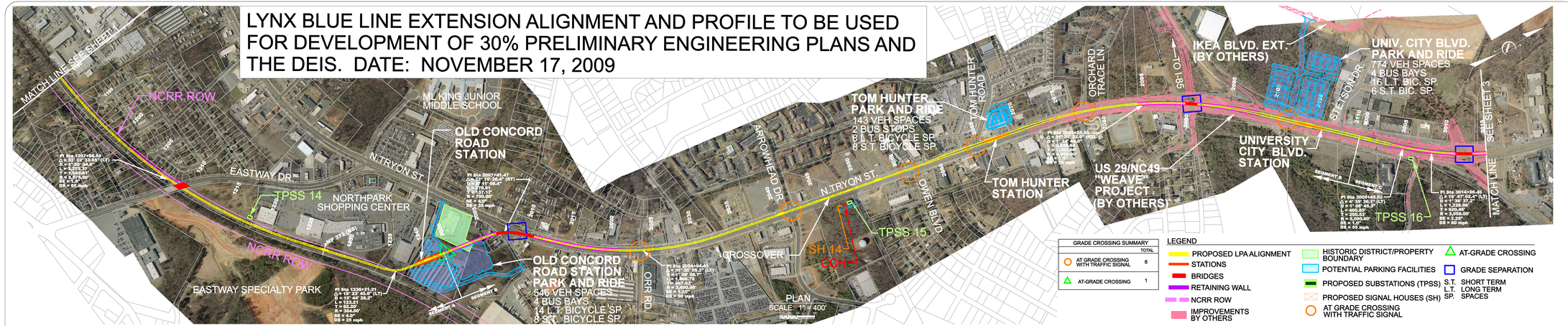
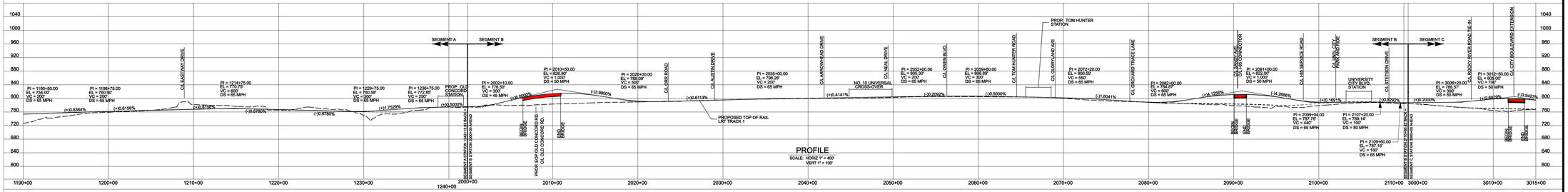
LYNX BLUE LINE EXTENSION ALIGNMENT AND PROFILE TO BE USED FOR DEVELOPMENT OF 30% PRELIMINARY ENGINEERING PLANS AND THE DEIS. DATE: NOVEMBER 17, 2009



GRADE CROSSING SUMMARY	TOTAL
AT GRADE CROSSING WITH TRAFFIC SIGNAL	6
AT-GRADE CROSSING	1

LEGEND

- PROPOSED LPA ALIGNMENT
- STATIONS
- BRIDGES
- RETAINING WALL
- NCRR ROW
- IMPROVEMENTS BY OTHERS
- HISTORIC DISTRICT/PROPERTY BOUNDARY
- POTENTIAL PARKING FACILITIES
- PROPOSED SUBSTATIONS (TPSS)
- PROPOSED SIGNAL HOUSES (SH)
- AT GRADE CROSSING WITH TRAFFIC SIGNAL
- AT-GRADE CROSSING
- GRADE SEPARATION
- S.T. SHORT TERM
- L.T. LONG TERM
- SP. SPACES



CONCEPTUAL DRAWING
SUBJECT TO CHANGE WITHOUT NOTICE

STV / Ralph Whitehead Associates, Inc.
1000 West Morehead St., Ste. 200
Charlotte, NC 28208

CATS CHARLOTTE AREA TRANSIT SYSTEM

PREPARED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

LYNX BLUE LINE EXTENSION
LOCALLY PREFERRED ALTERNATIVE
HORIZONTAL AND VERTICAL
TRACK ALIGNMENT

DATE: 11/17/09
SHEET: 2 OF 3
DRAWING:
CATS NO:

NO.	DATE	REVISION	BY	DWN	CHK	APP

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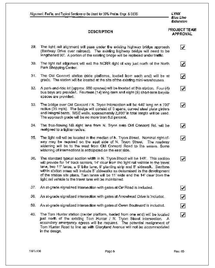
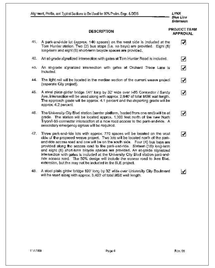


Alignment Prefix and Typical Sections to be used in 30% Prelim. Engr. & DEIS

LYNX Blue Line Extension

DESCRIPTION	PROJECT TEAM APPROVAL
28. The light rail alignment will pass under the existing highway bridge approach structure for Tom Hunter Road. The clearance between the light rail and the highway will ...	✓
29. The light rail alignment will exit the NCRR Right of way just north of the North Park Shopping Center.	✓
31. The Old Concord station (side platforms, loaded from west only) will be at grade. The station will be located at the intersection of Old Concord Road and N.Tryon ...	✓
32. A park and ride lot (approx. 550 spaces) will be located at this station. Four (4) bus bays (Metro Transit, Trolley lanes and express) ...	✓
33. The bridge over Old Concord Rd. Tryon intersection will be Add long on a 0.67 grade. The bridge will be constructed of spans of prestressed concrete girders and ...	✓
34. The Grossover Track will be located at the Sharon Amity Road grade crossing. The approach grade will be no more than 5.0 percent.	✓
34a. The Sha Rdwy 14 right area from N. Tryon near Old Concord Rd. will be realigned to a higher radius.	✓
35. The light rail will be located in the median of N. Tryon Street. Nominal right of way will be required on the east side of N. Tryon Street. The alignment entering and ...	✓
36. The standard layout section width in N. Tryon Street will be 147. This section consists of a 14 foot median, 2 lanes of traffic in each direction, a 6 foot bicycle lane, the 17 foot ...	✓
37. An at-grade signalized intersection with gates at Orr Road is included.	✓
38. An at-grade signalized intersection with gates at Arrowhead Drive is included.	✓
39. An at-grade signalized intersection with gates at Owen Boulevard is included.	✓
40. The Tom Hunter station (center platform, loaded from one side) will be located ...	✓
41. A park and ride lot (approx. 140 spaces) on the west side is included at the Tom Hunter station. The (2) bus stops (i.e. no bays) are provided. Eight (8) ...	✓
42. An at-grade signalized intersection with gates at Tom Hunter Road is included.	✓
43. An separate signalized intersection with gates at Orchard Trace Lane is included.	✓
44. The light rail will be located in the median section of the current weave project ...	✓
45. A steel plate girder bridge (41 feet) to 32' wide over UNI Connector / Sandy Ave. Intersection will be used along with approx. 2,640 of the NCDOT and length ...	✓
46. The University City Blvd station (center platform, loaded from one side) will be located ...	✓
47. Three park and ride lots with spaces, (775 spaces) will be located on the south side of the proposed weave project. Two lots will be located north of the parallel ...	✓
48. A steel plate girder bridge 300 long to 32' wide over University City Boulevard and the level along with approx. 3,400 of total deck and length.	✓



Alignment, Profile, and Typical Sections to be Used in 30% Prelim. Engr. & DEIS

LYNX Blue Line Extension

DESCRIPTION	PROJECT TEAM APPROVAL
49. A park and ride lot (approx. 140 spaces) on the west side is included at the Tom Hunter station. The (2) bus stops (i.e. no bays) are provided. Eight (8) ...	✓
50. An at-grade signalized intersection with gates at Tom Hunter Road is included.	✓
51. An separate signalized intersection with gates at Orchard Trace Lane is included.	✓
52. The light rail will be located in the median section of the current weave project ...	✓
53. A steel plate girder bridge (41 feet) to 32' wide over UNI Connector / Sandy Ave. Intersection will be used along with approx. 2,640 of the NCDOT and length ...	✓
54. The University City Blvd station (center platform, loaded from one side) will be located ...	✓
55. Three park and ride lots with spaces, (775 spaces) will be located on the south side of the proposed weave project. Two lots will be located north of the parallel ...	✓
56. A steel plate girder bridge 300 long to 32' wide over University City Boulevard and the level along with approx. 3,400 of total deck and length.	✓