138 SP/CLAYTON TO I-285/FULTON

This project is the leveling and resurfacing of SR 54. This section of SR 54 needs resurfacing because the existing pavement is deteriorating. SR 54 was last resurfaced in 1998.

M004641 - SR 138 FROM SR 279/FULTON TO SR 3/CLAYTON

This project is the resurfacing of S.R. 138. This section of S.R. 138 needs resurfacing because the existing pavement is deteriorating. S.R. 138 was last resurfaced in 2000.

**Description of the proposed project:**

The purpose of this project consists of developing traffic signal plans for the upgrade of eleven (11) existing traffic signal installations in Clayton County. The work shall consist of traffic signalization upgrades, including LED vehicular signals, countdown pedestrian signals, ADA wheelchair ramps, and crosswalk striping at all 11 intersections. The intersections are listed below:

1. SR 314/ West Fayetteville Rd @ SR 138
2. SR 314/ West Fayetteville Rd @ Bethsaida Road
3. SR 314/ West Fayetteville Rd @ Creel Drive
4. SR 3/ US 19/ US 41/ Tara Blvd @ Battlecreek Road
5. SR 54/Jonesboro Rd @ Battlecreek Road
6. SR 138 @ North Main Street
7. SR 3/ US 19/41 / Old Dixie Rd @ Morrow Road
8. SR 3/ US 19/41 / Old Dixie Rd @ Johnson Road
9. SR 3/ US 19/41 / Old Dixie Rd @ Southpoint Parkway
10. SR 3/ US 19/41 / Old Dixie Rd @ I-285 Eastbound Ramp
11. SR 3/ US 19/41 / Old Dixie Rd @ I-285 Westbound Ramp

**MPO:** Atlanta Regional Commission (ARC)

**TIP #:**

**TIA Regional Commission:** Not a TIA Project

**Congressional District(s):** 5, 13

**Federal Oversight:**  Exempt  State Funded  Other

**Projected Traffic:** N/A

Current Year (20WW): N/A Open Year (20XX): N/A

Design Year (20YY): N/A

Traffic Projections Performed by: N/A

**Functional Classification (Mainline):** Urban Interstate Principal Arterial

- I-285 Eastbound @ SR 3 / US 19/41 / Old Dixie Rd
- I-285 Westbound @ SR 3 / US 19/41 / Old Dixie Rd

**Functional Classification (Mainline):** Urban Principal Arterial

- SR 3 / US 19/41 / Tara Blvd @ Battlecreek Road
- SR 138 @
  - SR 314
  - North Main St

**Functional Classification (Mainline):** Urban Minor Arterial Street

- SR 314 @
  - Creel Drive
  - Bethesda Road
- SR 54 / Jonesboro Rd @ Battlecreek Road
- SR 3 / US 41 / Old Dixie Rd @
  - Morrow Road
  - Johnson Road
  - Southpoint Parkway

**Complete Streets - Bicycle, Pedestrian, and/or Transit Warrants: N/A**

Warrants met:  None  Bicycle  Pedestrian  Transit

## DESIGN AND STRUCTURAL

**Mainline Design Features:** SR 314 / West Fayetteville Rd from SR 138 to Creel Dr

Feature	Existing	Standard*	Proposed
<b>Typical Section</b>			
- Number of Lanes	2		N/A
- Lane Width(s)	11 ft.		N/A
- Median Width & Type	None / 14 ft. flush		N/A
- Outside Shoulder or Border Area Width	N/A		N/A
- Outside Shoulder Slope	N/A		N/A
- Inside Shoulder Width	N/A		N/A
- Sidewalks	Some Sections		N/A
- Auxiliary Lanes	Yes (Left and Right Turn Lanes)		N/A
- Bike Lanes	None		N/A
<b>Posted Speed</b>	40 / 45 mph		N/A
<b>Design Speed</b>	N/A		N/A
<b>Min Horizontal Curve Radius</b>	N/A		N/A
<b>Maximum Superelevation Rate</b>	N/A		N/A
<b>Maximum Grade</b>	N/A		N/A
<b>Access Control</b>	N/A		N/A
<b>Design Vehicle</b>	N/A		N/A
<b>Signal Design</b>	Spanwire		Mast Arm

