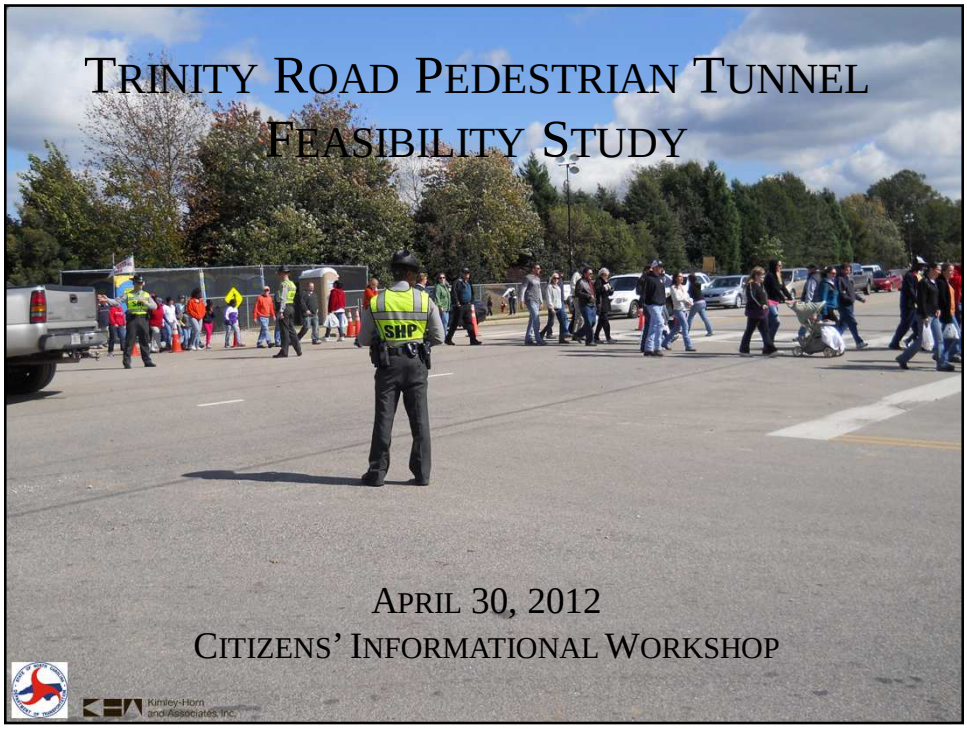
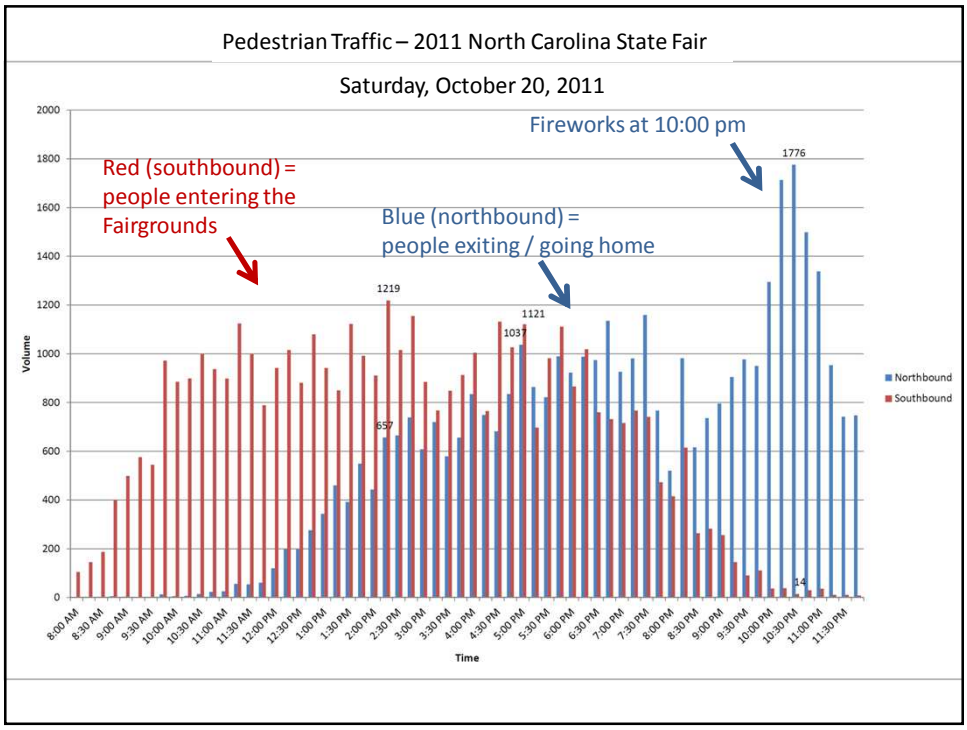
