

EPHESUS CHURCH ROAD / FORDHAM BOULEVARD CONCEPTUAL LAYOUTS AND FUNCTIONAL ROADWAY PLANS

CHAPEL HILL, NORTH CAROLINA

UTILITY AND GOVERNING AGENCIES CONTACT LIST:

WATER

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AND WATER DIVISION
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CONTACT: LEONARD MCBRYDE III, PE
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SANITARY SEWER

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STORM WATER

TOWN OF CHAPEL HILL
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CHAPEL HILL, NC 27514
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CONTACT: SUE BURKE, PE, CFM
STORMWATER ENGINEER
EMAIL: SBURKE@TOWNOFCHAPELHILL.ORG

ENGINEERING DEPARTMENT

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PLANNING DEPARTMENT

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NCDOT

CHARLES EDWARDS
766 GRAHAM, NC 27253
CONTACT: CHARLES EDWARDS.

POWER COMPANY

PROGRESS ENERGY
P.O. BOX 1551
RALEIGH, NC 27602-1551
(919) 548-5303

CONTACT: LARRY LEHNING

TELECOMMUNICATIONS

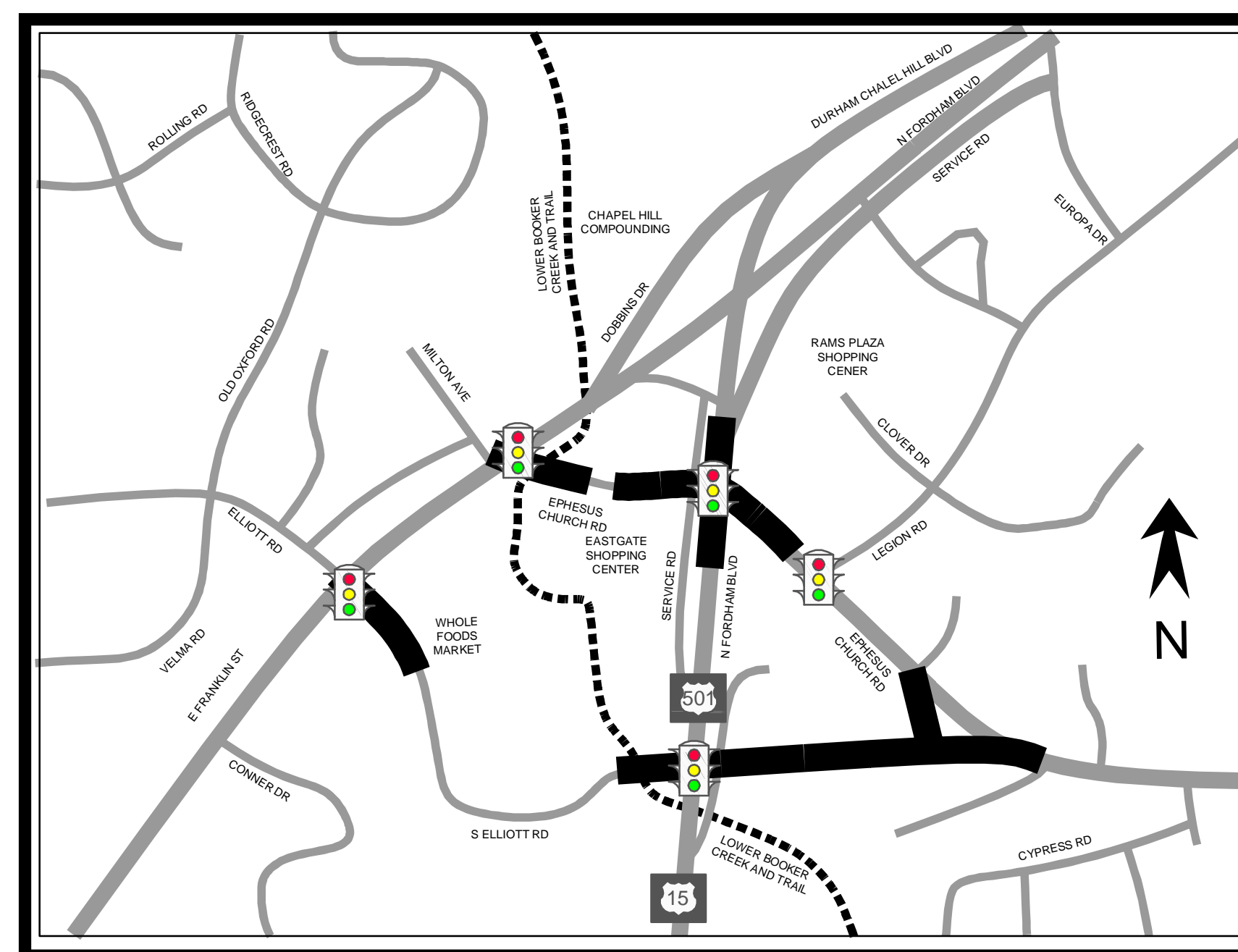
AT&T
CHAPEL HILL, NC
(919) 967-1300

CONTACT: SCOTT NUNNELLY

TIME WARNER CABLE
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CARY, NC 27511
(919) 595-4892

NATURAL GAS

PSNC
66 N. CHATHAM PARKWAY
CHAPEL HILL, NC 27517
(919) 918-3015



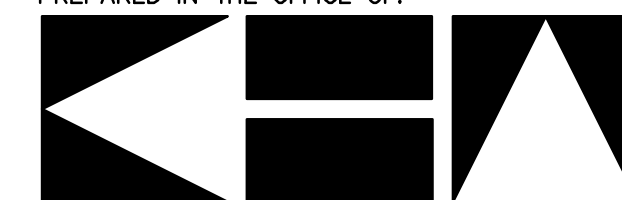
SITE LOCATIONS MAP
NTS

NOTES:

EX. ROW IS BASED ON GIS MAPPING
STATE PLAN NAD 1983 COORDINATES

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

PREPARED IN THE OFFICE OF:



NC LICENSE #F-0102
2000 SOUTH BLVD., SUITE 440 CHARLOTTE, NC 28203
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Kimley-Horn
and Associates, Inc.

TYPE II METHOD OF CLEARING
2012 NCDOT STANDARD SPECIFICATIONS

SHEET LIST

Sheet Number	Sheet Title
1	COVER SHEET
1A	GENERAL NOTES SHEET
1B	ELLIOTT ROAD EXTENSION TYPICAL SECTIONS
1C	DETAIL SHEET
2A	CONCEPTUAL LAYOUT FORDHAM BLVD AND EPHEBUS CHURCH ROAD
2B	CONCEPTUAL LAYOUT FRANKLIN ST AND ELLIOTT ROAD
2C	CONCEPTUAL LAYOUT FRANKLIN ST AND EPHEBUS CHURCH RD
3	FUNCTIONAL PLAN ELLIOTT ROAD EXTENSION
X1	ELLIOTT ROAD EXTENSION CROSS SECTIONS
X2	ELLIOTT ROAD EXTENSION CROSS SECTIONS
X3	ELLIOTT ROAD EXTENSION CROSS SECTIONS
X4	ELLIOTT ROAD EXTENSION CROSS SECTIONS
X5	ELLIOTT ROAD EXTENSION CROSS SECTIONS

PROJECT CONTACT LIST:

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CONTACT: AMY MASSEY, P.E.

SURVEYOR:

CHAPEL HILL ENGINEERING
ENGINEERING DEPT.
STATE PLANE NAD 1983 COORDINATES
TOWN OF CHAPEL HILL
PHONE: 919-969-5089

CONTACT PERSON: DEBORAH FREDERICK-SQUIRES GISP



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CONSTRUCTION

NO.	DATE	REVISIONS



TOWN OF CHAPEL HILL
405 MLK JR. BLVD.
CHAPEL HILL, NC 27514

CLIENT:

PROJECT:
EPHESUS CHURCH ROAD
FORDHAM BOULEVARD
FUNCTIONAL ROADWAY PLANS

TITLE:
COVER SHEET

DESIGNED BY: LL
DRAWN BY: LL
CHECKED BY: AM/RH
DATE: 10+05-2012
PROJECT#: 018617000



Know what's below.
Call before you dig.

ABBREVIATIONS

Table listing abbreviations for various road construction terms such as ABAND, ASPH, APPROX, B/C, BIT, BM, BRG, CB, C&G, CL, C/L FENCE, CMP, CONC, CONST, DB, DI, DIA, DW, DIM, E, EA, ELEV, EOP, ESMT, EXIST, F/C, FES, FH, FOC, GV, HORIZ, INT, INV, IP, L, LF, LT, LB, LP, MAX, MIN, MONO, mph, MTL, N.

ABBREVIATIONS

THE FOLLOWING STANDARDS AND THE LATEST REVISION THERETO ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE ARE CONSIDERED A PART OF THESE PLANS. NCDOT STANDARDS SHALL BE USED.

NCDOT 2012 STANDARD DRAWINGS:

Table mapping Standard Number to Title for NCDOT 2012 drawings, including items like 200.02 METHOD OF CLEARING, 300.01 METHOD OF PIPE INSTALLATION, and 1253.01 SNOWPLOWABLE RAISED PAVEMENT MARKERS.

TRAFFIC CONTROL LEGEND table listing symbols for flashing arrow panels, portable message signs, drums, direction of traffic flow, portable signs, type III road barricades, flaggers, work areas, and maintained driveway access.

EROSION CONTROL LEGEND table listing symbols for limits of disturbance, temporary silt fences, fill and cut limits, temporary rock check dams, stone inlet protection, inlet sediment control devices, flow arrows, temporary tree protection fences, stone rings, and temporary construction entrances.

PROPOSED PAVEMENT INFORMATION table showing symbols for proposed centerline/stationing, curb and gutter, edge of pavement, ungraded road, yellow double lane lines, white dashed lane lines, white mini skip lane lines, white pavement symbols, signage, fence, guard rail, railroad tracks, full depth pavement, mill/overlay pavement, asphalt removal, and concrete/sidewalk/c&g.

PROPOSED TOPOGRAPHICAL INFORMATION table listing symbols for proposed borings, grading limits, major and minor contours, station offsets, grading arrows, swales, and storm symbols.

EXISTING BOUNDARY INFORMATION table listing symbols for bearing/distance, easement text, existing boundary text, internal boundaries, ex-rows, and property owner text.

EXISTING PAVEMENT INFORMATION table listing symbols for existing curbs, pavement edges, gravel roads, pavement markings, signage, and sidewalks/concrete.

EXISTING STRUCTURAL INFORMATION table listing symbols for building text, fences, retaining walls, sidewalks/concrete, and rail symbols.

EXISTING UTILITY INFORMATION table listing symbols for TV, LP, electric, fiber optic, gas, sanitary, storm, telephone, and water utilities.

PROPOSED UTILITY INFORMATION table listing symbols for cable TV, U.G. electric, O.H. electric, security camera, fiber optic, gas, sanitary, storm drain, telephone, domestic water, fire water, tamper switch, irrigation, lift station, and utility labels.



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Table with columns for NO., DATE, and REVISIONS.

