

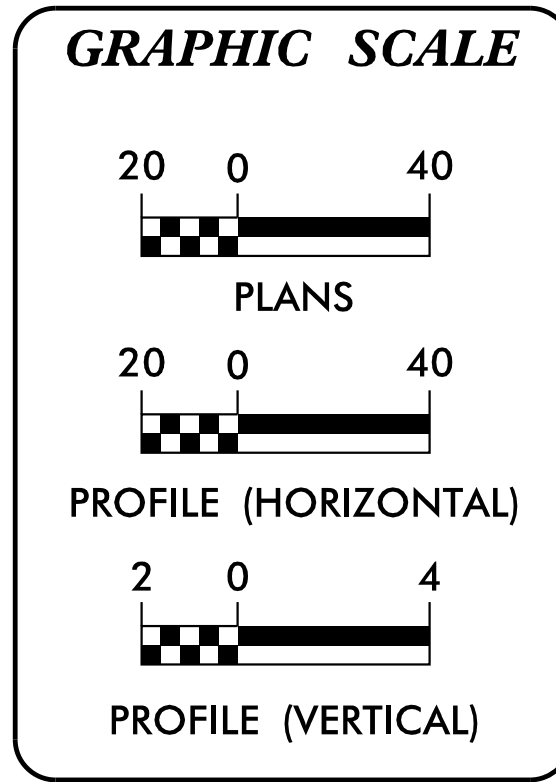
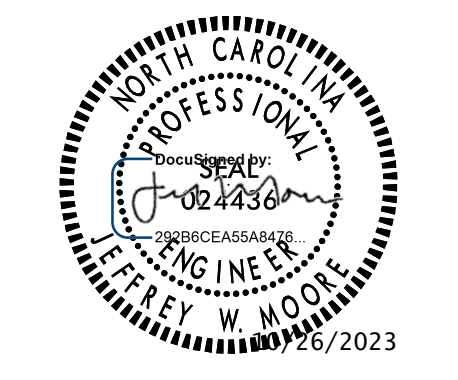
SURVEYS PROVIDED BY:
Wetherill Engineering, Inc.

GEOTECHNICAL INVESTIGATIONS BY:
Falcon Engineering, Inc.

THE CITY OF RALEIGH

ENGINEERING SERVICES DEPARTMENT ROADWAY DESIGN AND CONSTRUCTION

PROJECT REFERENCE NO. 011063094	SHEET NO. 1
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



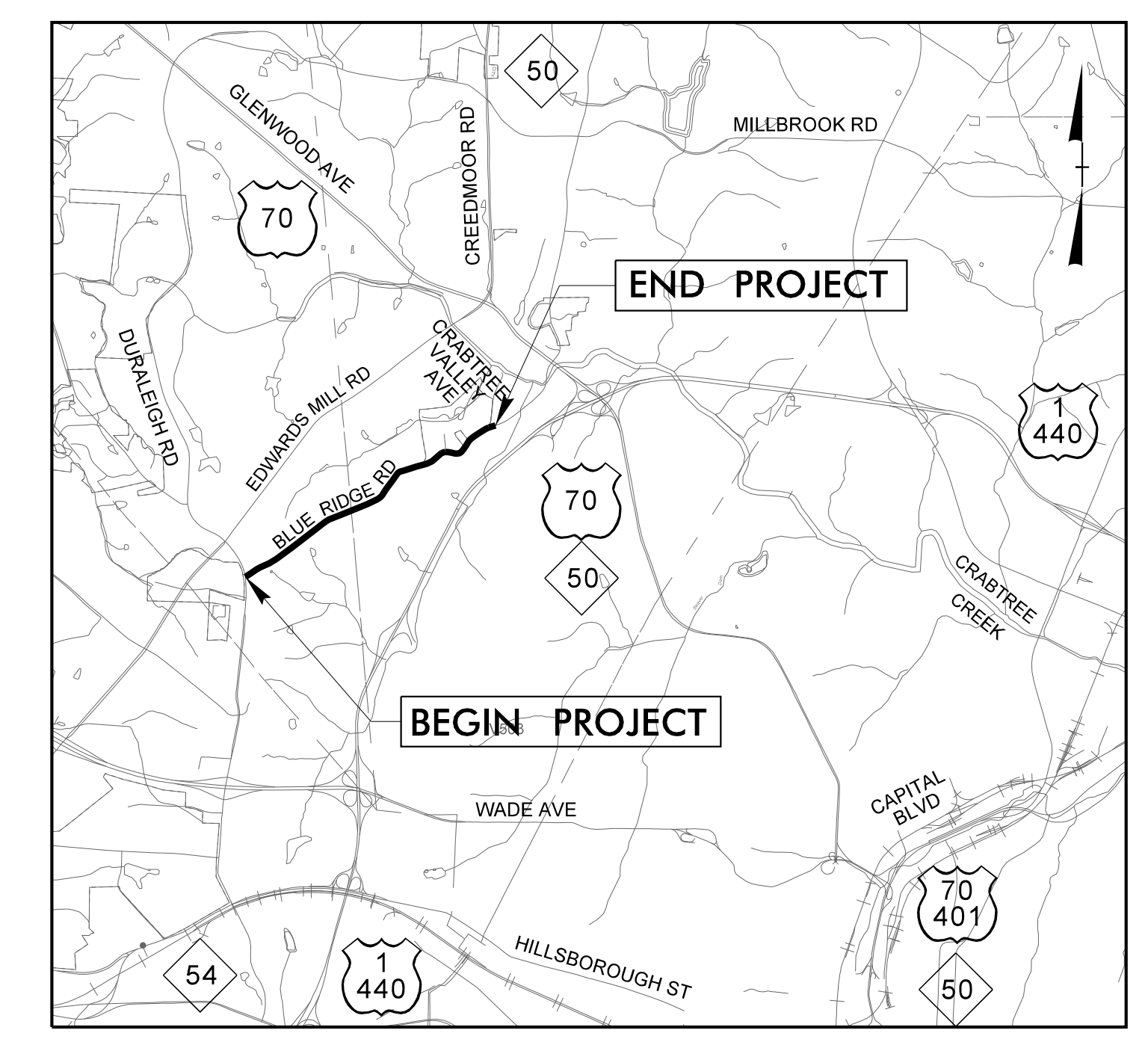
DESIGN DATA

ADT 2020 = 9,300 VPD

ADT 2040 = 12,000 VPD

BLUE RIDGE ROAD WIDENING SOUTH PROJECT

CITY PROJECT NO: ES-2018-04
 SPR CASE NO: SPR-0155-2020
 FROM DURALEIGH ROAD (SR 1664) TO
 NORTH OF HOMEWOOD BANKS DRIVE



PROJECT LOCATION
Raleigh, Wake County, NC

Project Data Sheet

Development Services Customer Service Center | 1 Exchange Plaza, Suite 400 | Raleigh, NC 27601 | 919-996-2491
 Lickford Satellite Office | 8320 - 110 Lickford Road | Raleigh, NC 27601 | 919-996-4260

GENERAL INFORMATION

Development Name: Blue Ridge Road Widening Project
 Proposed Use: Roadway, Sidewalk, & Transit Improvements in Public ROW

Wake County Property Identification Number(s) (PIN) for each parcel to which these guidelines will apply:
 PIN # 02524814, PIN # 02524815, PIN # 02524816, PIN # 02524817

FOR APARTMENTS, CONDOS, AND TOWNHOMES ONLY

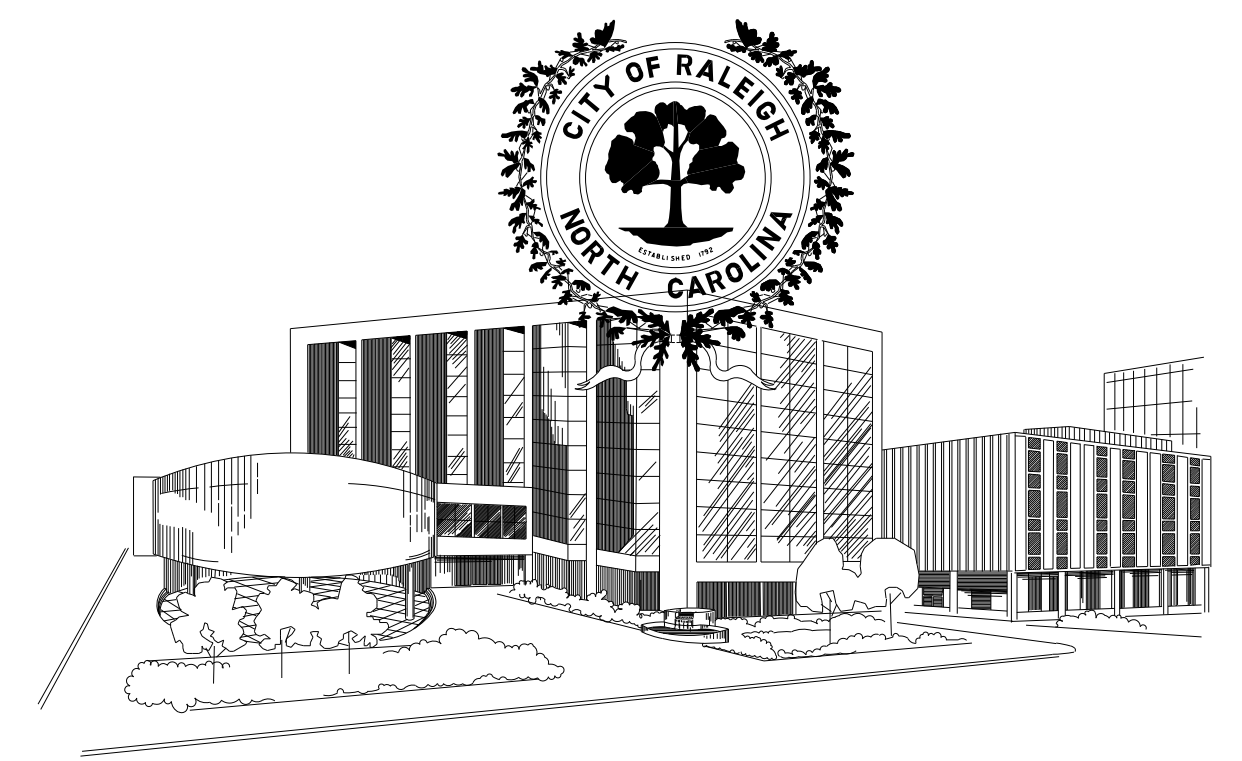
1. Total number of townhouse lots: N/A
 2. Total number of apartment or condominium units: Number attached
 3. Total number of Congregate Care or Life Care Dwelling units:
 4. Overall total number of dwelling units (from 1-3 above):
 5. Number of bedroom units: 1BR, 2BR, 3BR, 4BR or more
 6. Overall units (per acre densities per zoning district):

DEVELOPMENT TYPE AND SITE DATA TABLE (applicable to all developments)

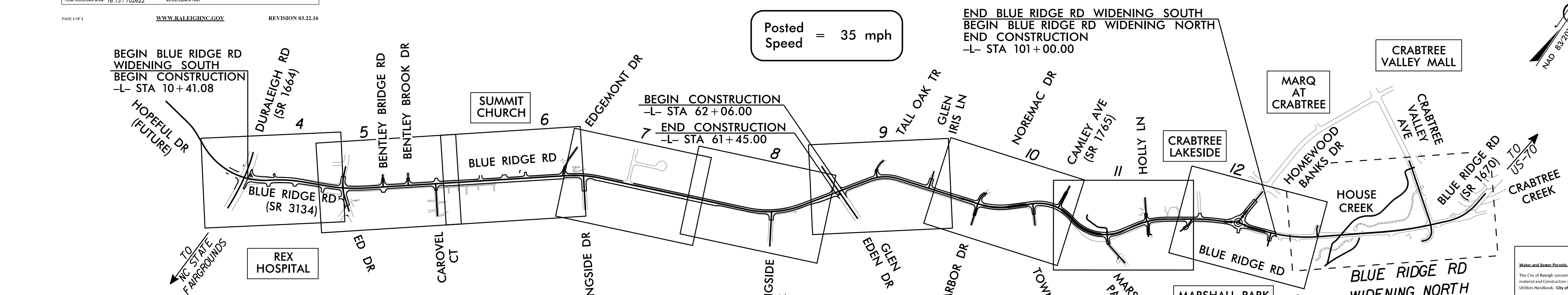
Zoning District: N/A
 Proposed use of building(s): N/A
 Existing % of building(s) gross: N/A
 Total site coverage: N/A
 FAR (floor area ratio) %: N/A
 Building lot coverage %: N/A
 Stormwater Management: N/A

Concurrent Mylar Revision Table

Version (transaction number)	Revised Sheet Number(s)	Approval Date
Original mylar		8/9/2023
Revision 1	3D-2, 3D-4, 3D-6, 4, 5, 6, 9, TMP-5, TMP-15, PMP-2, PMP-3, PMP-4, PMP-7, EC-12, SCM-2, SGN-3, SGN-4, SGN-5, SGN-8, TR-3, UO-2, UO-12, X-2, X-8, XSC-9, X-10	



TYPE OF WORK: WIDENING, GRADING, DRAINAGE, PAVING, SIGNALS, SIDEWALK, AND SIGNING



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CITY OF RALEIGH AND/OR NCDOT STANDARDS AND SPECIFICATIONS

PUBLIC IMPROVEMENT QUANTITIES

PHASE NUMBER(S)	PHASE 1
NUMBER OF LOTS	N/A
LOT NUMBER(S) BY PHASE	N/A
NUMBER OF UNITS	N/A
LIVABLE BUILDINGS	N/A
OPEN SPACE?	N/A
NUMBER OF OPEN SPACE LOTS	N/A
PUBLIC WATER (LF)	2,347 LF
PUBLIC SEWER (LF)	1,718 LF
PUBLIC STREET (LF) - FULL	10,316 LF
PUBLIC STREET (LF) - PARTIAL	N/A
PUBLIC 6" CONCRETE SIDEWALK (LF)	9,135 LF
PUBLIC 10" ASPHALT GREENWAY (LF)	9,990 LF
STREET SIGNS (LF)	10,316 LF
WATER SERVICE STUBS (EA)	32 EA
SEWER SERVICE STUBS (EA)	11 EA

- Traffic Control and Pedestrian Plan (TCPEP) Notes:**
- Prior to any work that impacts the right-of-way, closing or detouring of any street, lane, or sidewalk, the contractor must apply for a permit with Right-of-Way Services. Please direct any questions to rightofwayservices@raleighnc.gov.
 - The street, lane, sidewalk, closure permit is required for any closure on city streets and all NCDOT streets within Raleigh's jurisdiction.
 - A permit request with a TCPEP Plan shall be submitted to Right-of-Way Services through the City of Raleigh Permit and Development Portal.
 - Prior to the start of work, the Client shall schedule a Pre-Construction meeting with the Engineering Inspections Coordinator to review the specific components of the approved plan, and ensure all permits are issued.
 - All TCPEP Plans shall comply with all Local, State, and Federal requirements and standards, including but not limited to:
 - Manual on Uniform Traffic Control (MUTCD);
 - Public Rights-of-Way Accessibility Guidelines (PROWAG);
 - American Disability Act (ADA) requirements;
 - Raleigh Street Design Manual (RSDM).
 - All public sidewalks must be accessible to pedestrians who are visually impaired and/or people with mobility concerns. Existing and alternative pedestrian routes during construction shall be required to be compliant with the Public Rights of Way Accessibility Guidelines (PROWAG), the ADA Standards for Accessible Design and the Manual on Uniform Traffic Control Devices (MUTCD).
 - All permits must be available and visible on site during the operation.

SITE PERMITTING APPROVAL

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization before is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State, and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
 City of Raleigh Review Officer _____

MARCHELL ADAMS-DAVID CITY MANAGER
 MARY ANN BALDWIN MAYOR

PLANS PREPARED FOR
 THE CITY OF RALEIGH BY:
Kimley»Horn
 NC LICENSE #F-0152
 401 FAVETTVILLE STREET, SUITE 600
 RALEIGH, NORTH CAROLINA 27601
 PHONE: (919) 877-2000

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INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
1-A	INDEX OF SHEETS, LIST OF STANDARD DRAWINGS, AND GENERAL NOTES
1-B	CONVENTIONAL PLAN SHEET SYMBOLS
2A-1 THRU 2A-6	TYPICAL SECTIONS, PAVEMENT SCHEDULE AND MISCELLANEOUS DETAILS
2B-1 THRU 2B-6	ROADWAY DETAILS
2C-1 THRU 2C-2	SPECIAL DETAILS
2D-1	DRAINAGE DETAILS
2N	RETAINING WALL ENVELOPE
3B-1	SUMMARY TABLES
3D-1 THRU 3D-6	DRAINAGE SUMMARY SHEETS
4 THRU 23	ROADWAY PLANS AND PROFILES
TMP-1 THRU TMP-25	TRANSPORTATION MANAGEMENT PLANS
SD-1	SPECIAL SIGN DESIGNS
PMP-1 THRU PMP-10	PAVEMENT MARKING PLANS
EC-1A THRU EC-28	EROSION CONTROL PLANS
L-100 THRU L-301	LANDSCAPE PLANS AND DETAILS
SCM-1 THRU SCM-4	STORMWATER CONTROL MEASURE PLANS
SGN-1 THRU SGN-11	SIGNING PLANS
SIG 0.0 THRU SIG 3.11	SIGNAL PLANS
SCP-1 THRU SCP-11	CABLE ROUTING PLANS
SL-1 THRU SL-14	STREET LIGHTING AND CONDUIT ARRANGEMENT PLANS
TR-1 THRU TR-10	TREE CONSERVATION PLANS AND DETAILS
UC-1 THRU UC-15	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-12	UTILITIES BY OTHERS PLANS
W-1	RETAINING WALL PLANS
X-1 THRU X-62	CROSS SECTION SHEETS

THE FOLLOWING ROADWAY STANDARDS AND ANY OTHER APPLICABLE STANDARDS WITHIN THE IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	DESCRIPTION
200.02	METHOD OF CLEARING - METHOD II
225.02	GUIDE FOR GRADING SUBGRADE
225.04	METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
240.01	GUIDE FOR BERM DITCH CONSTRUCTION
300.01	METHOD OF PIPE INSTALLATION
654.01	PAVEMENT REPAIRS
815.02	SUBSURFACE DRAIN
815.03	PIPE UNDERDRAIN AND BLIND DRAIN
816.02	AGGREGATE SHOULDER DRAIN
840.00	CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
840.01	BRICK CATCH BASIN - 12" THRU 54" PIPE
840.02	CONCRETE CATCH BASIN - 12" THRU 54" PIPE
840.03	FRAME, GRATES AND HOOD - FOR USE ON STANDARD CATCH BASIN
840.04	CONCRETE OPEN THROAT CATCH BASIN - 12" THRU 48" PIPE
840.05	BRICK OPEN THROAT CATCH BASIN - 12" THRU 48" PIPE
840.14	CONCRETE DROP INLET - 12" THRU 30" PIPE
840.15	BRICK DROP INLET - 12" THRU 30" PIPE
840.16	DROP INLET FRAME AND GRATES - FOR USE WITH STD DWGS 840.14 AND 840.15
840.18	CONCRETE GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
840.24	FRAMES AND NARROW SLOT SAG GRATES
840.25	ANCHORAGE FOR FRAMES - BRICK/CONCRETE/PRECAST CONCRETE
840.27	BRICK GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
840.31	CONCRETE JUNCTION BOX - 12" THRU 66" PIPE
840.32	BRICK JUNCTION BOX - 12" THRU 66" PIPE
840.54	MANHOLE FRAME AND COVER
840.66	DRAINAGE STRUCTURE STEPS
840.72	PIPE COLLAR
846.01	CONCRETE CURB, GUTTER, AND CURB & GUTTER
848.01	CONCRETE SIDEWALK
848.02	DRIVEWAY TURNOUT
848.04	STREET TURNOUT
850.01	CONCRETE PAVED DITCHES
852.01	CONCRETE ISLANDS
852.04	METHOD FOR PLACEMENT OF DROP INLETS IN GRASSED MEDIAN
852.05	MEDIAN CURB FOR CATCH BASIN - FOR USE WITH 1'-6" CURB AND GUTTER
852.06	METHOD FOR PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS
876.01	RIP RAP IN CHANNELS
876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS

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5/1/2023

REV. NO.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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 adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Copyright Kimley-Horn and Associates, Inc., 2020

SITE NOTES

ALL DIMENSIONS ARE IN RADII, EDGE OF PAVEMENT, TO CENTERLINE, CENTER TO CENTER ON STRIPES, AND/OR TO FACE OF CURB, UNLESS OTHERWISE NOTED.

PROVIDE CONSTRUCTION JOINTS IN CONCRETE WALKWAYS PER CITY OF RALEIGH SPECIFICATIONS. CONCRETE PADS AND WALKWAYS; UNLESS OTHERWISE NOTED, ARE 3000 PSI, OF 4" THICKNESS.

CROSSWALKS SHALL BE CONSTRUCTED OF THERMOPLASTIC MATERIALS AND CONSTRUCTED IN ACCORDANCE WITH NCDOT SPECIFICATIONS. CONTRACTOR TO INSTALL CROSSWALKS IN SUCH A MANNER THAT CROSSWALKS ARE ALIGNED BETWEEN HANDICAP/WALKWAY ACCESS POINTS OR PERPENDICULAR TO THE ROADWAY/DRIVE LANE. REFER TO PLANS FOR LOCATION.

ALL SIGNS AND PAVEMENT MARKINGS ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) AND NCDOT STANDARDS.

CONTRACTOR TO GRADE FILL/CUT SLOPES TO TIE INTO EXISTING GROUND AND AVOID PONDING.

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

DEMOLITION NOTES

THE CONTRACTOR SHALL NOT MAKE ANY LANE CLOSURES OR CHANGES TO THE EXISTING TRAVEL PATTERNS ON ANY PUBLIC STREET WITHOUT PRIOR APPROVAL FROM THE CITY OF RALEIGH AND/OR NCDOT.

THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING REMOVAL AND DISPOSAL OF MATERIALS AND DEBRIS.

ALL DEMOLITION WORK WILL BE COORDINATED BY CONTRACTOR.

STREETLIGHTS, STREETLIGHT FOUNDATIONS, SIGN FOUNDATIONS, AND WAYFINDING SIGN FOUNDATIONS SHALL BE REMOVED BY THE CONTRACTOR DURING GRADING OPERATIONS UNLESS OTHERWISE DIRECTED.

RELOCATION OF EXISTING UTILITIES TO BE COORDINATED WITH THE LOCAL UTILITY PROVIDER(S).

CLEANOUTS AND METERS LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION THAT ARE TO REMAIN, SHALL BE PROTECTED FROM DAMAGE AND RAISED TO FLUSH WITH NEW GRADE.

ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFFSITE UNLESS OTHERWISE NOTED ON PLANS.

ALL PAVEMENT MARKINGS USED FOR PROJECT SHALL BE NCDOT STANDARD THERMOPLASTIC PAVEMENT MARKINGS UNLESS OTHERWISE NOTED ON PLANS.

ALL WORK MUST BE COMPLETED WITHIN CONSTRUCTION LIMITS SHOWN ON PLANS.

REMOVE EXISTING CONCRETE (WHERE REQUIRED) TO FIRST COLD JOINT OR SAWCUT TO OBTAIN A CLEAN EDGE FOR NEW CONSTRUCTION. EXISTING SIDEWALK SHALL BE REMOVED WITH CAUTION AS TO NOT DAMAGE TREE ROOTS WITHIN CRITICAL ROOT ZONES. PREFERRED METHOD OF REMOVAL IS BY HAND. SAW CUT EXISTING ASPHALT DRIVE AT LIMITS OF NEW CURBING TO OBTAIN A CLEAN EDGE.

CONTRACTOR SHALL RESTORE ANY LAY-DOWN AND STAGING AREAS TO ORIGINAL CONDITIONS AND TO THE SATISFACTION OF THE OWNER, PRIOR TO DEMOBILIZATION AT THE CONCLUSION OF THE PROJECT.

CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL COMPACTION OF THESE SOILS PERFORMED IN ACCORDANCE WITH SPECIFICATIONS AND DRAWINGS.

ALL GRAVEL TO BE REMOVED (SURFACE OR SUBSURFACE) SHALL BE STOCKPILED AND REUSED ON SITE WHERE POSSIBLE IF IT CONFORMS TO SPECIFICATIONS AND DRAWINGS.

ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.

SHEET NOTES

EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE, ARE BASED ON A FIELD SURVEY PERFORMED BY WETHERILL ENGINEERING AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, UNDERGROUND LINES, AND STRUCTURES AS NECESSARY TO AVOID DAMAGING OR DESTROYING EXISTING SERVICES.

ALL DEMOLITION, AND ANY SUBSEQUENT CONSTRUCTION, SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS SET FORTH AND APPROVED BY THE CITY OF RALEIGH. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS. ALL TREE PROTECTION FENCING SHALL REMAIN IN PLACE DURING CONSTRUCTION.

TRAFFIC CONTROL FOR ANY WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE PERFORMED IN COMPLIANCE WITH STANDARDS OF THE NORTH CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.

