

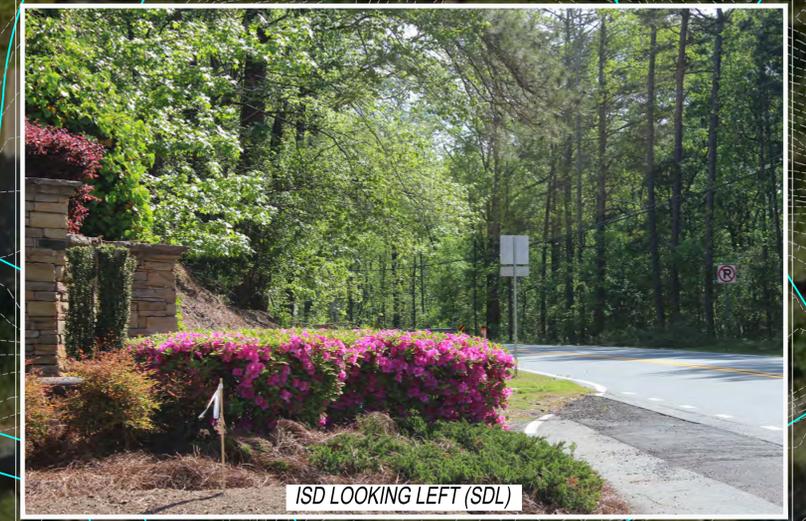


**BARNWELL ROAD AND JONES BRIDGE ROAD
KEY MAP**

DATE: APRIL 20, 2016

ACCIDENT DATA

YEAR	No. OF ACCIDENTS
2010	1
2011	2
2012	4
2013	3
2014	0
2015	5
2016	5



BARNWELL ROAD



**BARNWELL ROAD AT NIBLICK DRIVE
INTERSECTION SIGHT DISTANCE REVIEW
EXISTING CONDITIONS
SHEET 1**

SIGHT LINE LEGEND

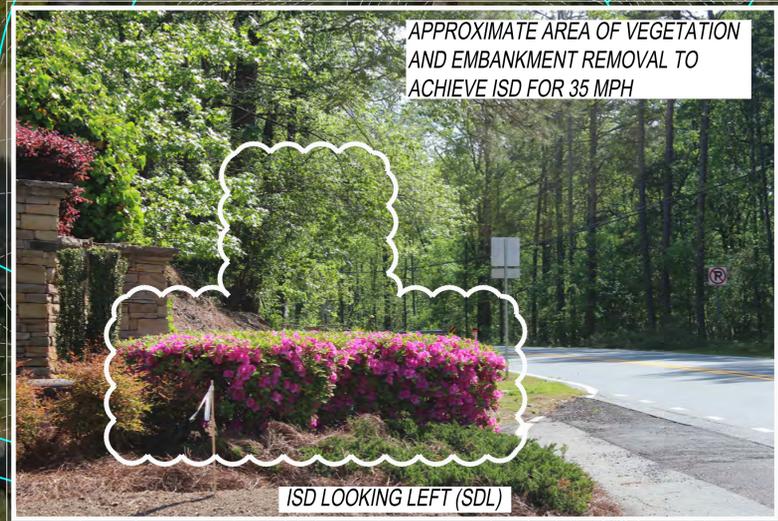
	MEETS 40 MPH
	DOES NOT MEET 40 MPH



GRID NORTH
GA WEST ZONE



APPROXIMATE AREA OF VEGETATION AND EMBANKMENT REMOVAL TO ACHIEVE ISD FOR 35 MPH



ISD LOOKING LEFT (SDL)

NIBLICK DRIVE

NIBLICK COURT

BARNWELL ROAD

(40 MPH) REMOVE EXISTING SHRUBS AND VEGETATION WITHIN LINE OF SIGHT. REMOVE EMBANKMENT AND CONSTRUCT RETAINING WALL (±8-10 FT. HEIGHT). OPTION TO REDUCE/ELIMINATE WALL AND SLOPE EMBANKMENT.

(35 MPH) REMOVE EXISTING SHRUBS AND VEGETATION WITHIN LINE OF SIGHT. REMOVE EMBANKMENT AND CONSTRUCT SMALL RETAINING WALL (±2-4 FT. ESTIMATED HEIGHT).