**Mainline Design Features: SR 3 / US 41 / Tara Blvd at Battlecreek Road**

Feature	Existing	Standard*	Proposed
<b>Typical Section</b>			
- Number of Lanes	6		N/A
- Lane Width(s)	12 ft.		N/A
- Median Width & Type	36' Grass		N/A
- Outside Shoulder or Border Area Width	N/A		N/A
- Outside Shoulder Slope	N/A		N/A
- Inside Shoulder Width	N/A		N/A
- Sidewalks	None		N/A
- Auxiliary Lanes	Yes (Left and Right Turn Lanes)		N/A
- Bike Lanes	None		N/A
Posted Speed	45 mph		N/A
Design Speed	N/A		N/A
Min Horizontal Curve Radius	N/A		N/A
Maximum Superelevation Rate	N/A		N/A
Maximum Grade	N/A		N/A
Access Control	N/A		N/A
Design Vehicle	N/A		N/A
Signal Design	Spanwire		Spanwire

**Mainline Design Features: SR 54/Jonesboro Rd at Battlecreek Road**

Feature	Existing	Standard*	Proposed
<b>Typical Section</b>			
- Number of Lanes	4		N/A
- Lane Width(s)	11 ft. NB 12 ft. SB		N/A
- Median Width & Type	14 ft. flush		N/A
- Outside Shoulder or Border Area Width	N/A		N/A
- Outside Shoulder Slope	N/A		N/A
- Inside Shoulder Width	N/A		N/A
- Sidewalks	6' (NE Corner)		N/A
- Auxiliary Lanes	Yes (Left and Right Turn Lanes)		N/A
- Bike Lanes	None		N/A
Posted Speed	45 mph		N/A
Design Speed	N/A		N/A
Min Horizontal Curve Radius	N/A		N/A
Maximum Superelevation Rate	N/A		N/A
Maximum Grade	N/A		N/A
Access Control	N/A		N/A
Design Vehicle	N/A		N/A
Signal Design	Spanwire		Mast Arm

**Mainline Design Features: SR 138 at North Main St**

Feature	Existing	Standard*	Proposed
<b>Typical Section</b>			
- Number of Lanes	4		N/A
- Lane Width(s)	12 ft.		N/A
- Median Width & Type	14 ft. flush		N/A
- Outside Shoulder or Border Area Width	N/A		N/A
- Outside Shoulder Slope	N/A		N/A
- Inside Shoulder Width	N/A		N/A
- Sidewalks	4' (NE/SE Corners)		N/A
- Auxiliary Lanes	Yes (Left Turn Lanes)		N/A
- Bike Lanes	None		N/A
Posted Speed	35 mph		N/A
Design Speed	N/A		N/A
Min Horizontal Curve Radius	N/A		N/A
Maximum Superelevation Rate	N/A		N/A
Maximum Grade	N/A		N/A
Access Control	N/A		N/A
Design Vehicle	N/A		N/A
Signal Design	Spanwire		Mast Arm

**Mainline Design Features: SR 3 / US 41 / Old Dixie Rd from Johnson Road to Morrow Road**

Feature	Existing	Standard*	Proposed
<b>Typical Section</b>			
- Number of Lanes	4		N/A
- Lane Width(s)	12 ft.		N/A
- Median Width & Type	14 ft. flush		N/A
- Outside Shoulder or Border Area Width	N/A		N/A
- Outside Shoulder Slope	N/A		N/A
- Inside Shoulder Width	N/A		N/A
- Sidewalks	7' (NW corner of Johnson Rd)		N/A
- Auxiliary Lanes	Yes (Left and Right Turn Lanes)		N/A
- Bike Lanes	None		N/A
Posted Speed	45 mph		N/A
Design Speed	N/A		N/A
Min Horizontal Curve Radius	N/A		N/A
Maximum Superelevation Rate	N/A		N/A
Maximum Grade	N/A		N/A
Access Control	N/A		N/A
Design Vehicle	N/A		N/A
Signal Design	Spanwire		Mast Arm

