PUBLIC MEETING MAP – ALTERNATIVE 1A

JACKSON COUNTY, NC

R-5600

UPGRADE NC 107 FROM NC 116 TO US-23 BUSINESS

PLANS PREPARED IN THE OFFICE OF:

HDR | ICA

ICA Engineering, Inc.
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258

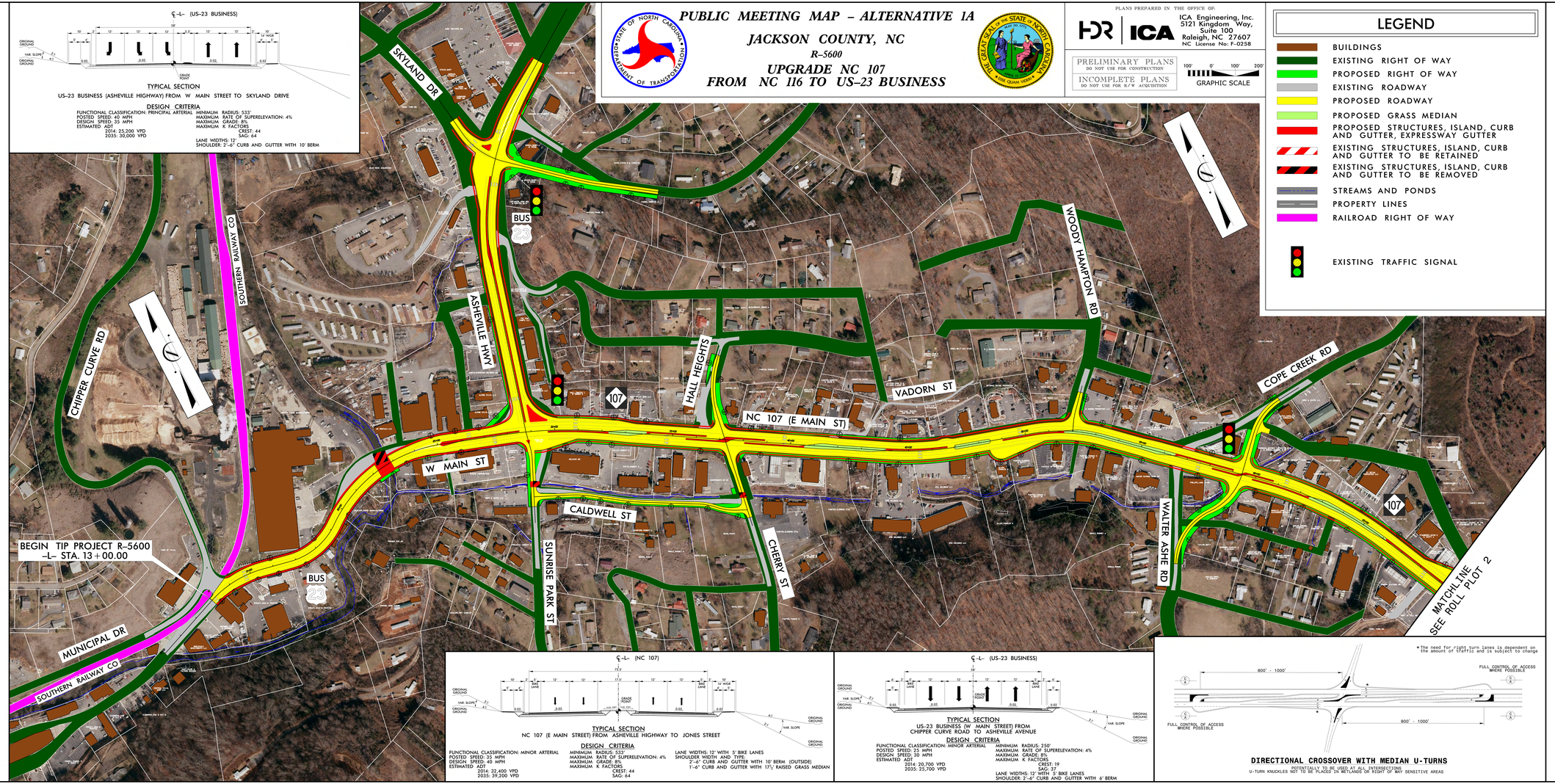
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

100' 0' 100' 200'
GRAPHIC SCALE

LEGEND

- BUILDINGS
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING ROADWAY
- PROPOSED ROADWAY
- PROPOSED GRASS MEDIAN
- PROPOSED STRUCTURES, ISLAND, CURB AND GUTTER, EXPRESSWAY GUTTER
- EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE RETAINED
- EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE REMOVED
- STREAMS AND PONDS
- PROPERTY LINES
- RAILROAD RIGHT OF WAY
- EXISTING TRAFFIC SIGNAL



℄ -L- (US-23 BUSINESS)

TYPICAL SECTION
US-23 BUSINESS (ASHEVILLE HIGHWAY) FROM W MAIN STREET TO SKYLAND DRIVE

DESIGN CRITERIA
FUNCTIONAL CLASSIFICATION: PRINCIPAL ARTERIAL
POSTED SPEED: 40 MPH
DESIGN SPEED: 35 MPH
ESTIMATED ADT
2014: 25,200 VPD
2035: 30,000 VPD
MINIMUM RADIUS: 533'
MAXIMUM RATE OF SUPERELEVATION: 4%
MAXIMUM GRADE: 8%
MAXIMUM K FACTORS
CREST: 44
SAG: 64
LANE WIDTHS: 12'
SHOULDER: 2'-6" CURB AND GUTTER WITH 10' BERM

℄ -L- (NC 107)

TYPICAL SECTION
NC 107 (E MAIN STREET) FROM ASHEVILLE HIGHWAY TO JONES STREET

DESIGN CRITERIA
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
POSTED SPEED: 35 MPH
DESIGN SPEED: 40 MPH
ESTIMATED ADT
2014: 22,400 VPD
2035: 39,200 VPD
MINIMUM RADIUS: 533'
MAXIMUM RATE OF SUPERELEVATION: 4%
MAXIMUM GRADE: 8%
MAXIMUM K FACTORS
CREST: 44
SAG: 64
LANE WIDTHS: 12' WITH 5' BIKE LANES
SHOULDER WIDTH AND TYPE:
2'-6" CURB AND GUTTER WITH 10' BERM (OUTSIDE)
1'-6" CURB AND GUTTER WITH 17½' RAISED GRASS MEDIAN

℄ -L- (US-23 BUSINESS)

TYPICAL SECTION
US-23 BUSINESS (W MAIN STREET) FROM
CHIPPER CURVE ROAD TO ASHEVILLE AVENUE

DESIGN CRITERIA
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
POSTED SPEED: 25 MPH
DESIGN SPEED: 30 MPH
ESTIMATED ADT
2014: 20,700 VPD
2035: 25,700 VPD
MINIMUM RADIUS: 250'
MAXIMUM RATE OF SUPERELEVATION: 4%
MAXIMUM GRADE: 8%
MAXIMUM K FACTORS
CREST: 19
SAG: 37
LANE WIDTHS: 12' WITH 5' BIKE LANES
SHOULDER: 2'-6" CURB AND GUTTER WITH 6' BERM

DIRECTIONAL CROSSOVER WITH MEDIAN U-TURNS
POTENTIALLY TO BE USED AT ALL INTERSECTIONS
U-TURN KNUCKLES NOT TO BE PLACED IN WETLANDS OR RIGHT OF WAY SENSITIVE AREAS

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SHEET 1 OF 2

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