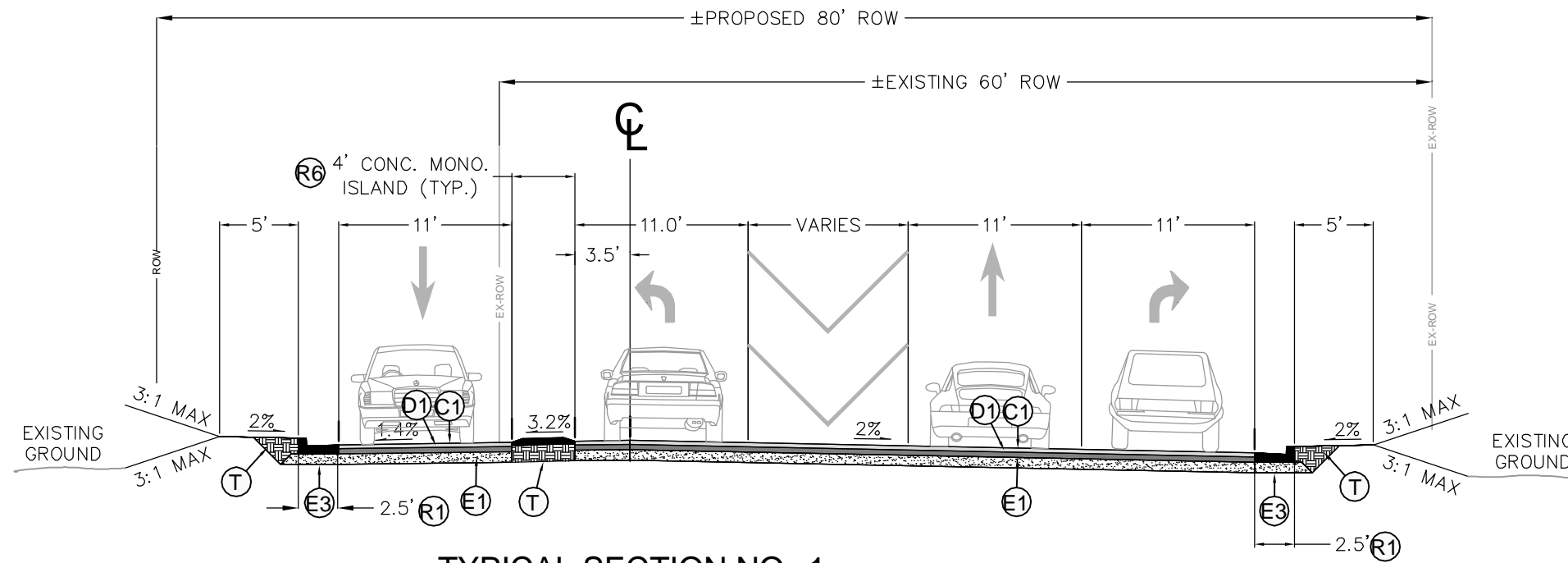


TOWN OF CHAPEL HILL, 405 MLK JR. BLVD., CHAPEL HILL, NC 27514

PROJECT: EPHESUS CHURCH ROAD, FORDHAM BOULEVARD, FUNCTIONAL ROADWAY PLANS

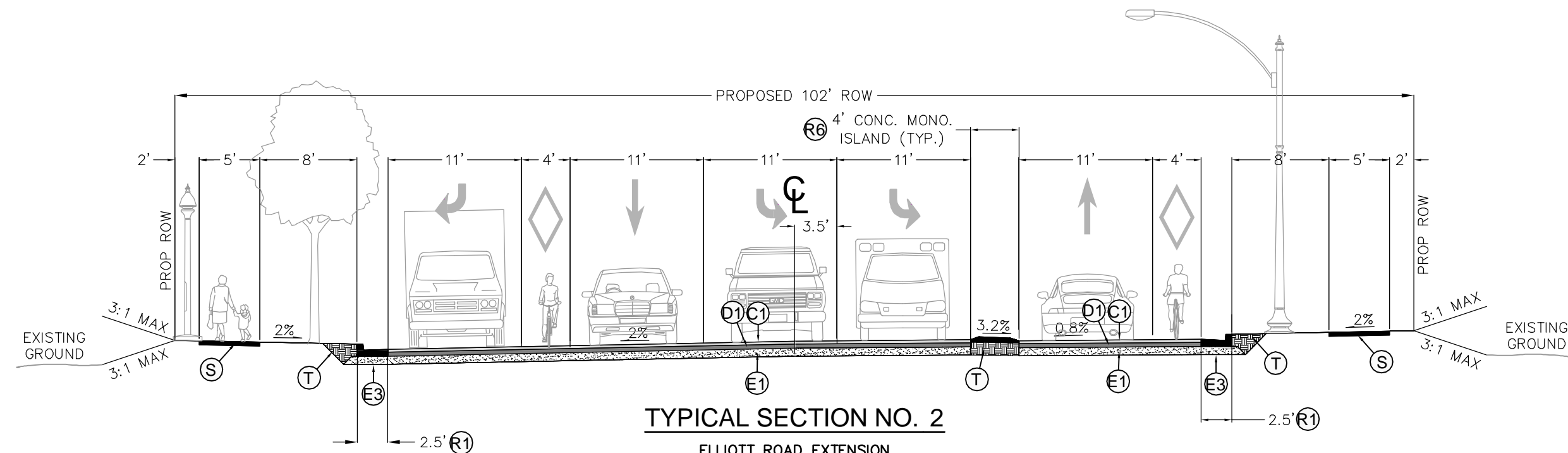
TITLE: GENERAL NOTES SHEET

DESIGNED BY: LL, DRAWN BY: LL, CHECKED BY: AM/RH, DATE: 10+05-2012, PROJECT#: 018617000



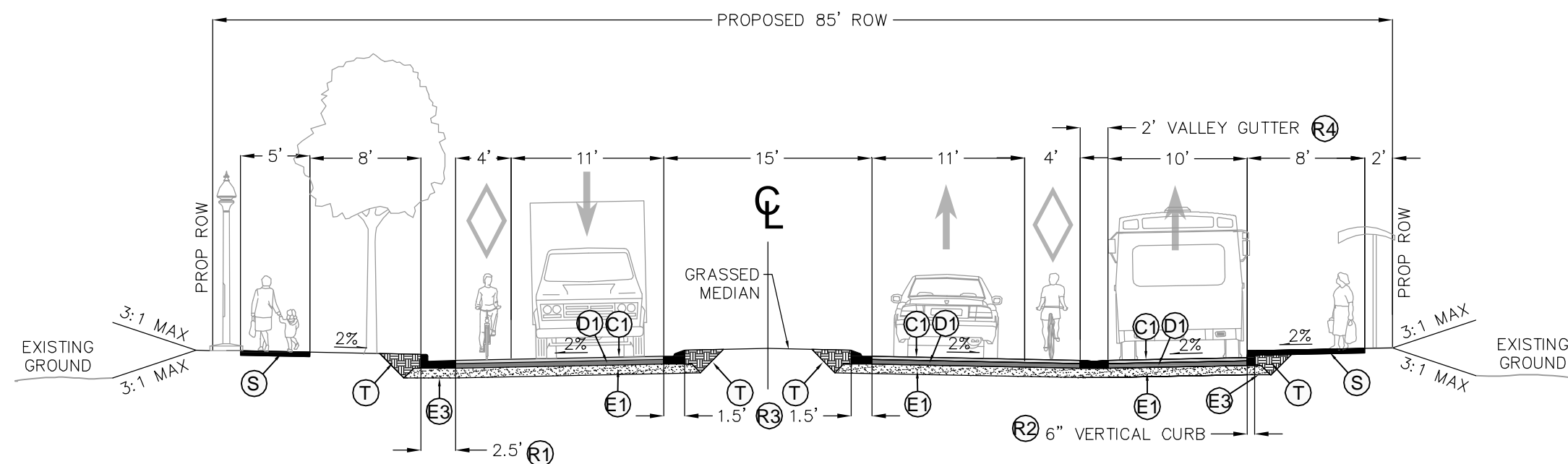
TYPICAL SECTION NO. 1

ELLIOTT ROAD EXTENSION
80' PROPOSED RIGHT-OF-WAY
APPLIES TO STA. 205+00
DESIGN SPEED = 40 MPH



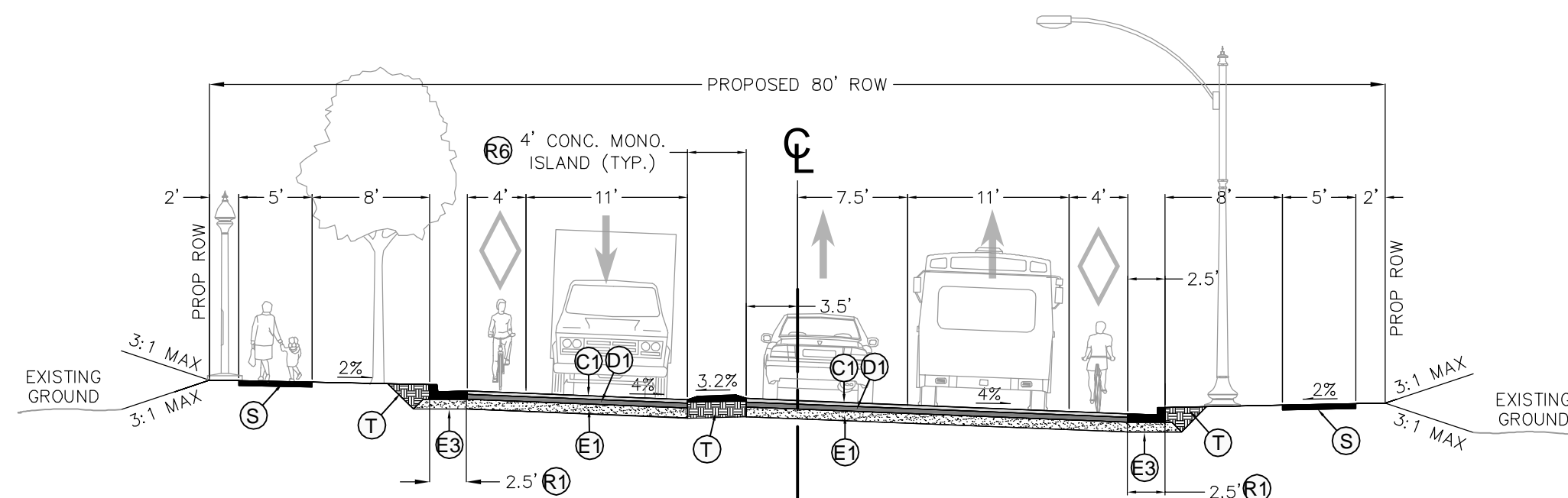
TYPICAL SECTION NO. 2

ELLIOTT ROAD EXTENSION
102' PROPOSED RIGHT-OF-WAY
APPLIES TO STA. 207+00
DESIGN SPEED = 40 MPH



TYPICAL SECTION NO. 3

ELLIOTT ROAD EXTENSION
85' PROPOSED RIGHT-OF-WAY
APPLIES TO STA. 214+00
DESIGN SPEED = 40 MPH



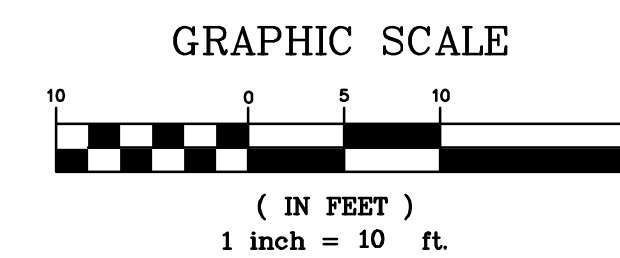
TYPICAL SECTION NO. 4

ELLIOTT ROAD EXTENSION
80' PROPOSED RIGHT-OF-WAY
APPLIES TO STA. 216+00
DESIGN SPEED = 40 MPH

PAVEMENT SCHEDULE *

R1	2'-6" CONCRETE CURB AND GUTTER
R2	6" X 18" VERTICAL CURB
R3	1'-6" CONCRETE CURB AND GUTTER (MOUNTABLE)
R4	2'-0" VALLEY GUTTER
R6	5" MONOLITHIC CONCRETE ISLAND (DOWELED AND KEYED-IN)
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	MILL AND REPLACE WITH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.SC, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.

*PAVEMENT DESIGN NOT APPROVED BY NCDOT



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CONSTRUCTION**

NO.	DATE	REVISIONS



TOWN OF CHAPEL HILL
405 MLK JR. BLVD.
CHAPEL HILL, NC 27514

CLIENT:

PROJECT:
**EPHESUS CHURCH ROAD
FORDHAM BOULEVARD
FUNCTIONAL ROADWAY PLANS**

TITLE:
**ELLIOTT ROAD EXTENSION
TYPICAL SECTIONS**

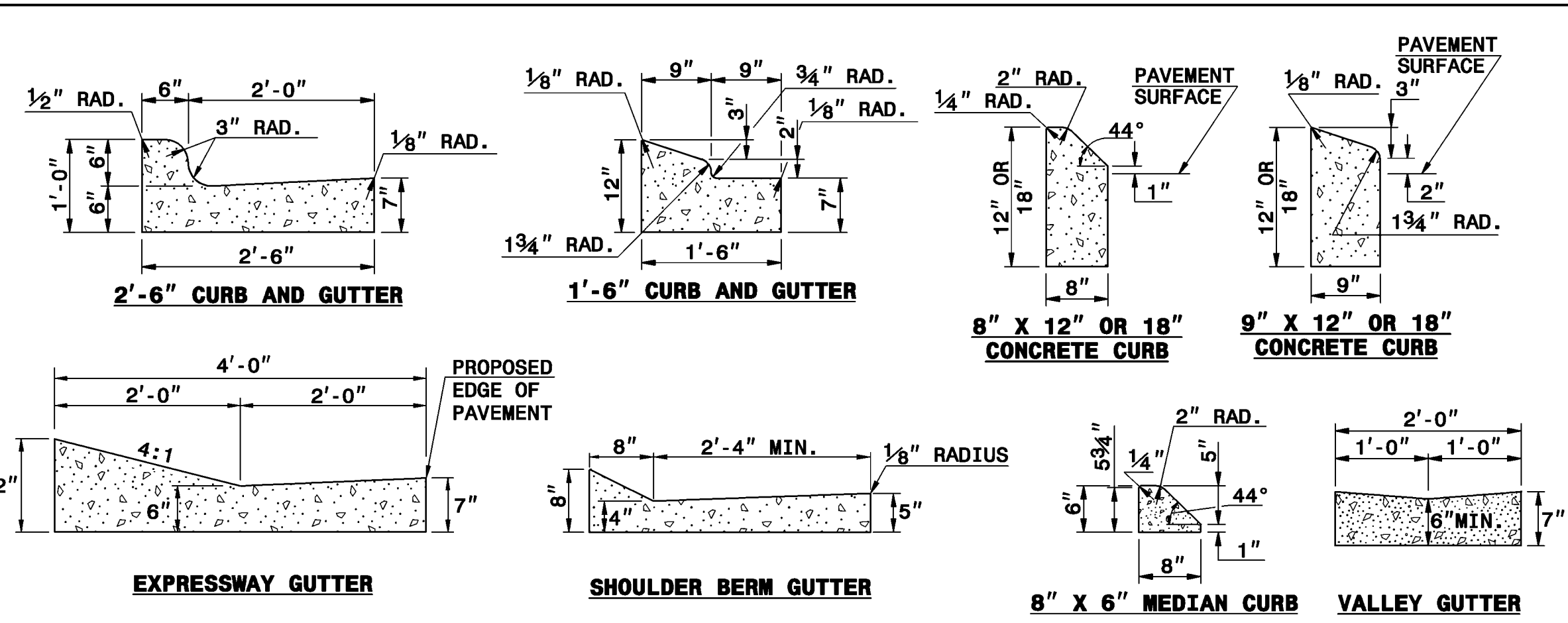
DESIGNED BY: LL
DRAWN BY: LL
CHECKED BY: AM/RH
DATE: 10+05-2012
PROJECT#: 018617000