**Mainline Design Features:** SR 3 / US 41 / Old Dixie Rd from Southpoint Parkway to I-285 Westbound

Feature	Existing	Standard*	Proposed
<b>Typical Section</b>			
- Number of Lanes	6		N/A
- Lane Width(s)	12 ft.		N/A
- Median Width & Type	14 ft. flush		N/A
- Outside Shoulder or Border Area Width	N/A		N/A
- Outside Shoulder Slope	N/A		N/A
- Inside Shoulder Width	N/A		N/A
- Sidewalks	6-8'		N/A
- Auxiliary Lanes	Yes (Left and Right Turn Lanes)		N/A
- Bike Lanes	None		N/A
Posted Speed	40 mph		N/A
Design Speed	N/A		N/A
Min Horizontal Curve Radius	N/A		N/A
Maximum Superelevation Rate	N/A		N/A
Maximum Grade	N/A		N/A
Access Control	N/A		N/A
Design Vehicle	N/A		N/A
Signal Design	Spanwire		Mast Arm

**Major Interchanges/Intersections:** SR 3 @ I-285 Eastbound Ramp, SR 3 @ I-285 Westbound Ramp

**Lighting required:**  No  Yes

**Transportation Management Plan [TMP] Required:**  No  Yes  
 If Yes: Project classified as:  Non-Significant  Significant  
 TMP Components Anticipated:  TTC  TO  PI

**Will Context Sensitive Solutions procedures be utilized?**  No  Yes

**Design Exceptions to FHWA/AASHTO controlling criteria anticipated:** None

**Design Variances to GDOT Standard Criteria anticipated:** None

**UTILITY AND PROPERTY**

**Temporary State Route Needed:**  No  Yes  Undetermined

**Railroad Involvement:** N/A

**Utility Involvements:**

- Clayton County Department of Transportation and Development
- Atlanta Gas Light - Gas
- AT&T – Telecommunication
- Charter Communications - Telecommunication
- Georgia Power - Electrical
- Verizon – Telecommunication
- Qwest Communications – Telecommunication

TW Telecom - Telecommunication  
Zayo Fiber Solutions – Telecommunication  
Dukenet Communications – Telecommunication  
American Traffic Solutions - Electrical  
Comcast – Cable Television

**SUE Required:**       No       Yes

**Public Interest Determination Policy and Procedure recommended?**  No     Yes

**Right-of-Way:**                      Existing width: \_\_\_\_\_ ft                      Proposed width: \_\_\_\_\_ ft  
Required Right-of-Way anticipated:  No     Yes     Undetermined  
Easements anticipated:  None     Temporary     Permanent     Utility     Other

Anticipated number of impacted parcels:	0
Displacements anticipated:	Total: 0
	Businesses:
	Residences:
	Other:

## ENVIRONMENTAL AND PERMITS

### Anticipated Environmental Document:

GEPA:                       NEPA:  CE                       PCE

**MS4 Compliance – Is the project located in an MS4 area?**     No                       Yes

### Environmental Permits, Variances, Commitments, and Coordination anticipated:

#### Air Quality:

Is the project located in a PM 2.5 Non-attainment area?     No                       Yes  
Is the project located in an Ozone Non-attainment area?     No                       Yes  
Is a Carbon Monoxide hotspot analysis required?     No                       Yes

Project is located in a non-attainment area for PM2.5 and Ozone. CO hotspot analysis not required. Project exempt from PM 2.5.

### NEPA/GEPA Comments & Information:

**Noise:**      Type III noise assessment is anticipated.

**Historic Resources:** Section 106 Notification begun. Historian completed a desktop survey for historic properties based on property tax records, Georgia NARGHIS (Natural, Archaeological, and Historic Resources GIS) research, and aerial maps. Results are pending. Field survey pending completion of 30 day response period. Preliminary screening identified seven potentially eligible resources and/or historic districts, including rail lines. Several homes at the Bethsaida and Creel intersections appear historic. A Historic Resources Survey Report and Assessment of Effects documentation are anticipated. Potential Section 4(f) resources at several intersections.

**Archaeological Resources:** EPEI's staff archaeologist requested a Georgia Site File and NARGHIS review for any potential archaeological sites in the project area. Results are pending. A short form of findings is expected.

### **Community Resources or Institutions**

- Children Under Construction (24 hr. childcare) at Battle Creek and Tara Blvd. (nearby, not at immediate intersection).