PLACE STOP BAR 7-FEET FROM EDGE OF TRAVEL LANE, HATCH ISLAND ON DECEL LANE, AND HATCH ACCELERATION LANE

BARNWELL ROAD

EXISTING BRIDGE



**BARNWELL ROAD AT NIBLICK DRIVE
INTERSECTION SIGHT DISTANCE REVIEW
PROPOSED IMPROVEMENTS
SHEET 2**

SIGHT LINE LEGEND	
390 FT.	REQUIRED FOR 35 MPH
445 FT.	REQUIRED FOR 40 MPH



DATE: APRIL 20, 2016

GRID NORTH
GA WEST ZONE

ACCIDENT DATA

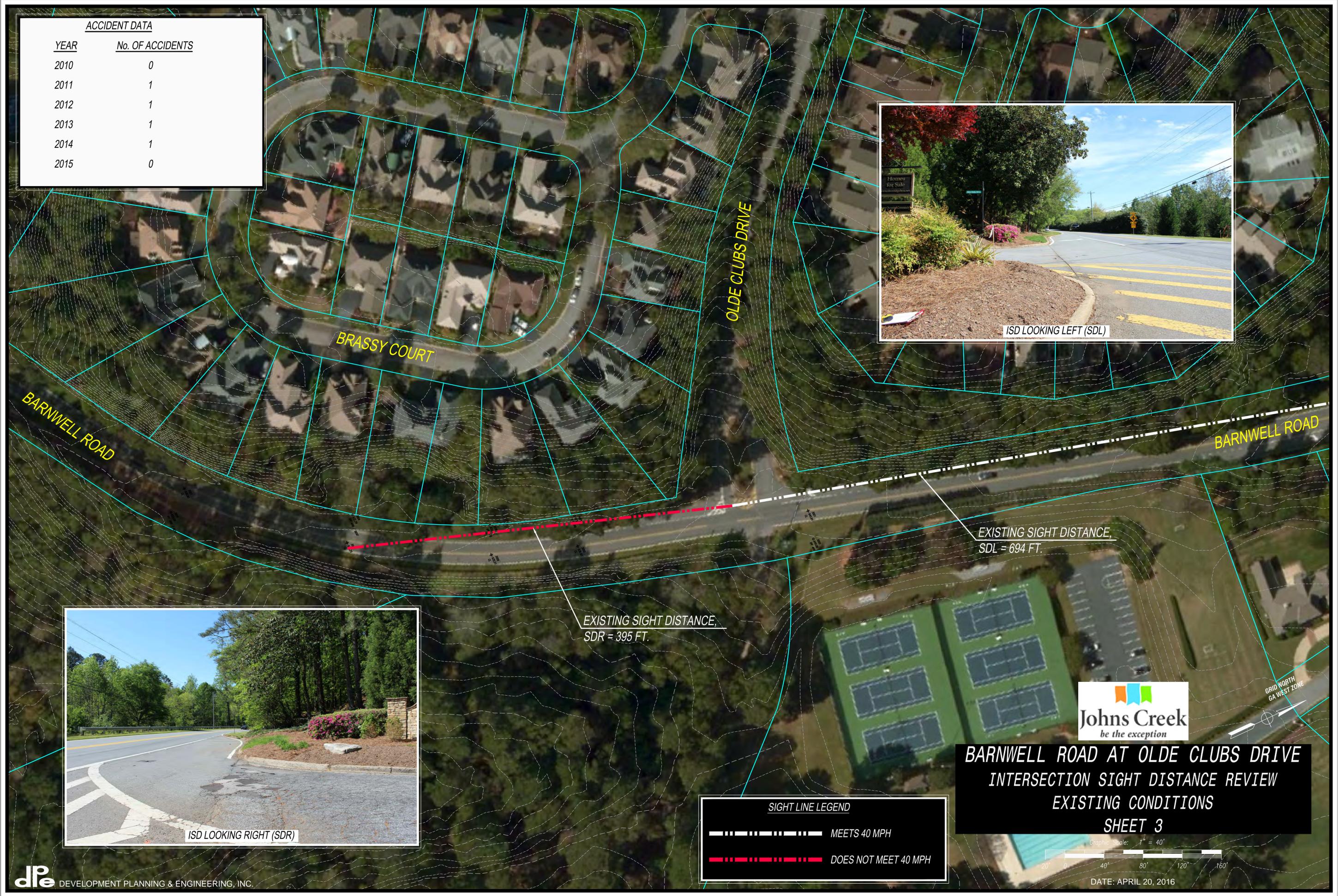
YEAR	No. OF ACCIDENTS
2010	0
2011	1
2012	1
2013	1
2014	1
2015	0



ISD LOOKING LEFT (SDL)



ISD LOOKING RIGHT (SDR)



EXISTING SIGHT DISTANCE,
SDR = 395 FT.

EXISTING SIGHT DISTANCE,
SDL = 694 FT.

SIGHT LINE LEGEND

-  MEETS 40 MPH
-  DOES NOT MEET 40 MPH



**BARNWELL ROAD AT OLDE CLUBS DRIVE
INTERSECTION SIGHT DISTANCE REVIEW
EXISTING CONDITIONS
SHEET 3**

Graphic Scale: 1" = 40'



DATE: APRIL 20, 2016

GRID NORTH
GA WEST ZONE



BARNWELL ROAD

BRASSY COURT

OLDE CLUBS DRIVE

BARNWELL ROAD

REMOVE EXISTING SHRUBS, VEGETATION, AND EMBANKMENT WITHIN LINE OF SIGHT.