THE CONTRACTOR, AT ALL TIMES, KEEP THE SITE FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY CONTRACTOR EMPLOYEES OR THEIR WORK. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS. DO NOT USE SIDEWALK TRASH CANS OR BUSINESS DUMPSTERS AROUND SITE.

IF DEPARTURES FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED TO THE OWNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER.

THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE ACTUAL AND EXACT LOCATION, SIZE AND MATERIAL COMPOSITION OF ANY EXISTING WATER OR SEWER SERVICE PROPOSED FOR CONNECTION TO THIS PROJECT. THE RELOCATION OF ANY WATER OR SEWER UTILITY SERVICE REQUIRED TO COMPLETE ANY PORTION OF THESE CONSTRUCTION PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL SIGNS SHALL BE MOUNTED WITH SIGN EDGE AND TO BE LOCATED A MINIMUM OF 2 FEET FROM EDGE OF TRAVELWAY.

UTILITY NOTES

CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (TELEPHONE 1-800-632-4949) AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL."

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR RELOCATION OF EXISTING UTILITIES IN COORDINATION WITH THE APPROPRIATE UTILITY, AGENCY, OR COMPANY IF SHOWN ON THE PLANS.

ALL UTILITIES THAT ARE LOCATED WITHIN LIMITS OF DISTURBANCE SHALL BE SET SO THAT TOPS/RIMS ARE FLUSH WITH FINISHED GRADE OF ROADWAY AND SIDEWALK. LOCATIONS AND SIZES OF EXISTING PUBLIC AND PRIVATE UTILITIES SHOWN ON THESE PLANS ARE FROM CITY AND UTILITY COMPANY RECORDS ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES AND FOR DAMAGES RESULTING FROM FAILURE TO DO SO.

CONTRACTOR SHALL VERIFY EXISTING WATERLINE ELEVATION IN RELATION TO PROPOSED STORM PIPE INSTALLATION. INVESTIGATION SHALL BE INCIDENTAL TO STORM PIPE INSTALLATION. IF LESS THAN 8" CLEARANCE BETWEEN PROPOSED STORM PIPE AND EXISTING WATERLINE, RELOCATE WATERLINE TO PROVIDE 12" MINIMUM SEPARATION BETWEEN THE STORM AND WATERLINE. IF BETWEEN 12" AND 24" CLEARANCE BETWEEN THE PROPOSED STORM PIPE AND EXISTING WATERLINE, PROVIDE PIPELINE CROSSING. IF GREATER THAN 24" CLEARANCE BETWEEN THE PROPOSED STORM PIPE AND EXISTING WATERLINE, NO ADDITIONAL WORK IS REQUIRED.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE CITY OF RALEIGH PUBLIC WORKS FOR ANY ADDITIONAL INFORMATION ON EXISTING WATER AND SEWER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE TO RECONNECT WATER SERVICE WHERE STORM DRAIN IS IN CONFLICT.

LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATION, ORIENTATION, AND ELEVATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION OR ORDERING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE INCURRED TO EXISTING UTILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD ANY FIELD CONDITIONS BE ENCOUNTERED THAT VARY FROM THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS.

GENERAL NOTES

GRADE LINE:
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SIDE ROADS:
THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE:
DUKE ENERGY PROGRESS (DISTRIBUTION) - DREW ODOM - ANDREW.ODOM@DUKE-ENERGY.COM - (919) 431-4829
DUKE ENERGY PROGRESS (TRANSMISSION) - BRUCE PAIT - BRUCE.PAIT@DUKE-ENERGY.COM - (919) 431-4831
DUKE ENERGY PROGRESS (LIGHTING) - ASHLEY BURDGE - ASHLEY.BURDGE@DUKE-ENERGY.COM - (919) 654-6590
PSNC - JOSUE ALCARAZ - JOSUE.ALCARAZ@SCANA.COM - (919) 367-2745
GOOGLE FIBER - HAROLD GREENE - GREENEH@GOOGLE.COM - (704) 608-4251
AT&T - EFFIE UNDERWOOD (UCS) - EUNDERWOOD@UCSENG.COM - (919) 654-5871
CHARTER/SPECTRUM - RICHARD DARA - RICHARD.DARA@CHARTER.COM - (919) 288-5472
LEVEL 3 COMMUNICATIONS/CENTURYLINK - BRETT BOGER (TELICS) - BRETTBOGER@TELICS.COM - (336) 692-6477
SPIRIT COMMUNICATIONS - BRETT BOGER (TELICS) - BRETTBOGER@TELICS.COM - (336) 692-6477
CITY OF RALEIGH WATER AND SEWER - JANEEN GOODWIN - JANEEN.GOODWIN@RALEIGHNC.GOV - (919) 996-3494
CITY OF RALEIGH LIGHTING - DUSTIN BRICE - DUSTIN.BRICE@RALEIGHNC.GOV - (919) 996-4045
CITY OF RALEIGH TRANSPORTATION / TRAFFIC DEPT - JED NIFFENEGGER - JED.NIFFENEGGER@RALEIGHNC.GOV - (919) 996-4039
CITY OF RALEIGH FIBER - DON BAILEY - DONALD.BAILEY@RALEIGHNC.GOV - (919) 996-3020

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

CURB RAMPS:
CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. THE CONSTRUCTION OF ALL CURB RAMPS SHALL BE IN ACCORDANCE WITH CITY DETAILS OR DETAILS SHOWN ON THE PLANS. THE MAXIMUM SLOPE IS 12:1 FOR ALL CURB RAMPS. CITY INSPECTOR TO REVIEW ALL RAMP FORMS BEFORE CONCRETE POURS.

SAFETY:
PEDESTRIAN AND BICYCLE SAFETY MUST BE MAINTAINED AT ALL TIMES BY ADEQUATE PROJECT LIMITS, FENCING, AND SIGNAGE.

EROSION CONTROL:
THE FINAL SIZE AND LOCATION OF ALL EROSION CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO PLACING EROSION CONTROL MEASURES. SEE EROSION CONTROL PLANS.

TRAFFIC CONTROL:
TRAFFIC CONTROL GENERAL NOTES, DETAILS, AND A LIST OF STANDARDS ARE INCLUDED IN THIS PLAN SET. ALL TRAFFIC CONTROL DEVICES AND OPERATIONS SHALL CONFORM TO NCDOT 2018 ROADWAY STANDARD DRAWINGS FOR TRAFFIC CONTROL. SEE TRAFFIC MANAGEMENT PLANS.

OTHER:
CONTRACTOR SHALL COORDINATE WITH THE CITY OF RALEIGH FOR CITY INSTALLATION OR MODIFICATION OF SIGNING FOR PROJECT. (I.E. PARKING AND BUS SIGNING STREET SIGNS)

CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO EACH BUSINESS, BOARDWALKS, BARRICADES, ETC. SHALL BE UTILIZED TO SAFELY CHANNELIZE PEDESTRIAN TRAFFIC THROUGH A WORK ZONE. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT AND THERE WILL BE NO PAY ITEM FOR THIS WORK.

THE CONTRACTOR SHALL KEEP THE ROADWAY AND SIDEWALKS CLEAN OF DEBRIS THROUGHOUT THE ENTIRE DURATION OF THE PROJECT. THE CITY WILL INSPECT THE STREETS AND SIDEWALKS PERIODICALLY TO ENSURE THIS IS BEING COMPLETED. THIS WORK WILL BE INCIDENTAL TO THE PROJECT AND THERE WILL BE NO PAY ITEM FOR THIS WORK.

CONTRACTOR SHALL COORDINATE WATER AND SEWER WORK WITH THE CITY OF RALEIGH PUBLIC WORKS UTILITY DEPT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH PRIVATE UTILITIES AND ANY ADDITIONAL SUPPORT OF EXISTING POLES AS REQUIRED FOR TRENCH EXCAVATION. ALL COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR.

ALL PAVEMENT CUTS SHALL BE SAW CUT ALONG A STRAIGHT CONTINUOUS LINE. CURBS AND CONCRETE DRIVEWAYS SHALL BE REPLACED TO THE FIRST EXPANSION JOINT BEYOND THE TRENCH EXCAVATION LIMITS AND TO THE FULL WIDTH. CURBS AND CONCRETE DRIVEWAYS SHALL MATCH EXISTING.

ALL MATERIAL CLEARED AND GRUBBED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK, SUCH AS TREES, VEGETATION, FENCING, ETC., SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE AT A STATE APPROVED DISPOSAL SITE. THE CONTRACTOR SHALL RECEIVE CITY APPROVAL FOR ANY LANDSCAPE REMOVAL NOT SHOWN ON PLANS.

CONTRACTOR SHALL MAINTAIN A MEANS FOR INGRESS/EGRESS TO EACH PROPERTY AT ALL TIMES.

CONTRACTOR SHALL NOTIFY BUSINESSES AT LEAST 7 DAYS PRIOR TO CONSTRUCTION THAT CONSTRUCTION ACTIVITY WILL TAKE PLACE IN THEIR AREA.

WHERE THE CONTRACTOR DETERMINES THAT ENCROACHMENT ONTO PRIVATE PROPERTY IS NECESSARY, AND AN EASEMENT HAS NOT BEEN PROVIDED, THE CONTRACTOR SHALL CONTACT INDIVIDUAL PROPERTY OWNERS AND OBTAIN WRITTEN APPROVAL FOR THAT ENCROACHMENT. A COPY OF THIS APPROVAL SHALL BE PROVIDED TO THE ENGINEER.

ALL EXISTING BUS STOPS WILL REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE REMOVAL OF EXISTING MATERIAL WITH NEW SHELTER PAD COMPLETION. PROVIDE TEMPORARY PROTECTED AREA ADJACENT TO SITE FOR RIDERS UNTIL NEW SHELTER PAD HAS BEEN ACCEPTED BY THE CITY FOR OPERATION. REPAIR ANY DAMAGED AREAS USED FOR THE TEMPORARY BUS STOP.

RIGHT-OF-WAY OBSTRUCTION NOTES:

STREET, LANE, AND SIDEWALK CLOSURES OR DETOURS: ONE WEEK PRIOR TO ANY WORK THAT IMPACTS THE RIGHT-OF-WAY OR CLOSING OF ANY STREET, LANE, OR SIDEWALK, THE CONTRACTOR MUST APPLY FOR/SUBMIT A PERMIT WITH RIGHT-OF-WAY SERVICES THROUGH THE ONLINE PORTAL AT PERMITPORTAL.RALEIGHNC.GOV.

PRIOR TO THE START OF WORK, THE CLIENT SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE ENGINEERING INSPECTIONS COORDINATOR TO REVIEW THE SPECIFIC COMPONENTS OF THE APPROVED PLAN, AND ENSURE ALL PERMITS ARE ISSUED.

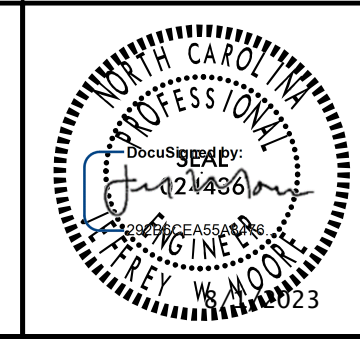
THE CITY OF RALEIGH REQUIRES AN APPROVED RIGHT-OF-WAY OBSTRUCTION PERMIT FOR WORK ON ANY PUBLIC STREET OR SIDEWALK AND NCDOT ROAD WITHIN RALEIGH'S JURISDICTION.

ALL TRAFFIC CONTROL SIGNAGE AND PRACTICES SHALL ADHERE TO THE MANUAL ON UNIFORM TRAFFIC CONTROL, AND THE LATEST EDITION OF THE NCDOT "STANDARD SPECIFICATION FOR ROADWAY STRUCTURES", NCDOT "ROADWAY STANDARD DRAWING MANUAL", AND THE NCDOT SUPPLEMENT TO THE MUTCD.

ALL PUBLIC SIDEWALKS MUST BE ACCESSIBLE TO PEDESTRIANS WHO ARE VISUALLY IMPAIRED AND/OR PEOPLE WITH MOBILITY CONCERNS. EXISTING AND ALTERNATIVE PEDESTRIAN ROUTES DURING CONSTRUCTION SHALL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG). THE ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

ALL PERMITS MUST BE AVAILABLE AND VISIBLE ON SITE DURING THE OPERATION.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



NOT TO SCALE

PROJECT:	BLUE RIDGE ROAD WIDENING	
JOB NUMBER:	011063094	SHEET NUMBER: 1-A

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and the contractor are responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid. A copy of the approved plans, any work authorized by the approved plan, and a copy of the approved plans, any work authorized by the approved plan, shall be submitted to the City for review and approval. Any modification to the approved plan must include the approval.

City of Raleigh Development Approval

 Design Review Officer

SPR-01155-2020 APPROVED.pdf

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale *S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙
Computed Property Corner	⊗
Property Monument	⊕
Parcel/Sequence Number	(23)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	☠-S-☠
Potential Contamination Area: Soil	☠-S-☠
Known Contamination Area: Water	☠-W-☠
Potential Contamination Area: Water	☠-W-☠
Contaminated Site: Known or Potential	☠☠

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	⊙
Well	⊕
Small Mine	⊗
Foundation	▭
Area Outline	▭
Cemetery	⊕
Building	▭
School	▭
Church	▭
Dam	▭

HYDROLOGY:

Stream or Body of Water	~~~~~
Hydro, Pool or Reservoir	▭
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	→
Disappearing Stream	~~~~~
Spring	⊕
Wetland	WLB
Proposed Lateral, Tail, Head Ditch	▭
False Sump	▭

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	⊙
Switch	⊕
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	⬡
Primary Horiz and Vert Control Point	⬢
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊕
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete CA Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Proposed Curb Ramp	CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	▭

VEGETATION:

Single Tree	☼
Single Shrub	☼

Hedge	~~~~~
Woods Line	~~~~~
Orchard	☼☼☼☼
Vineyard	▭

EXISTING STRUCTURES:

MAJOR: Bridge, Tunnel or Box Culvert	CONC
MAJOR: Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR: Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
Storm Sewer	S

UTILITIES:

POWER: Existing Power Pole	●
POWER: Proposed Power Pole	○
POWER: Existing Joint Use Pole	●
POWER: Proposed Joint Use Pole	○
POWER: Power Manhole	⊕
POWER: Power Line Tower	⊗
POWER: Power Transformer	⊗
POWER: U/G Power Cable Hand Hole	-----
POWER: H-Frame Pole	●
POWER: U/G Power Line LOS B (S.U.E.*)	-----
POWER: U/G Power Line LOS C (S.U.E.*)	-----
POWER: U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	A/G Water
TV: TV Pedestal	⊕
TV: TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	⊕
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	▭
Underground Storage Tank, Approx. Loc.	UST
A/G Tank; Water, Gas, Oil	▭
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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5/1/2023

REV. NO.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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PREPARED IN THE OFFICE OF:



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RALEIGH, NORTH CAROLINA 27636
PHONE: (919) 677-2000
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SYMBOLS SHEET



NOT TO SCALE

PROJECT:	BLUE RIDGE ROAD WIDENING
JOB NUMBER:	011063094
SHEET NUMBER:	I-B

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

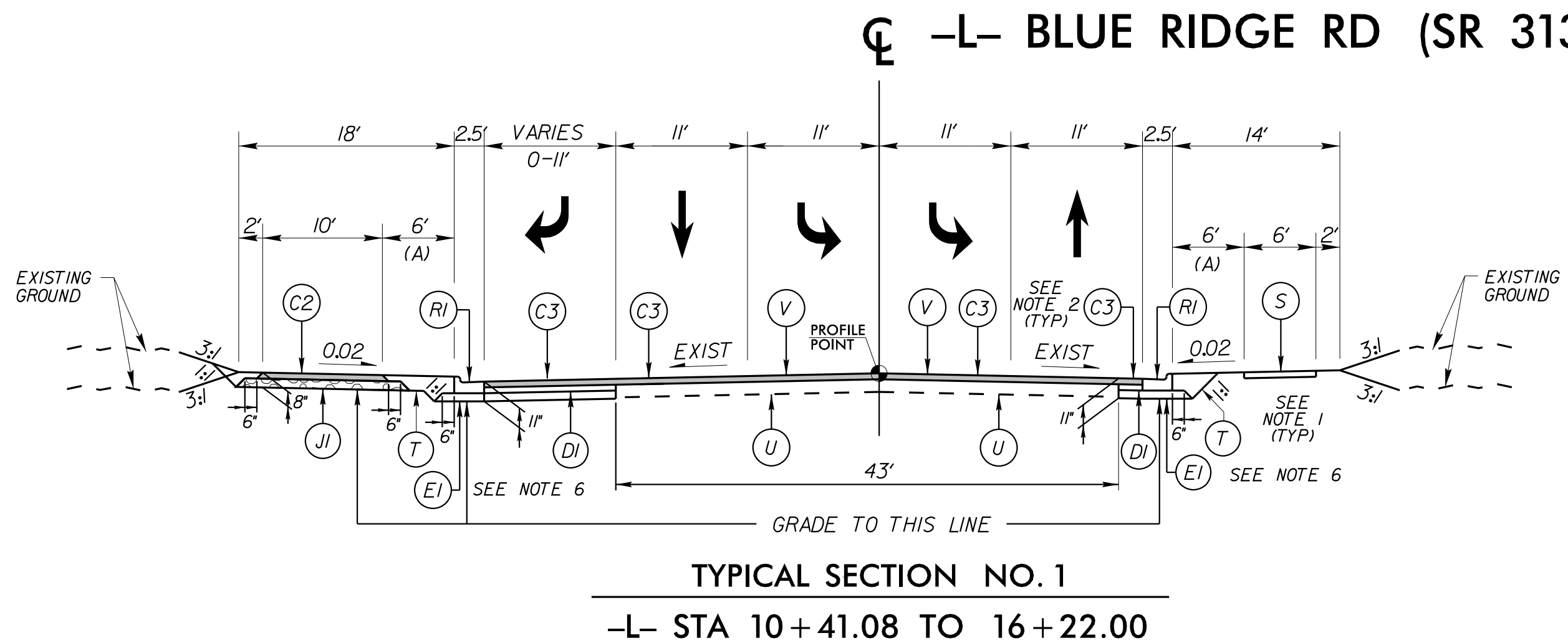
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Electronic Approval: This approval is being issued electronically. This approval is valid only upon the approval of a City of Raleigh Review Officer below. The City will retain a copy of the original approval. This approval may not be used for any other project. Any modification to this approval once issued will invalidate the approval.

City of Raleigh Development Approver: _____
City of Raleigh Review Officer: _____

SPR-0155-2020 APPROVED.pdf

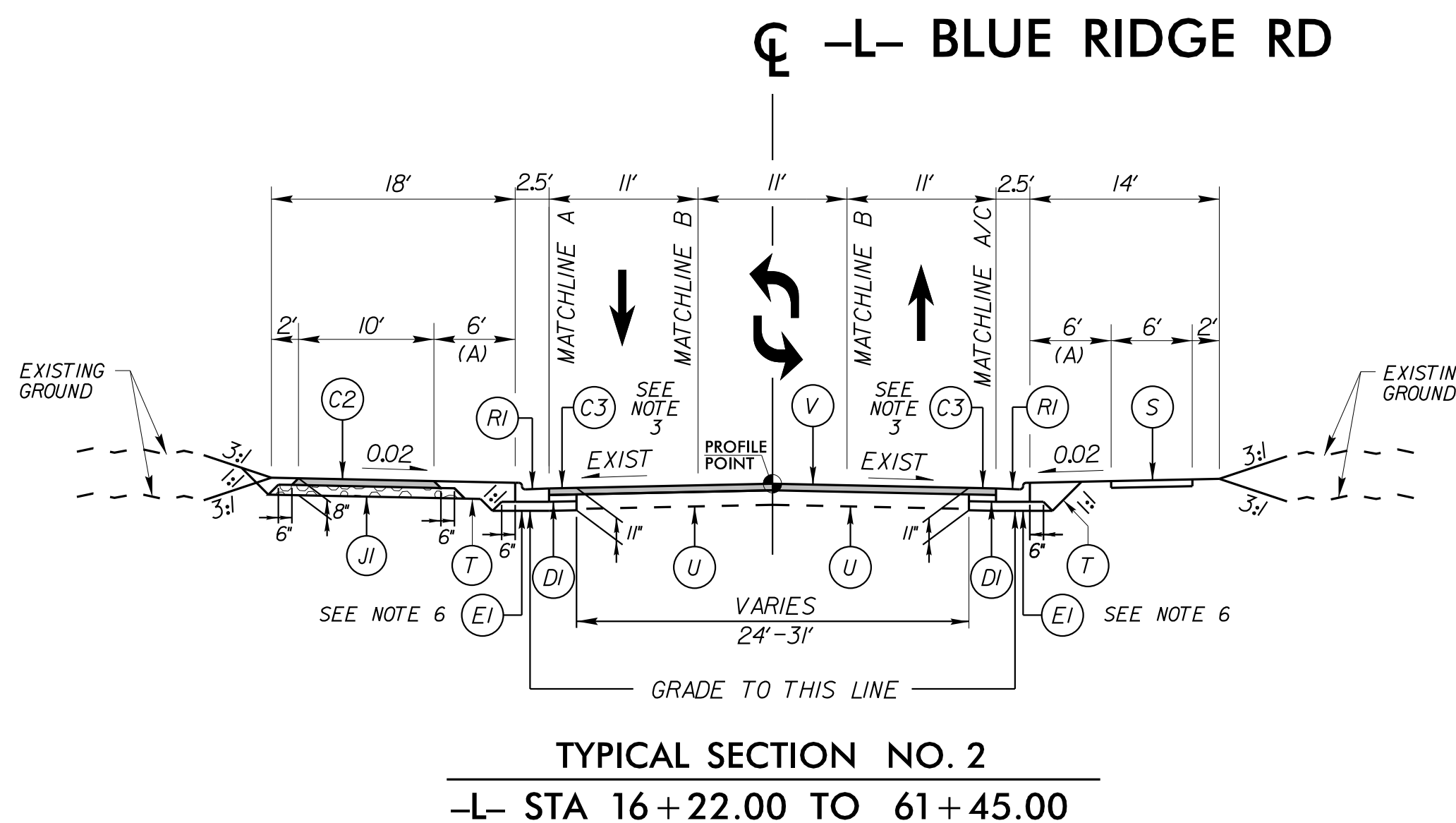
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-L-	10+71.11	15+03.42	RT	3'
-L-	10+81.13	12+37.34	LT	3'



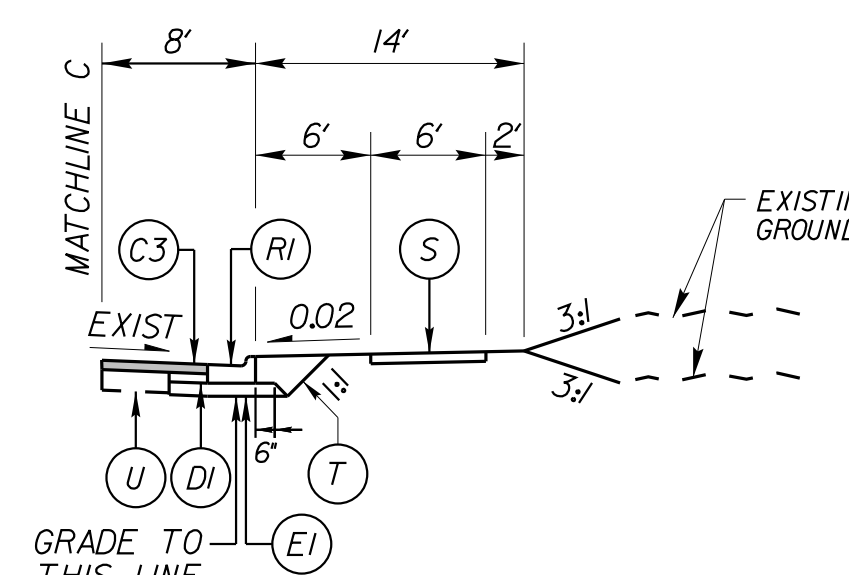
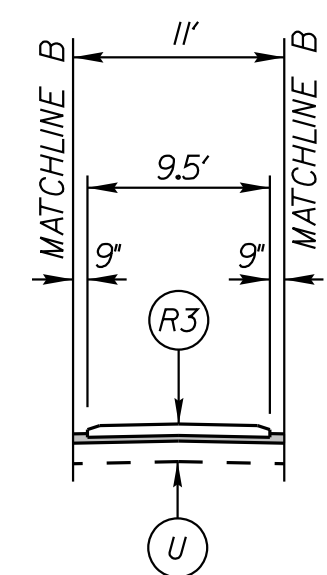
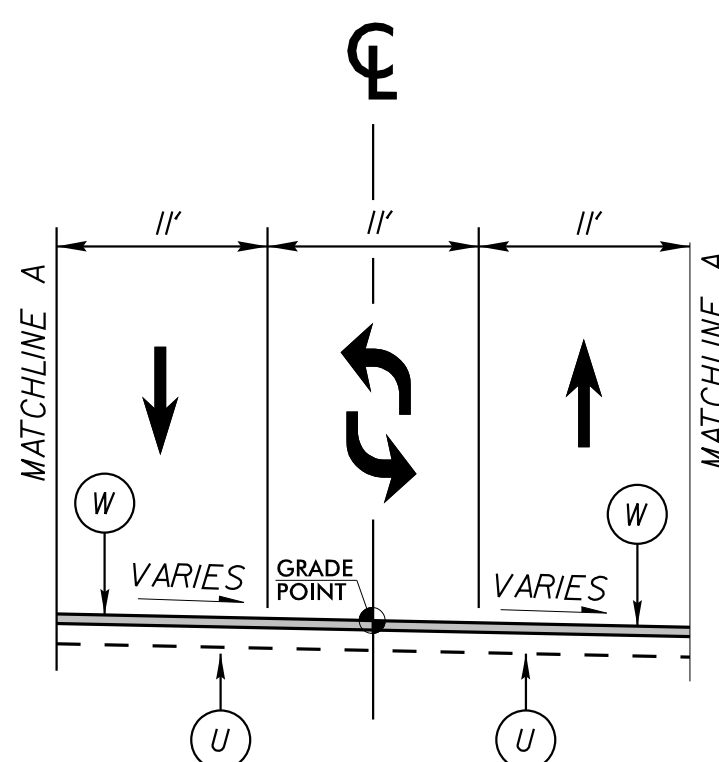
-L- BERM SLOPE TABLE					
LT			RT		
BEGIN STATION	END STATION	%	BEGIN STATION	END STATION	%
19+00.00	20+00.00	0.5	26+80.00	37+65.00	1.5
21+50.00	24+00.00	0.5	28+00.00	32+50.00	0.5
34+45.00	37+00.00	-2	33+00.00	34+50.00	1.5
39+90.00	41+50.00	-1	35+00.00	48+00.00	0.5
46+63.00	49+50.00	-1	48+50.00	48+70.00	1.5
			49+00.00	50+20.00	0.5
			62+50.00	74+04.00	0.5
			76+50.00	84+00.00	0.5
			90+00.00	91+75.00	0.5
			95+40.00	96+00.00	0.5