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

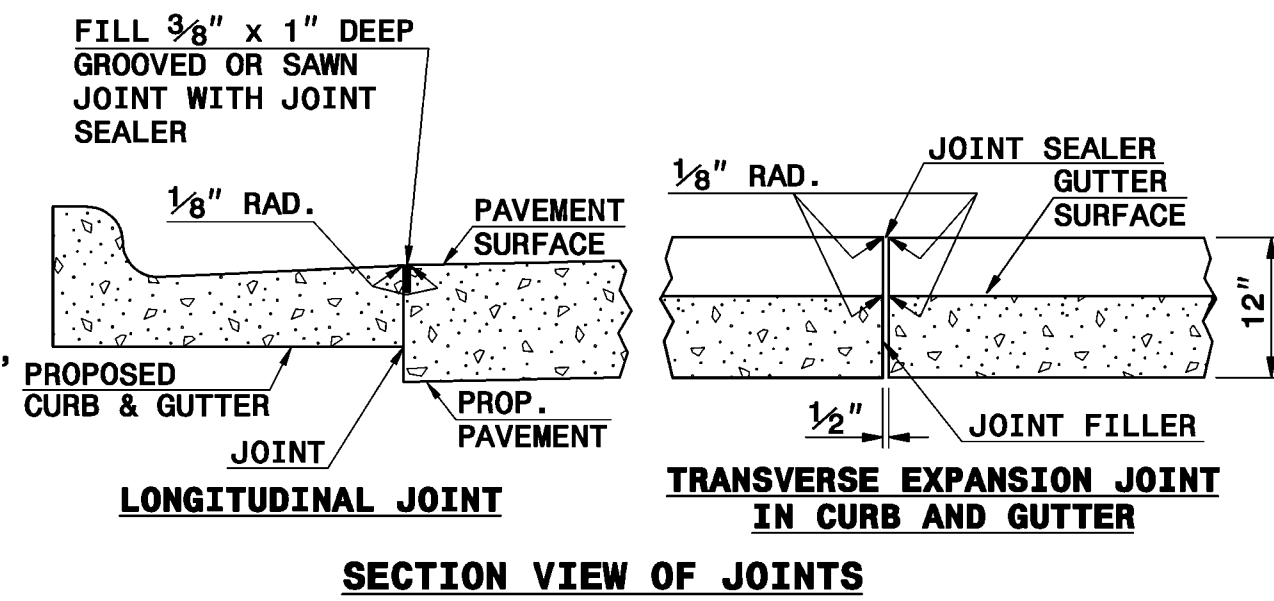
ENGLISH STANDARD DRAWING FOR
CONCRETE CURB, GUTTER
AND CURB & GUTTER

SHEET 1 OF 3
846.01



SECTION VIEW OF CURBS OR CURBS AND GUTTERS

GENERAL NOTES:
-PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
-JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
-CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS.
-CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1 1/2" DEEP.
-FILL ALL CONSTRUCTION JOINTS, EXCEPT IN 8"x6" MEDIAN CURB, WITH JOINT FILLER AND SEALER.
-SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



SECTION VIEW OF JOINTS

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

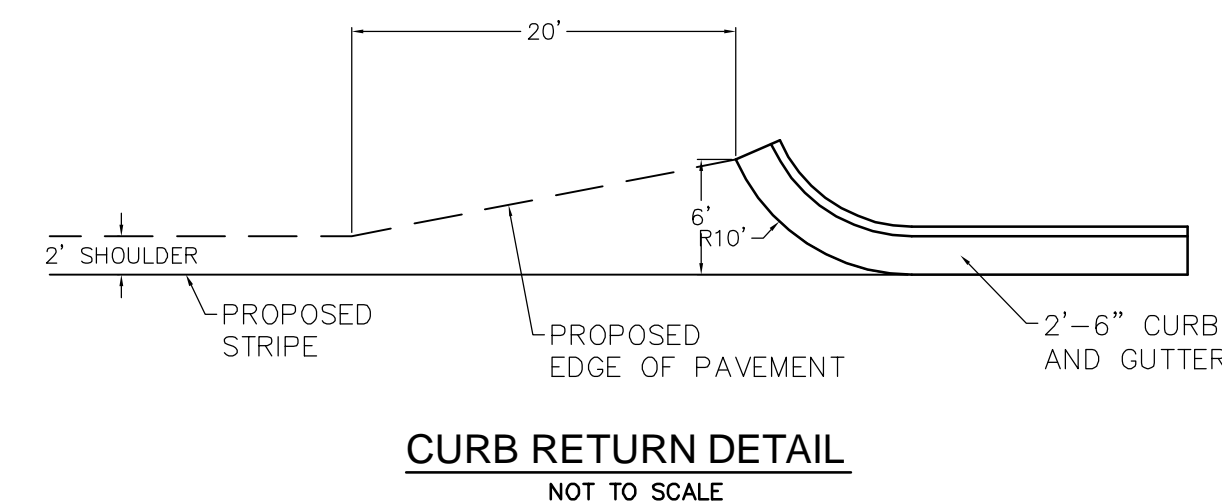
ENGLISH STANDARD DRAWING FOR
CONCRETE CURB, GUTTER
AND CURB & GUTTER

SHEET 1 OF 3
846.01

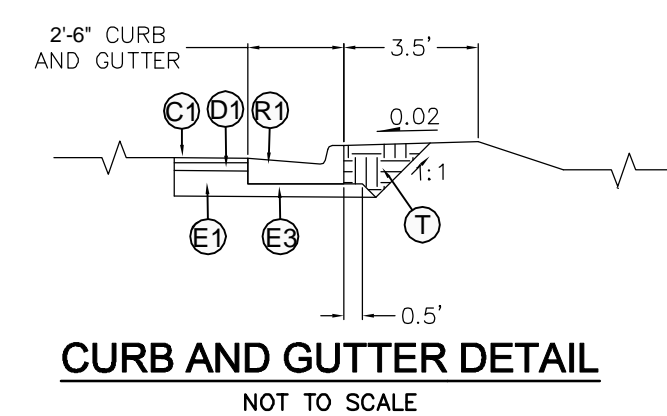
PAVEMENT SCHEDULE *

(R1)	2'-6" CONCRETE CURB AND GUTTER
(R2)	6" X 18" VERTICAL CURB
(R3)	1'-6" CONCRETE CURB AND GUTTER (MOUNTABLE)
(R4)	2'-0" VALLEY GUTTER
(R6)	5" MONOLITHIC CONCRETE ISLAND (DOWELED AND KEYED-IN)
(S)	4" CONCRETE SIDEWALK
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(V)	MILL AND REPLACE WITH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.

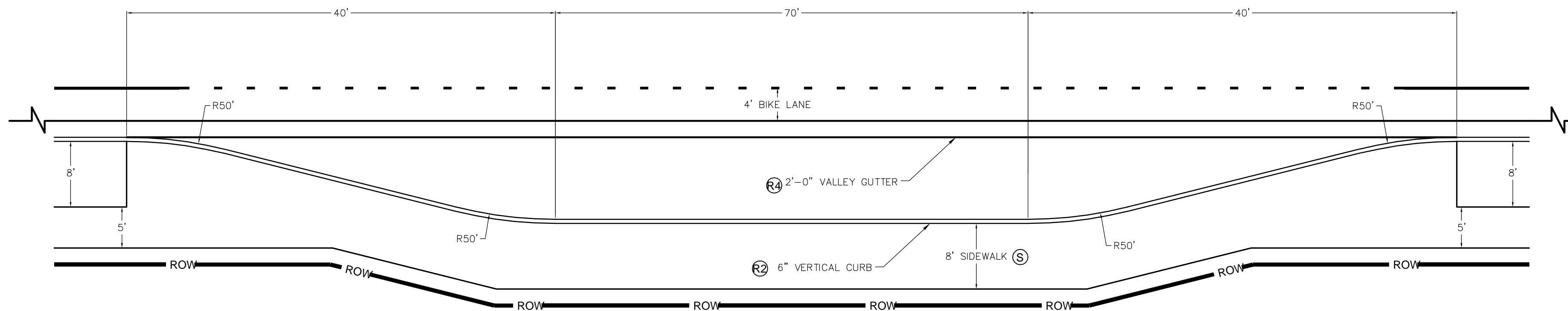
*PAVEMENT DESIGN NOT APPROVED BY NCDOT



CURB RETURN DETAIL
NOT TO SCALE



CURB AND GUTTER DETAIL
NOT TO SCALE



ARTICULATED BUS TURN-OUT DETAIL

SCALE: 1" = 10'

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NO.	DATE	REVISIONS



TOWN OF CHAPEL HILL
405 MLK JR. BLVD.
CHAPEL HILL, NC 27514

PROJECT:
EPHESUS CHURCH ROAD
FORDHAM BOULEVARD
FUNCTIONAL ROADWAY PLANS

TITLE:
DETAIL SHEET

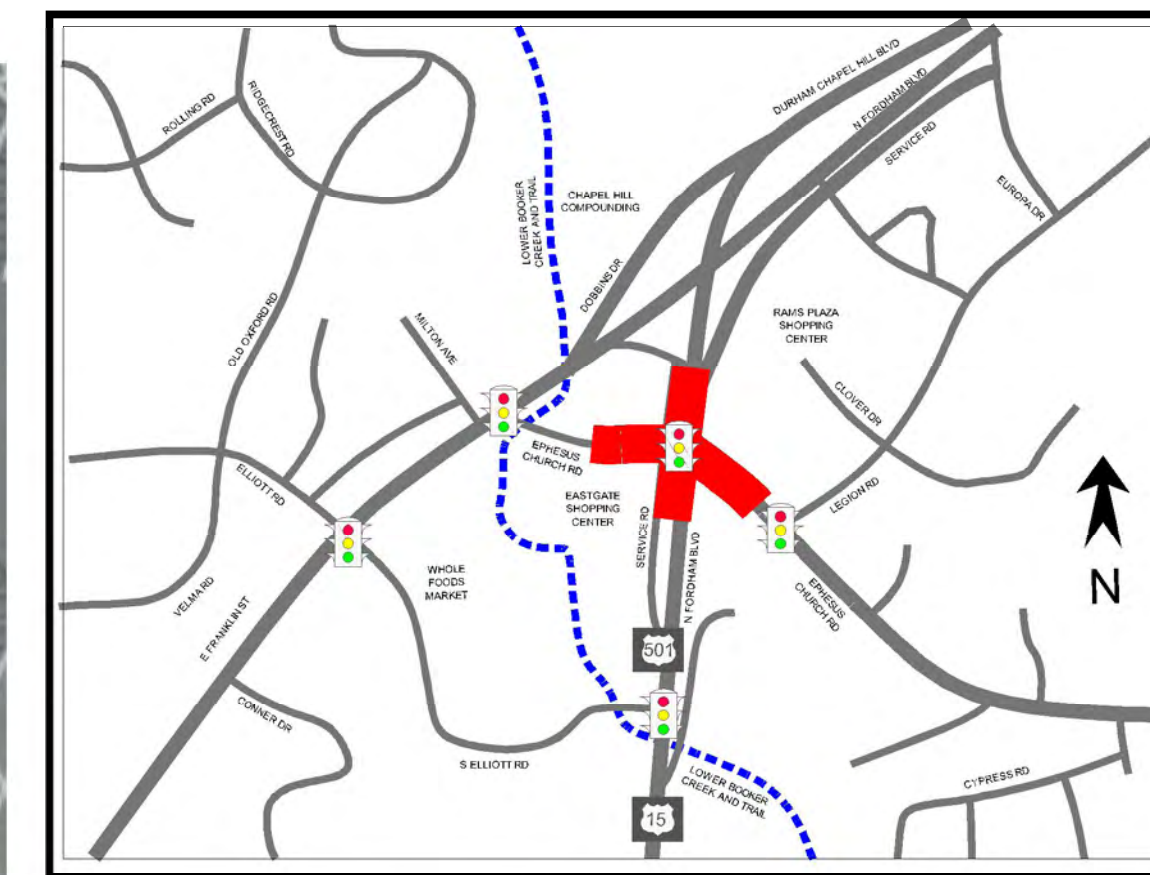
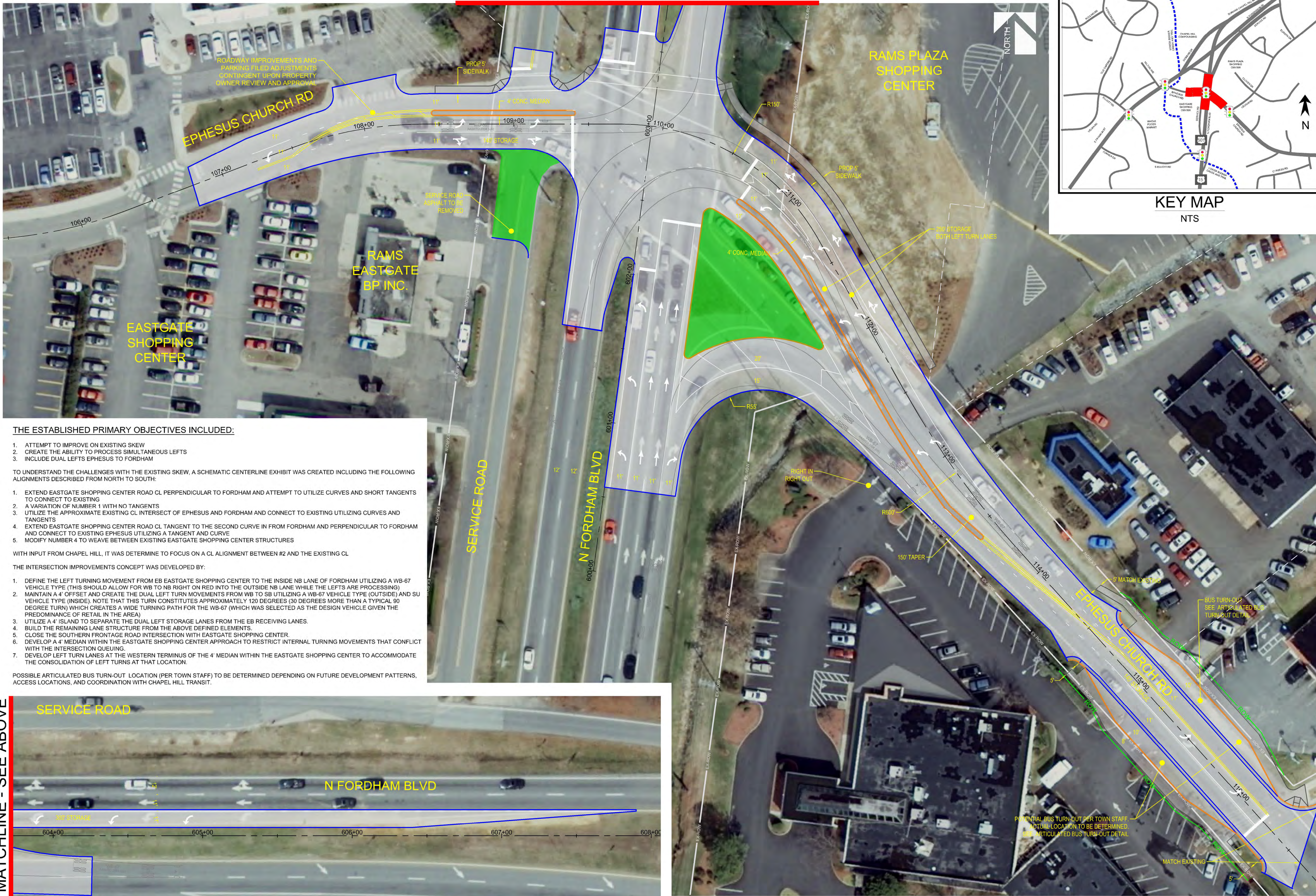
DESIGNED BY: LL
DRAWN BY: LL
CHECKED BY: AM/RH
DATE: 10+05-2012
PROJECT#: 018617000