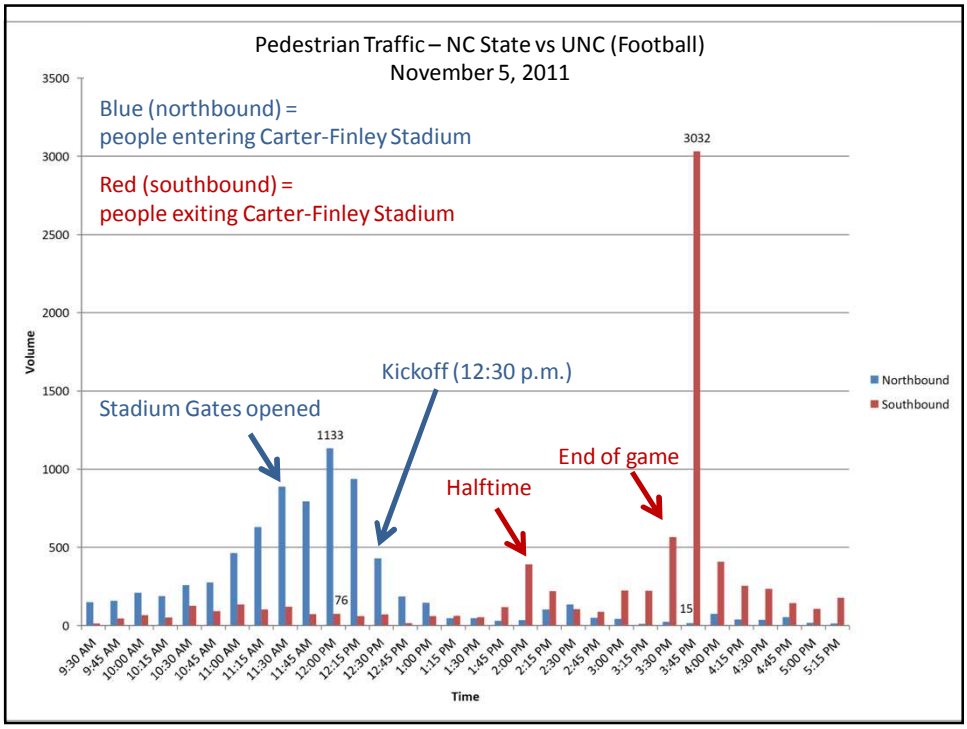
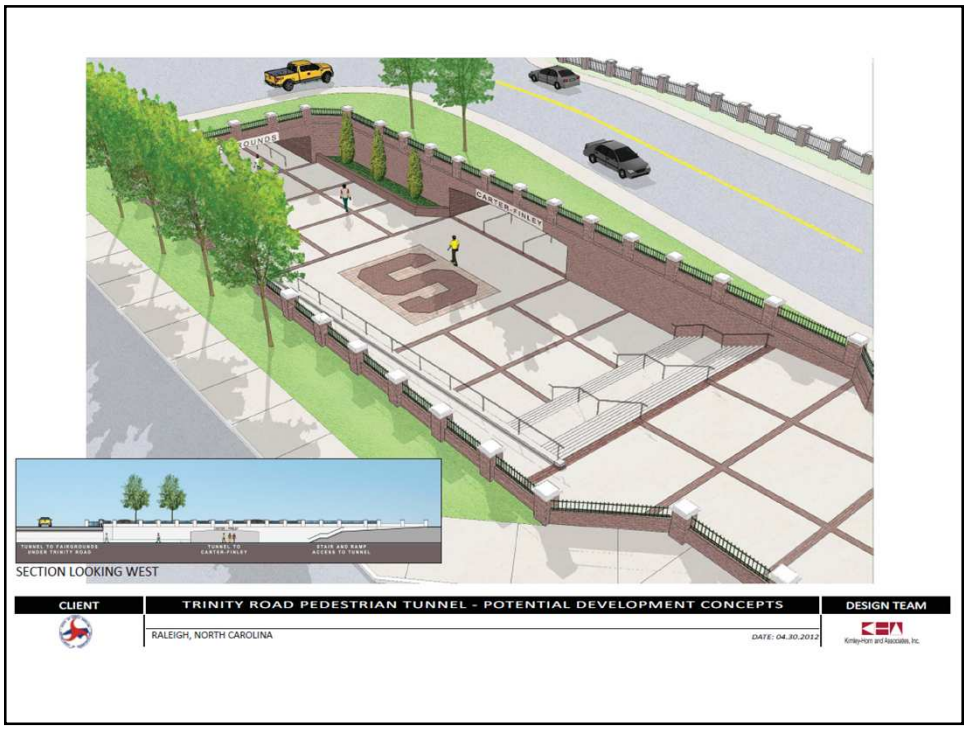