APPROXIMATE AREA OF VEGETATION AND EMBANKMENT REMOVAL TO ACHIEVE ISD FOR 35 MPH

ISD LOOKING RIGHT (SDR)

PLACE STOP BAR 7- FEET FROM EDGE OF TRAVEL LANE. HATCH ISLAND ON DECEL AND ACCELERATION LANE

REMOVE EXISTING SHRUBS AND VEGETATION WITHIN LINE OF SIGHT.

SIGHT LINE LEGEND

390 FT. REQUIRED FOR 35 MPH

445 FT. REQUIRED FOR 40 MPH



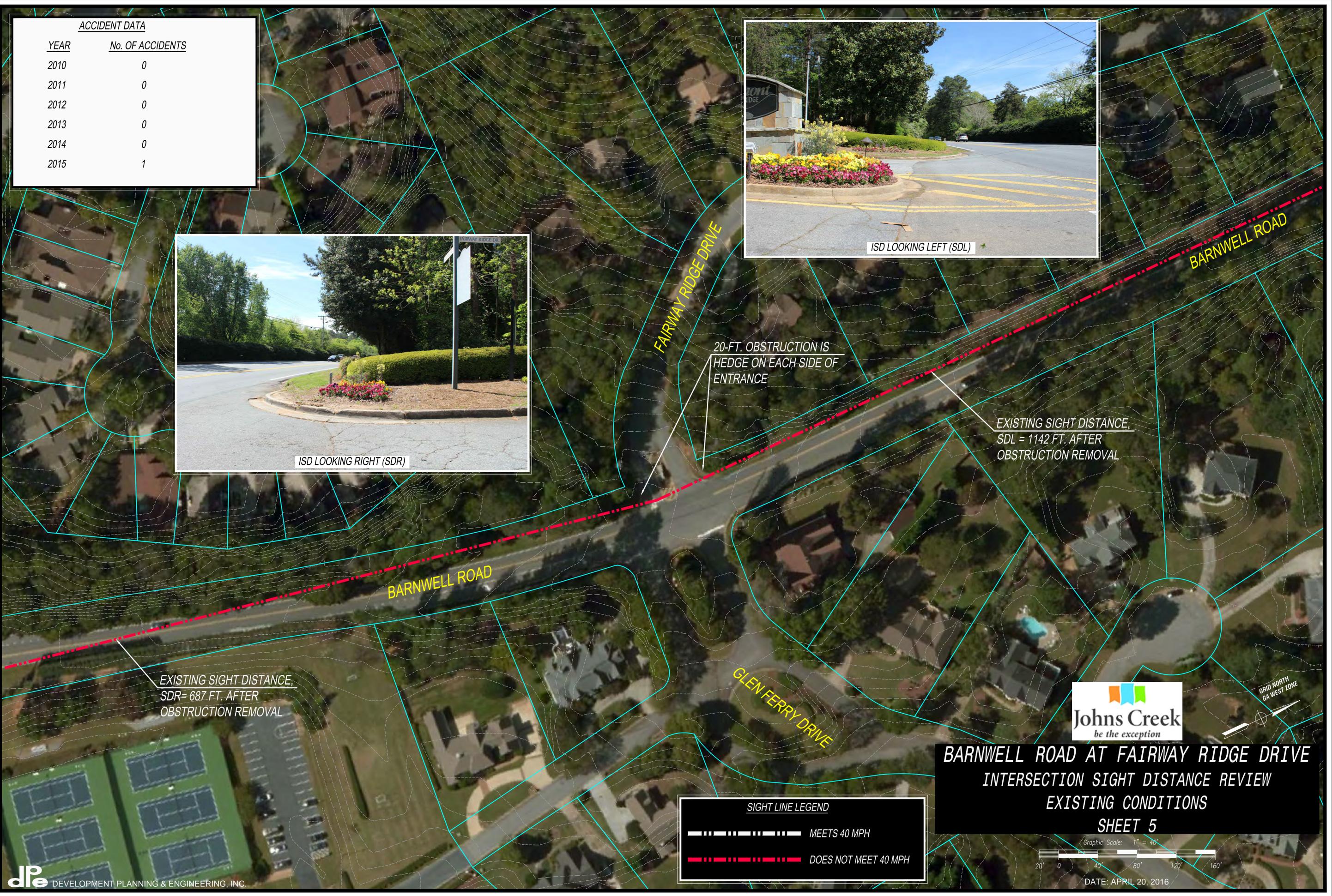
**BARNWELL ROAD AT OLDE CLUBS DRIVE
INTERSECTION SIGHT DISTANCE REVIEW
PROPOSED IMPROVEMENTS
SHEET 4**