PAVEMENT SCHEDULE	
A1	PROPOSED 8" PORTLAND CEMENT CONCRETE PAVEMENT (WITHOUT DOWELS)
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROPOSED VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5 1/2" IN DEPTH.
J1	PROPOSED 6" AGGREGATE BASE COURSE
J2	PROPOSED 8" AGGREGATE BASE COURSE
R1	PROPOSED 2'-6" CURB AND GUTTER
R2	PROPOSED 1'-6" CURB AND GUTTER
R3	PROPOSED 5' MONOLITHIC CONCRETE ISLAND (KEYED-IN)
R4	PROPOSED 8" X 18" CONCRETE CURB
S	PROPOSED 4" CONCRETE SIDEWALK
T	PROPOSED COMPACTED EARTH MATERIAL
U	EXISTING ASPHALT PAVEMENT
V	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
W	WEDGING DETAIL FOR RESURFACING

LINE	BEGIN STATION	END STATION	LT/RT	(A)
-L-	19+12.49	21+58.95	LT	3'
-L-	31+50.00	33+70.00	LT	7.5'
-L-	33+70.00	34+90.00	LT	22.5'
-L-	38+14.86	38+85.27	LT	8'
-L-	46+50.00	47+35.00	LT	3'
-L-	50+00.00	50+13.63	RT	8'
-L-	62+55.31	63+35.52	RT	8'
-L-	65+86.59	69+18.26	LT	0'
-L-	70+45.86	72+96.61	LT	0'



- NOTES:
- SEE PLANS FOR SPECIFIC SIDEWALK LOCATIONS.
 - SAWCUT AND REMOVE EXIST ASPHALT PAVEMENT TO PROVIDE 1" MINIMUM WIDTH OF FULL DEPTH PAVEMENT. SEE "MILLING AND SAWCUT DIMENSION DETAIL" ON SHEET 2A-3.
 - WEDGE EXISTING ASPHALT PAVEMENT PER DETAIL (SHEET 2A-2) TO ESTABLISH 6% MAXIMUM SUPERELEVATION. SEE PLANS FOR LOCATIONS.
 - CONCRETE SIDEWALK SHALL BE 6" ACROSS DRIVEWAYS.
 - SEE PLANS FOR RETAINING WALL LOCATIONS.
 - USE J2 SECTION WHERE PAVEMENT WIDENING IS GREATER THAN 6'.
 - SEE CROSS-SECTIONS FOR CROSS-SLOPES AND CUT AND FILL SLOPES.
 - RETAIN EXIST 2'-6" C&G AND CONCRETE SIDEWALK FROM -Y7- STA 10+85.00 TO 11+31.00 (RT). RETAIN EXIST CURB & GUTTER AND SIDEWALK FROM -L- STA 100+00.00 TO 100+25.00 (LT).
 - MILL EXISTING ASPHALT PAVEMENT TO A DEPTH THAT ALLOWS THE MINIMUM SURFACE COURSE DEPTH.
 - USE 4' BERM ON -Y4-, -Y6-, -Y10-, -Y11-, -Y13-, -Y16-, -Y17-, AND -Y20-.
 - PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
 - SEE BERM SLOPE TABLE FOR LOCATIONS THAT VARY. POSITIVE SLOPES DRAIN TOWARDS THE ROAD.



K:\RAL_Roadway\01063094 - Blue Ridge Road\Plan\Plan Sheets\blue_typ.dgn

5/1/2023

REV. NO.	REVISIONS	DATE	DRAWN BY	CHECKED BY

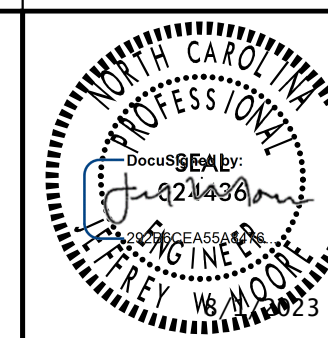
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PREPARED IN THE OFFICE OF:

Kimley » Horn
 NO LICENSE #F-0102
 421 FAYETTEVILLE STREET, SUITE 800
 RALEIGH, NORTH CAROLINA 27601
 PHONE: (919) 677-2000

TYPICAL SECTIONS

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NOT TO SCALE

PROJECT:	BLUE RIDGE ROAD WIDENING	
JOB NUMBER:	011063094	SHEET NUMBER: 2A-1

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

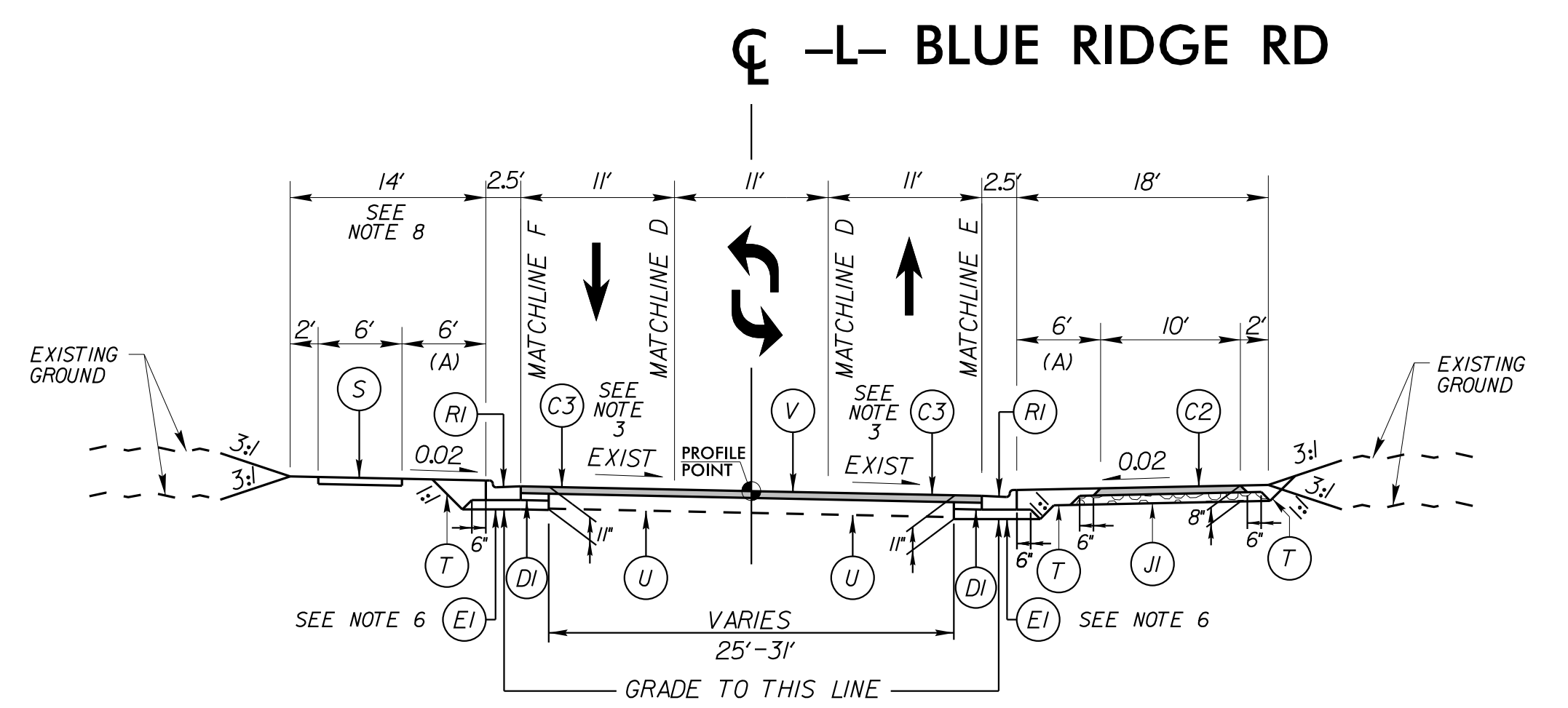
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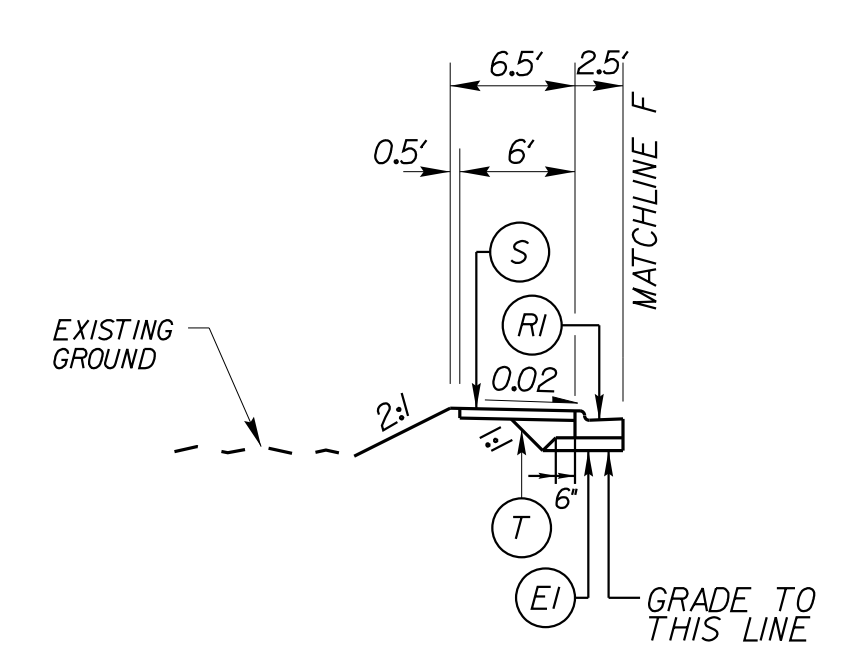
City of Raleigh Development Approval: *[Signature]*
 City of Raleigh Review Officer

SPR-0155-2020 APPROVED.pdf

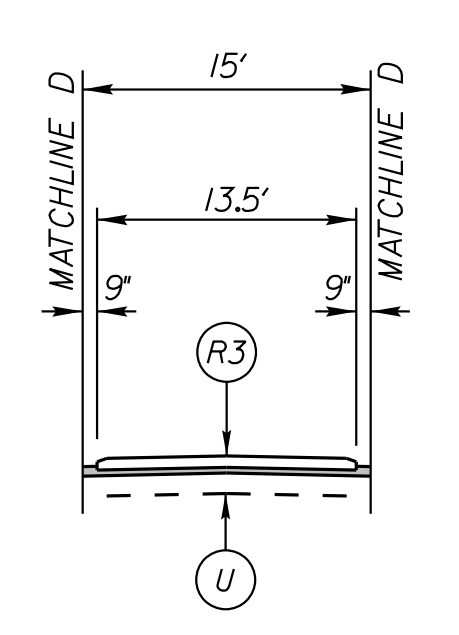
LINE	BEGIN STATION	END STATION	LT/RT	(A)
-L-	62+35.00	64+90.00	LT	3'
-L-	62+55.31	63+35.52	RT	8'
-L-	65+74.47	66+72.70	LT	2.75'
-L-	69+10.00	69+27.74	LT	2.75'



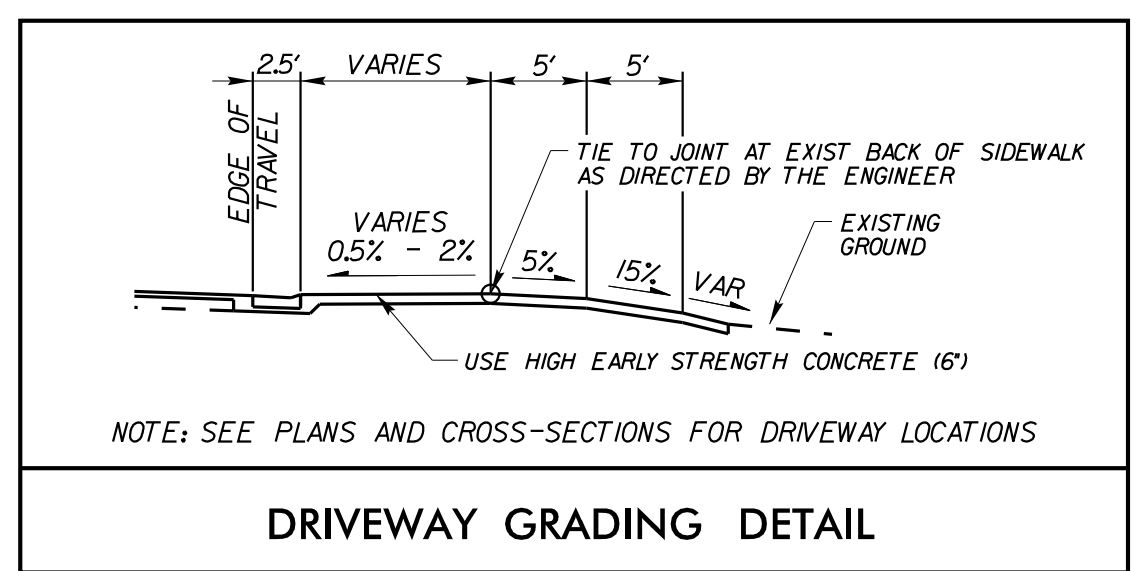
TYPICAL SECTION NO. 3
 -L- STA 62+06.00 TO 72+96.61
 -L- STA 100+25.00 TO 101+00.00



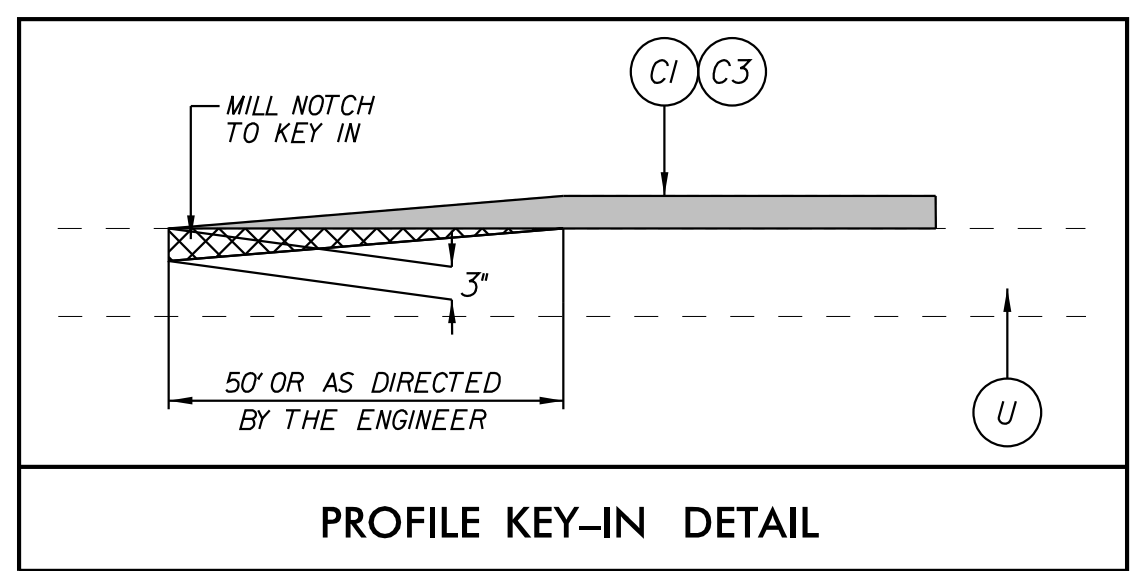
TYPICAL SECTION NO. 3B
 -L- STA 70+44.73 TO 72+96.61 (LT)



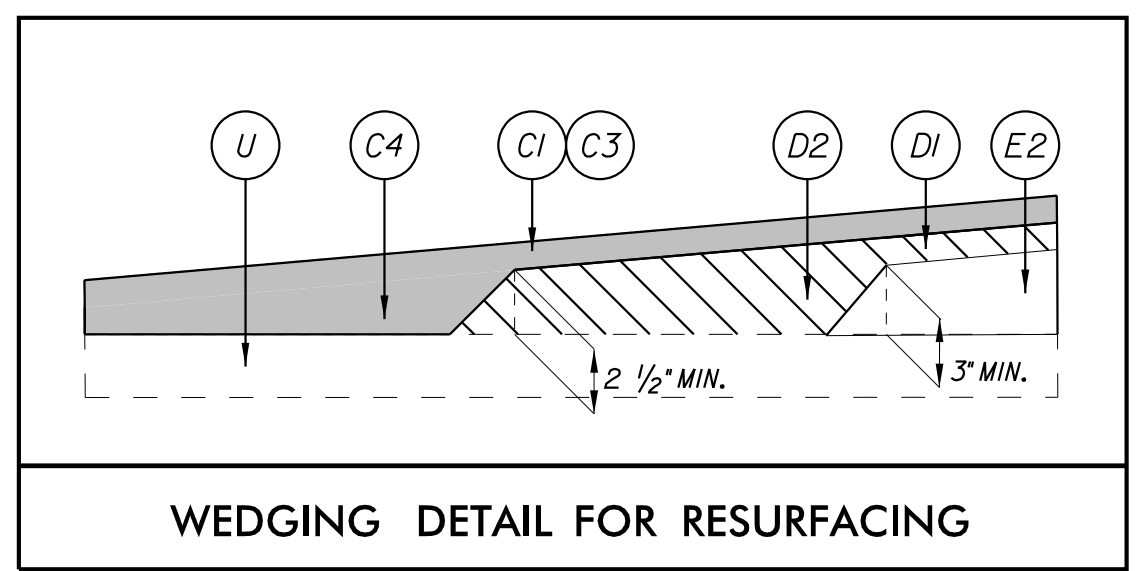
TYPICAL SECTION NO. 3C
 -L- STA 72+67.00 TO 72+96.61



DRIVEWAY GRADING DETAIL



PROFILE KEY-IN DETAIL



WEDGING DETAIL FOR RESURFACING

- NOTES:
- SEE PLANS FOR SPECIFIC SIDEWALK LOCATIONS.
 - SAWCUT AND REMOVE EXIST ASPHALT PAVEMENT TO PROVIDE 1' MINIMUM WIDTH OF FULL DEPTH PAVEMENT. SEE "MILLING AND SAWCUT DIMENSION DETAIL" ON SHEET 2A-3.
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 - SEE CROSS-SECTIONS FOR CROSS-SLOPES AND CUT AND FILL SLOPES.
 - RETAIN EXIST 2'-6" C&G AND CONCRETE SIDEWALK FROM -Y7- STA 10+85.00 TO 11+31.00 (RT). RETAIN EXIST CURB & GUTTER AND SIDEWALK FROM -L- STA 100+00.00 TO 100+25.00 (LT).
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 - USE 4' BERM ON -Y4-, -Y6-, -Y10-, -Y11-, -Y13-, -Y16-, -Y17-, AND -Y20-.
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PAVEMENT SCHEDULE	
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C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2" IN DEPTH.
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E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.
E2	PROPOSED VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5 1/2" IN DEPTH.
J1	PROPOSED 6" AGGREGATE BASE COURSE
J2	PROPOSED 8" AGGREGATE BASE COURSE
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R2	PROPOSED 1'-6" CURB AND GUTTER
R3	PROPOSED 5' MONOLITHIC CONCRETE ISLAND (KEYED-IN)
R4	PROPOSED 8" X 18" CONCRETE CURB
S	PROPOSED 4" CONCRETE SIDEWALK
T	PROPOSED COMPACTED EARTH MATERIAL
U	EXISTING ASPHALT PAVEMENT
V	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
W	WEDGING DETAIL FOR RESURFACING

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval *[Signature]*
 City of Raleigh Review Officer

SPR-0155-2020 APPROVED.pdf

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5/1/2023

REV. NO.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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PREPARED IN THE OFFICE OF:

Kimley » Horn

NO LICENSE #F-0102
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NORTH CAROLINA 27601
 PHONE: (919) 677-2000

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TYPICAL SECTIONS

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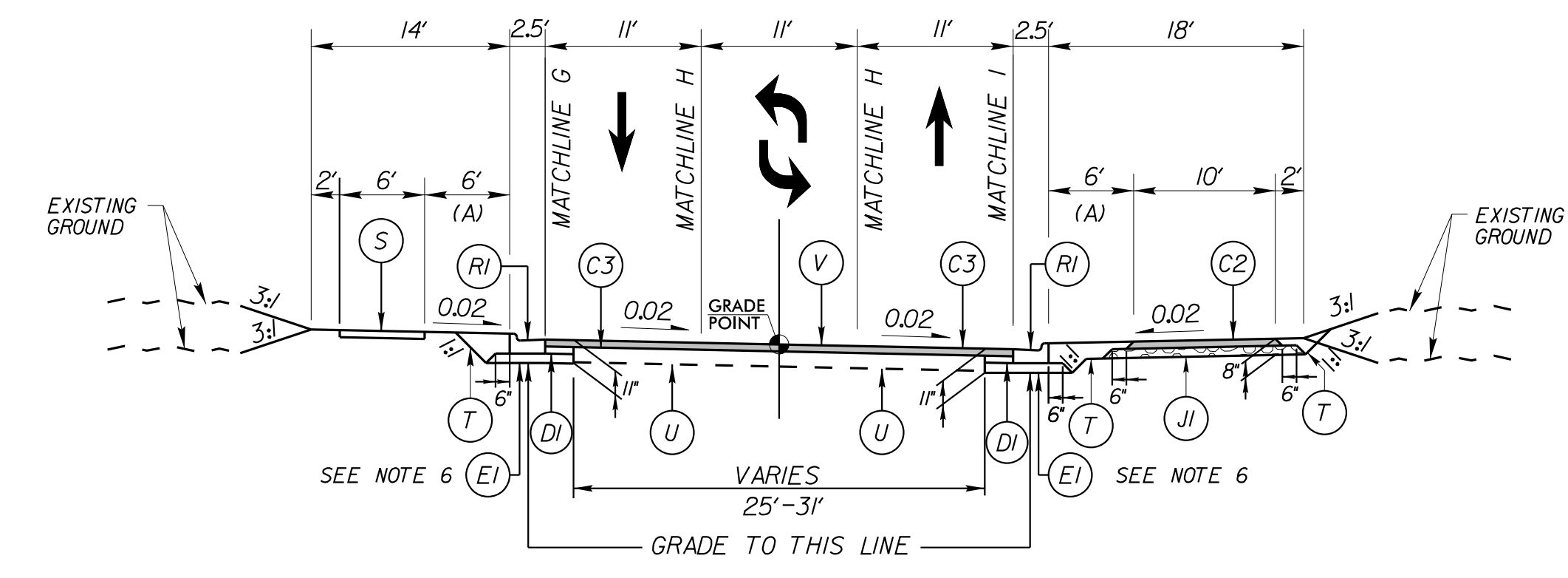
PROJECT:	BLUE RIDGE ROAD WIDENING	
JOB NUMBER:	011063094	SHEET NUMBER: 2A-2