Impacts to public parks, playgrounds, trails, etc. would require review under Section 4(f) of the U.S. Department of Transportation Act. Based on research from the environmental screening, several parks, trails, and similar facilities qualify as Section 4(f) public recreation resources in the project area. Minor impacts, from the proposed project implementation, to the Section 4(f) resources may qualify for a *de minimis* determination by Federal Highway Administration (FHWA) and in consultation with the resources' officials with jurisdiction. Major impacts to the Section 4(f) recreation resources would require a full Section 4(f) Evaluation and intensive alternatives analysis.

### **Potential Underground Storage Tanks (USTs) and Hazardous Waste Sites**

- Hi Tech Auto Repair, Exxon Gas Station at I-285 and Old Dixie.
- Citgo Gas Station, New & Used Tires Store at Southpoint and Old Dixie.
- Shell Gas Station, Chevron Gas Station (possible USTs and/or test well in ROW), Hauling Company at Johnson Rd. and Old Dixie.
- Vacant Bakery Store (likely a former gas station), HopIn/Texaco, Lake City Auto Sales at Morrow Rd. and Old Dixie.
- Korner's Gas Station (currently closed/vacant), Chevrolet Used Car Lot, QT Gas Station, Industrial concrete manufacturing plant at SR 54 and Battle Creek.
- Chevron Gas Station, Fine Cars Sales & Service, U-Haul Moving/Storage (propane tanks) at Tara Blvd. and Battle Creek.
- Two Auto Repair Shops at SR 138 and N. Main.
- BP Station/Dry Cleaners, Texaco Gas Station, Tire Sales Store at SR 138 and SR 314.

### **Ecological Resources**

- Due to the nature and scope of the project, a combined Ecology Resource/AOE is anticipated. Department of Natural Resources and United States Fish & Wildlife Service coordination in process. Field survey to be completed upon response from DNR and USFWS. Design will avoid any impacts.
- Preliminary surveys identified several Waters of the U.S. at the intersections, including 5 possible streams, ephemeral streams, and wetlands. Crossings and ditches require further evaluation by a qualified ecologist.
- The potential protected species in the area will be determined by coordination with Georgia Department of Natural Resources and U.S. Fish and Wildlife Service.
- A survey for federally-protected bats that exists within the area may be required. The bat survey would be required to receive Ecology Report approval.
- A Section 404 Permit would be required if USACE-jurisdictional waters are impacted by the proposed project. Mitigation credits would be required to be purchased if the impacts exceeded 100 linear feet for streams or 0.1 acre for wetlands.
- A stream buffer variance would be required for any impacts within 25-foot of top of bank at USACE-jurisdictional streams or state buffered waters. Stream buffer credits may be required based on the type of impact.

A National Pollutant Discharge Elimination System (NPDES) permit would be required for greater than 1.0 acre of disturbance for the proposed project.

## COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

### Project Meetings:

*Project Kick-off Meeting: 7/17/2014 8:30 AM – Minutes Attached*

Project Activity	Party Responsible for Performing Task(s)
Concept Development	<i>Parsons Brinckerhoff, Inc.</i>
Design	<i>Parsons Brinckerhoff, Inc.</i>
Right-of-Way Acquisition	<i>GDOT</i>
Utility Relocation	<i>Utility Owners</i>
Letting to Contract	<i>GDOT</i>
Construction Supervision	<i>GDOT</i>
Providing Material Pits	<i>N/A</i>
Providing Detours	<i>N/A</i>
Environmental Studies, Documents, & Permits	<i>Edwards-Pittman Environmental, Inc</i>
Environmental Mitigation	<i>N/A</i>
Construction Inspection & Materials Testing	<i>GDOT</i>

Other coordination to date: *N/A*

### Project Cost Estimate and Funding Responsibilities:

	Breakdown of PE	ROW	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
Funded By	GDOT	GDOT	GDOT	GDOT	N/A	
\$ Amount	\$341,687.27	\$0.00	\$100,000.00	\$1,897,177.01		\$2,338,864.28
Date of Estimate	8/20/2014	8/20/2014	8/20/2014	8/20/2014		

\*CST Cost includes: Construction, Engineering and Inspection, and Liquid AC Cost Adjustment.