DATE: APRIL 20, 2016

GRID NORTH
GA WEST ZONE

ACCIDENT DATA	
YEAR	No. OF ACCIDENTS
2010	0
2011	0
2012	0
2013	0
2014	0
2015	1



20-FT. OBSTRUCTION IS HEDGE ON EACH SIDE OF ENTRANCE

EXISTING SIGHT DISTANCE, SDL = 1142 FT. AFTER OBSTRUCTION REMOVAL

EXISTING SIGHT DISTANCE, SDR = 687 FT. AFTER OBSTRUCTION REMOVAL

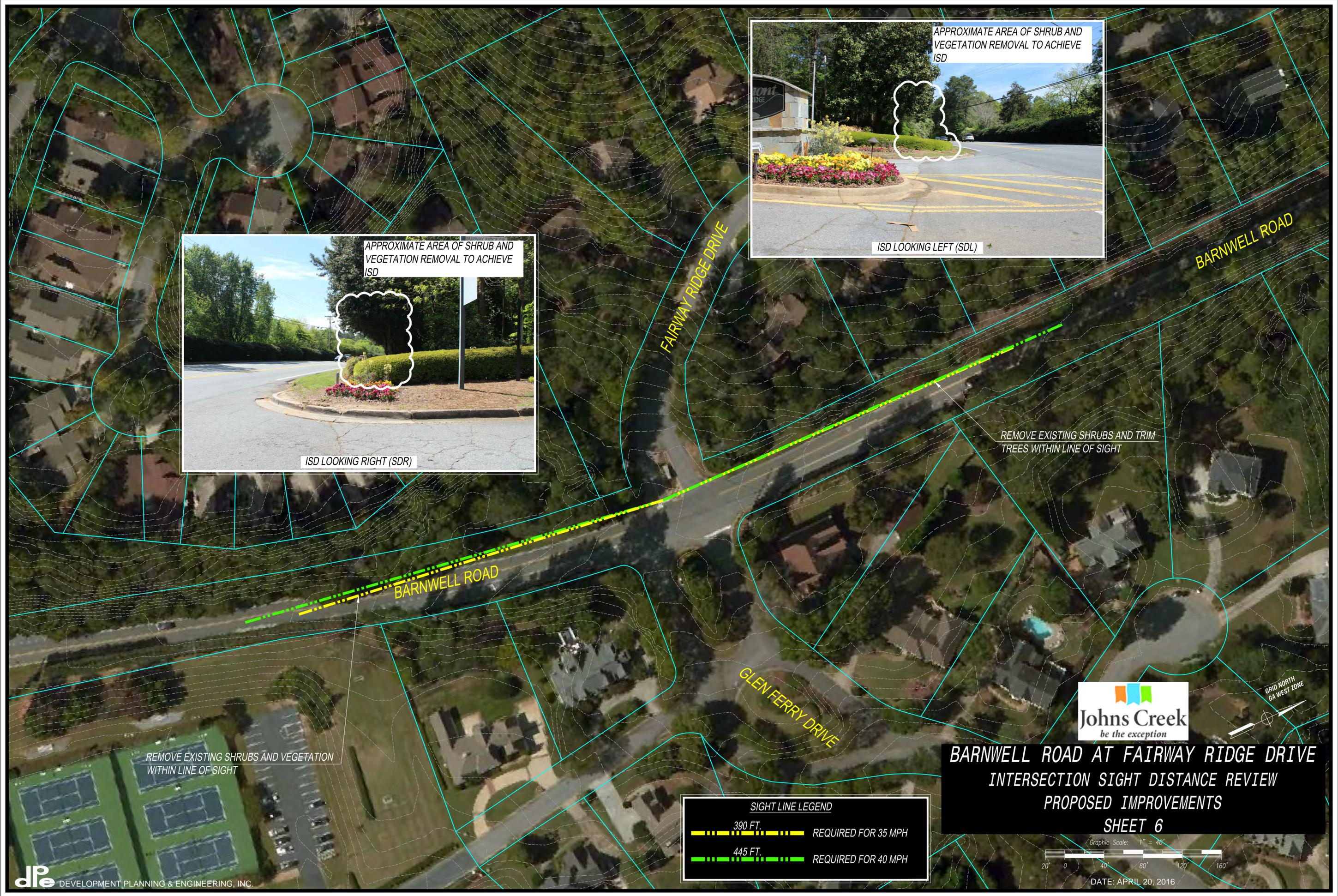
SIGHT LINE LEGEND	
	MEETS 40 MPH
	DOES NOT MEET 40 MPH



**BARNWELL ROAD AT FAIRWAY RIDGE DRIVE
INTERSECTION SIGHT DISTANCE REVIEW
EXISTING CONDITIONS
SHEET 5**



GRID NORTH
GA WEST ZONE



APPROXIMATE AREA OF SHRUB AND VEGETATION REMOVAL TO ACHIEVE ISD



ISD LOOKING LEFT (SDL)