PAVEMENT SCHEDULE

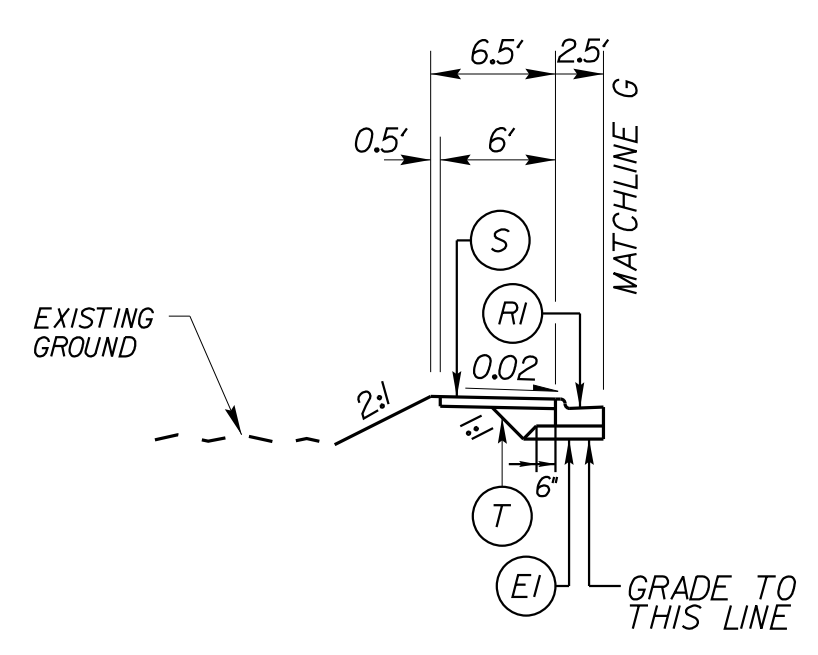
A1	PROPOSED 8" PORTLAND CEMENT CONCRETE PAVEMENT (WITHOUT DOWELS)
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U	EXISTING ASPHALT PAVEMENT
V	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
W	WEDGING DETAIL FOR RESURFACING

CL -L- BLUE RIDGE RD

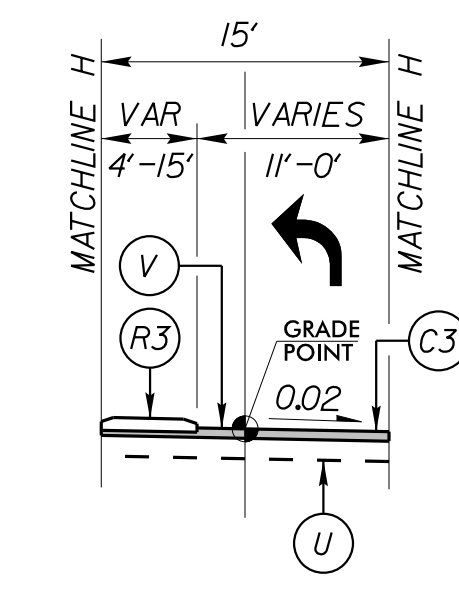
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-L-	73+80.00	74+75.00	RT	3'
-L-	89+74.00	91+75.00	RT	3'



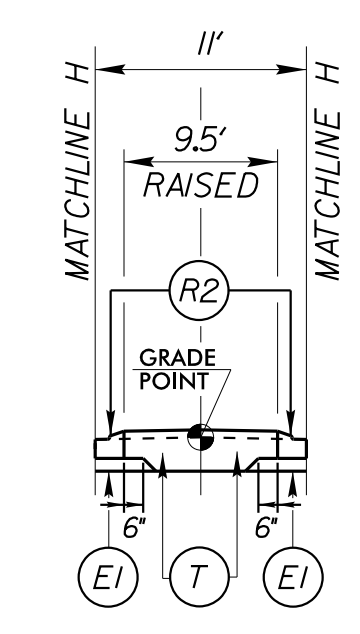
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 -L- STA 89+74.00 TO 96+43.67



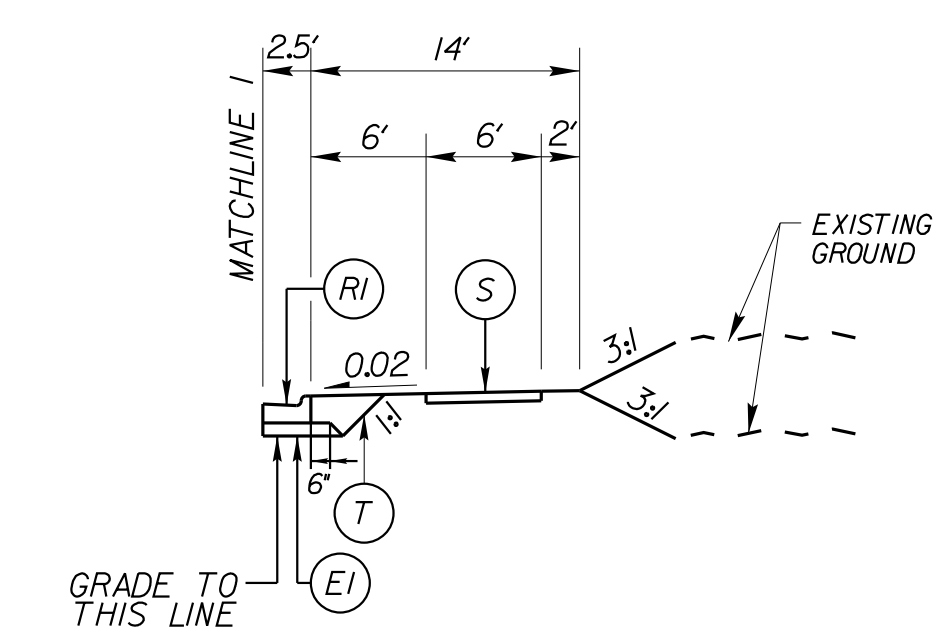
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 -L- STA 72+96.61 TO 73+69.75 (LT)



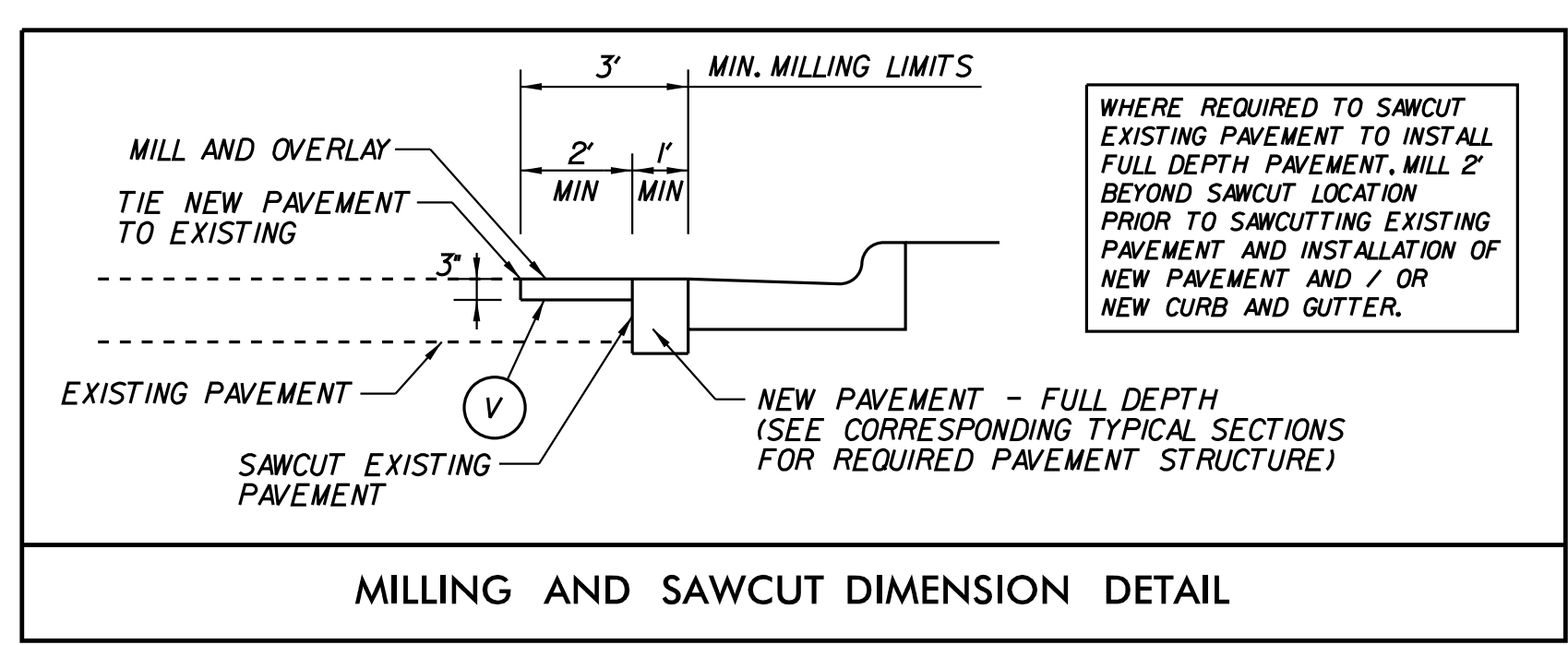
TYPICAL SECTION NO. 4B
 -L- STA 72+96.61 TO 73+86.22



TYPICAL SECTION NO. 4D
 -L- STA 105+12.71 TO 110+29.63



TYPICAL SECTION NO. 4E
 -L- STA 108+67.52 TO 111+15.00 (RT)



- NOTES:
- SEE PLANS FOR SPECIFIC SIDEWALK LOCATIONS.
 - SAWCUT AND REMOVE EXIST ASPHALT PAVEMENT TO PROVIDE 1' MINIMUM WIDTH OF FULL DEPTH PAVEMENT. SEE "MILLING AND SAWCUT DIMENSION DETAIL" ON SHEET 2A-3.
 - WEDGE EXISTING ASPHALT PAVEMENT PER DETAIL (SHEET 2A-2) TO ESTABLISH 6% MAXIMUM SUPERELEVATION. SEE PLANS FOR LOCATIONS.
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 - SEE CROSS-SECTIONS FOR CROSS-SLOPES AND CUT AND FILL SLOPES.
 - RETAIN EXIST 2'-6" C&G AND CONCRETE SIDEWALK FROM -Y7- STA 10+85.00 TO 11+31.00 (RT). RETAIN EXIST CURB & GUTTER AND SIDEWALK FROM -L- STA 100+00.00 TO 100+25.00 (LT).
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City of Raleigh Development Approval
 City of Raleigh Review Officer

SPR-0155-2020 APPROVED.pdf

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5/1/2023

REV. NO.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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PREPARED IN THE OFFICE OF:

Kimley » Horn

NO LICENSE #F-0102
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NORTH CAROLINA 27601
 PHONE: (919) 677-2000

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TYPICAL SECTIONS

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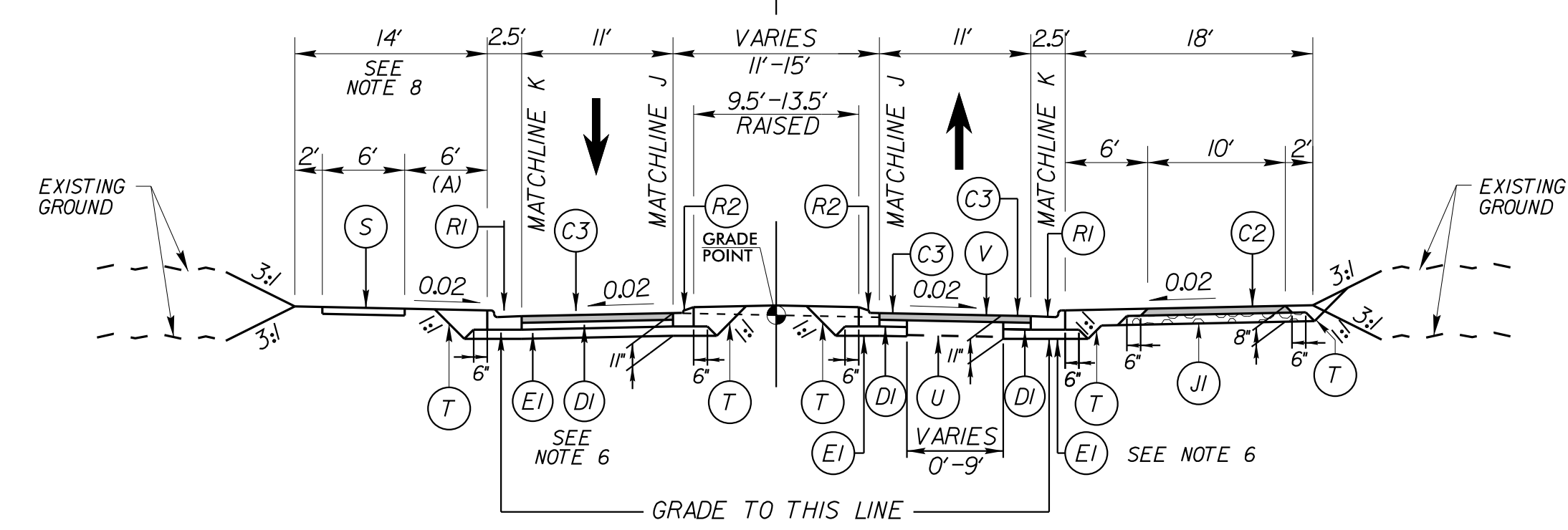
PROJECT:	BLUE RIDGE ROAD WIDENING	
JOB NUMBER:	011063094	SHEET NUMBER: 2A-3

PAVEMENT SCHEDULE

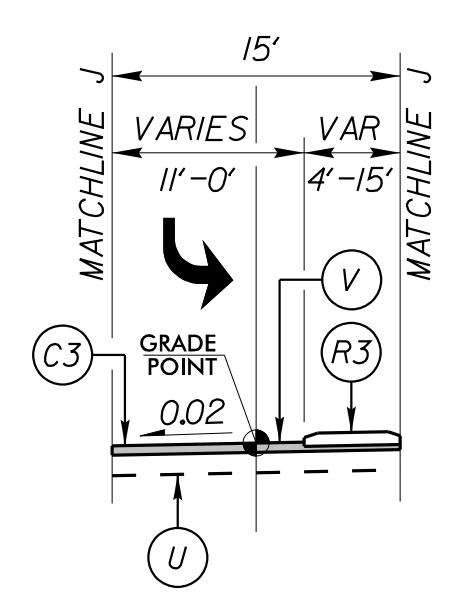
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V	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
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CL -L- BLUE RIDGE RD

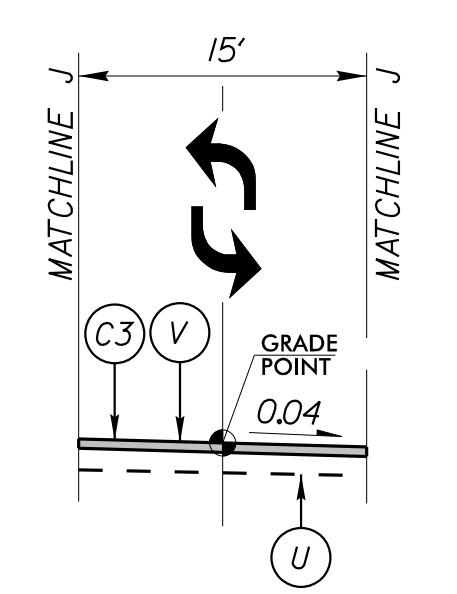
LINE	BEGIN STATION	END STATION	LT/RT	(A)
-L-	74+78.15	75+40.00	LT	0'
-L-	87+12.00	89+49.00	LT	3'
-L-	89+50.00	89+74.00	RT	3'



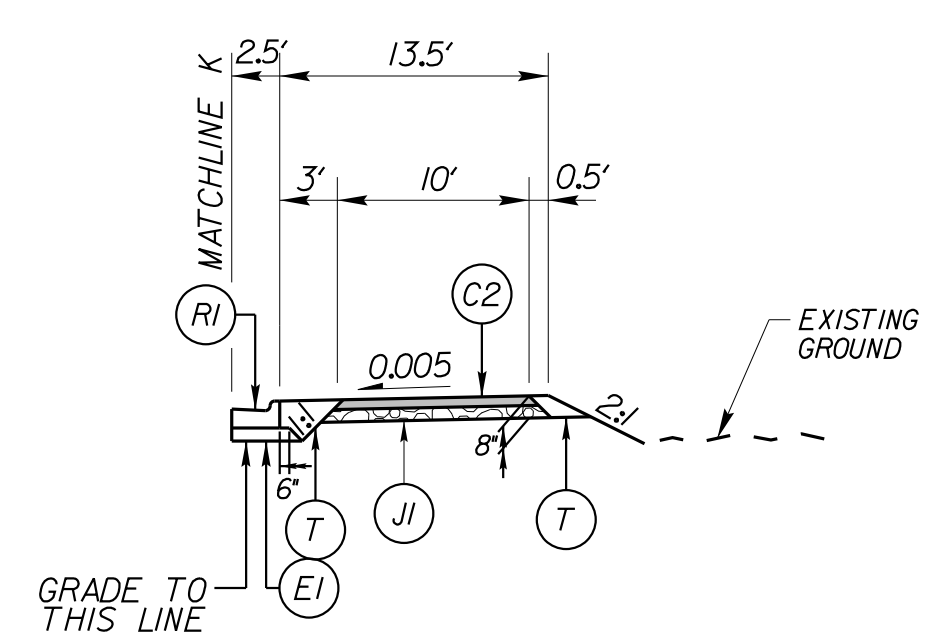
TYPICAL SECTION NO. 5
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 -L- STA 96+43.67 TO 97+08.64
 -L- STA 98+18.85 TO 100+25.00



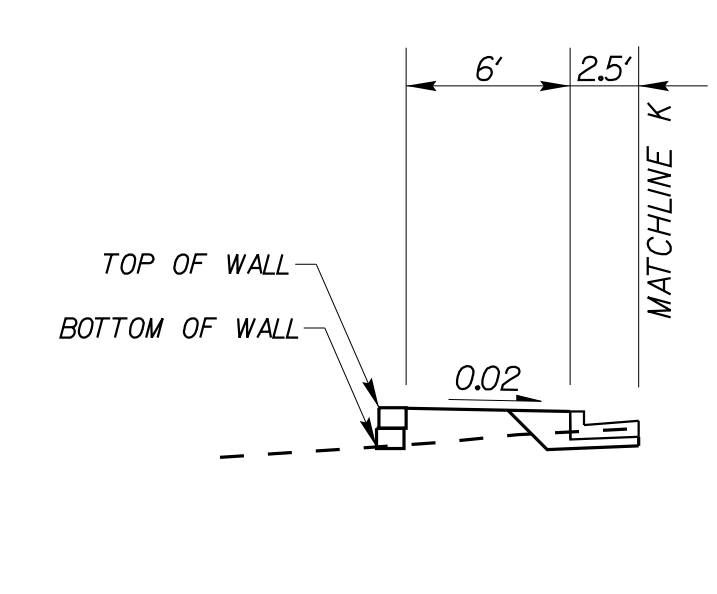
TYPICAL SECTION NO. 5A
 -L- STA 74+67.10 TO 76+85.99
 -L- STA 86+47.05 TO 89+47.05



TYPICAL SECTION NO. 5B
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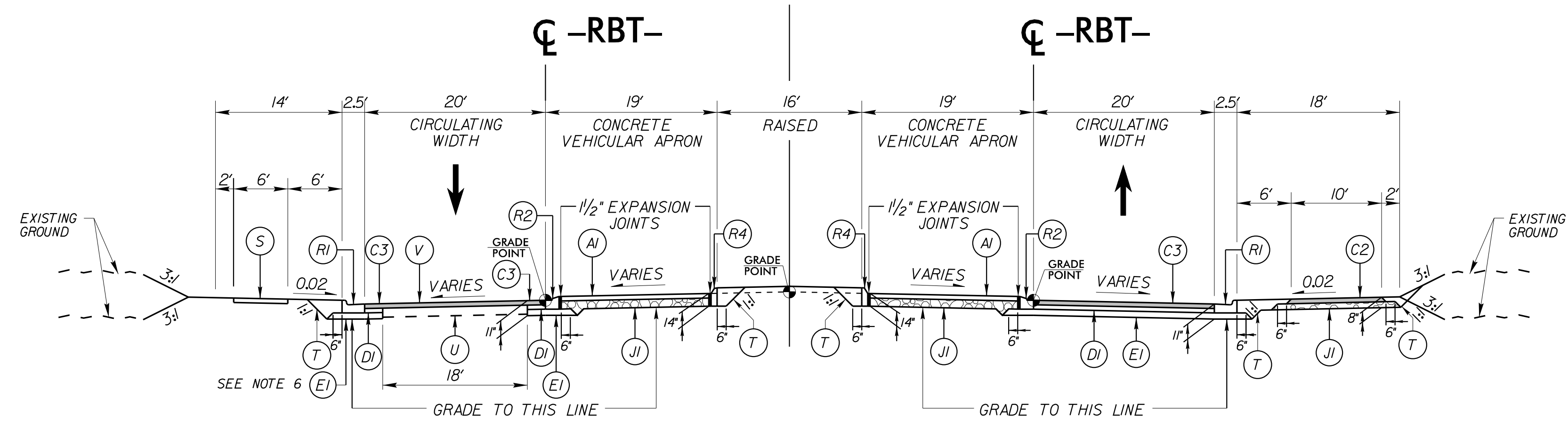


TYPICAL SECTION NO. 5C
 -L- STA 76+50.00 TO 84+00.00 (RT)



TYPICAL SECTION NO. 5D
 -L- STA 74+73.00 TO 74+95.00 (LT)

CL -L- BLUE RIDGE RD



TYPICAL SECTION NO. 6
 -L- STA 97+08.64 TO 98+18.85
 -RBT- STA 10+00.00 TO 12+19.91

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

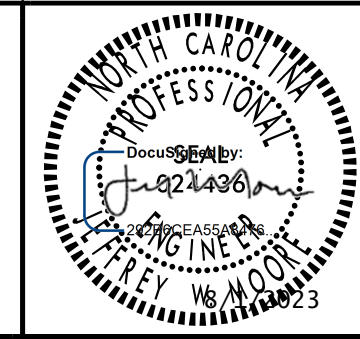
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City of Raleigh Development Approval

City of Raleigh Review Officer

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NOT TO SCALE

PROJECT:	BLUE RIDGE ROAD WIDENING	
JOB NUMBER:	011063094	SHEET NUMBER: 2A-4

PREPARED IN THE OFFICE OF:

Kimley-Horn

NO LICENSE #F-0102
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NORTH CAROLINA 27601
 PHONE: (919) 677-2000