### Comments/Additional Information:

### LIST OF ATTACHMENTS/SUPPORTING DATA

1. CES Cost Estimates
2. Parsons Brinckerhoff Kickoff Meeting Minutes
3. Utility Cost Estimate
4. Revisions to Programmed Costs Workbook

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No.

OFFICE

**PROJECT DESCRIPTION**

DATE

From:

To:

Subject: **REVISIONS TO PROGRAMMED COSTS**

PROJECT MANAGER

MGMT LET DATE

MGMT ROW DATE

**PROGRAMMED COSTS (TPro W/OUT INFLATION)**

**LAST ESTIMATE UPDATE**

CONSTRUCTION \$

DATE

RIGHT OF WAY \$

DATE

UTILITIES \$

DATE

**REVISED COST ESTIMATES**

CONSTRUCTION\* \$

RIGHT OF WAY \$

UTILITIES \$

\*Cost Contains  % Contingency

**REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:**

# CONTINGENCY SUMMARY

<b>A. CONSTRUCTION COST ESTIMATE:</b>	\$	1,720,795.47	Base Estimate From CES	
<b>B. ENGINEERING AND INSPECTION (E &amp; I):</b>	\$	86,039.77	Base Estimate (A) x	5 %
<b>C. CONTINGENCY:</b>	\$	90,341.76	Base Estimate (A) + E & I (B) x	5 %
			<u>See % Table in "Risk Based Cost Estimation" Memo</u>	
<b>D. TOTAL LIQUID AC ADJUSTMENT:</b>	\$		Total From Liquid AC Spreadsheet	
<b>E. CONSTRUCTION TOTAL:</b>	\$	1,897,177.01	(A + B + C + D = E)	

## REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
Georgia Power	\$ 100,000.00
<b>TOTAL</b>	<b>\$ 100,000.00</b>

**ATTACHMENTS:**

JOB NUMBER : 0012670 SPEC YEAR: 13  
DESCRIPTION: SR 3 @ 7 LOCS; SR 54 @ 1 LOC & SR 314 @ 3 LOCS IN CLAYTON CO

ITEMS FOR JOB 0012670

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - PI NO. 0012670	1.000	50000.00	50000.00
0010	441-0104		SY	CONC SIDEWALK, 4 IN	750.000	33.99	25497.57
0015	441-0748		SY	CONC MEDIAN, 6 IN	1250.000	53.80	67251.28
0020	441-6222		LF	CONC CURB & GUTTER/ 8X30TP2	885.000	26.16	23154.86
0024	639-2001		LF	STEEL WIRE STRAND CABLE, 1/4	300.000	4.64	1394.82
0025	639-3004		EA	STEEL STRAIN POLE, TP IV W 65' MAST ARM	4.000	16500.00	66000.00
0030	639-3004		EA	STEEL STRAIN POLE, TP IV W 65' TANDEM MAST ARMS	4.000	21500.00	86000.00
0035	639-3004		EA	STEEL STRAIN POLE, TP IV W 60' MAST ARM	2.000	16000.00	32000.00
0040	639-3004		EA	STEEL STRAIN POLE, TP IV W 55' MAST ARM	7.000	15500.00	108500.00
0045	639-3004		EA	STEEL STRAIN POLE, TP IV W 55' TANDEM MAST ARMS	1.000	20500.00	20500.00
0050	639-3004		EA	STEEL STRAIN POLE, TP IV W 50' MAST ARM	3.000	15000.00	45000.00
0055	639-3004		EA	STEEL STRAIN POLE, TP IV W 50' TANDEM MAST ARMS	2.000	20000.00	40000.00
0060	639-3004		EA	STEEL STRAIN POLE, TP IV W 45' MAST ARM	1.000	14500.00	14500.00
0065	639-3004		EA	STEEL STRAIN POLE, TP IV W 45' TANDEM MAST ARMS	1.000	19500.00	19500.00
0070	639-3004		EA	STEEL STRAIN POLE, TP IV W 35' MAST ARM	1.000	13500.00	13500.00
0075	639-3004		EA	STEEL STRAIN POLE, TP IV W 30' MAST ARM	1.000	13000.00	13000.00
0080	639-4004		EA	STRAIN POLE, TP IV	4.000	6906.04	27624.18
0085	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 1	1.000	55000.00	55000.00
0090	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 2	1.000	50000.00	50000.00
0095	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 3	1.000	45000.00	45000.00
0100	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 4	1.000	54000.00	54000.00
0105	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 5	1.000	54000.00	54000.00
0110	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 6	1.000	54000.00	54000.00
0115	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 7	1.000	54000.00	54000.00
0120	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 8	1.000	52000.00	52000.00
0125	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 9	1.000	49000.00	49000.00
0130	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 10	1.000	34000.00	34000.00
0135	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 11	1.000	33000.00	33000.00
0140	647-2140		EA	PULL BOX, PB-4	8.000	1363.00	10904.00
0145	653-0110		EA	THERM PVMT MARK, ARROW, TP 1	6.000	94.16	564.99
0150	653-0120		EA	THERM PVMT MARK, ARROW, TP 2	75.000	85.84	6438.17
0155	653-1501		LF	THERMO SOLID TRAF ST 5 IN, WHI	5000.000	0.68	3425.65
0160	653-1502		LF	THERMO SOLID TRAF ST, 5 IN YEL	3700.000	0.70	2592.07