TRINITY ROAD PEDESTRIAN TUNNEL
FEASIBILITY STUDY
SHP
APRIL 30, 2012
CITIZENS' INFORMATIONAL WORKSHOP
Kimley-Horn and Associates, Inc.


Pedestrian Traffic – 2011 North Carolina State Fair
Saturday, October 20, 2011
Fireworks at 10:00 pm
Red (southbound) = people entering the Fairgrounds
Blue (northbound) = people exiting / going home
1776
1219
1121
1037
657
14
Volume
Time
Northbound
Southbound


Pedestrian Traffic – NC State vs UNC (Football)
November 5, 2011
Blue (northbound) =
people entering Carter-Finley Stadium
Red (southbound) =
people exiting Carter-Finley Stadium
Stadium Gates opened
Kickoff (12:30 p.m.)
Halftime
End of game
1133
76
3032
15
Volume
Time
Northbound
Southbound


SECTION LOOKING WEST
CLIENT
TRINITY ROAD PEDESTRIAN TUNNEL - POTENTIAL DEVELOPMENT CONCEPTS
DESIGN TEAM
RALEIGH, NORTH CAROLINA
DATE: 04.30.2012

OPTION A

OPTION B

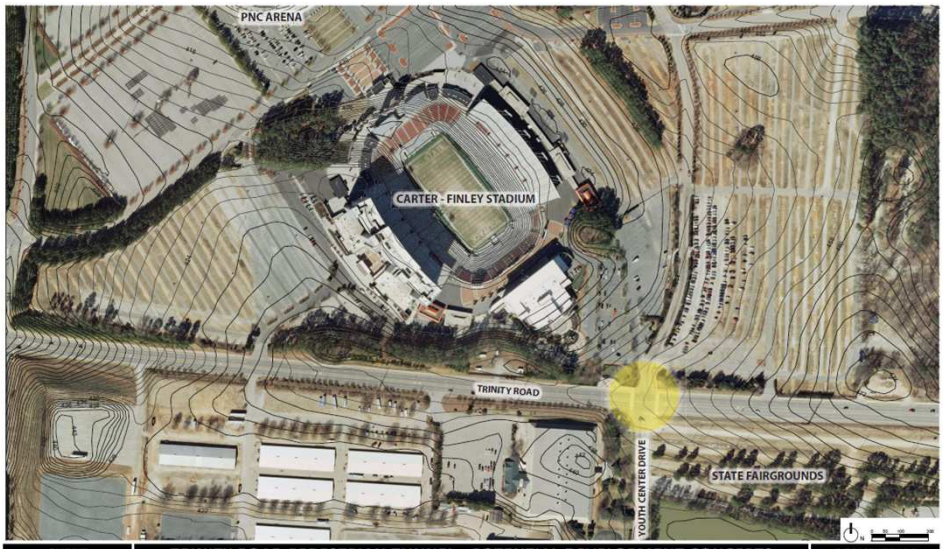
OPTION C

CLIENT | TRINITY ROAD PEDESTRIAN TUNNEL - POTENTIAL DEVELOPMENT CONCEPTS | DESIGN TEAM

RALEIGH, NORTH CAROLINA

DATE: 04.30.2012

Kimley-Horn and Associates, Inc.



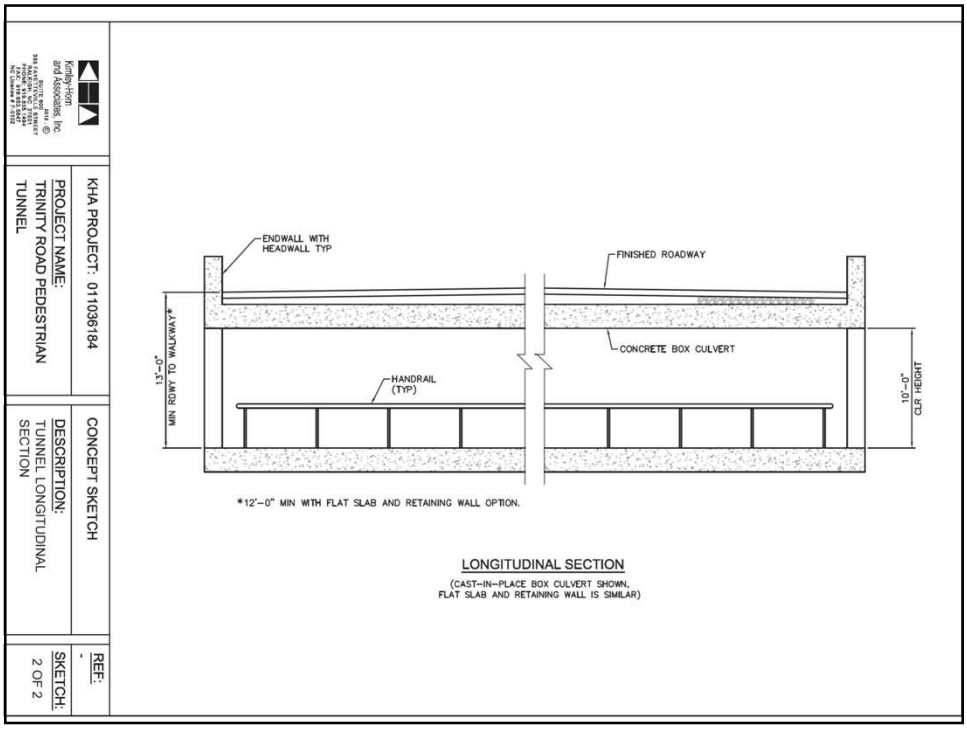
CLIENT | TRINITY ROAD PEDESTRIAN TUNNEL - POTENTIAL DEVELOPMENT CONCEPTS | DESIGN TEAM