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TYPICAL SECTIONS

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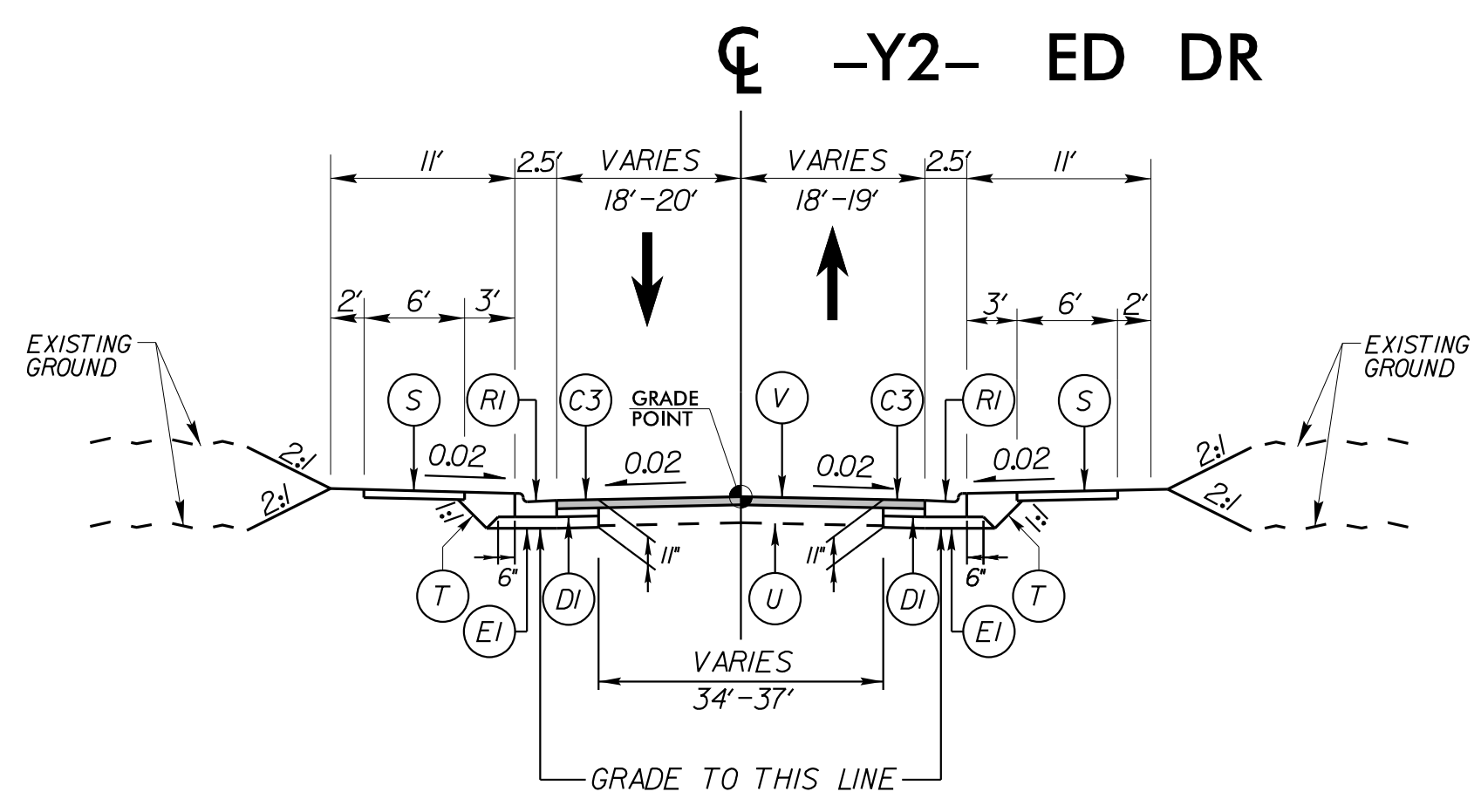
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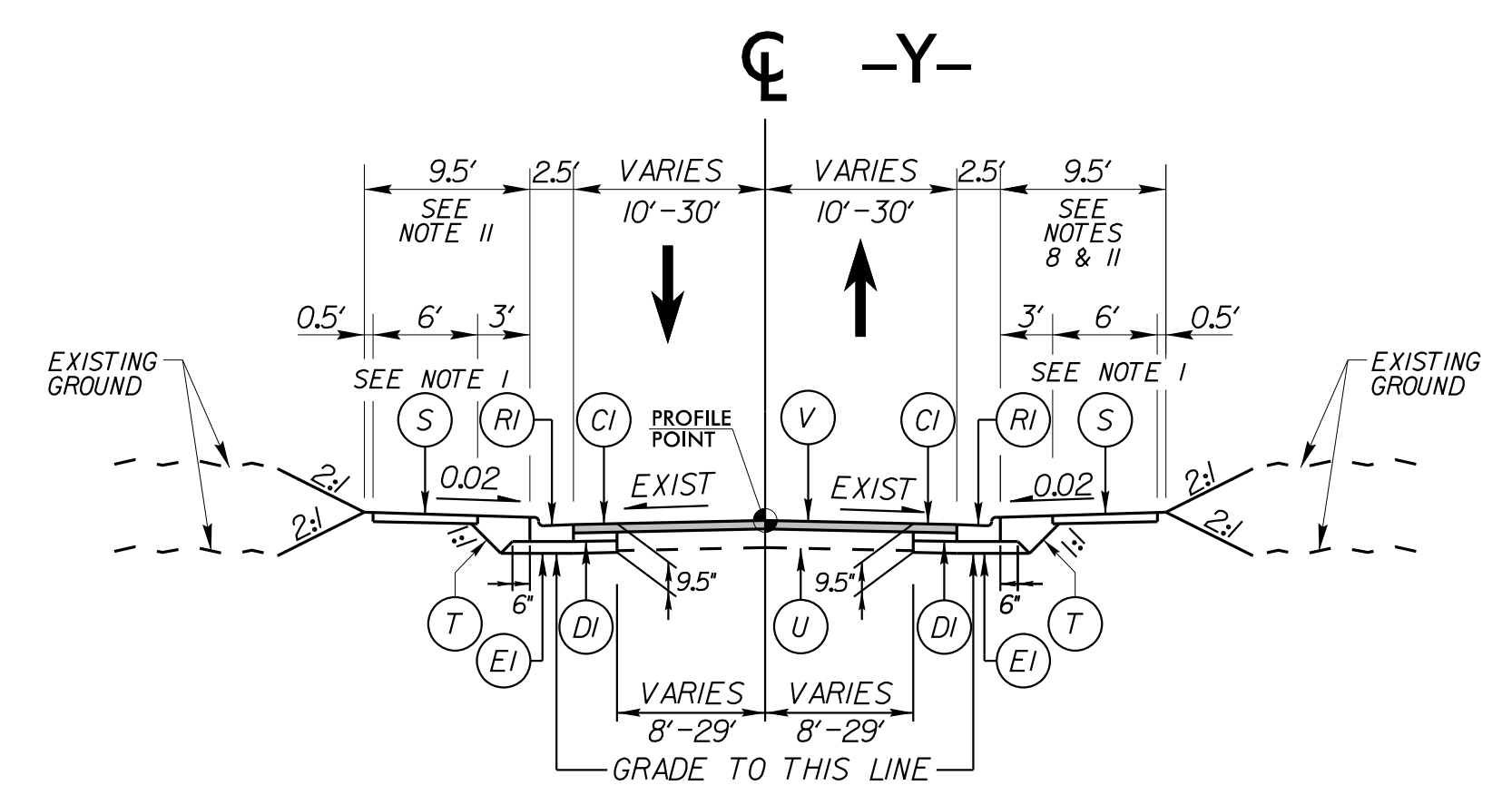
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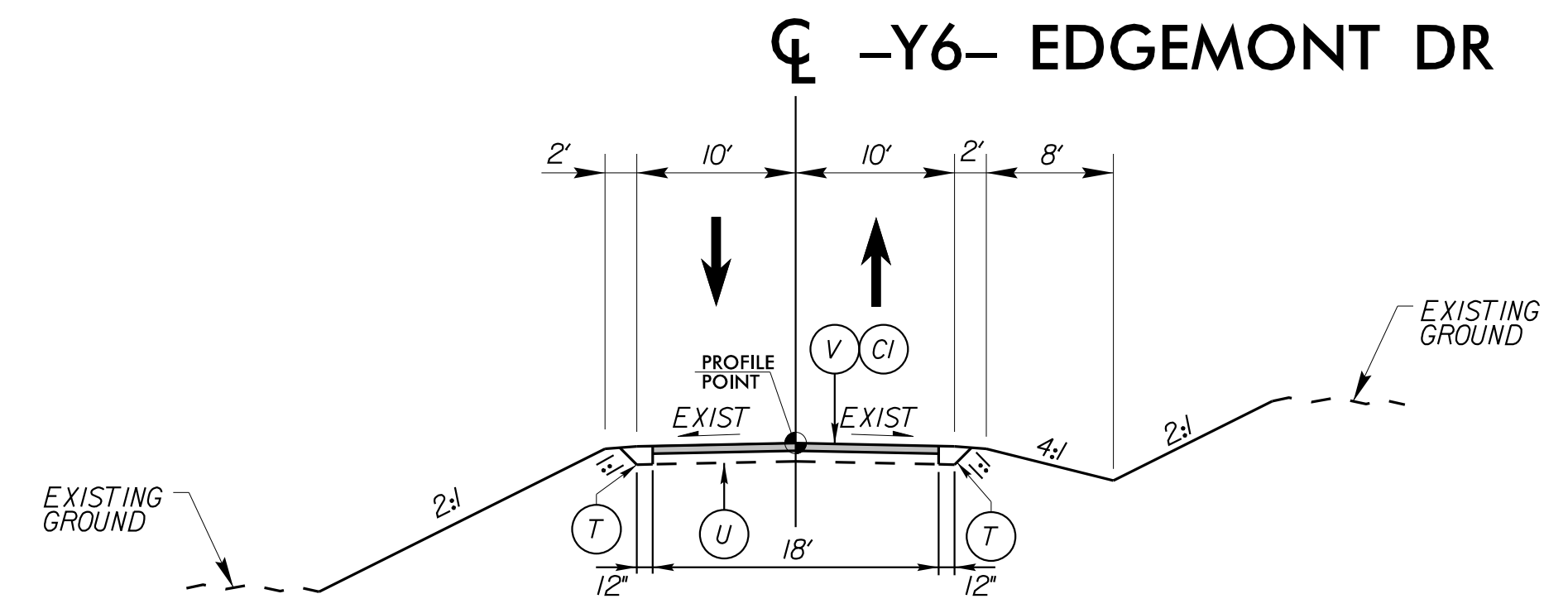
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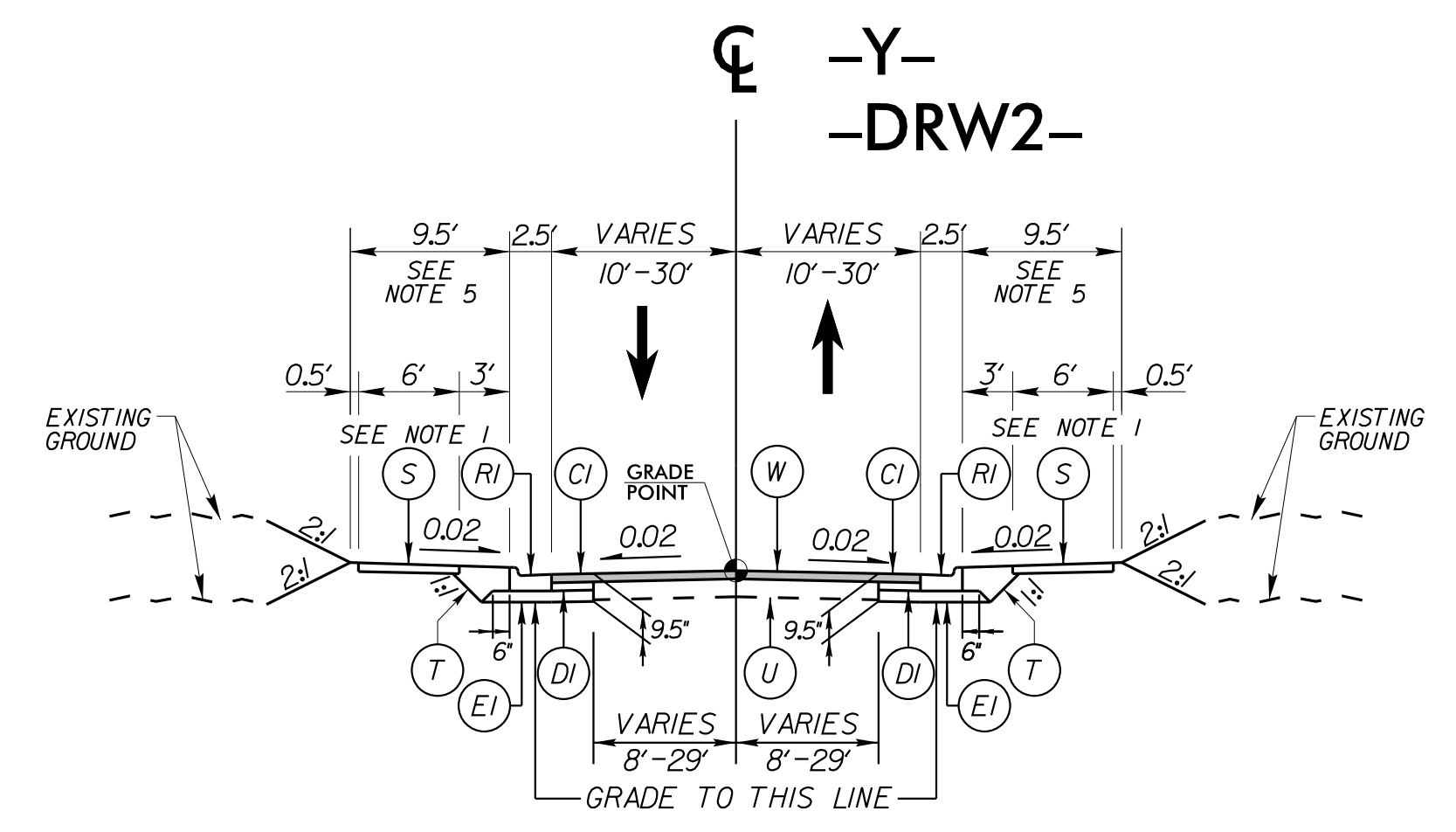
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 -Y2- STA 12+04.64 TO 13+45.00



TYPICAL SECTION NO. 8
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 -Y4- STA 10+50.00 TO 10+93.48
 -Y5- STA 10+16.50 TO 10+57.00
 -Y6- STA 12+10.33 TO 12+67.44
 -Y7- STA 10+16.64 TO 11+31.00
 -Y8- STA 10+16.58 TO 10+72.00
 -Y10- STA 11+00.00 TO 11+53.50
 -Y11- STA 10+70.00 TO 11+38.50
 -Y19- STA 10+16.50 TO 10+67.00



TYPICAL SECTION NO. 9
 -Y6- STA 12+00.00 TO 12+10.33



TYPICAL SECTION NO. 10
 -Y12- STA 10+20.00 TO 11+09.03
 -Y12- STA 11+46.16 TO 12+32.00
 -Y13- STA 10+18.51 TO 10+92.00
 -Y14- STA 11+72.41 TO 11+96.49
 -Y15- STA 10+18.50 TO 10+85.00
 -Y16- STA 11+39.00 TO 11+92.04
 -Y17- STA 10+18.22 TO 11+05.00
 -Y18- STA 11+00.00 TO 12+85.00
 -DRW2- STA 10+19.97 TO 11+12.00

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W	WEDGING DETAIL FOR RESURFACING

- NOTES:**
- SEE PLANS FOR SPECIFIC SIDEWALK LOCATIONS.
 - SAWCUT AND REMOVE EXIST ASPHALT PAVEMENT TO PROVIDE 1" MINIMUM WIDTH OF FULL DEPTH PAVEMENT. SEE "MILLING AND SAWCUT DIMENSION DETAIL" ON SHEET 2A-3.
 - WEDGE EXISTING ASPHALT PAVEMENT PER DETAIL (SHEET 2A-2) TO ESTABLISH 6% MAXIMUM SUPERELEVATION. SEE PLANS FOR LOCATIONS.
 - CONCRETE SIDEWALK SHALL BE 6" ACROSS DRIVEWAYS.
 - SEE PLANS FOR RETAINING WALL LOCATIONS.
 - USE J2 SECTION WHERE PAVEMENT WIDENING IS GREATER THAN 6'.
 - SEE CROSS-SECTIONS FOR CROSS-SLOPES AND CUT AND FILL SLOPES.
 - RETAIN EXIST 2'-6" C&G AND CONCRETE SIDEWALK FROM -Y7- STA 10+85.00 TO 11+31.00 (RT). RETAIN EXIST CURB & GUTTER AND SIDEWALK FROM -L- STA 100+00.00 TO 100+25.00 (LT).
 - MILL EXISTING ASPHALT PAVEMENT TO A DEPTH THAT ALLOWS THE MINIMUM SURFACE COURSE DEPTH.
 - USE 4" BERM ON -Y4-, -Y6-, -Y10-, -Y11-, -Y13-, -Y16-, -Y17-, AND -Y20-.
 - PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
 - SEE BERM SLOPE TABLE FOR LOCATIONS THAT VARY. POSITIVE SLOPES DRAIN TOWARDS THE ROAD.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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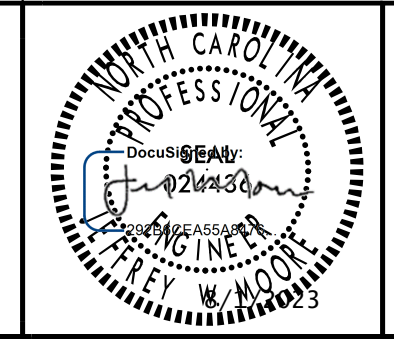
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City of Raleigh Development Approval

 Maria Hruschak
 City of Raleigh Review Officer

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NOT TO SCALE

TYPICAL SECTIONS

PROJECT:	BLUE RIDGE ROAD WIDENING	
JOB NUMBER:	011063094	SHEET NUMBER: 2A-5

PREPARED IN THE OFFICE OF:

Kimley » Horn

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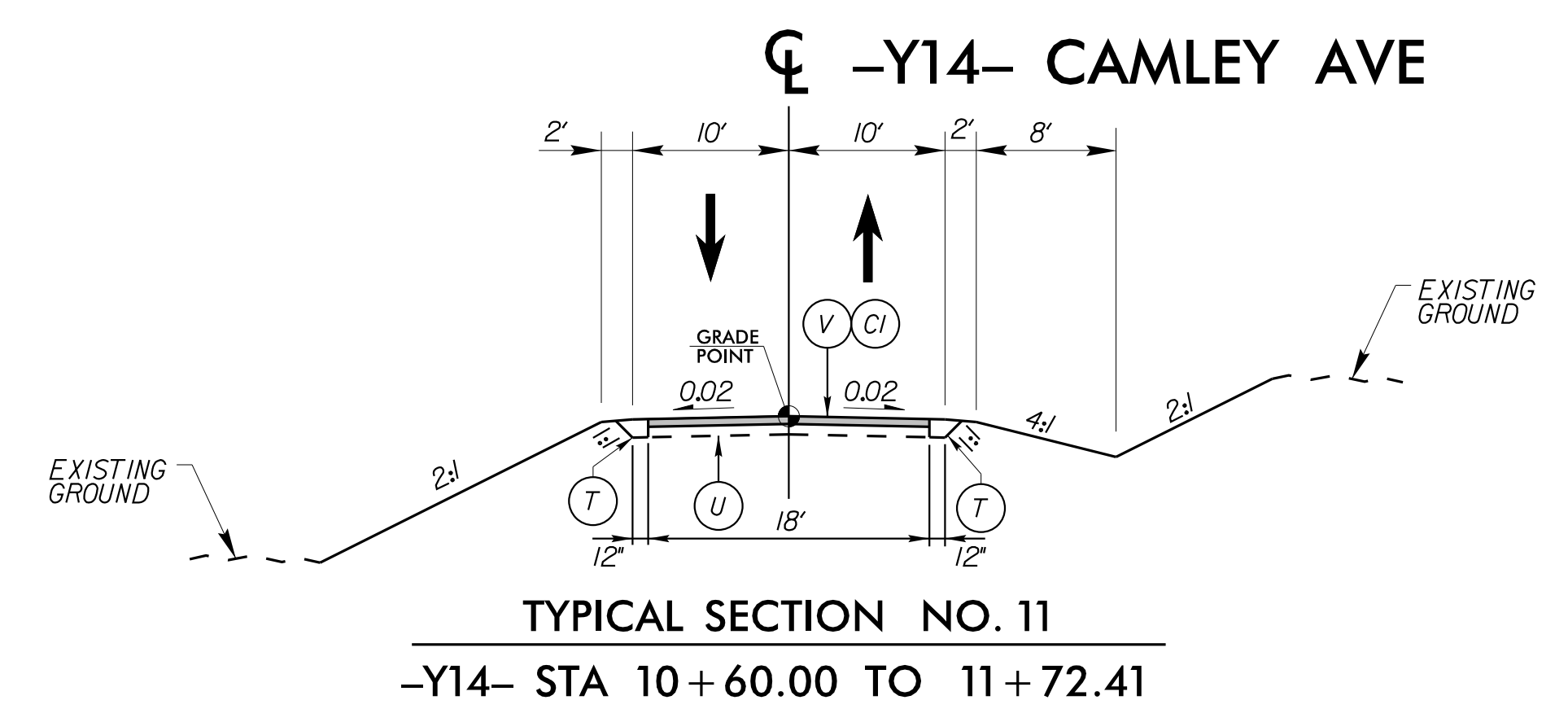
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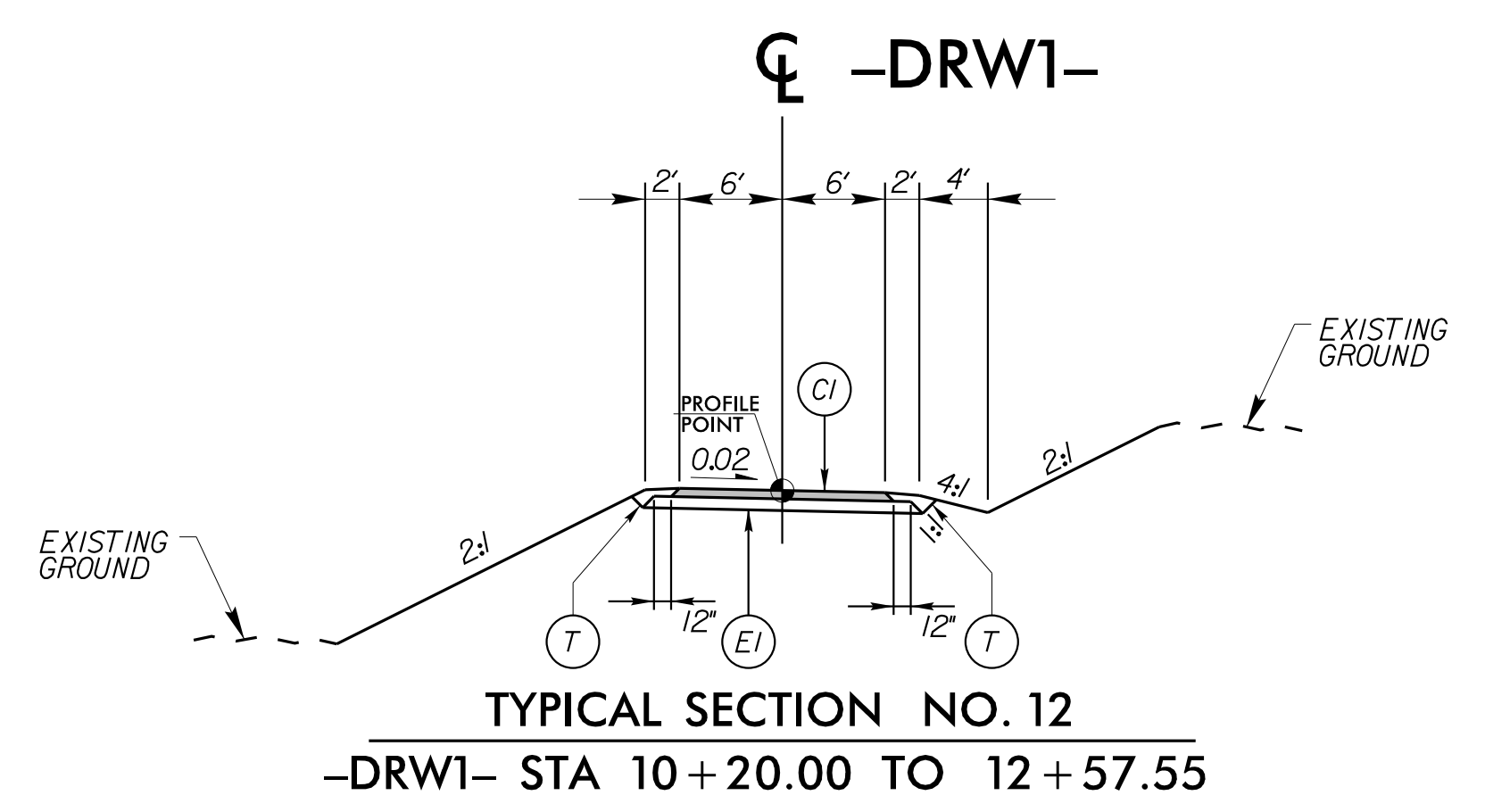
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5/1/2023



TYPICAL SECTION NO. 11
-Y14- STA 10+60.00 TO 11+72.41



TYPICAL SECTION NO. 12
-DRW1- STA 10+20.00 TO 12+57.55

PAVEMENT SCHEDULE	
A1	PROPOSED 8" PORTLAND CEMENT CONCRETE PAVEMENT (WITHOUT DOWELS)
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROPOSED VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5 1/2" IN DEPTH.
J1	PROPOSED 6" AGGREGATE BASE COURSE
J2	PROPOSED 8" AGGREGATE BASE COURSE
R1	PROPOSED 2'-6" CURB AND GUTTER
R2	PROPOSED 1'-6" CURB AND GUTTER
R3	PROPOSED 5' MONOLITHIC CONCRETE ISLAND (KEYED-IN)
R4	PROPOSED 8" X 18" CONCRETE CURB
S	PROPOSED 4" CONCRETE SIDEWALK
T	PROPOSED COMPACTED EARTH MATERIAL
U	EXISTING ASPHALT PAVEMENT
V	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
W	WEDGING DETAIL FOR RESURFACING

- NOTES:**
- SEE PLANS FOR SPECIFIC SIDEWALK LOCATIONS.
 - SAWCUT AND REMOVE EXIST ASPHALT PAVEMENT TO PROVIDE 1' MINIMUM WIDTH OF FULL DEPTH PAVEMENT. SEE "MILLING AND SAWCUT DIMENSION DETAIL" ON SHEET 2A-2) TO ESTABLISH 6% MAXIMUM SUPERELEVATION. SEE PLANS FOR LOCATIONS.
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 - SEE BERM SLOPE TABLE FOR LOCATIONS THAT VARY. POSITIVE SLOPES DRAIN TOWARDS THE ROAD.