STATE HIGHWAY AGENCY

DATE : 08/21/2014  
PAGE : 2

JOB ESTIMATE REPORT

0165	653-1704	LF	THERM SOLID TRAF STRIPE,24,WH	1300.000	5.44	7084.84
0170	653-1706	LF	THERM SLID TRAF STRP,24 IN,YLW	500.000	5.44	2724.94
0175	653-1804	LF	THERM SOLID TRAF STRIPE, 8,WH	1700.000	2.47	4199.26
0180	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	1700.000	0.54	929.73
0185	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	6800.000	3.66	24888.00
0190	682-9950	LF	DIRECTIONAL BORE - 5 IN	3400.000	11.44	38896.00
0195	687-1000	LS	TRAFFIC SIGNAL TIMING - PI NO. 0012670	1.000	49500.00	49500.00
0200	700-7000	TN	AGRICULTURAL LIME	1.000	118.65	118.65
0205	700-8000	TN	FERTILIZER MIXED GRADE	1.000	632.52	632.52
0210	700-8100	LB	FERTILIZER NITROGEN CONTENT	75.000	3.53	265.34
0215	700-9300	SY	SOD	165.000	6.85	1130.29
0220	935-1512	LF	OUT PLNT FBR OPT CBL,DROP,SM,12 FBR	1400.000	5.00	7000.00
0234	935-3402	EA	FBR OPTIC CLOSURE,FDC(RACK MTD),12 FBR	9.000	615.70	5541.30
0235	935-4010	EA	FIBER OPTIC SPLICE, FUSION	108.000	34.00	3672.00
0240	935-5050	EA	FIBER OPTIC PATCH CORD, SM	72.000	74.00	5328.00
0245	935-6562	EA	EXT TRNSCVR, DRP&RPT,1310SM,(SIGNAL JOBS)	9.000	1616.00	14544.00
0249	935-8000	LS	TESTING	1.000	10000.00	10000.00
0250	937-6050	EA	INT VIDEO DET SYS ASMBLY, TP A	58.000	5583.00	323814.00
0255	937-6150	EA	PROGRAMMING MONITOR, TP A	11.000	289.00	3179.00
0260	937-8000	LS	TESTING	1.000	3000.00	3000.00
0265	937-8500	LS	TRAINING	1.000	3000.00	3000.00

ITEM TOTAL 1720795.45  
INFLATED ITEM TOTAL 1720795.47

TOTALS FOR JOB 0012670

ESTIMATED COST: 1720795.47  
CONTINGENCY PERCENT ( 5.0 ): 86039.77  
ESTIMATED TOTAL: 1806835.24

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTER-DEPARTMENT CORRESPONDENCE**

**FROM:** Patrick Allen, P.E.  
District Utilities Engineer

**DATE:** September 03, 2014

**TO:** Xavier James, Project Manager

**SUBJECT:** PRELIMINARY UTILITY COST ESTIMATE/ PI: 0012670

As requested by your office, we are furnishing you with a Preliminary Cost Estimate for each utility with facilities potentially located with the project limits.