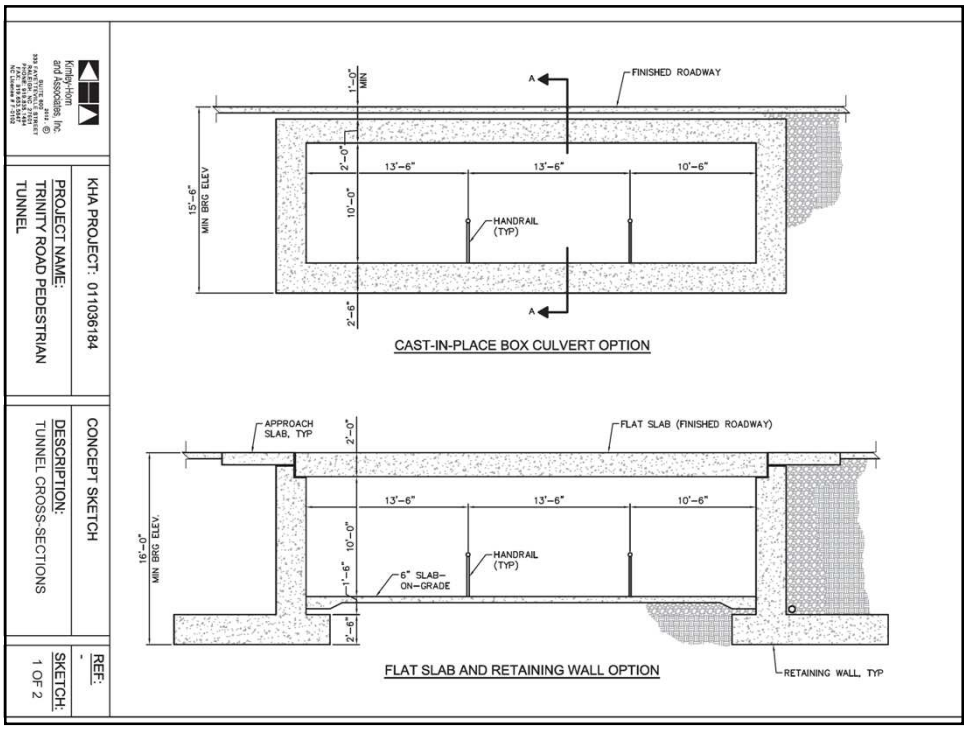
EXISTING CONDITIONS

RALEIGH, NORTH CAROLINA

DATE: 04.30.2012

Kimley-Horn and Associates, Inc.


ENDWALL WITH HEADWALL TYP
FINISHED ROADWAY
CONCRETE BOX CULVERT
HANDRAIL (TYP)
13'-0" MIN RDWY TO WALKWAY*
10'-0" CLR HEIGHT
*12'-0" MIN WITH FLAT SLAB AND RETAINING WALL OPTION.
LONGITUDINAL SECTION
(CAST-IN-PLACE BOX CULVERT SHOWN, FLAT SLAB AND RETAINING WALL IS SIMILAR)
Kimley-Horn and Associates, Inc.
KHA PROJECT: 011036184
PROJECT NAME: TRINITY ROAD PEDESTRIAN TUNNEL
CONCEPT SKETCH
DESCRIPTION: TUNNEL LONGITUDINAL SECTION
REF: -
SKETCH: 2 OF 2


FINISHED ROADWAY
1'-0" MIN
2'-0"
13'-6"
13'-6"
10'-6"
10'-0"
15'-6" MIN BRG ELEV
HANDRAIL (TYP)
2'-6"
A
CAST-IN-PLACE BOX CULVERT OPTION
APPROACH SLAB, TYP
FLAT SLAB (FINISHED ROADWAY)
2'-0"
13'-6"
13'-6"
10'-6"
10'-0"
16'-0" MIN BRG ELEV.
HANDRAIL (TYP)
1'-6"
6" SLAB-ON-GRADE
2'-6"
FLAT SLAB AND RETAINING WALL OPTION
RETAINING WALL, TYP
Kimley-Horn and Associates, Inc.
KHA PROJECT: 011036184
PROJECT NAME: TRINITY ROAD PEDESTRIAN TUNNEL
CONCEPT SKETCH
DESCRIPTION: TUNNEL CROSS-SECTIONS
REF: -
SKETCH: 1 OF 2