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TYPICAL SECTIONS

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PROJECT:	BLUE RIDGE ROAD WIDENING	
JOB NUMBER:	011063094	SHEET NUMBER: 2A-6

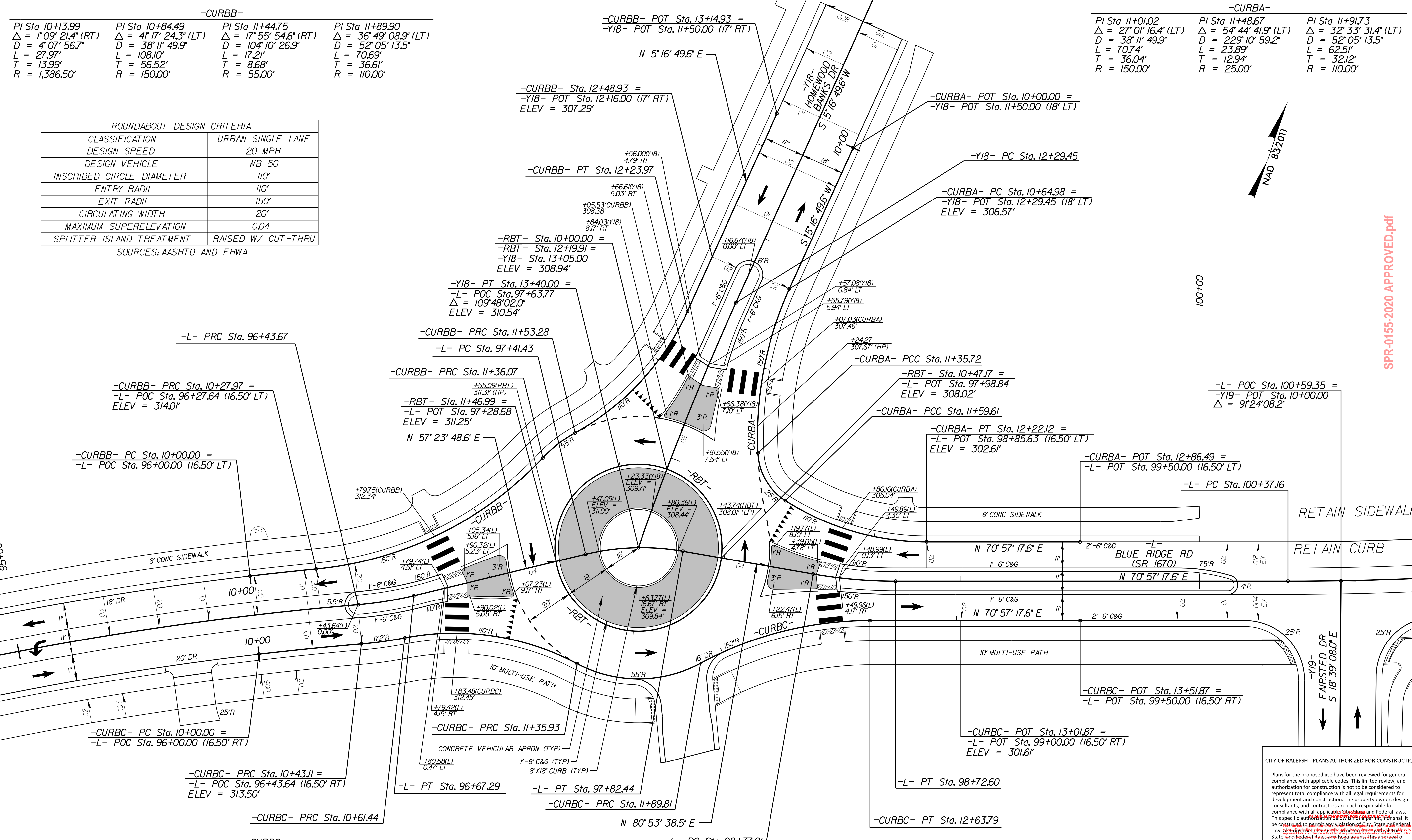
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
Mikela Hirschfeld
City of Raleigh Review Officer



-CURBB-

PI Sta 10+13.99 Δ = 1°09' 21.4" (RT) D = 4°07' 56.7" L = 27.97' T = 13.99' R = 1,386.50'	PI Sta 10+84.49 Δ = 4°17' 24.3" (LT) D = 38°11' 49.9" L = 108.10' T = 56.52' R = 150.00'	PI Sta 11+44.75 Δ = 17°55' 54.6" (RT) D = 104°10' 26.9" L = 17.21' T = 8.68' R = 55.00'	PI Sta 11+89.90 Δ = 36°49' 08.9" (LT) D = 52°05' 13.5" L = 70.69' T = 36.61' R = 110.00'
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-CURBA-

PI Sta 11+01.02 Δ = 27°01' 16.4" (LT) D = 38°11' 49.9" L = 70.74' T = 36.04' R = 150.00'	PI Sta 11+48.67 Δ = 54°44' 41.9" (LT) D = 229°10' 59.2" L = 23.89' T = 12.94' R = 25.00'	PI Sta 11+91.73 Δ = 32°33' 31.4" (LT) D = 52°05' 13.5" L = 62.51' T = 32.12' R = 110.00'
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ROUNDABOUT DESIGN CRITERIA

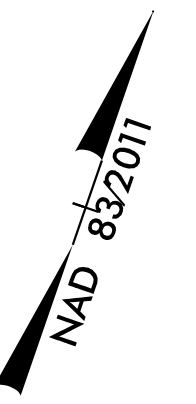
CLASSIFICATION	URBAN SINGLE LANE
DESIGN SPEED	20 MPH
DESIGN VEHICLE	WB-50
INSCRIBED CIRCLE DIAMETER	110'
ENTRY RADII	110'
EXIT RADII	150'
CIRCULATING WIDTH	20'
MAXIMUM SUPERELEVATION	0.04
SPLITTER ISLAND TREATMENT	RAISED W/ CUT-THRU

SOURCES: AASHTO AND FHWA

-CURBC-

PI Sta 10+21.56 Δ = 1°49' 30.3" (RT) D = 4°13' 59.4" L = 43.11' T = 21.56' R = 1,353.50'	PI Sta 10+52.28 Δ = 6°06' 15.2" (LT) D = 33°18' 41.4" L = 18.32' T = 9.17' R = 172.00'	PI Sta 11+00.18 Δ = 38°48' 04.2" (RT) D = 52°05' 13.5" L = 74.49' T = 38.74' R = 110.00'	PI Sta 11+65.25 Δ = 56°07' 38.6" (LT) D = 104°10' 26.9" L = 53.88' T = 29.32' R = 55.00'	PI Sta 12+27.57 Δ = 28°15' 30.7" (RT) D = 38°11' 49.9" L = 73.98' T = 37.76' R = 150.00'
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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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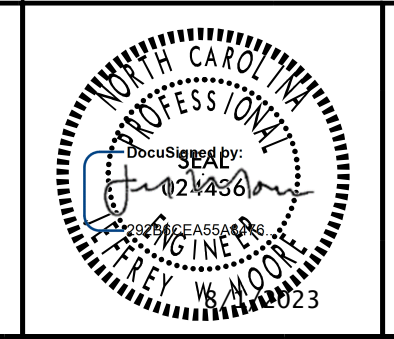
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City of Raleigh Development Approval: Review Officer

SEE SHEET 12 FOR PLAN
SEE SHEET 23 FOR -RBT-, -CURBA-,
-CURBB- AND -CURBC- PROFILES

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PROJECT: BLUE RIDGE ROAD WIDENING

JOB NUMBER: 011063094

SHEET NUMBER: 2B-1

PREPARED IN THE OFFICE OF:

Kimley » Horn

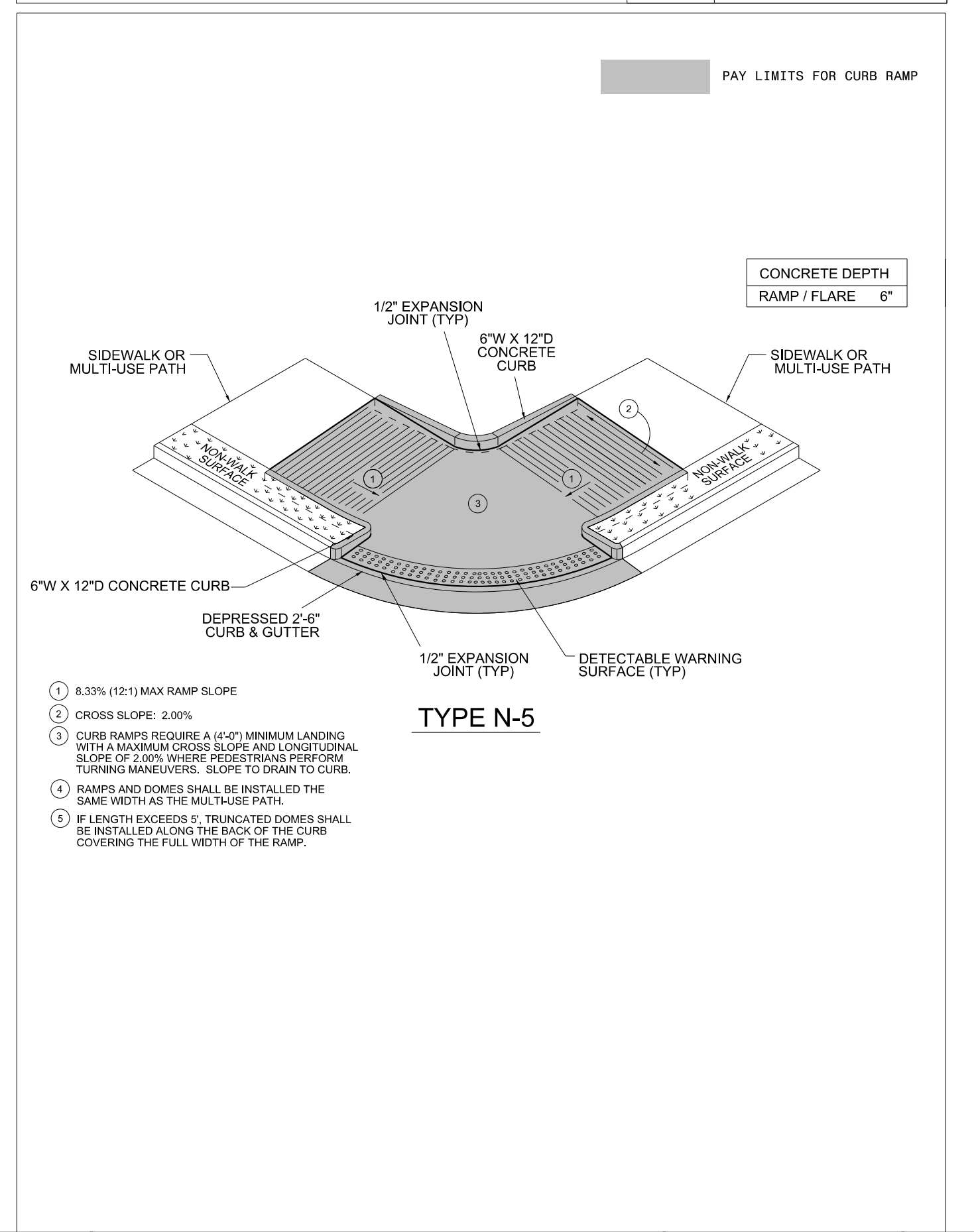
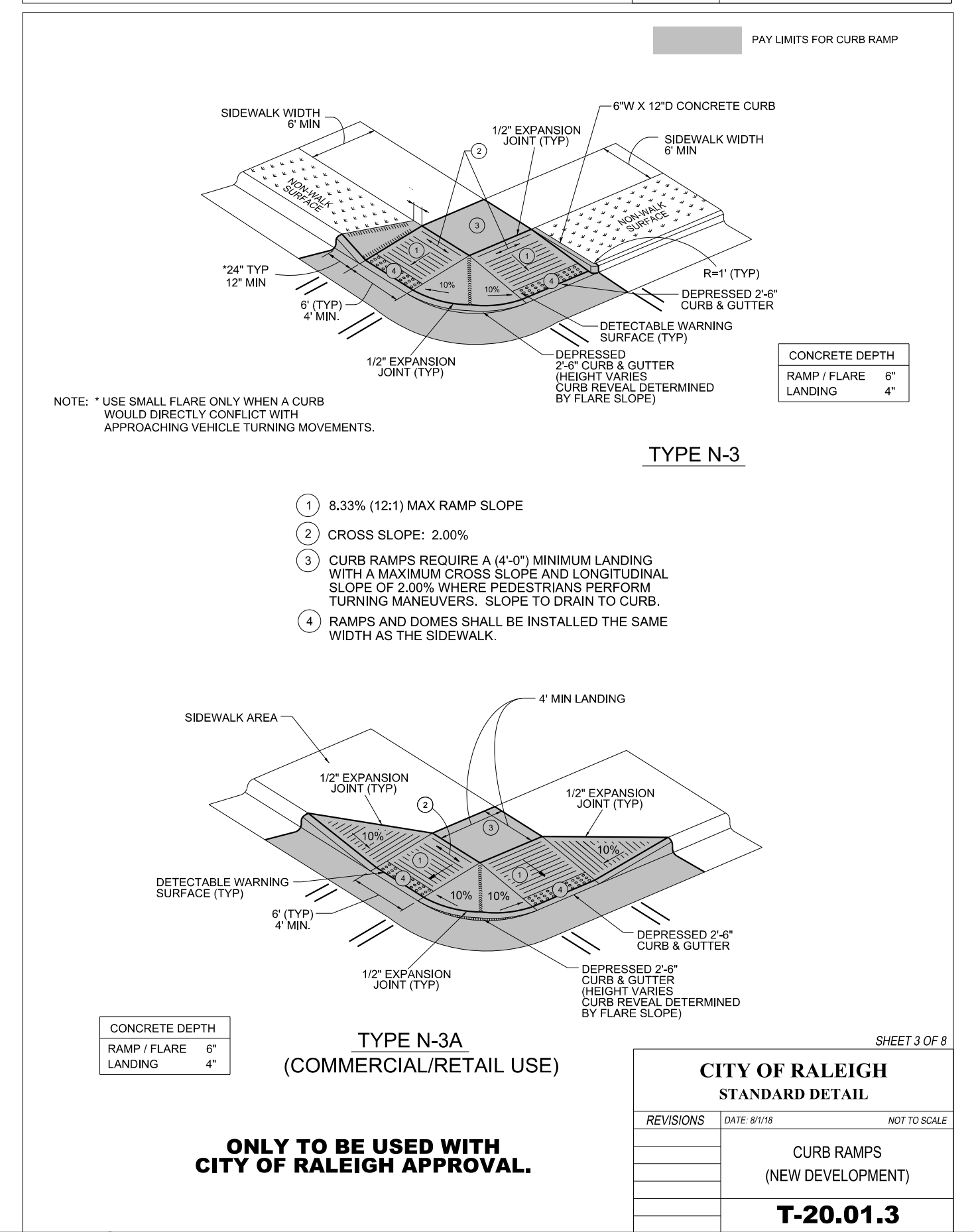
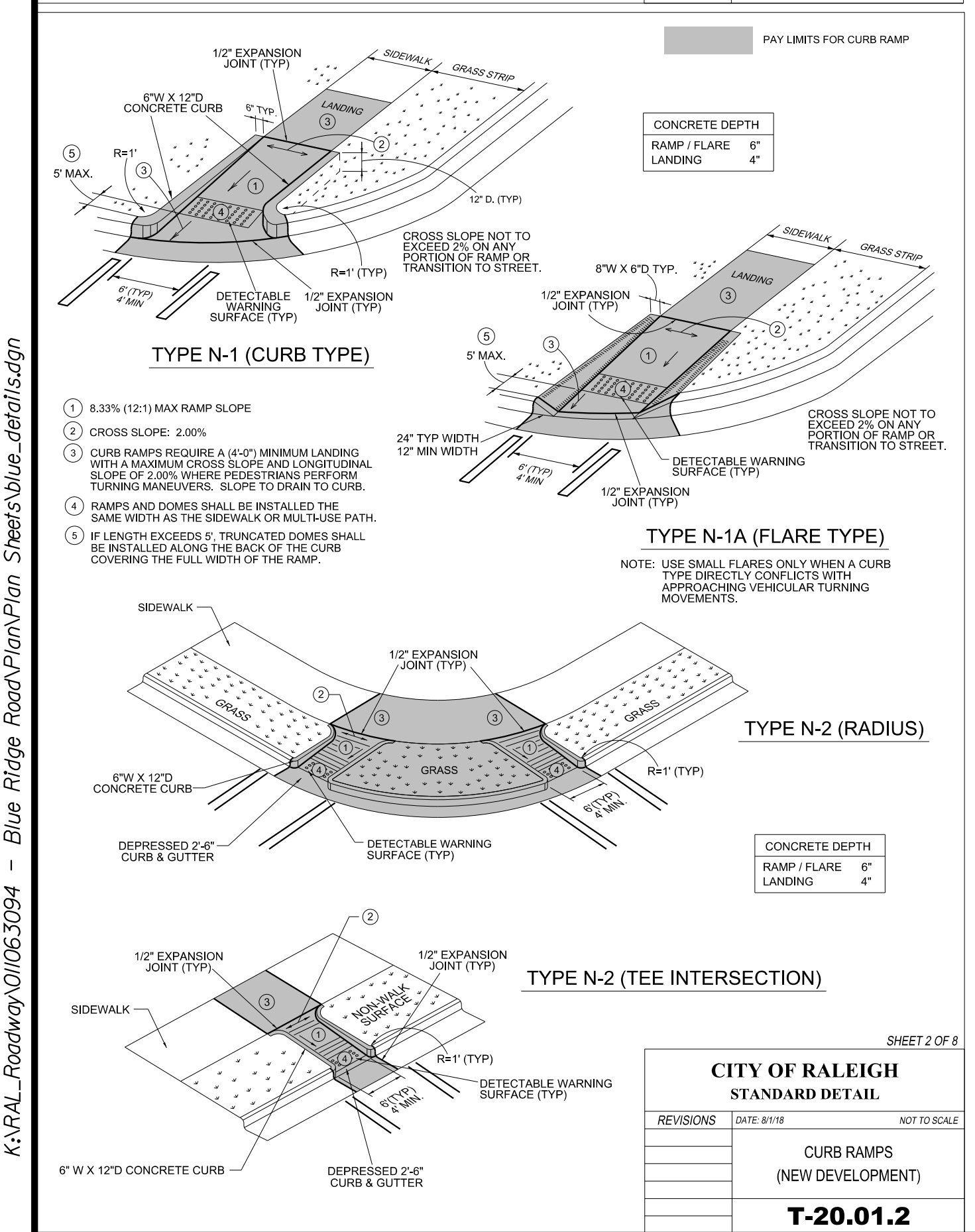
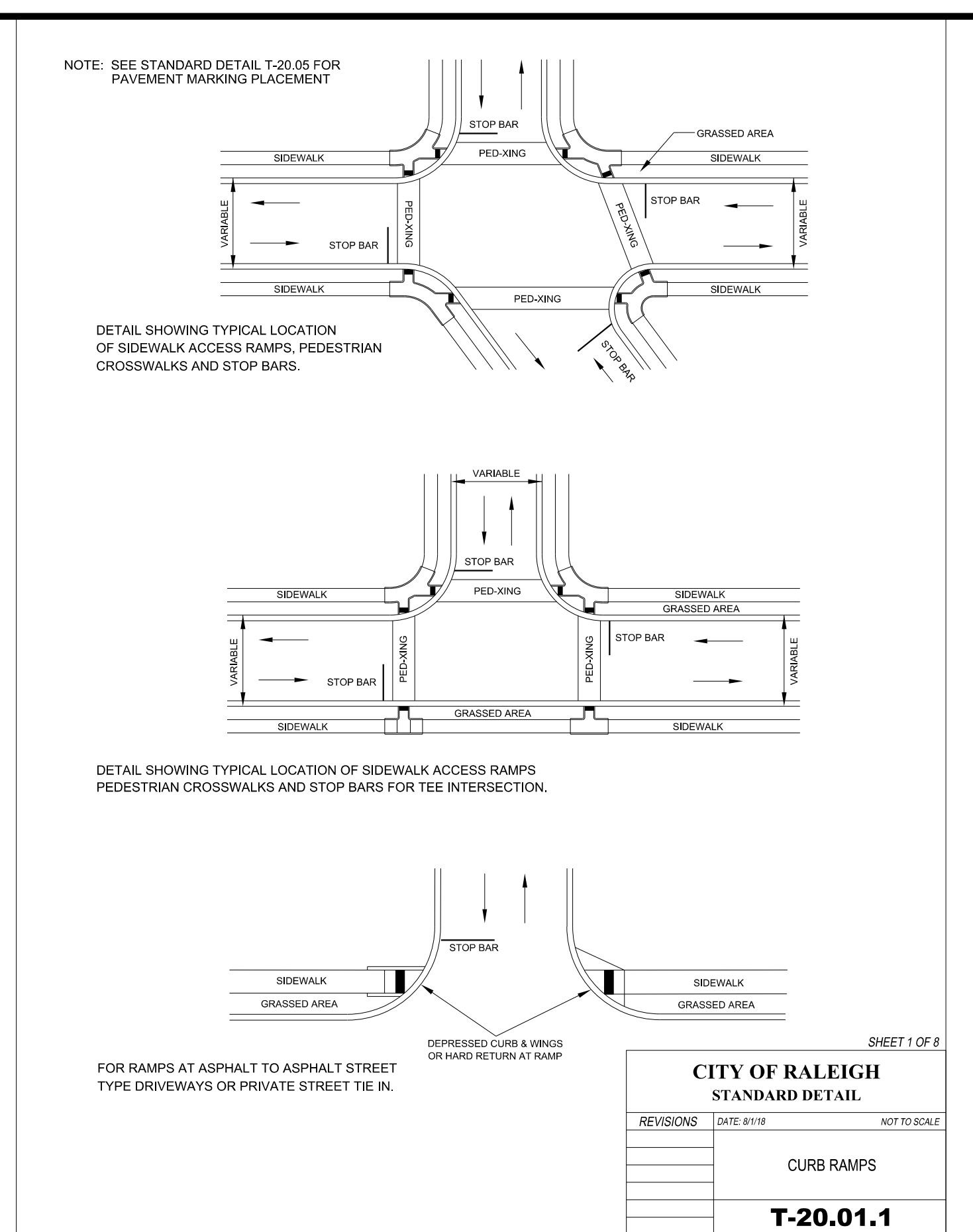
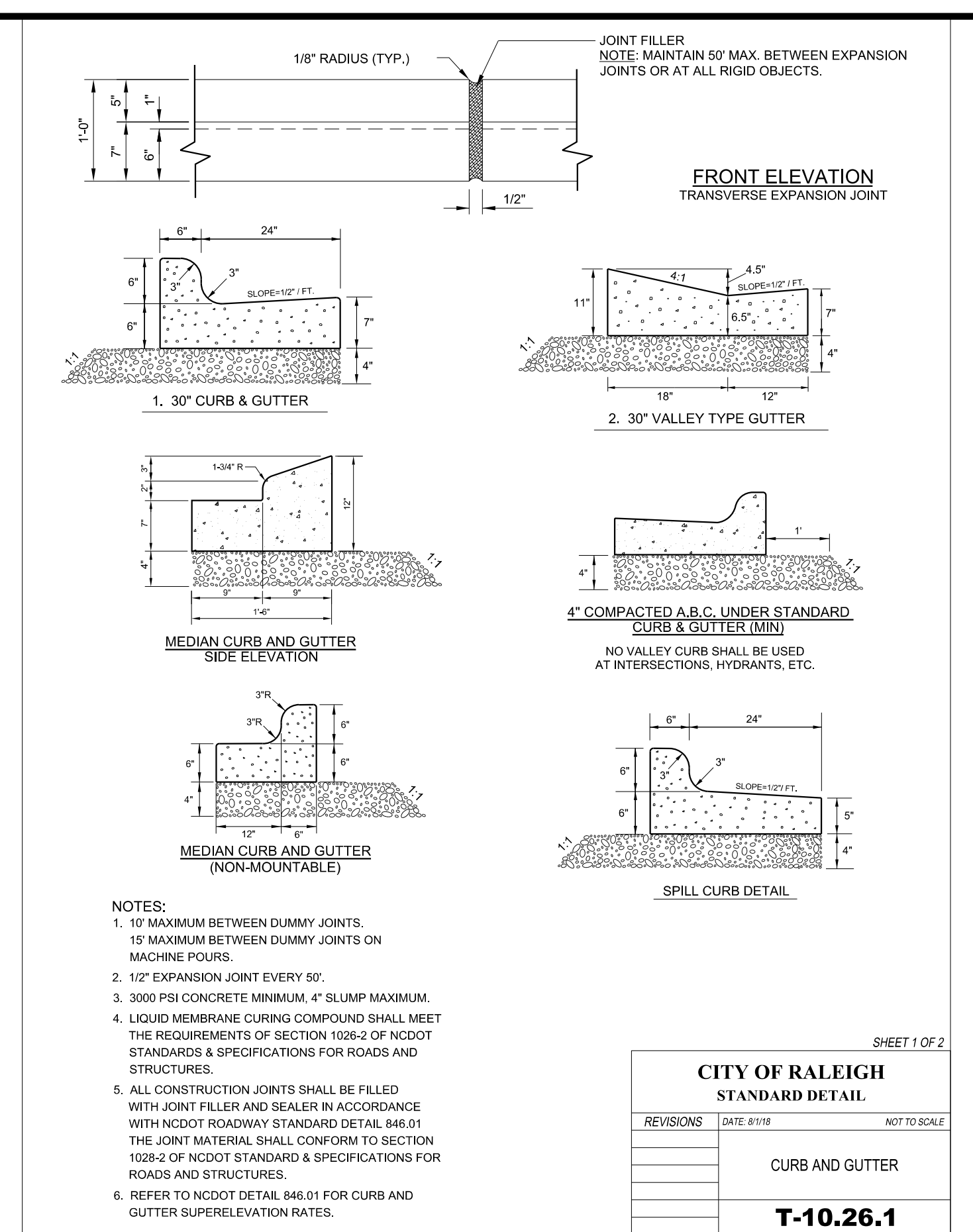
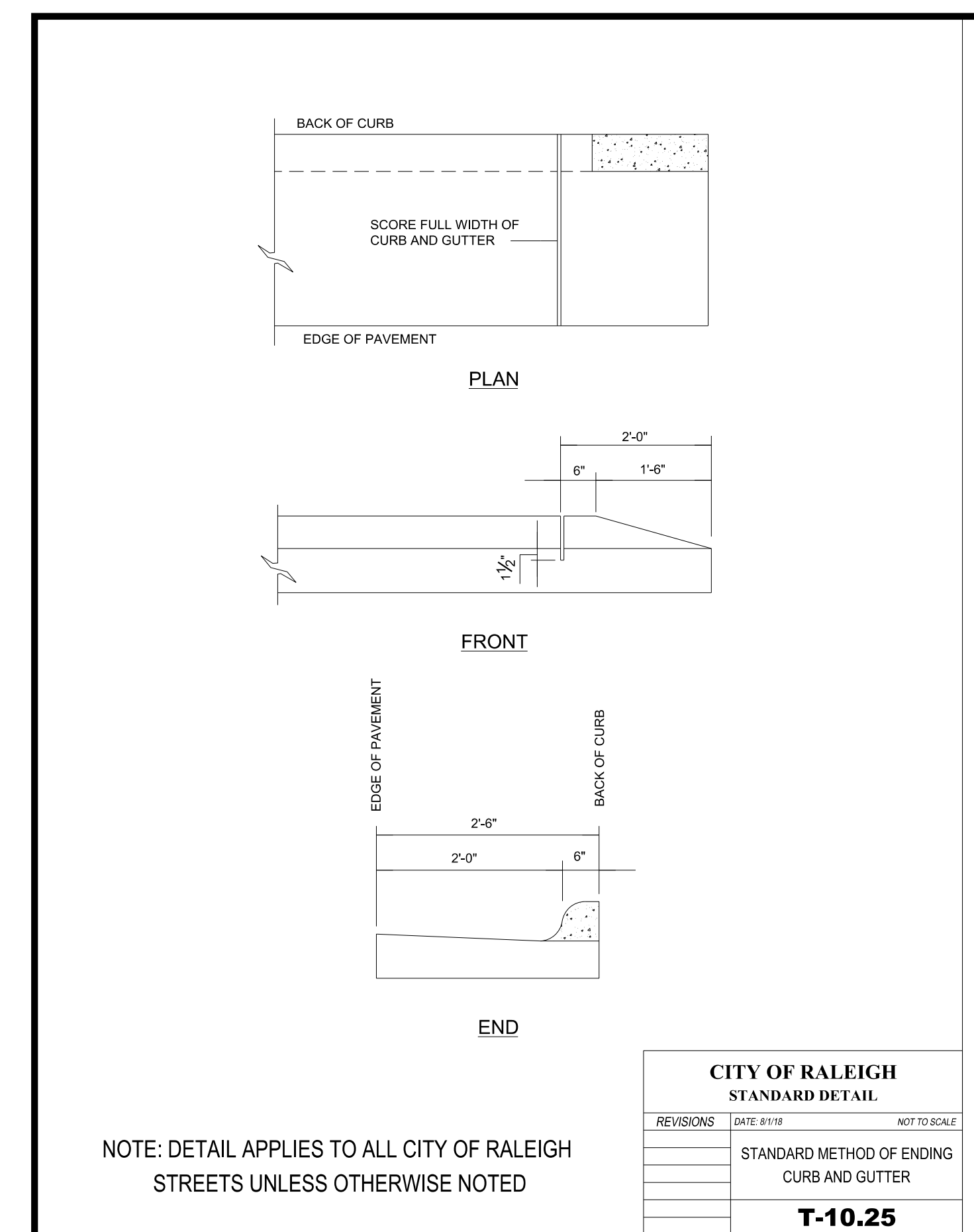
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ROADWAY DETAILS