FACILITY OWNER	REIMBURSABLE	NON-REIMBURSABLE	TOTAL
Georgia Power Company	\$100,000.00		\$100,000.00
AT&T		\$0.00	\$0.00
Atlanta Gas Light		\$0.00	\$0.00
Comcast		\$0.00	\$0.00
Clayton County Water and Sewer		\$0.00	\$0.00
Clayton County Department of Transportation and Development		\$0.00	\$0.00
Charter Communication		\$0.00	\$0.00
Verizon		\$0.00	\$0.00
Qwest Communication		\$0.00	\$0.00
TW Telecommunication		\$0.00	\$0.00
Zayo Fiber Solutions		\$0.00	\$0.00
Dukenet Communication		\$0.00	\$0.00
American Traffic Solution		\$0.00	\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
<b>TOTAL</b>	<b>\$100,000.00</b>	<b>\$0.00</b>	<b>\$100,000.00</b>

This estimate is based upon the current information. We will provide an updated estimate when the plans are further developed.

If you have any questions, please contact Lewis Brooker at 770-986-1117

RSB/PA/SW/LB

Cc: Michael J. Bolden, State Utilities Engineer

**GDOT Signal Design, Task Order #1**  
**PI 0012670, Clayton County**  
**Field Visit/Kickoff Meeting Minutes**  
July 18, 2014

**Meeting Date:**  
Thursday, July 17<sup>th</sup> 8:30 AM

**Participants:**

Xavier James, GDOT  
Edlin Regis, GDOT  
Alan Davis, GDOT  
Patrick Allen, GDOT  
Lewis Brooker, GDOT  
Marty Lane, Clayton County DOT  
Bobby Plunkett, Georgia Power  
Larry Overn, Stantec  
Heather Perrin, Edwards Pittman  
Mike Holt, Parsons Brinckerhoff  
Chris Rome, Parsons Brinckerhoff

**General Comments:**

- Clayton County to provide all ATMS plans to PB as available.
- All protected permissive left-turn signals currently with the 5-section "doghouse" configuration will be converted to 4-section flashing yellow arrow (FYA) heads.
- All permissive left-turn movements opposite protected permissive signals will have 3-section FYA heads installed.
- Existing CCTV cameras on separate poles to remain
- Use video detection where feasible
- Mast arms to be powder-coated black, unless specified otherwise
- Parabolic Mast arms will be designed where needed to avoid utility conflicts, using existing Clayton County detail
- 40' poles will be designed where needed for approach detection (phases 2/6), using existing Clayton County detail
- All new cabinets shall be CL-4D, using Clayton County Special Provision
- Clayton County design features to be included in plans (wiring table, output file, signal sequence chart, conflict monitor table)

**Intersection Comments:**

**1. SR 314 @ SR 138**

- Pedestrian signals, detectors, ADA ramps on all four corners.
- Pedestrian crosswalks on all four legs.
- Remove yield signs.
- NE corner: Single mast arm, add pedestrian landing with 8" concrete due to observed rutting, remove painted island.
- NW corner: Single mast arm, need attachment heights for existing communication, remove painted island, add curb ramps
- SW corner: Single mast arm, add curb ramps
- SE corner: Single mast arm, remove painted island, add curb ramps
- New cabinet, drop cable to closure on SR 138 (east of intersection)