1C



Know what's below.
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MATCHLINE - SEE BELOW



KEY MAP
NTS

THE ESTABLISHED PRIMARY OBJECTIVES INCLUDED:

1. ATTEMPT TO IMPROVE ON EXISTING SKEW
2. CREATE THE ABILITY TO PROCESS SIMULTANEOUS LEFTS
3. INCLUDE DUAL LEFTS EPHEBUS TO FORDHAM

TO UNDERSTAND THE CHALLENGES WITH THE EXISTING SKEW, A SCHEMATIC CENTERLINE EXHIBIT WAS CREATED INCLUDING THE FOLLOWING ALIGNMENTS DESCRIBED FROM NORTH TO SOUTH:

1. EXTEND EASTGATE SHOPPING CENTER ROAD CL PERPENDICULAR TO FORDHAM AND ATTEMPT TO UTILIZE CURVES AND SHORT TANGENTS TO CONNECT TO EXISTING
2. A VARIATION OF NUMBER 1 WITH NO TANGENTS
3. UTILIZE THE APPROXIMATE EXISTING CL INTERSECT OF EPHEBUS AND FORDHAM AND CONNECT TO EXISTING UTILIZING CURVES AND TANGENTS
4. EXTEND EASTGATE SHOPPING CENTER ROAD CL TANGENT TO THE SECOND CURVE IN FROM FORDHAM AND PERPENDICULAR TO FORDHAM AND CONNECT TO EXISTING EPHEBUS UTILIZING A TANGENT AND CURVE
5. MODIFY NUMBER 4 TO WEAVE BETWEEN EXISTING EASTGATE SHOPPING CENTER STRUCTURES

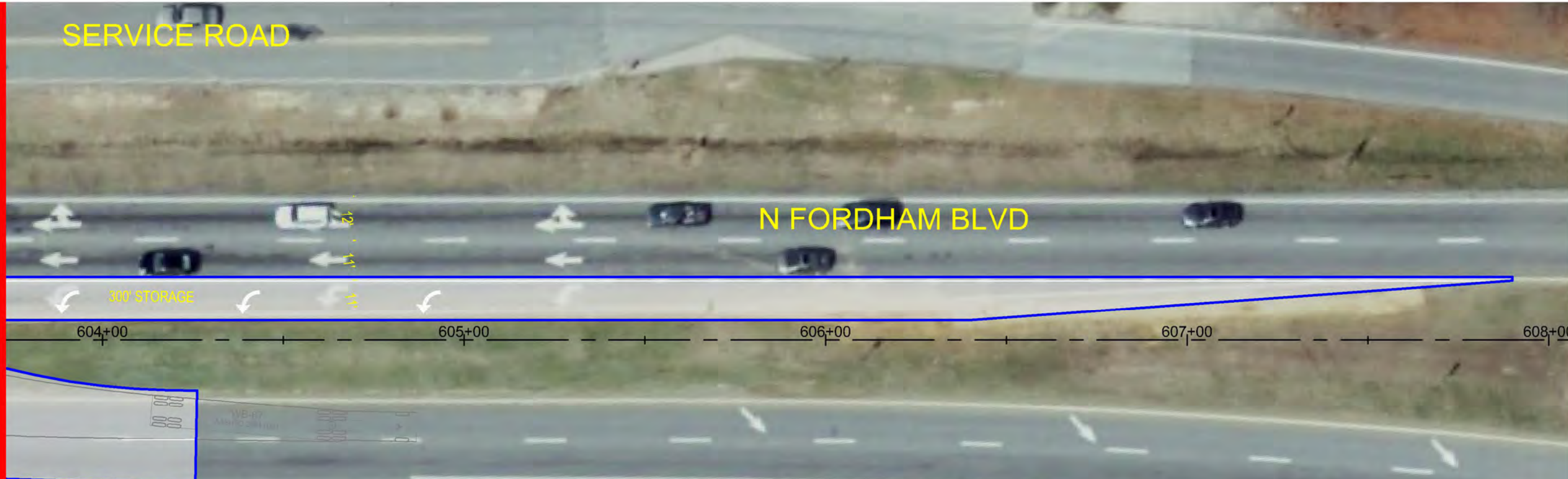
WITH INPUT FROM CHAPEL HILL, IT WAS DETERMINE TO FOCUS ON A CL ALIGNMENT BETWEEN #2 AND THE EXISTING CL

THE INTERSECTION IMPROVEMENTS CONCEPT WAS DEVELOPED BY:

1. DEFINE THE LEFT TURNING MOVEMENT FROM EB EASTGATE SHOPPING CENTER TO THE INSIDE NB LANE OF FORDHAM UTILIZING A WB-67 VEHICLE TYPE (THIS SHOULD ALLOW FOR WB TO NB RIGHT ON RED INTO THE OUTSIDE NB LANE WHILE THE LEFTS ARE PROCESSING)
2. MAINTAIN A 4' OFFSET AND CREATE THE DUAL LEFT TURN MOVEMENTS FROM WB TO SB UTILIZING A WB-67 VEHICLE TYPE (OUTSIDE) AND SU VEHICLE TYPE (INSIDE). NOTE THAT THIS TURN CONSTITUTES APPROXIMATELY 120 DEGREES (30 DEGREES MORE THAN A TYPICAL 90 DEGREE TURN) WHICH CREATES A WIDE TURNING PATH FOR THE WB-67 (WHICH WAS SELECTED AS THE DESIGN VEHICLE GIVEN THE PREDOMINANCE OF RETAIL IN THE AREA)
3. UTILIZE A 4' ISLAND TO SEPARATE THE DUAL LEFT STORAGE LANES FROM THE EB RECEIVING LANES.
4. BUILD THE REMAINING LANE STRUCTURE FROM THE ABOVE DEFINED ELEMENTS.
5. CLOSE THE SOUTHERN FRONTAGE ROAD INTERSECTION WITH EASTGATE SHOPPING CENTER.
6. DEVELOP A 4' MEDIAN WITHIN THE EASTGATE SHOPPING CENTER APPROACH TO RESTRICT INTERNAL TURNING MOVEMENTS THAT CONFLICT WITH THE INTERSECTION QUEUING.
7. DEVELOP LEFT TURN LANES AT THE WESTERN TERMINUS OF THE 4' MEDIAN WITHIN THE EASTGATE SHOPPING CENTER TO ACCOMMODATE THE CONSOLIDATION OF LEFT TURNS AT THAT LOCATION.

POSSIBLE ARTICULATED BUS TURN-OUT LOCATION (PER TOWN STAFF) TO BE DETERMINED DEPENDING ON FUTURE DEVELOPMENT PATTERNS, ACCESS LOCATIONS, AND COORDINATION WITH CHAPEL HILL TRANSIT.

MATCHLINE - SEE ABOVE



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CONSTRUCTION**

NO.	DATE	REVISIONS



TOWN OF CHAPEL HILL
405 MLK JR. BLVD.
CHAPEL HILL, NC 27514

CLIENT:

PROJECT:
**EPHEBUS CHURCH ROAD
AND
FORDHAM BOULEVARD
FUNCTIONAL ROADWAY PLANS**

TITLE:
**CONCEPTUAL LAYOUT
OF
FORDHAM BLVD AND
EPHEBUS CHURCH ROAD**

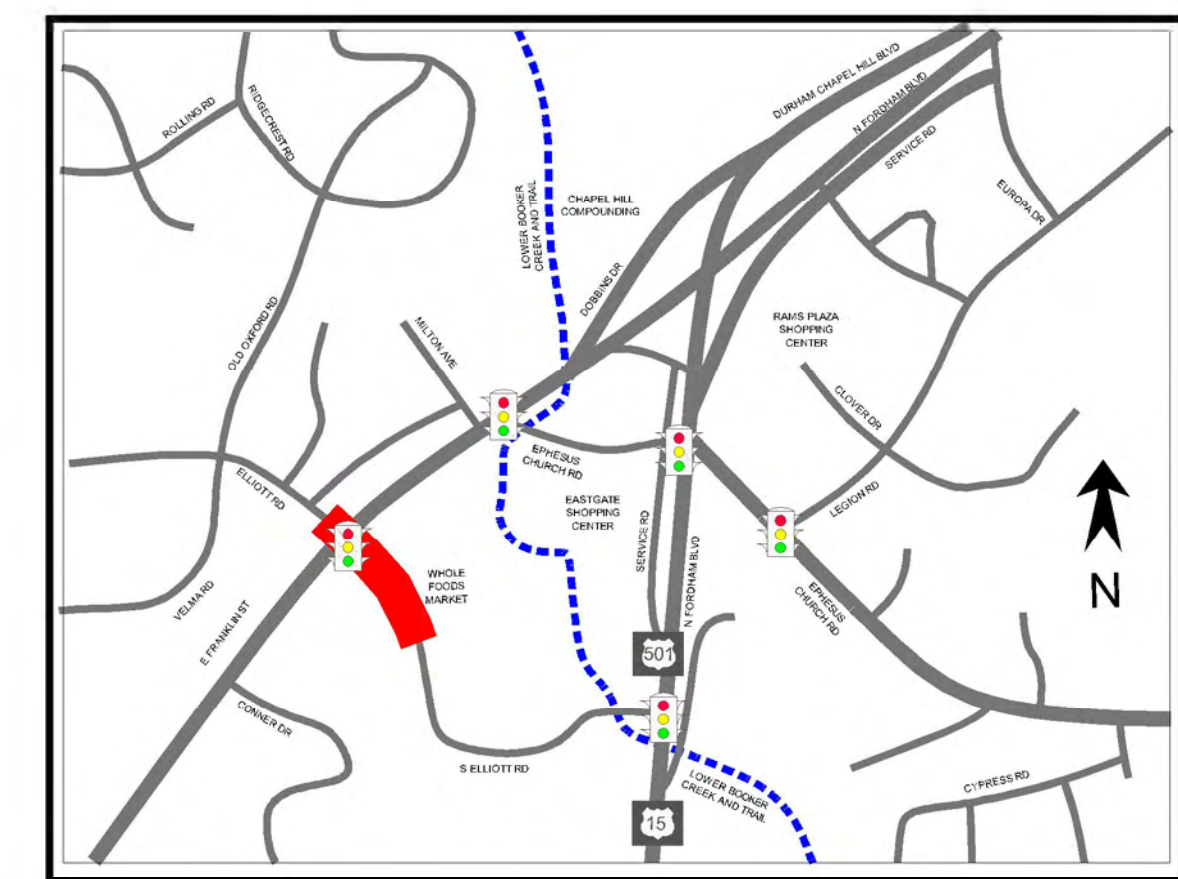
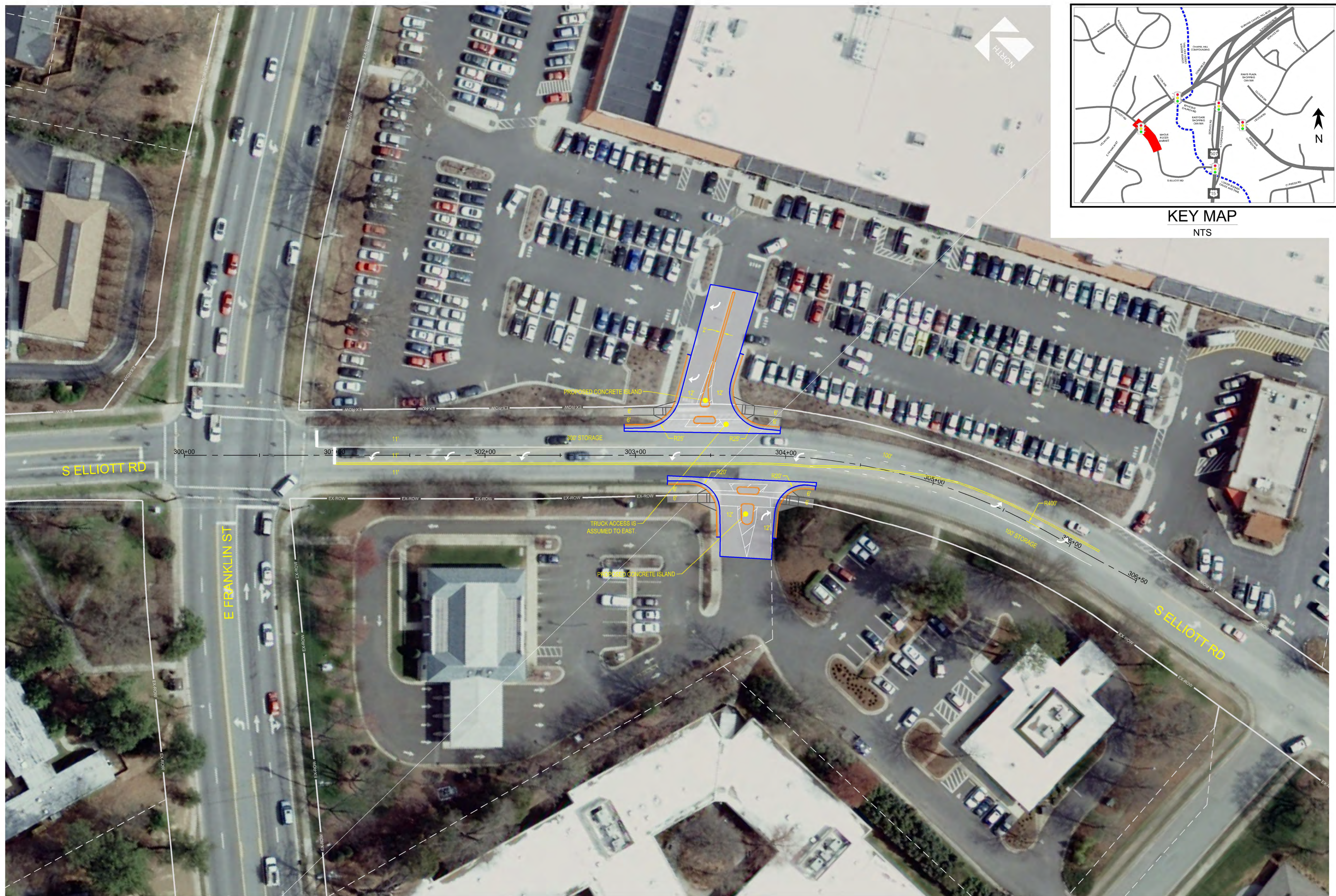
DESIGNED BY: LL
DRAWN BY: LL
CHECKED BY: AM/RH
DATE: 10+05-2012
PROJECT#: 018617000