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NOT TO SCALE

PROJECT:

BLUE RIDGE ROAD WIDENING

JOB NUMBER: 011063094

SHEET NUMBER: 2B-3

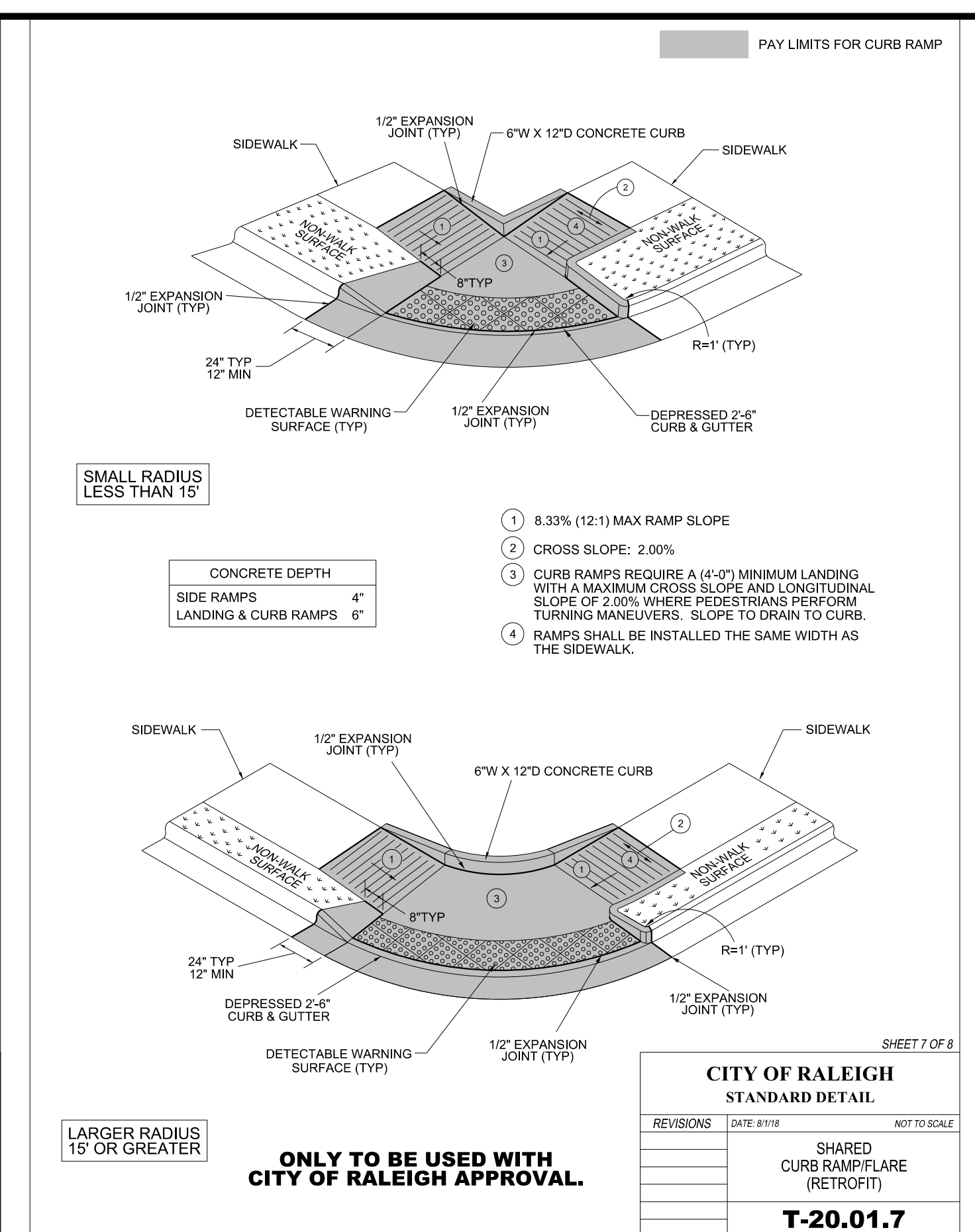
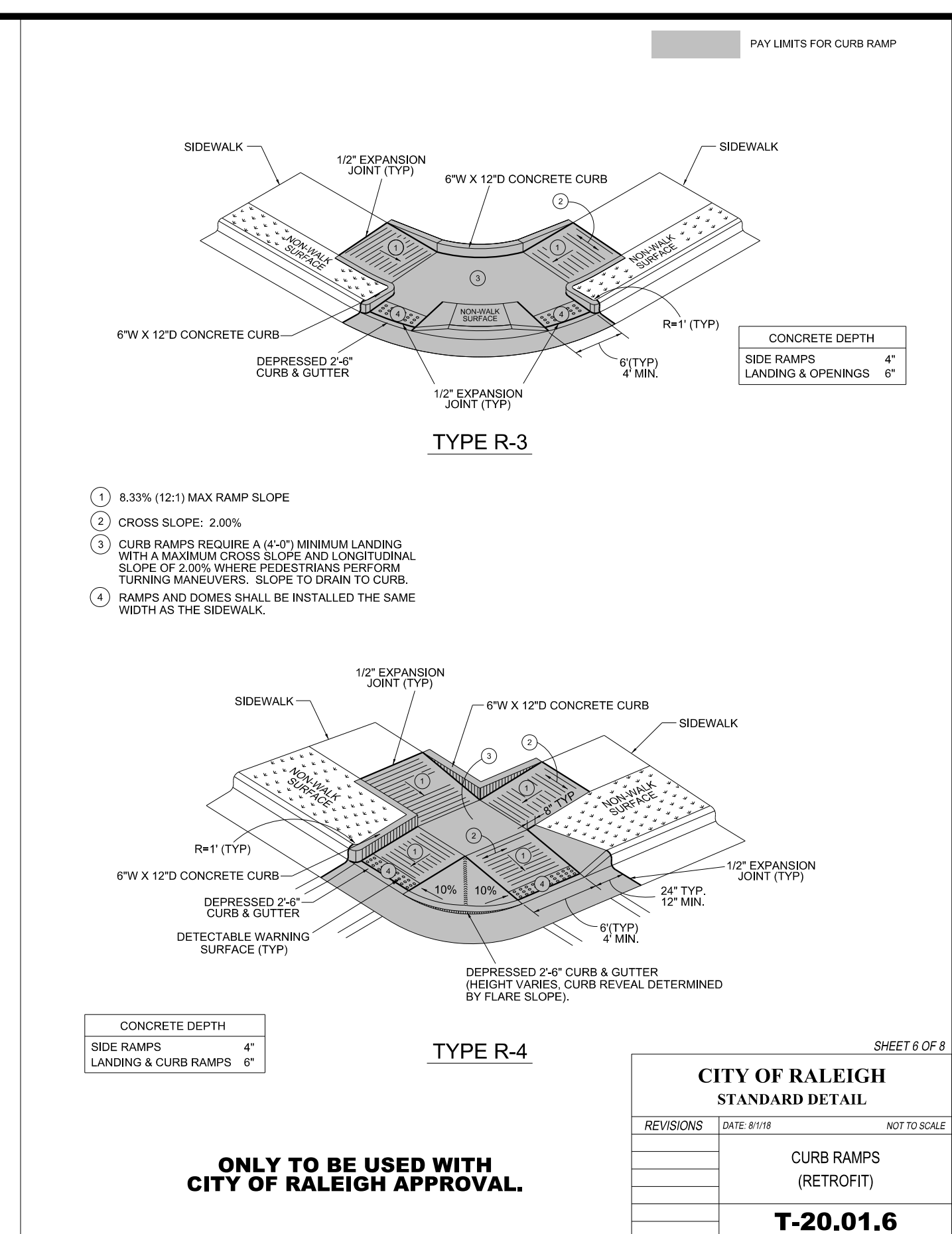
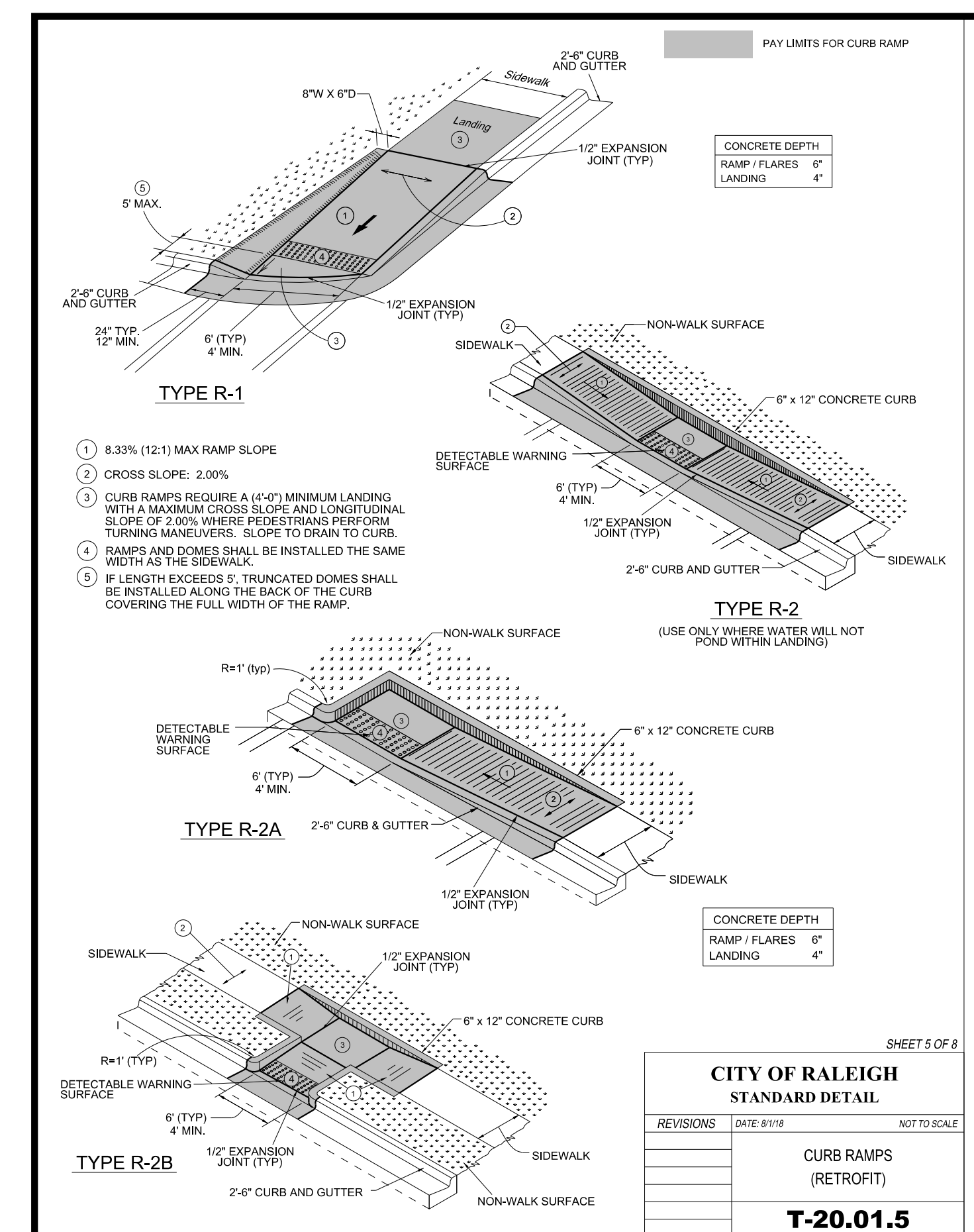
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City of Raleigh Development Approval

City of Raleigh Review Officer



CITY OF RALEIGH CURB RAMPS GENERAL NOTES

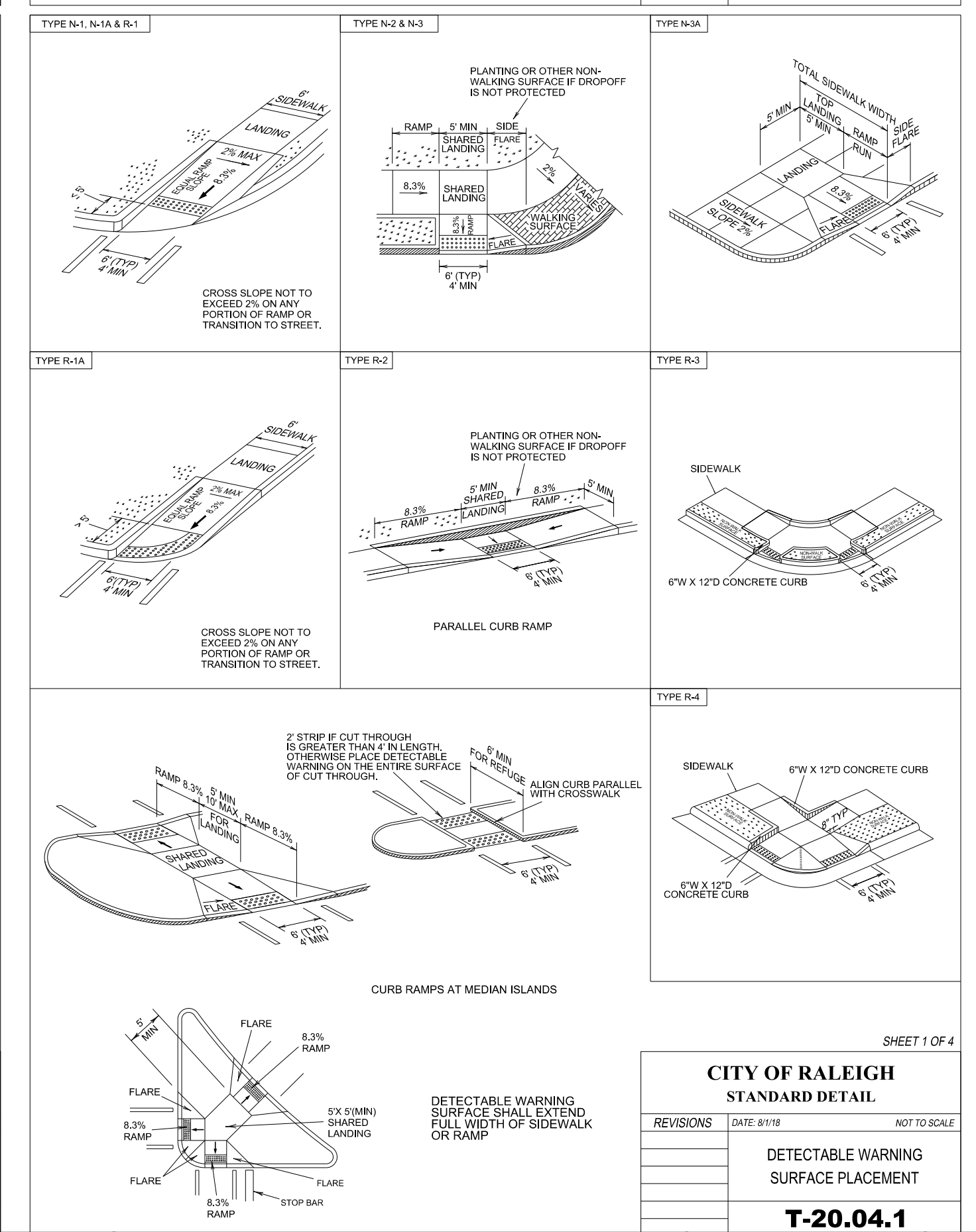
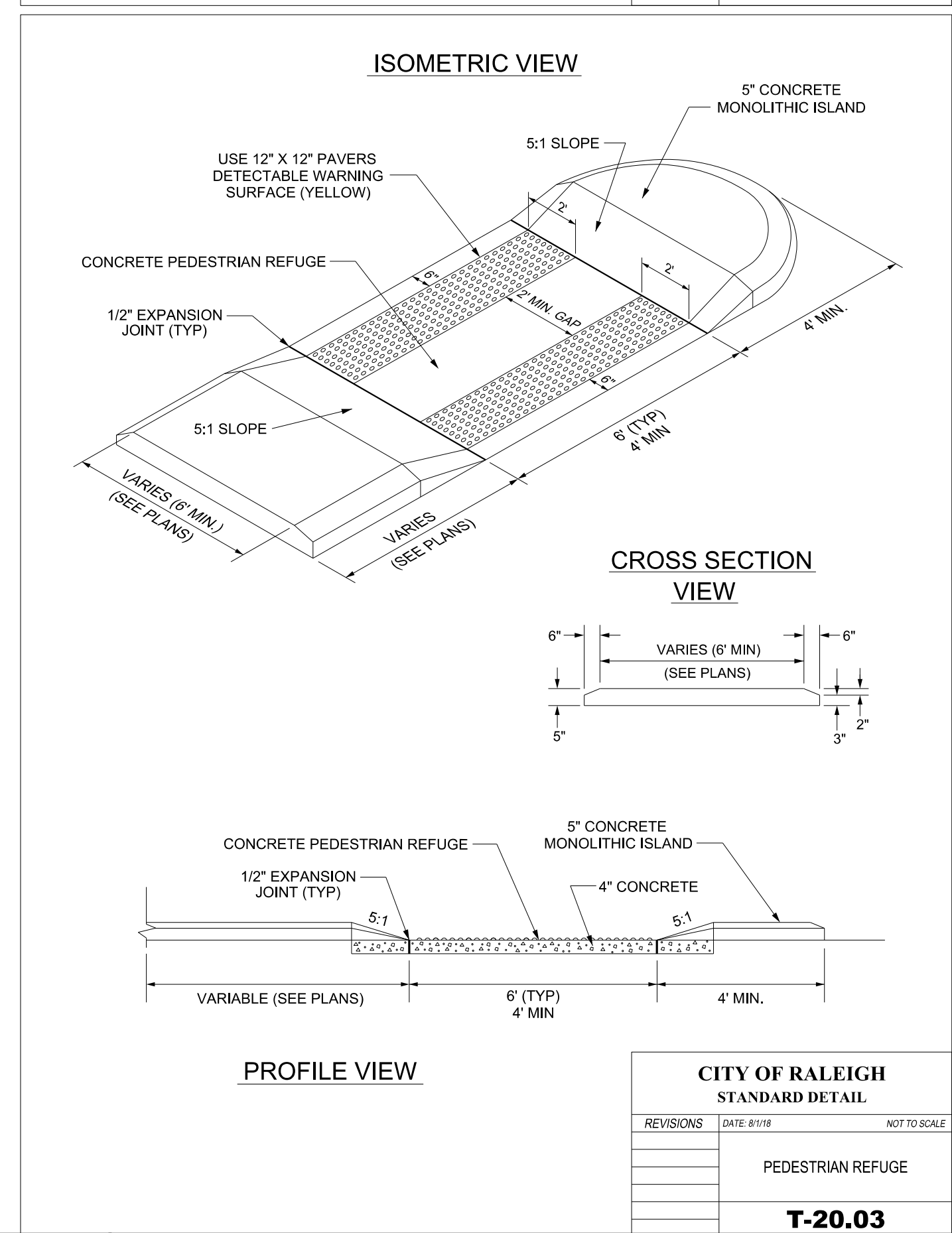
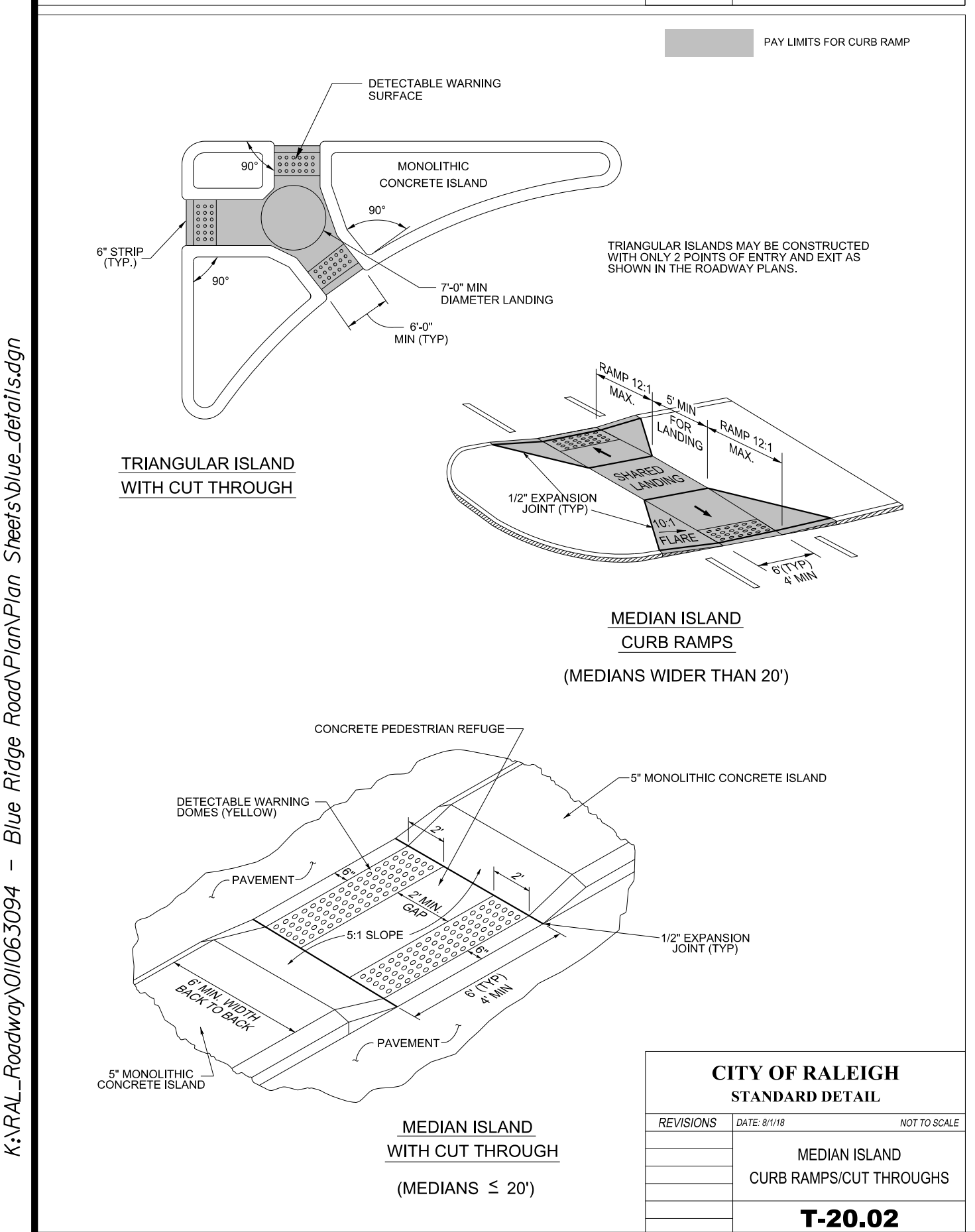
- CITY OF RALEIGH STANDARD CURB RAMPS HAVE BEEN DEVELOPED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND PUBLIC RIGHT OF WAY ACCESS GUIDELINES (PROWAG).
- CURB RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SIDEWALK ACCESS RAMPS SHALL BE LOCATED AS INDICATED IN THE DETAIL, HOWEVER, THE LOCATION MAY BE ADJUSTED IN COORDINATION WITH THE CITY OF RALEIGH WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT.
- DOUBLE WHEELCHAIR RAMPS ARE TO BE INSTALLED AT ALL PUBLIC STREET INTERSECTIONS WHERE SIDEWALK IS REQUIRED.
- THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.
- NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
- IN NO CASE SHALL THE WIDTH OF THE SIDEWALK ACCESS RAMP BE LESS THAN 48" ALL RAMPS SHALL BE INSTALLED THE SAME WIDTH AS THE SIDEWALK.
- USE CLASS A (3000 PSI) CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NONSKID SURFACE.
- A 1/2" EXPANSION JOINT INSTALLED FULL DEPTH WILL BE REQUIRED WHERE THE CONCRETE SIDEWALK ACCESS RAMP JOINS THE CURB AND ALSO WHERE NEW CONCRETE ABUTS EXISTING CONCRETE.
- CURB RAMPS SHOULD BE PLACED PARALLEL TO THE DIRECTION OF TRAVEL.