APPROXIMATE AREA OF SHRUB AND VEGETATION REMOVAL TO ACHIEVE ISD



ISD LOOKING RIGHT (SDR)

REMOVE EXISTING SHRUBS AND TRIM TREES WITHIN LINE OF SIGHT

REMOVE EXISTING SHRUBS AND VEGETATION WITHIN LINE OF SIGHT

SIGHT LINE LEGEND

	390 FT.	REQUIRED FOR 35 MPH
	445 FT.	REQUIRED FOR 40 MPH



**BARNWELL ROAD AT FAIRWAY RIDGE DRIVE
INTERSECTION SIGHT DISTANCE REVIEW
PROPOSED IMPROVEMENTS
SHEET 6**



DATE: APRIL 20, 2016

ACCIDENT DATA

YEAR	No. OF ACCIDENTS
2010	0
2011	2
2012	1
2013	0
2014	1
2015	2

RIVERMONT GOLF CLUB



ISD LOOKING RIGHT (SDR)

EXISTING SIGHT DISTANCE,
SDL = 367 FT.

BARNWELL ROAD

BARNWELL ROAD



ISD LOOKING LEFT (SDL)

EXISTING SIGHT DISTANCE,
SDR = 501 FT.

RIVER FERRY DRIVE

CITADEL COURT



GRID NORTH
GA WEST ZONE

**BARNWELL ROAD AT RIVER FERRY DRIVE
INTERSECTION SIGHT DISTANCE REVIEW
EXISTING CONDITIONS**

SHEET 7

SIGHT LINE LEGEND

-  MEETS 40 MPH
-  DOES NOT MEET 40 MPH



RIVERMONT GOLF CLUB

REMOVE EXISTING SHRUBS AND VEGETATION WITHIN LINE OF SIGHT



BARNWELL ROAD

BARNWELL ROAD



RIVER FERRY DRIVE

CITADEL COURT

PLACE STOP BAR 7-FEET FROM EDGE OF TRAVEL LANE, HATCH ISLAND AT MEDIAN, AND HATCH ACCELERATION LANE



BARNWELL ROAD AT RIVER FERRY DRIVE INTERSECTION SIGHT DISTANCE REVIEW PROPOSED IMPROVEMENTS

SHEET 8

SIGHT LINE LEGEND

	390 FT.	REQUIRED FOR 35 MPH
	445 FT.	REQUIRED FOR 40 MPH



GRID NORTH GA WEST ZONE

ACCIDENT DATA

YEAR	No. OF ACCIDENTS
2010	1
2011	1
2012	1
2013	0
2014	0
2015	1

RIVERMONT GOLF CLUB



ISD LOOKING RIGHT (SDR)



ISD LOOKING LEFT (SDL)

RIVERMONT GOLF CLUB

EXISTING SIGHT DISTANCE, SDR = 716 FT.

EXISTING SIGHT DISTANCE, SDL = 381 FT.



BARNWELL ROAD AT RIVERMONT PARKWAY INTERSECTION SIGHT DISTANCE REVIEW EXISTING CONDITIONS

SHEET 9

SIGHT LINE LEGEND

- MEETS 40 MPH
- DOES NOT MEET 40 MPH



DATE: APRIL 20, 2016

RIVERMONT
GOLF CLUB

RIVERMONT
GOLF CLUB



REMOVE SHOULDER FILL WITHIN
LINE OF SIGHT

RIVERMONT PARKWAY

BARNWELL ROAD

RIVER FERRY
DRIVE

CITADEL COURT

RIVER FERRY DRIVE



**BARNWELL ROAD AT RIVERMONT PARKWAY
INTERSECTION SIGHT DISTANCE REVIEW
PROPOSED IMPROVEMENTS
SHEET 10**

SIGHT LINE LEGEND

	390 FT.	REQUIRED FOR 35 MPH
	445 FT.	REQUIRED FOR 40 MPH



DATE: APRIL 20, 2016

ACCIDENT DATA

YEAR	No. OF ACCIDENTS
2010	0
2011	0
2012	0
2013	0
2014	0
2015	0

EXISTING SIGHT DISTANCE,
SDR = 541 FT. AFTER
OBSTRUCTION REMOVAL



ISD LOOKING RIGHT (SDR)

BARNWELL ROAD

BARNWELL ROAD

CITADELLA COURT

EXISTING SIGHT
DISTANCE,
SDR = 2028 FT.