2A

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October 05, 2012 - 1:18pm, Bx: lori.n.lewis

Drawing name: K:\CHL_TPTO\18606000_Ephesus_Fordham_SAPI\04_CADD\ROADWAY\02_PLANS\606000-RD06-PLAN.dwg 2B O at 05:2012 1:19pm by: lori.n.lewis



KEY MAP
NTS



**Kimley-Horn
and Associates, Inc**
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 SUITE 400
 CHARLOTTE, NORTH CAROLINA 28203
 PHONE: (704) 333-5131
 FAX: (704) 333-0845
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CONSTRUCTION**

NO.	DATE	REVISIONS



TOWN OF CHAPEL HILL
 405 MLK JR. BLVD.
 CHAPEL HILL, NC 27514

CLIENT:

PROJECT:
**EPHESUS CHURCH ROAD
 FORDHAM BOULEVARD
 FUNCTIONAL ROADWAY PLANS**

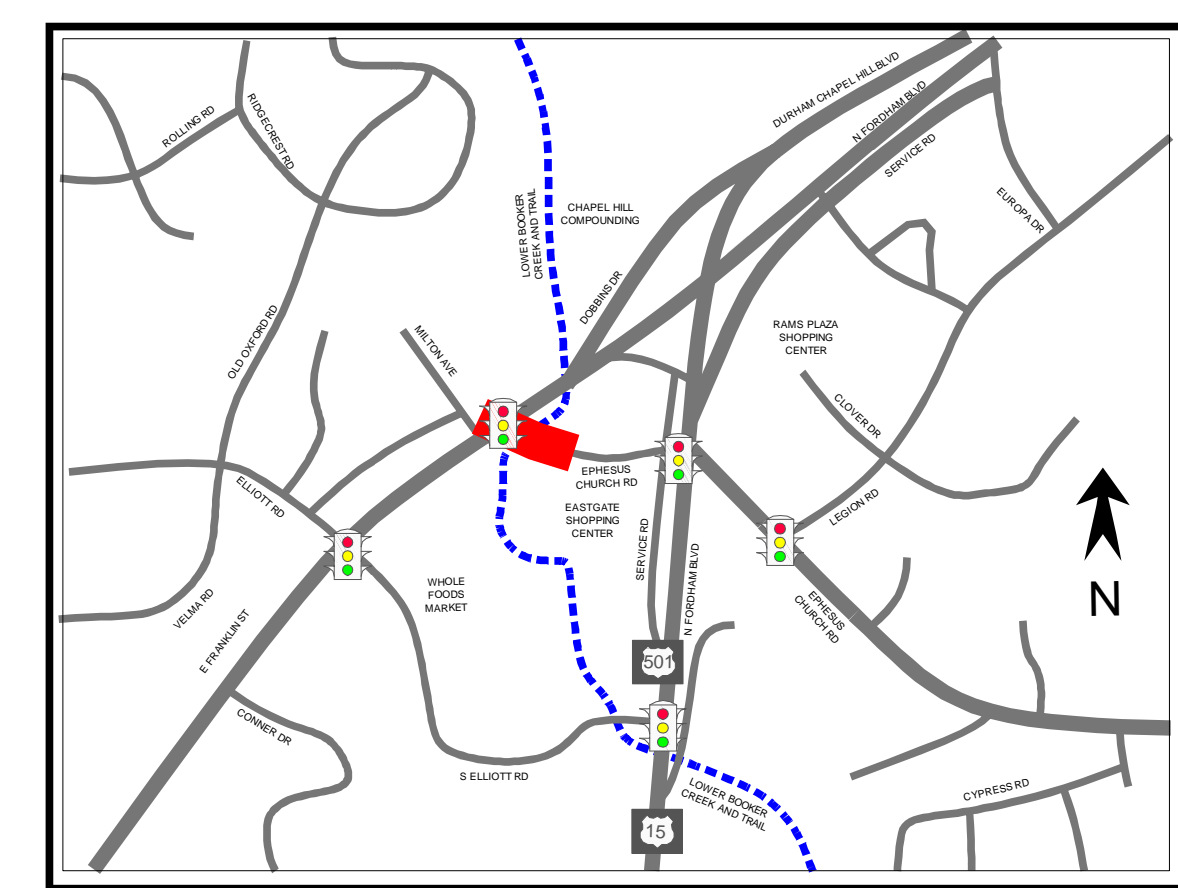
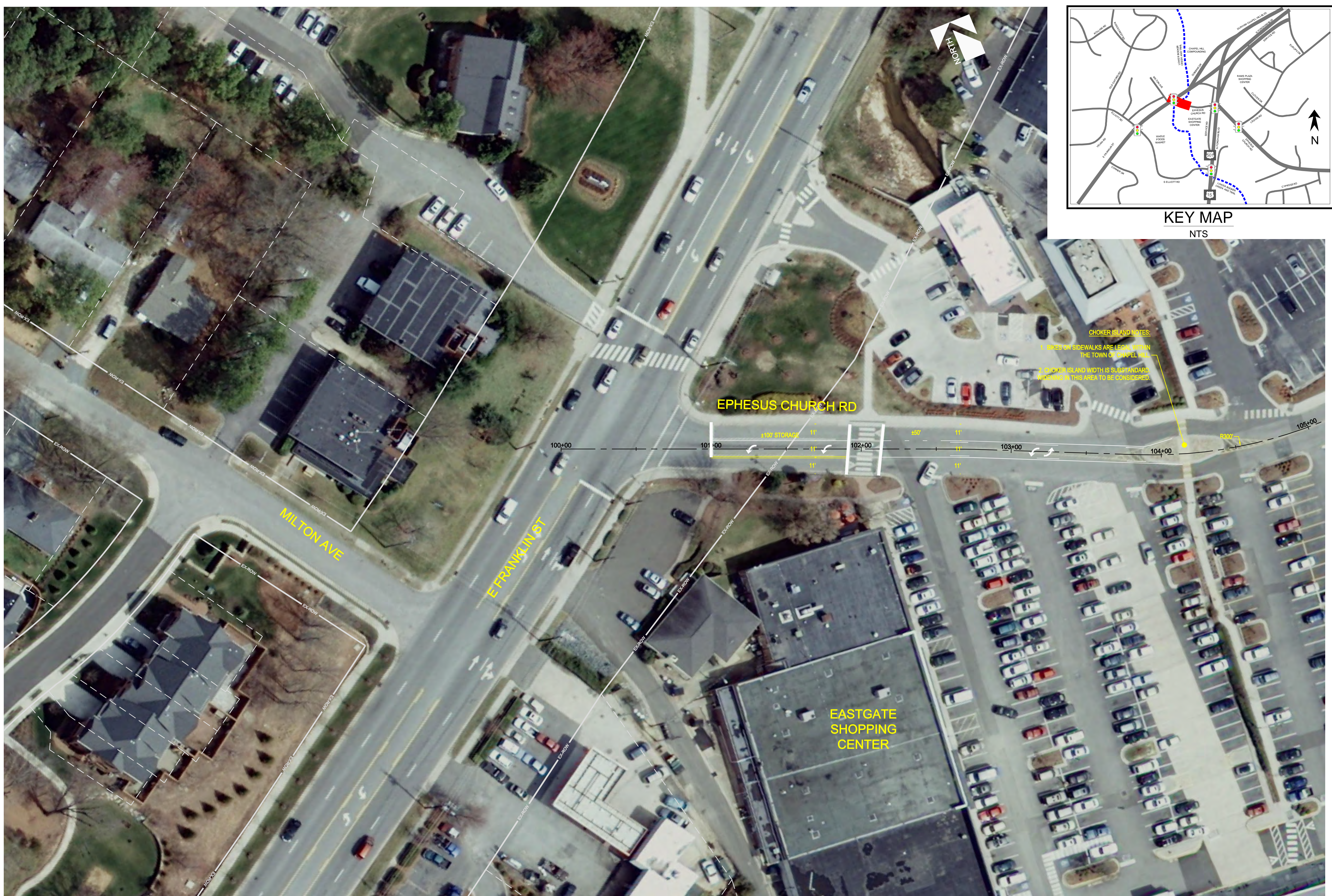
TITLE:
**CONCEPTUAL LAYOUT
 FRANKLIN ST AND ELLIOTT
 ROAD**

DESIGNED BY: LL
 DRAWN BY: LL
 CHECKED BY: AM/RH
 DATE: 10+05-2012
 PROJECT#: 018617000

2B

October 05, 2012 - 1:17pm By: lorn.lewis

Drawing name: K:\CHL\TPTO\18606000_Ephesus_Fordham_SAP\04_CADD\ROADWAY\02_PLANS\18606000-RD06-PLAN.dwg _2C Oct 05, 2012 1:17pm by: lorn.lewis



CHOKER ISLAND NOTES:
 1. BIKES ON SIDEWALKS ARE LEGAL WITHIN THE TOWN OF CHAPEL HILL.
 2. CHOKER ISLAND WIDTH IS SUBSTANDARD. MUDGING IN THIS AREA TO BE CONSIDERED.

Kimley-Horn and Associates, Inc
 NC LICENSE #01102
 200 SOUTH BOULEVARD
 SUITE 400
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 PHONE: (704) 333-5131
 FAX: (704) 333-0845
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 NOT FOR
 CONSTRUCTION**

NO.	DATE	REVISIONS



TOWN OF CHAPEL HILL
 405 MLK JR. BLVD.
 CHAPEL HILL, NC 27514

CLIENT:

PROJECT:
**EPHESUS CHURCH ROAD
 FORDHAM BOULEVARD
 FUNCTIONAL ROADWAY PLANS**

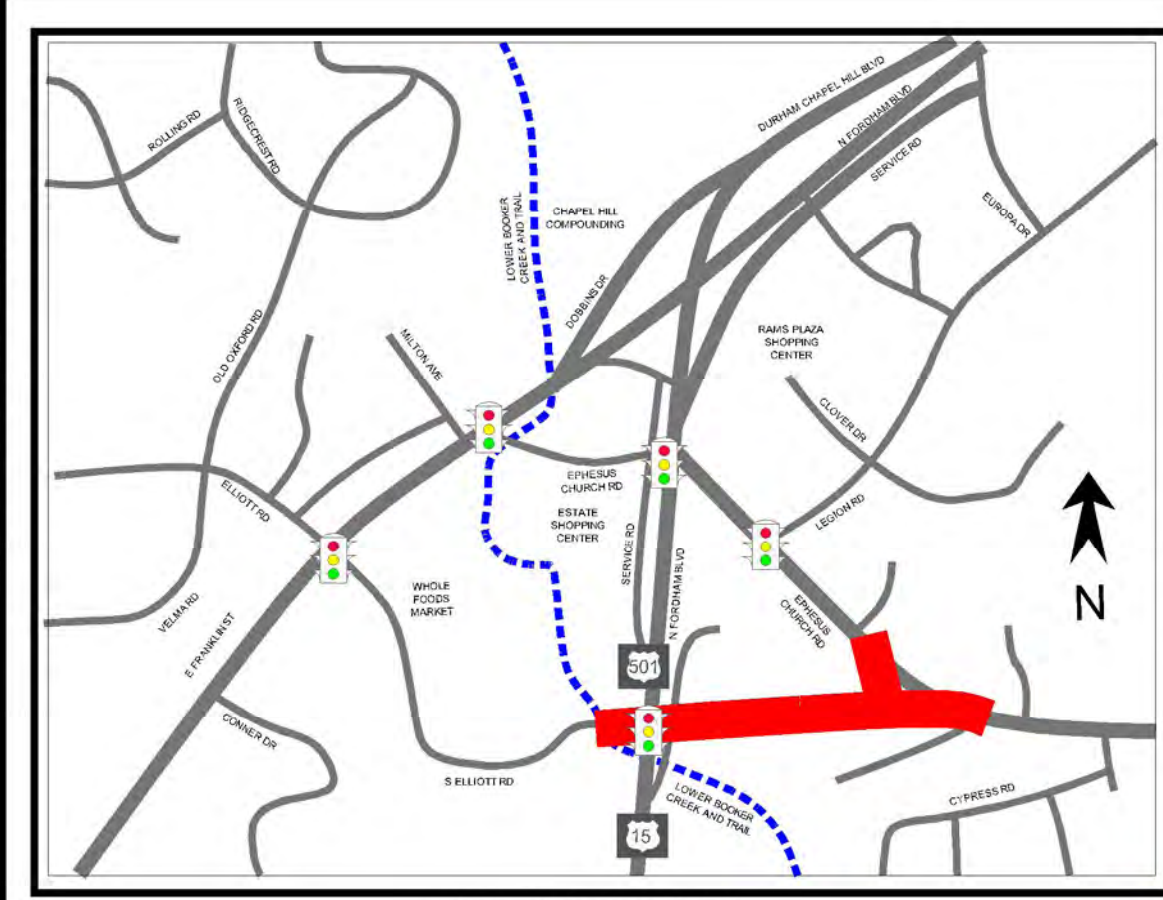
TITLE:
**CONCEPTUAL LAYOUT
 FRANKLIN ST AND EPHESUS
 CHURCH RD**

DESIGNED BY: LL
 DRAWN BY: LL
 CHECKED BY: AM/RH
 DATE: 10+05-2012
 PROJECT#: 018617000



2C

October 05, 2012 - 1:15pm Bx: lorn.lewis



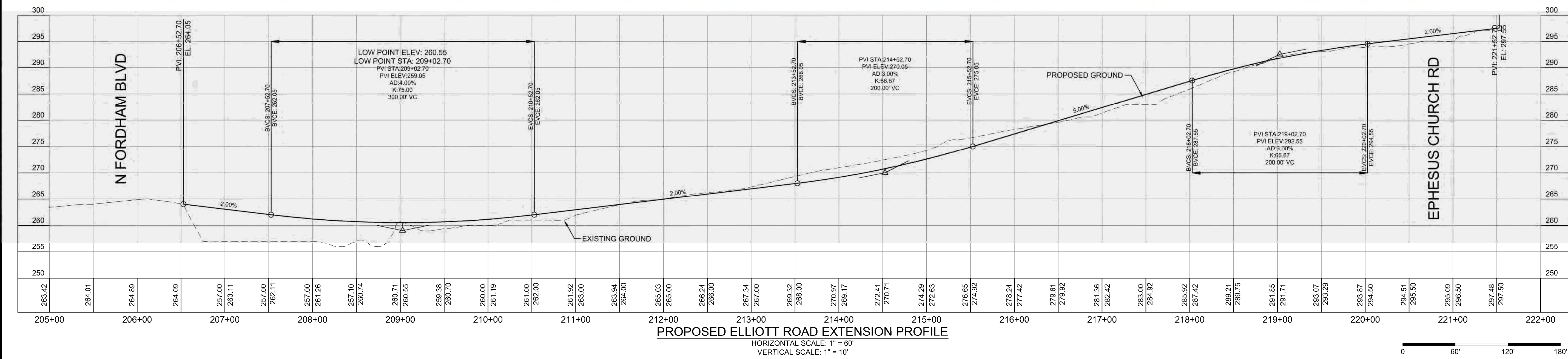
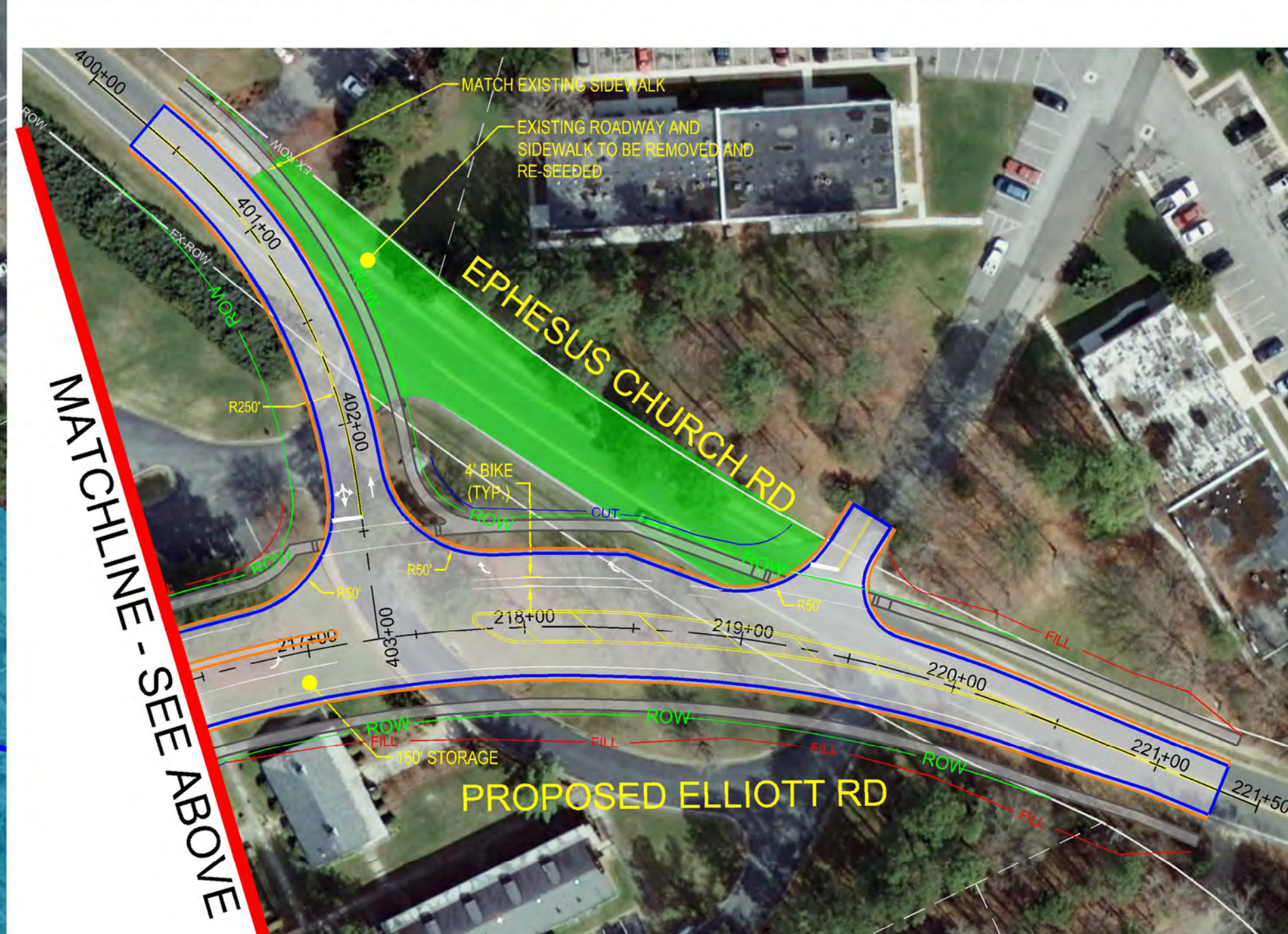
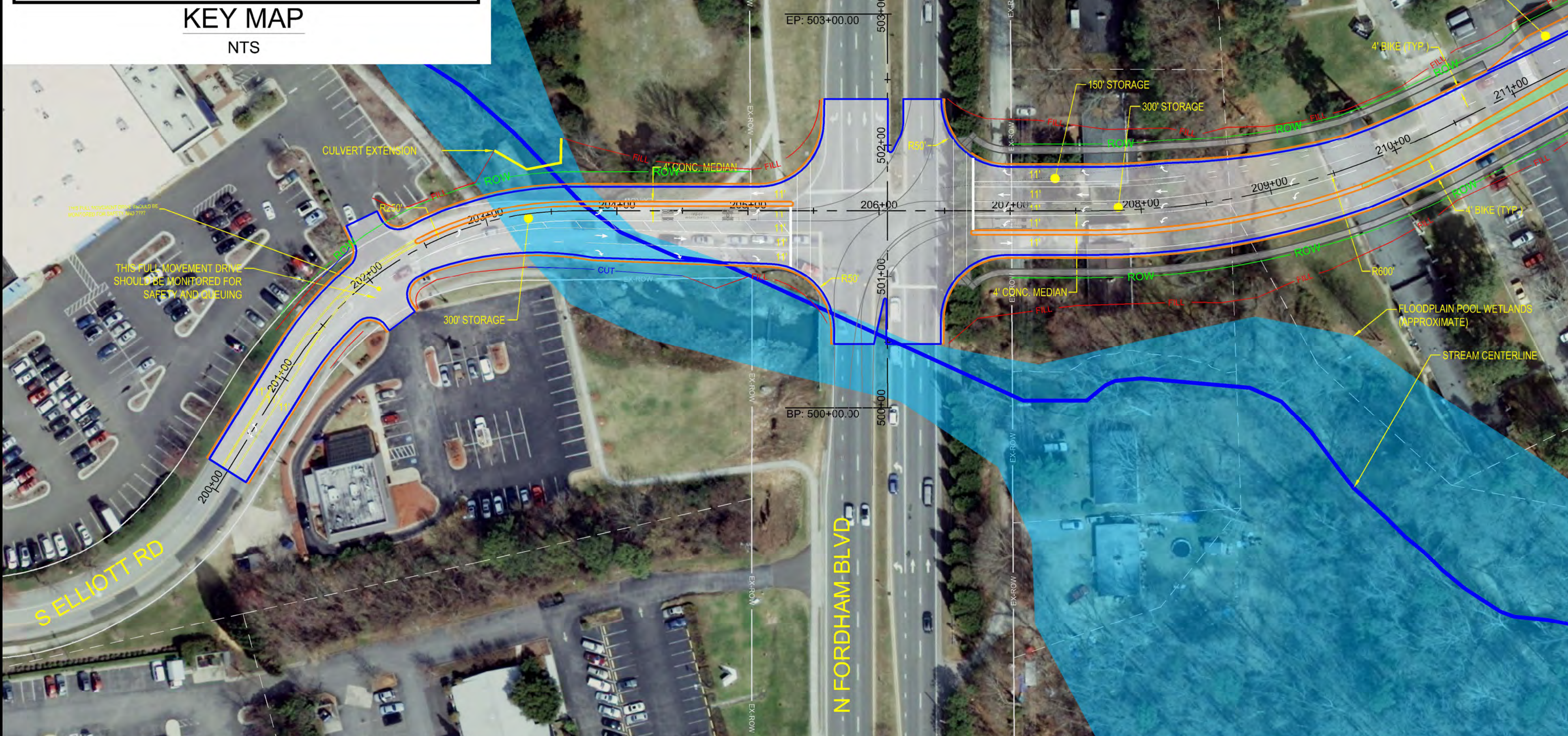
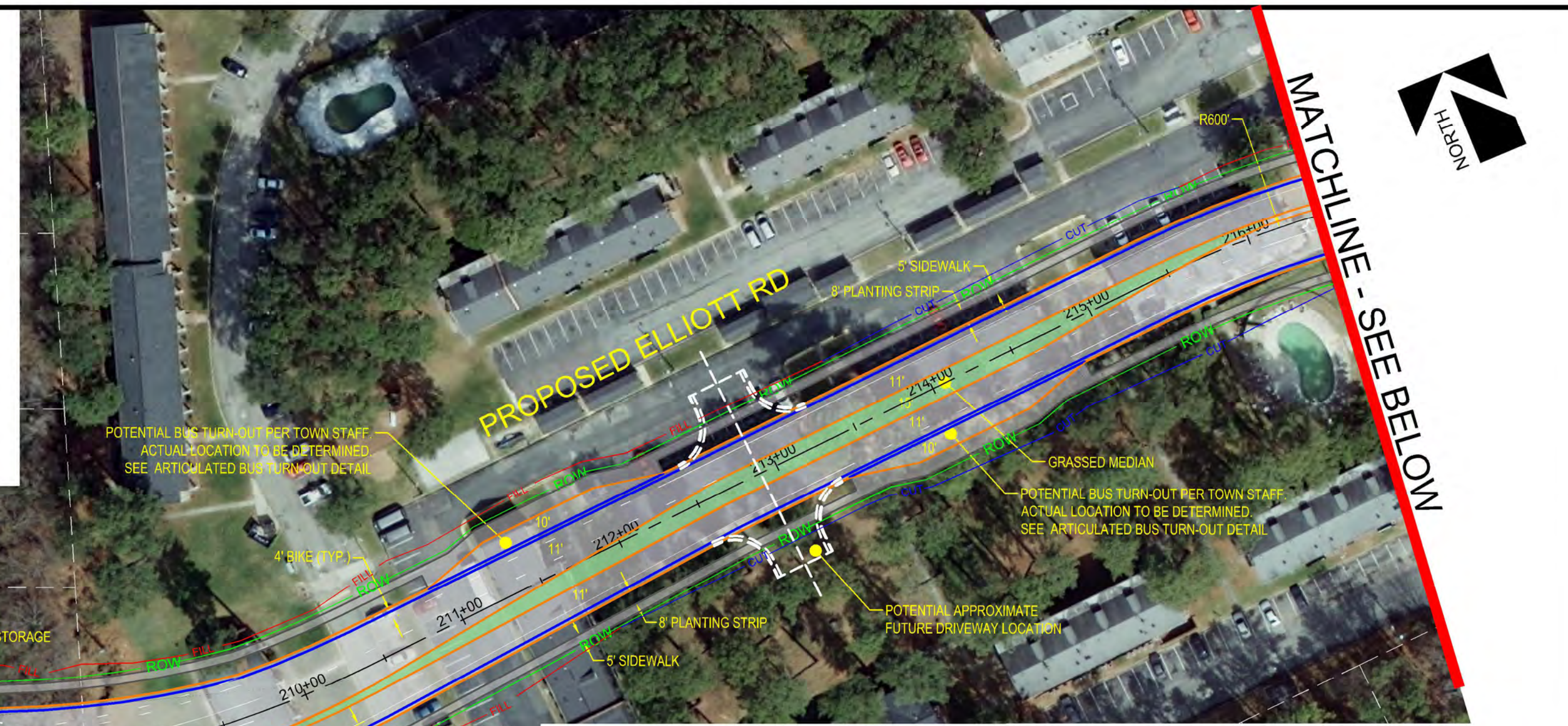
THE ESTABLISHED PRIMARY OBJECTIVES INCLUDED:

1. EXTEND ELLIOTT ROAD FROM FORDHAM BOULEVARD TO A ALIGN WITH EPHEBUS CHURCH ROAD TO THE SOUTH
2. EPHEBUS CHURCH ROAD NORTH OF THE REALIGNED ROADWAY WILL REALIGN TO A TEE INTERSECTION
3. THE DEVELOPED ROADWAY ALIGNMENT SHOULD GENERALLY MATCH THE PROPOSED FRAMEWORK PLAN

THE CONCEPT ROADWAY DESIGN WAS DEVELOPED BY:

1. MAINTAIN THE EXISTING SOUTHERN EDGE OF PAVEMENT OF ELLIOTT ROAD AT ITS INTERSECTION WITH FORDHAM BOULEVARD (TO AVOID IMPACTS TO THE ADJACENT CREEK AND EXISTING CULVERT)
2. LAYOUT THE PLANNED INTERSECTION LANEAGE TO ACCOMMODATE SIMULTANEOUS OPERATION OF THE DUAL LEFT TURN MOVEMENTS FROM WB TO SB (UTILIZING A WB-67 VEHICLE TYPE (OUTSIDE) AND SU VEHICLE TYPE (INSIDE)) AND THE EB TO NB.
3. ESTABLISH THE HORIZONTAL ROADWAY ALIGNMENT TO GENERALLY MATCH THE PROPOSED FRAMEWORK PLAN
4. CONNECT THE MULTI-FAMILY DRIVEWAY TO THE NEW ROADWAY ALIGNMENT
5. LAYOUT THE RIGHT TURN LANE FROM THE NEW ALIGNMENT TO NB EPHEBUS - NOTE THAT THE LIMITED SEPARATION BETWEEN THE MULTI-FAMILY DRIVEWAY AND THE TEE INTERSECTION LIMIT THE DECAL AND STORAGE LENGTH IN THIS CONCEPT.
6. THE 15' WIDE MEDIAN AREA (BEYOND THE LIMITS OF TURN LANE TAPER AND STORAGE) IS PLANNED AS A GRASS OR LANDSCAPE MEDIAN WITH THE INTENT THAT IT COULD BE CONVERTED INTO A MID-BLOCK LEFT TURN LOCATION AT SOME POINT IN THE FUTURE.

POSSIBLE ARTICULATED BUS TURN-OUT LOCATION (PER TOWN STAFF) TO BE DETERMINED DEPENDING ON FUTURE DEVELOPMENT PATTERNS, ACCESS LOCATIONS, AND COORDINATION WITH CHAPEL HILL TRANSIT



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**EPHEBUS CHURCH ROAD
 FORDHAM BOULEVARD
 FUNCTIONAL ROADWAY PLANS**

**FUNCTIONAL PLAN
 ELLIOTT ROAD EXTENSION**

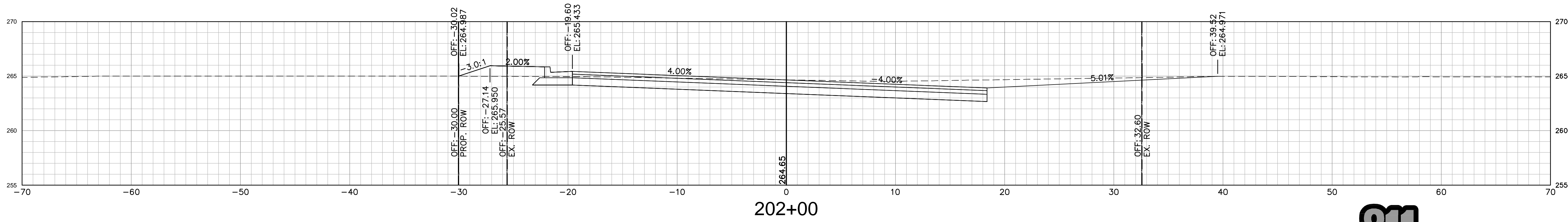
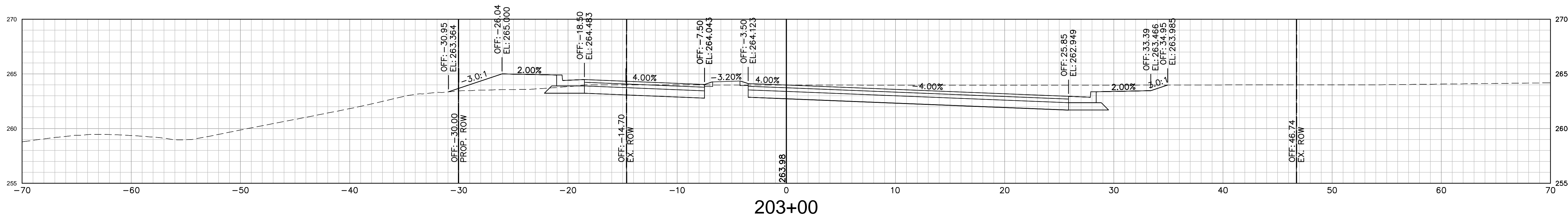
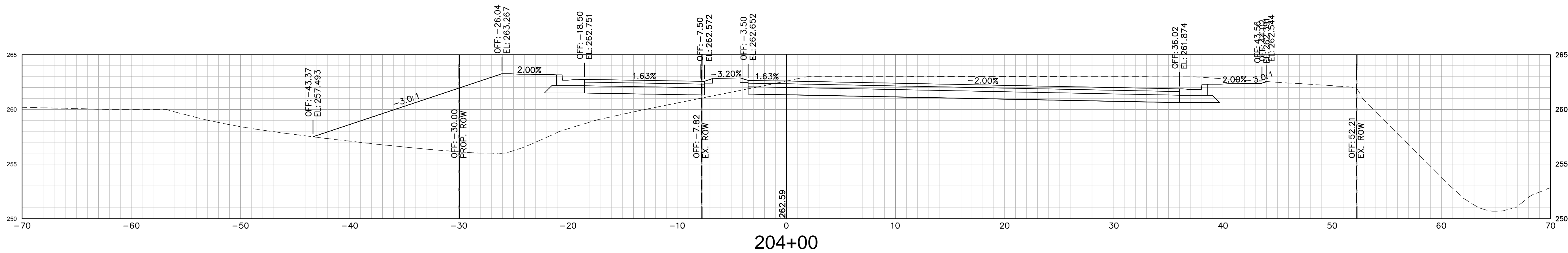
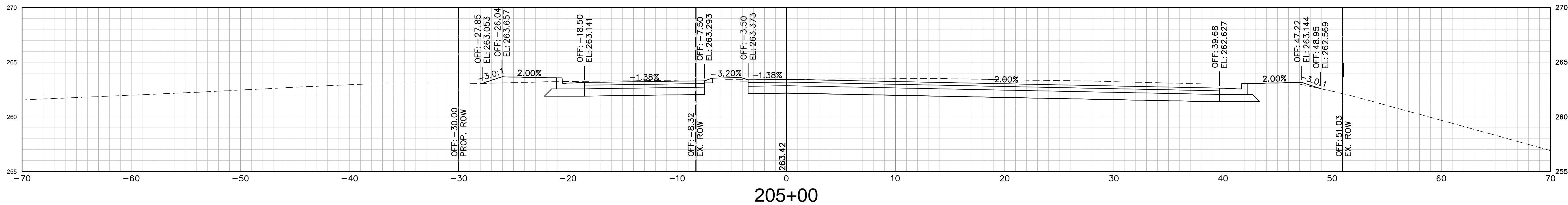
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ELLIOTT ROAD EXTENSION - CROSS SECTIONS



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FORDHAM BOULEVARD
FUNCTIONAL ROADWAY PLANS

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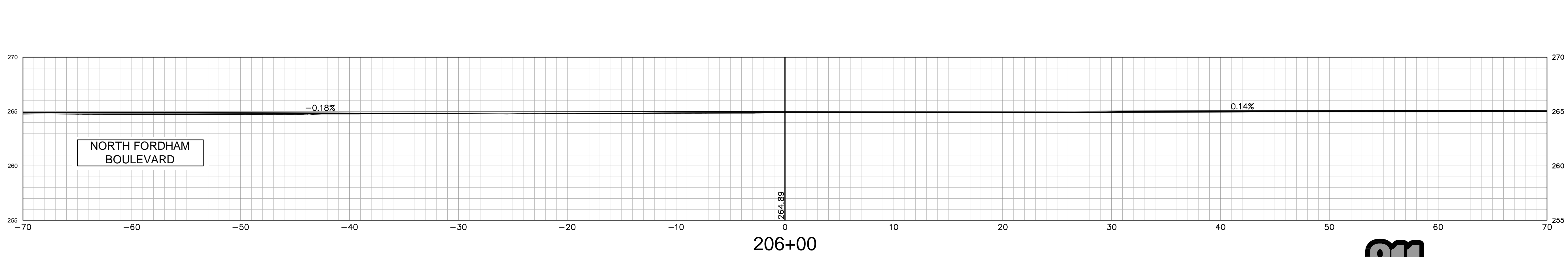
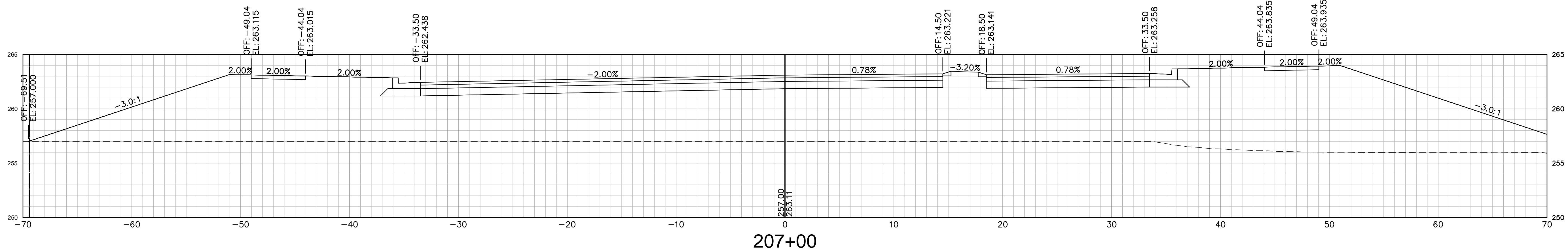
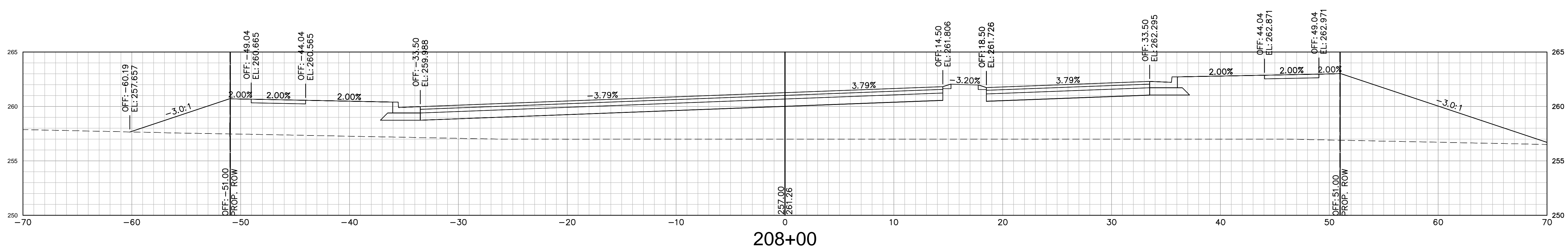
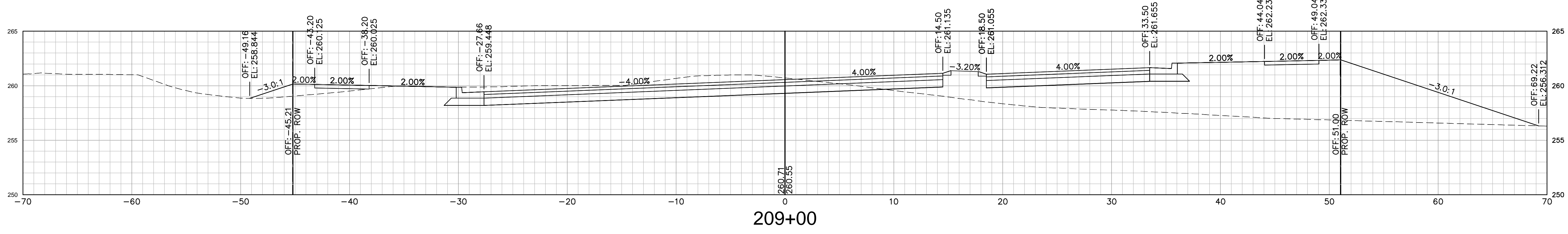
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NORTH FORDHAM BOULEVARD