**Kickoff Meeting Minutes**  
PI 0012670, Clayton County  
July 18, 2014

- Aerial communication north to Bethsaida Rd no longer part of plan
2. SR 314 @ Bethsaida Rd
- Tandem mast arms on the NE and SW corners
  - Pedestrian signals, detectors, ADA ramps on all four corners.
  - Pedestrian crosswalks on all four legs
  - Add pedestrian landing on NE corner, rework drainage due to existing inlet
  - Existing ped landings on remaining three corners to remain
  - New cabinet
3. SR 314 @ Creel Dr
- Single diagonal mast arm in SW corner to support all signal heads
  - Add raised concrete island with depressed center in NW corner
  - Crosswalks on south and west legs
  - If NW corner island does not fit, add southbound right-turn overlap phase
  - New cabinet
4. SR 3 @ Battlecreek Rd
- Span wire design, new strain poles to be located inside existing utility line to avoid conflicts
  - Pedestrian signals, detectors, ADA ramps on all four corners.
  - Pedestrian crosswalks on all four legs
  - Consider revising NB/SB left turn phases to protected-permissive with FYA – need to check crash history
  - NE corner: add sidewalk between two ramps
  - NW corner: connect missing curb section, add sidewalk between two ramps, remove pole mounted cabinet
  - SW corner: new cabinet, Reinstall existing Bluetooth detector on new strain pole, existing CCTV camera pole to remain
  - SE corner: replace broken curb, remove painted island
  - New cabinet and FO drop cable to existing FO pull box
5. SR 54 @ Battlecreek Rd
- Pedestrian signals, detectors, ADA ramps on all four corners.
  - Pedestrian crosswalks on all four legs
  - NE corner: single mast arm with 40' strain pole for video detection, remove painted island
  - SE corner: single mast arm with 40' strain pole for video detection, relocate existing CCTV here,
  - SW corner: tandem mast arm in island, reconstruct raised island with 4' offset from edge of travel lane,
  - NW corner: construct raised concrete island with pedestrian features
  - New cabinet and drop cable to existing aerial FO closure
- ~~6. SR 3 / Old Dixie Rd @ Frontage Rd / I-75 NB~~
- Intersection removed from scope due to being recently upgraded
  - At the request of Clayton County DOT, intersection to be replaced in task order with SR 138 @ Main St
6. SR 138 @ Main St
- Pedestrian signals, detectors, ADA ramps on all four corners.
  - Pedestrian crosswalks on all four legs
  - SW corner: single mast arm,
  - SE corner: curb bulbout, striping modifications, single mast arm, need existing neutral line height to determine required mast arm design

## Kickoff Meeting Minutes

PI 0012670, Clayton County

July 18, 2014

- NW corner: curb bulbout, striping modifications, tandem mast arm
  - New cabinet and fiber drop cable to existing FO pullbox
7. SR 3 / Old Dixie Rd @ Morrow Rd
- Pedestrian signals, detectors, ADA ramps on all four corners.
  - Pedestrian crosswalks on all four legs
  - Add 3-section FYA for eastbound left turn lane
  - NE corner: tandem mast arm
  - NW corner: single mast arm, relocate existing CCTV here
  - SW corner: single mast arm
  - SE corner: Potential need to raise north-south neutral wire on utility pole, or use curved mast arm design for northbound approach (NE corner strain pole and mast arm)
  - New cabinet if room permits and fiber drop to existing aerial FO closure
8. SR 3 / Old Dixie Rd @ Johnson Rd
- Need turning movement counts for this intersection (Obtain via RTOP)
  - Pedestrian signals, detectors, ADA ramps on all four corners.
  - Pedestrian crosswalks on all four legs
  - SE corner: tandem mast arm
  - NE corner: single mast arm, construct raised concrete island, consider curb bump out and tandem mast arm
  - NW corner: single mast arm
  - SW corner: may need ROW to construct curb ramps
  - New cabinet and fiber drop cable to existing aerial FO closure
9. SR 3 / Old Dixie Rd @ Southpoint Dr
- Pedestrian signals, detectors, ADA ramps on NE, SE, and NW corners
  - Pedestrian crosswalks on north and east legs
  - Single mast arms on each corner
  - Consider nearside head for northbound approach
  - New cabinet and fiber optic drop cable to existing aerial FO closure
  - SE corner: new raised concrete island
10. SR 3 / Old Dixie Rd @ I-285 EB
- Pedestrian signals, detectors, ADA ramps on NE, SE, and NW corners
  - Pedestrian crosswalks on north and east legs
  - SW corner: tandem mast arms on 40' strain pole
  - NE corner: single mast arm
  - Relocate existing cabinet to new base
  - Remove old fiber optic cable, design fiber optic drop cable to existing aerial FO closure
11. SR 3 / Old Dixie Rd @ I-285 WB
- Pedestrian signals, detectors, ADA ramps on NE, SE, and NW corners
  - Pedestrian crosswalks on north and east legs
  - SW corner: tandem mast arms on 40' strain pole
  - NE corner: single mast arm
  - Retain existing cabinet
  - Relocate existing CCTV to new mast arm pole