ISD LOOKING LEFT (SDL)

RIVER FERRY
DRIVE

RIVERMONT PARKWAY



**BARNWELL ROAD AT CITADELLA COURT
INTERSECTION SIGHT DISTANCE REVIEW
EXISTING CONDITIONS**

SHEET 11

SIGHT LINE LEGEND

- — — — — MEETS 40 MPH
- · — · — · — DOES NOT MEET 40 MPH



DATE: APRIL 20, 2016

GRID NORTH
GA WEST ZONE



RIVERMONT
GOLF CLUB

RIVERMONT PARKWAY

BARNWELL ROAD

BARNWELL ROAD

RIVER FERRY
DRIVE

CITADELLA COURT

HEDGE OBSTRUCTION



ISD LOOKING LEFT (SDL)

MOVE STOP BAR TO 7- FEET FROM
EDGE OF TRAVEL LANE AND
REMOVE HEDGE AT CORNER



**BARNWELL ROAD AT CITADELLA COURT
INTERSECTION SIGHT DISTANCE REVIEW
PROPOSED IMPROVEMENTS
SHEET 12**

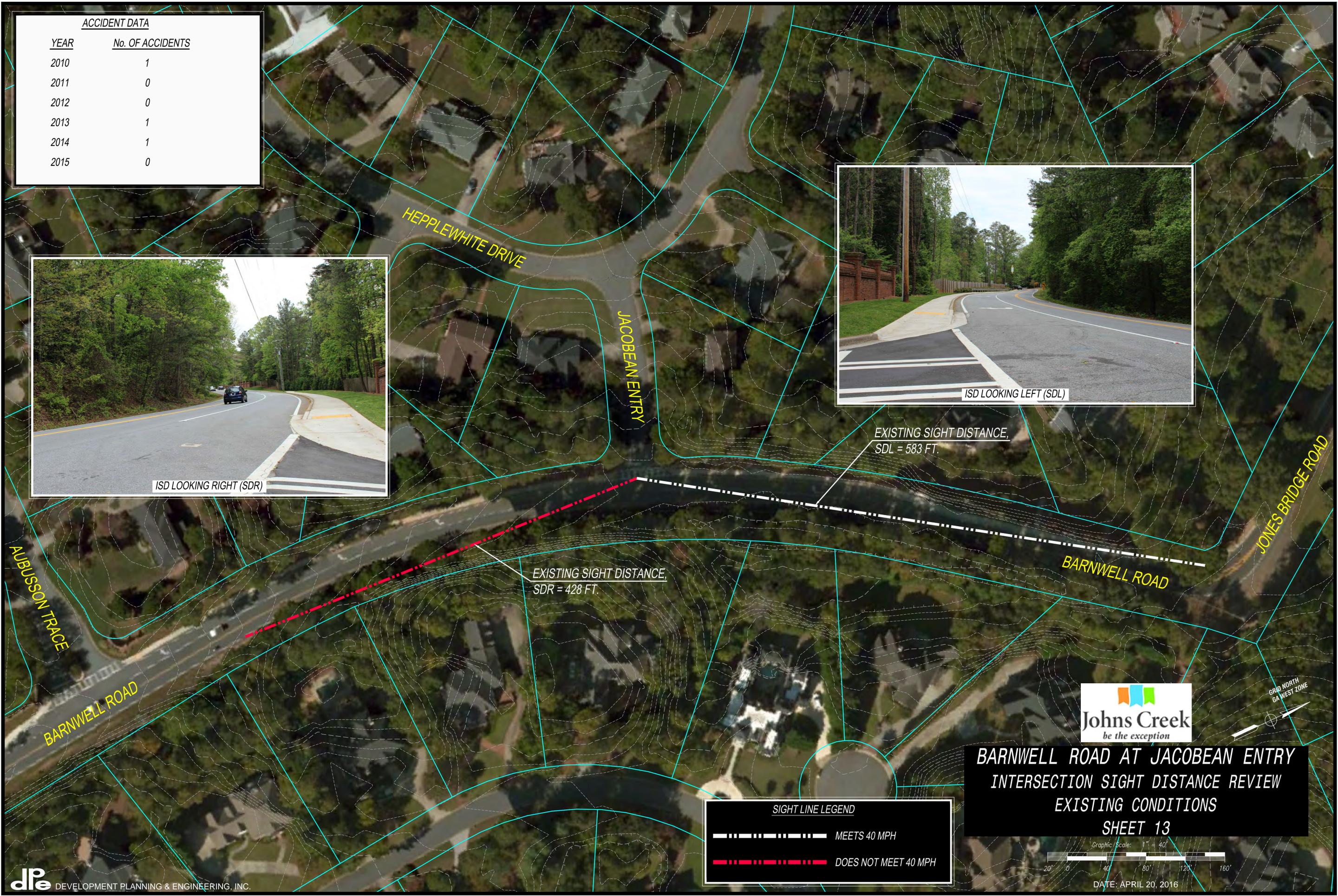
SIGHT LINE LEGEND

	390 FT.	REQUIRED FOR 35 MPH
	445 FT.	REQUIRED FOR 40 MPH



GRID NORTH
GA WEST ZONE

ACCIDENT DATA	
YEAR	No. OF ACCIDENTS
2010	1
2011	0
2012	0
2013	1
2014	1
2015	0



EXISTING SIGHT DISTANCE,
SDR = 428 FT.