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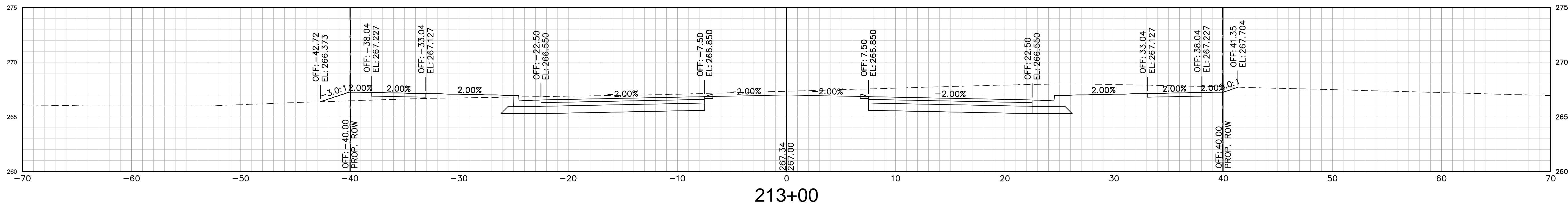
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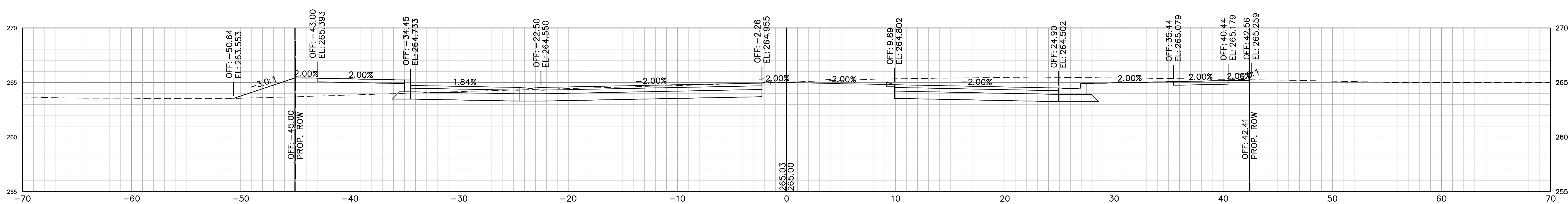
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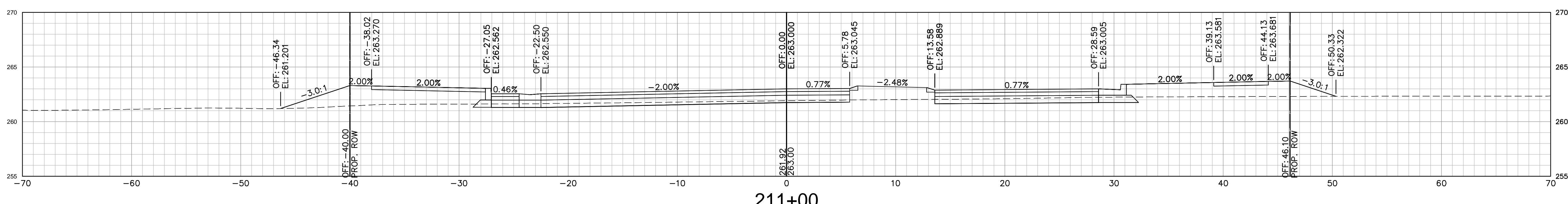
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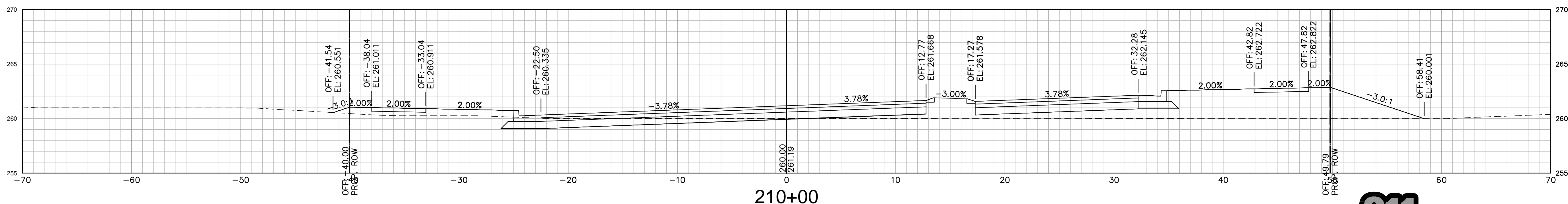
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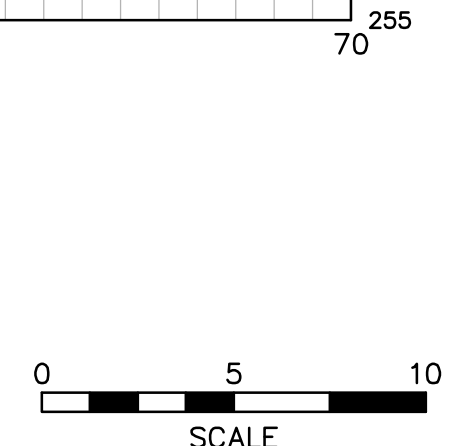


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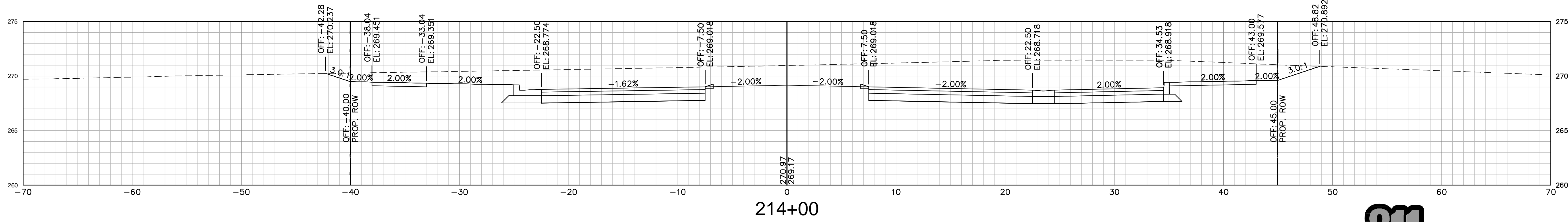
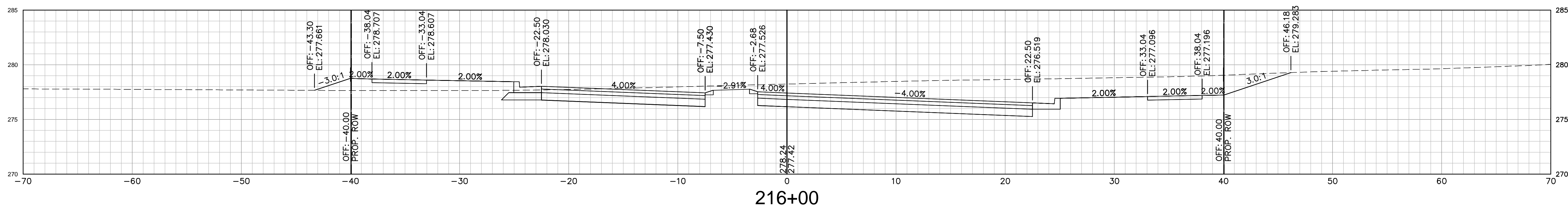
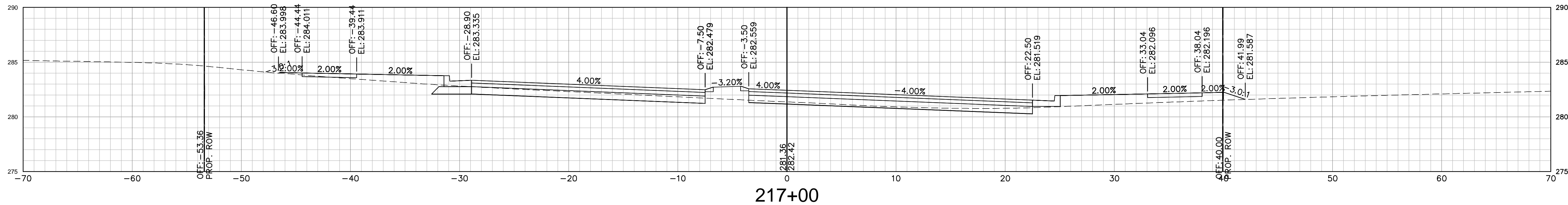
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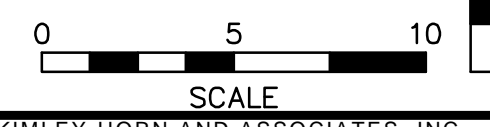
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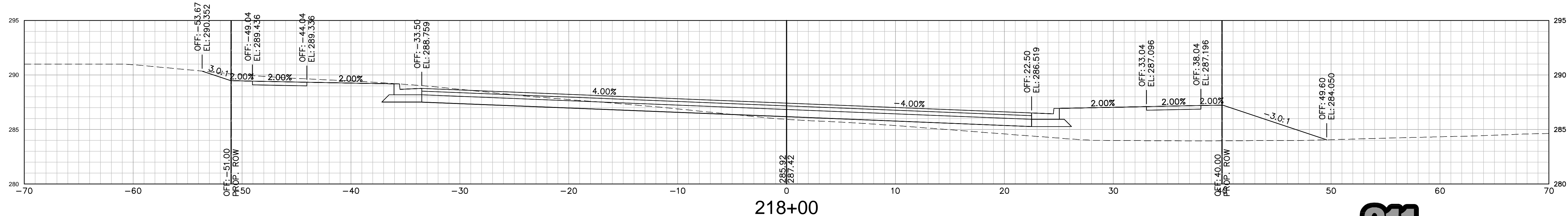
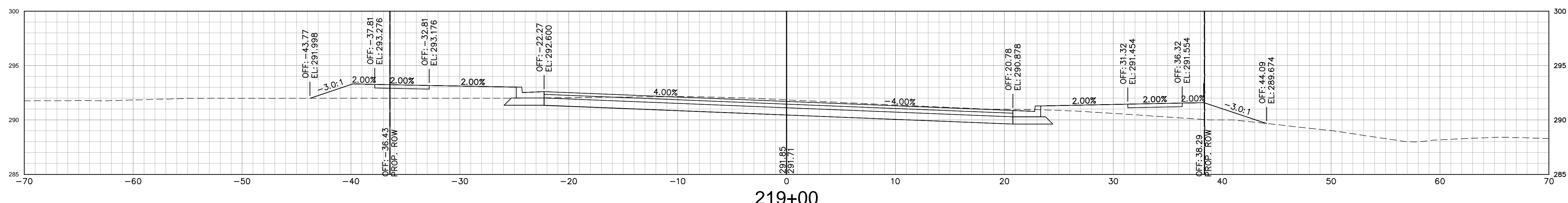
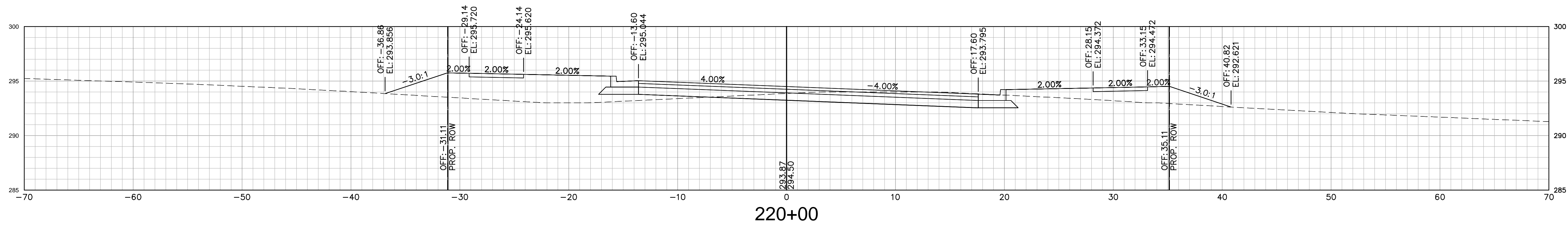
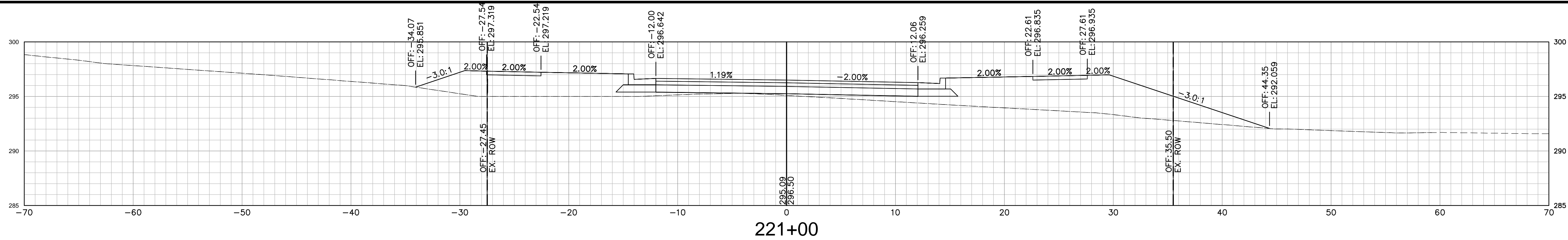
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