EXISTING SIGHT DISTANCE,
SDL = 583 FT.

SIGHT LINE LEGEND	
	MEETS 40 MPH
	DOES NOT MEET 40 MPH



**BARNWELL ROAD AT JACOBAN ENTRY
INTERSECTION SIGHT DISTANCE REVIEW
EXISTING CONDITIONS
SHEET 13**



DATE: APRIL 20, 2016

GRID NORTH
GA WEST ZONE



REMOVE VEGETATION WITHIN LINE OF SIGHT

POSSIBLE ALIGNMENT, 40 MPH

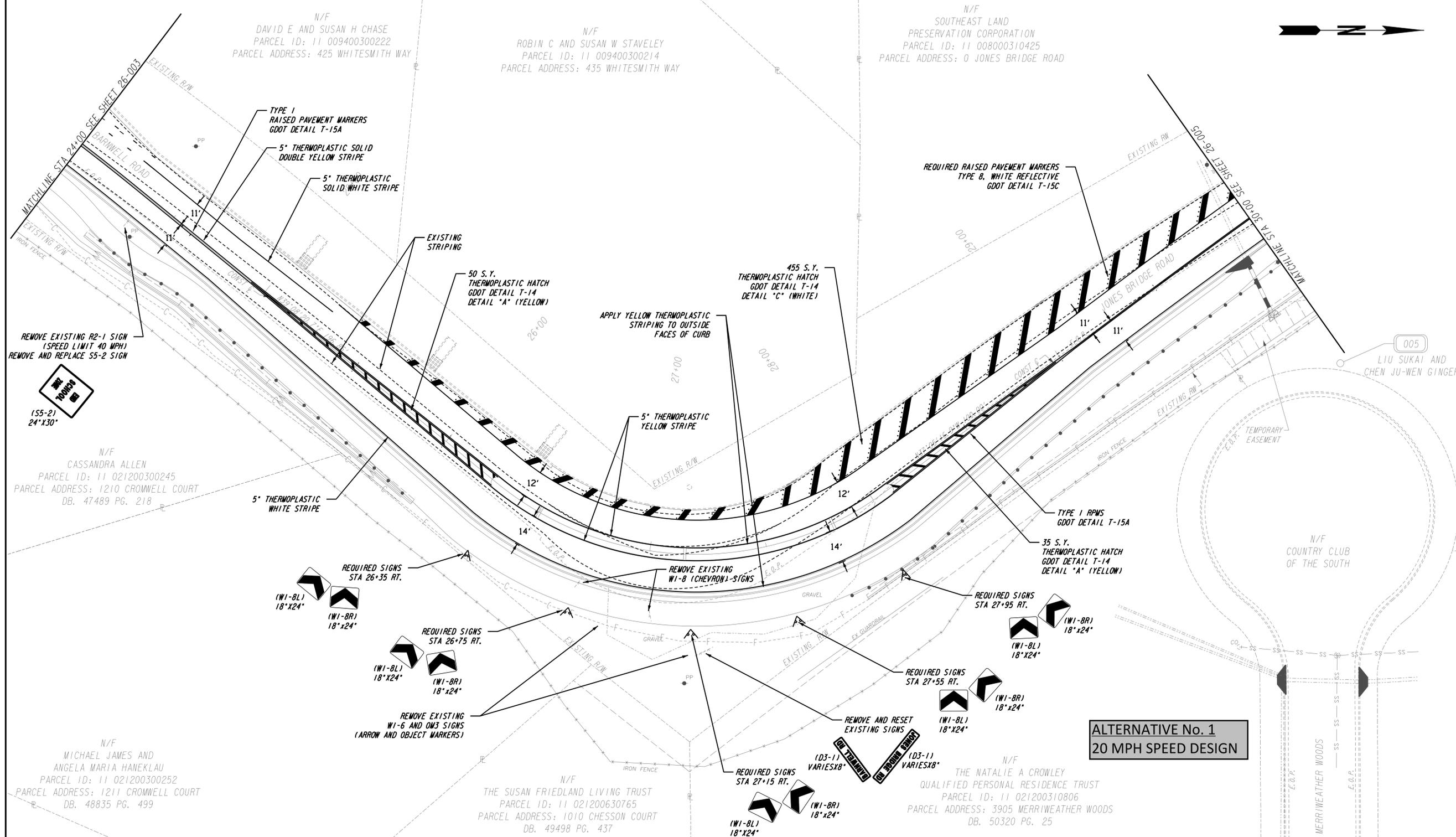


**BARNWELL ROAD AT JACOBEAN ENTRY
INTERSECTION SIGHT DISTANCE REVIEW
PROPOSED IMPROVEMENTS
SHEET 14**

SIGHT LINE LEGEND	
390 FT.	REQUIRED FOR 35 MPH
445 FT.	REQUIRED FOR 40 MPH



DATE: APRIL 20, 2016



ALTERNATIVE No. 1
20 MPH SPEED DESIGN

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---

dpe
 Development Planning & Engineering, Inc.
 civil sanitary transportation survey

5074 BRISTOL INDUSTRIAL WAY
 SUITE A
 BUFORD, GEORGIA 30518
 (770) 271-2868 / (770) 271-0779 FAX
 www.dpengr.com

PRELIMINARY
 August 15, 2015

SCALE IN FEET
 0 20 40 80

REVISION DATES		

CITY OF
 JOHNS CREEK

OFFICE:
SIGNING AND MARKING PLANS
BARNWELL ROAD AT JONES BRIDGE ROAD

ENHANCED SIDEWALK &
 INTERSECTION IMPROVEMENTS

SHEET 15



HEPPLEWHITE DRIVE

JACOBAN ENTRY

POSSIBLE ALIGNMENT,
40 MPH

BARNWELL ROAD

JONES BRIDGE ROAD

ALTERNATIVE No. 2
40 MPH SPEED DESIGN



**BARNWELL ROAD AT JONES BRIDGE ROAD
INTERSECTION IMPROVEMENTS
40 MPH DESIGN SPEED
SHEET 15**



DATE: APRIL 20, 2016

GRID NORTH
GA WEST ZONE

ACCIDENT DATA (COVENTRY LANE)

YEAR	No. OF ACCIDENTS
2010	0
2011	0
2012	0
2013	0
2014	0
2015	0

ACCIDENT DATA (ELLINGTON PLACE)

YEAR	No. OF ACCIDENTS
2010	0
2011	0
2012	0
2013	0
2014	0
2015	0



EXISTING SIGHT
DISTANCE,
SDR = 704 FT.

EXISTING SIGHT
DISTANCE,
SDL = 331 FT.

EXISTING SIGHT
DISTANCE,
SDR = 302 FT.

EXISTING SIGHT DISTANCE, SDL = 624 FT.

SIGHT LINE LEGEND

-  MEETS 40 MPH
-  DOES NOT MEET 40 MPH

GRID NORTH
GA WEST ZONE



**JONES BRIDGE ROAD AT COVENTRY LANE
AND ELLINGTON PLACE
INTERSECTION SIGHT DISTANCE REVIEW
EXISTING CONDITIONS**

SHEET 16

Graphic Scale: 1" = 40'



DATE: APRIL 20, 2016



SIGHT LINE LEGEND

	390 FT.	REQUIRED FOR 35 MPH
	445 FT.	REQUIRED FOR 40 MPH

GRID NORTH
GA WEST ZONE

Johns Creek
be the exception

**JONES BRIDGE ROAD AT COVENTRY LANE
AND ELLINGTON PLACE
INTERSECTION SIGHT DISTANCE REVIEW
PROPOSED IMPROVEMENTS
SHEET 17**

Graphic Scale: 1" = 40'

DATE: APRIL 20, 2016

ACCIDENT DATA

YEAR	No. OF ACCIDENTS
2010	0
2011	0
2012	0
2013	0
2014	0
2015	0



ISD LOOKING RIGHT (SDR)



ISD LOOKING LEFT (SDL)

EXISTING SIGHT DISTANCE,
SDL = <255 FT. WITH LEFT
TURN STACKING

EXISTING SIGHT DISTANCE,
SDR = 421 FT.

EXISTING SIGHT DISTANCE,
SDL = 862 FT.

SIGHT LINE LEGEND

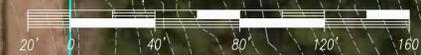
-  MEETS 40 MPH
-  DOES NOT MEET 40 MPH



**JONES BRIDGE ROAD AT JONES BRIDGE WAY
INTERSECTION SIGHT DISTANCE REVIEW
EXISTING CONDITIONS**

SHEET 18

Graphic Scale: 1" = 40'



DATE: APRIL 20, 2016

GRID NORTH
GAINST ZONE



REMOVE VEGETATION WITHIN LINE OF SIGHT

SIGHT LINE LEGEND

390 FT.	REQUIRED FOR 35 MPH
445 FT.	REQUIRED FOR 40 MPH



**JONES BRIDGE ROAD AT JONES BRIDGE WAY
INTERSECTION SIGHT DISTANCE REVIEW
PROPOSED IMPROVEMENTS
SHEET 19**



DATE: APRIL 20, 2016

GRID NORTH
GAINST ZONE