CITY OF RALEIGH STANDARD DETAIL

REVISIONS DATE: 8/1/18 NOT TO SCALE

CURB RAMP NOTES

T-20.01.8



NOTE: DETAILS PROVIDED BY THE CITY OF RALEIGH AND APPLY TO THE PROJECT (UNLESS OTHERWISE NOTED)

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City of Raleigh Development Approval: *Melissa Horvath*
City of Raleigh Development Officer

CITY OF RALEIGH STANDARD DETAIL

REVISIONS DATE: 8/1/18 NOT TO SCALE

DETECTABLE WARNING SURFACE PLACEMENT

T-20.04.1

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PREPARED IN THE OFFICE OF:

Kimley » Horn

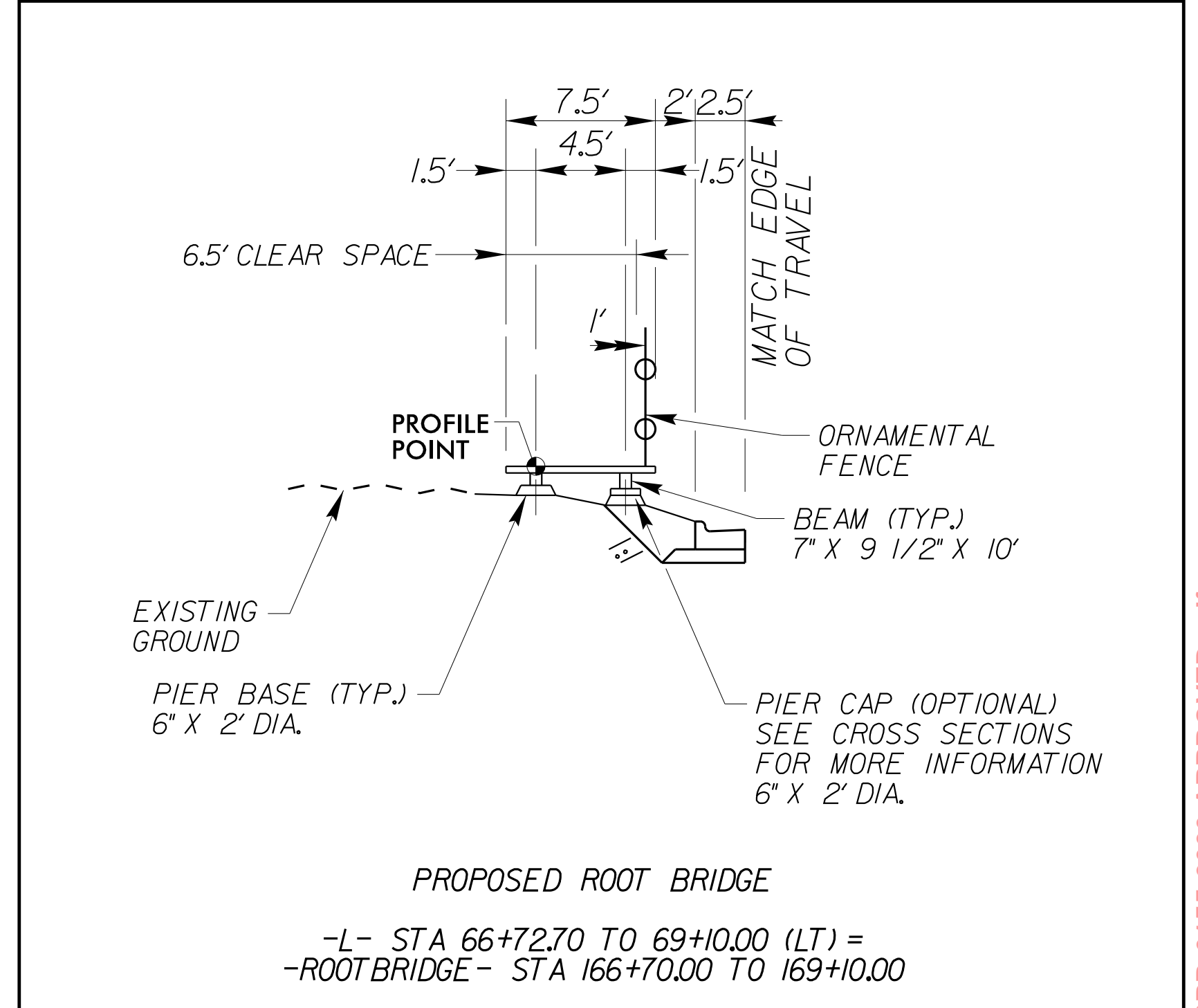
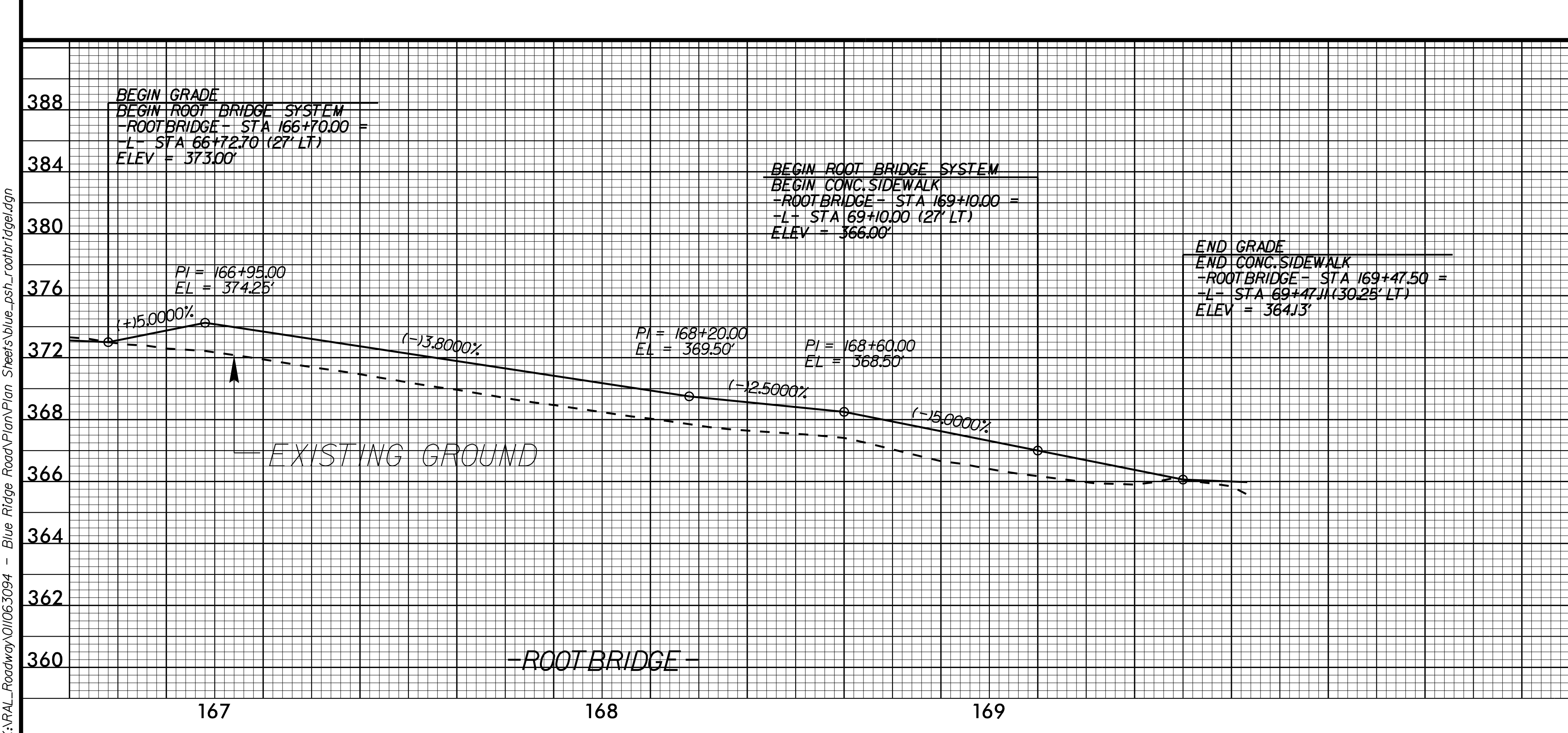
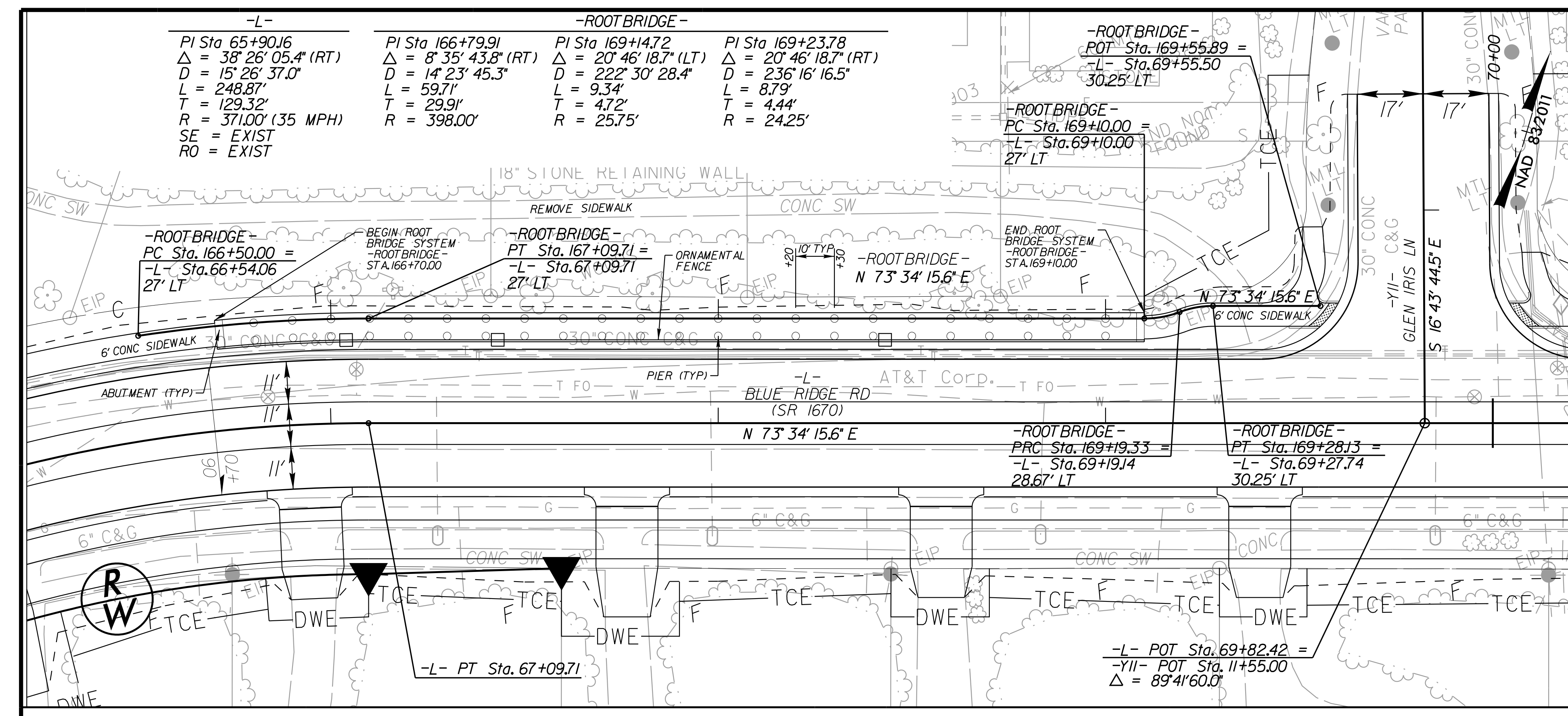
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ROADWAY DETAILS

NOT TO SCALE

PROJECT:	BLUE RIDGE ROAD WIDENING
JOB NUMBER:	011063094
SHEET NUMBER:	2B-4



ROOT BRIDGE TYPICAL SECTION NO. 1

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PROJECT: **BLUE RIDGE ROAD WIDENING**

JOB NUMBER: 011063094

SHEET NUMBER: 2B-6

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5/1/2023

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

ENGLISH DETAIL DRAWING FOR
SPECIAL CURB & GUTTER
2'-6"

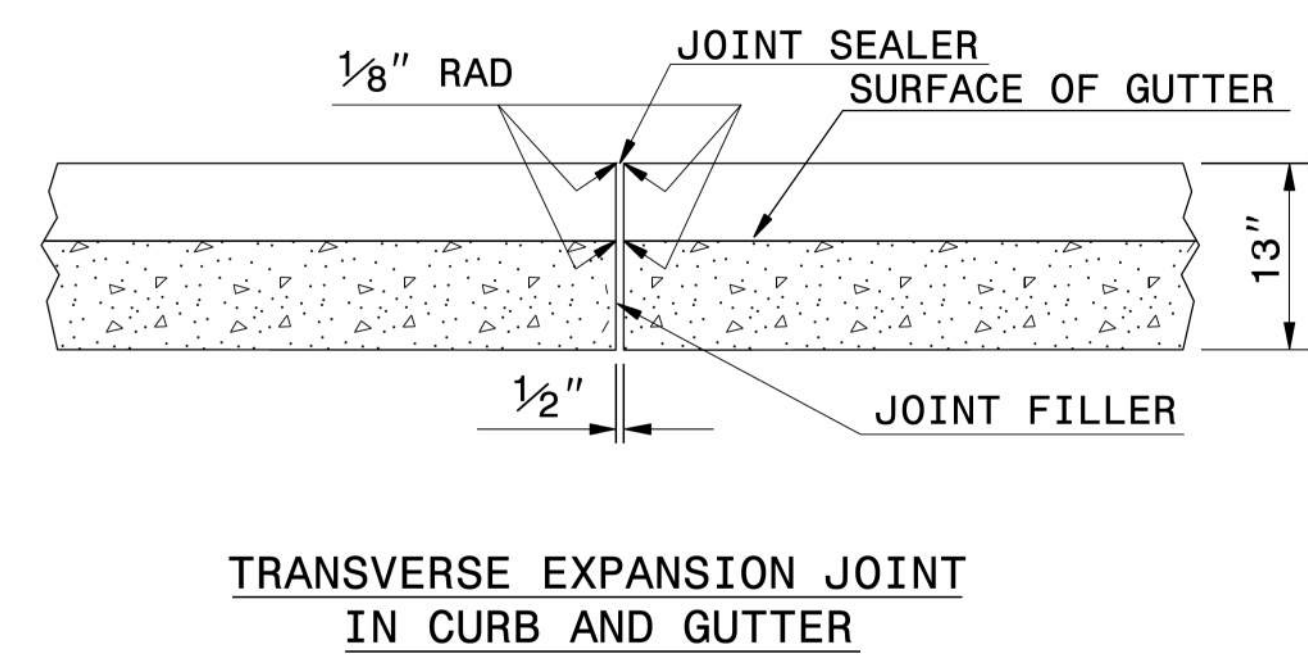
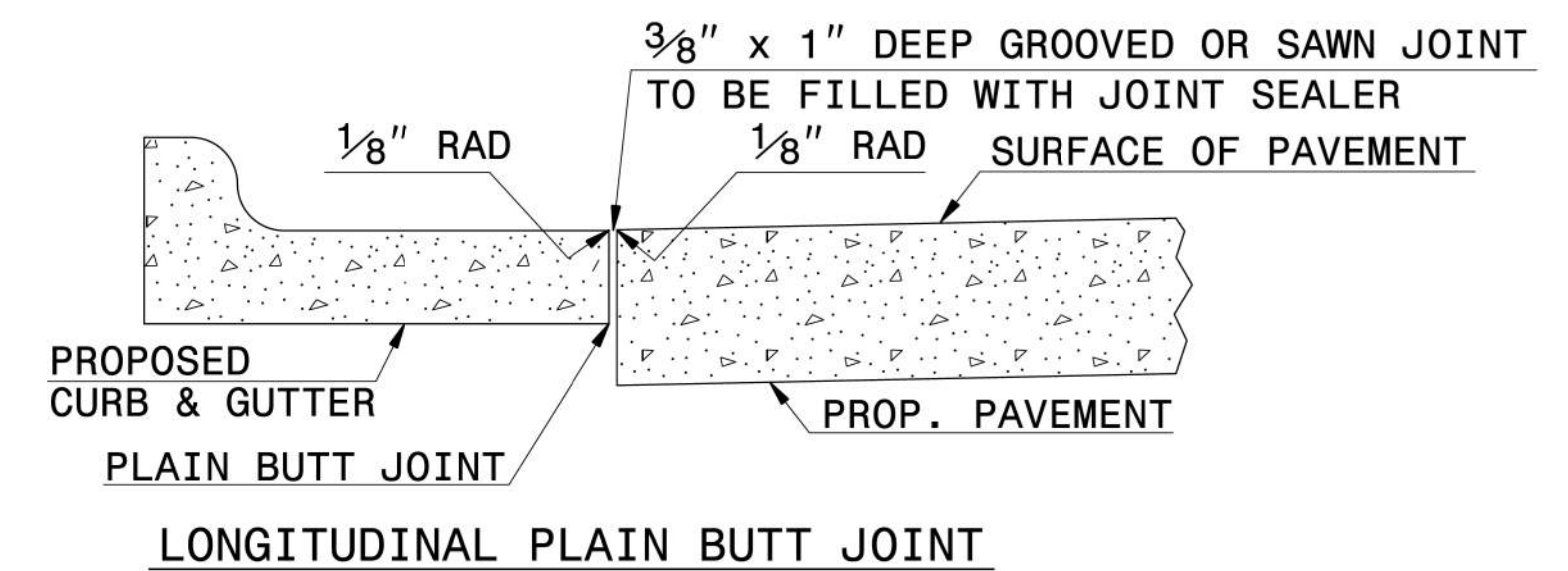
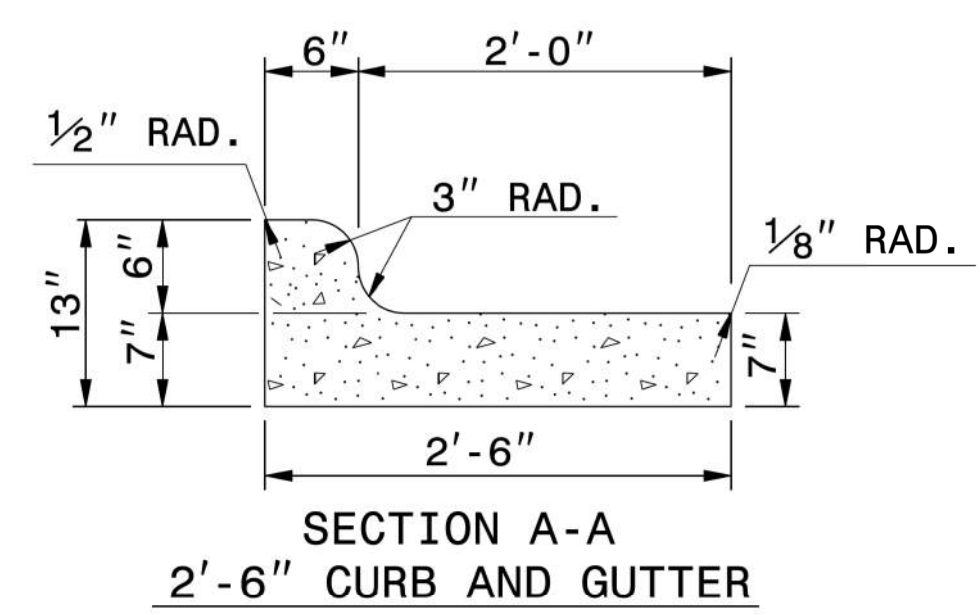
SHEET 1 OF 1
846d01

PROJECT REFERENCE NO. SHEET NO.

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

ENGLISH DETAIL DRAWING FOR
SPECIAL CURB & GUTTER
2'-6"

SHEET 1 OF 1
846d01



- 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, WITH JOINT FILLER AND SEALER.
 - SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: E.E. WARD DATE: MAY 1997
MODIFIED BY: K.A. KEMPf DATE: MAR 2015
CHECKED BY: DATE:
FILE SPEC.: k Kempf\english\B5121_846d01.dgn

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NOTE: DETAIL PROVIDED BY NCDOT AND APPLIES TO THE PROJECT

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PROJECT: **BLUE RIDGE ROAD WIDENING**

JOB NUMBER: 011063094 SHEET NUMBER: 2C-1

REV. No. REVISION DATE DRAWN BY CHECKED BY

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Kimley » Horn

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SPECIAL DETAILS

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all requirements for development and construction. The property owner, design consultant, and contractor are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all local, State and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid. Do not alter or reuse. Any modification to the original file should use metadata file approval.

City of Raleigh Development Approval
City of Raleigh Review Officer
City of Raleigh Development Approval

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5/1/2023

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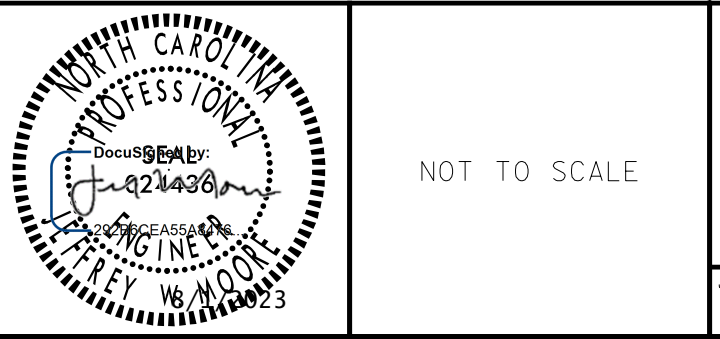
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SPECIAL DETAILS



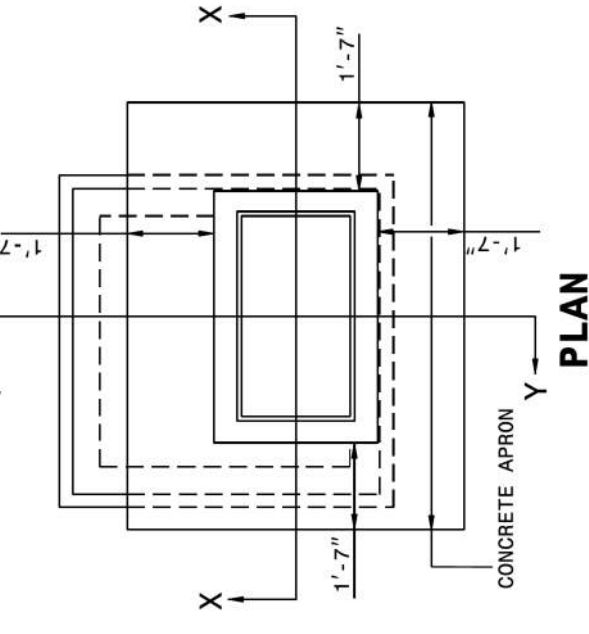
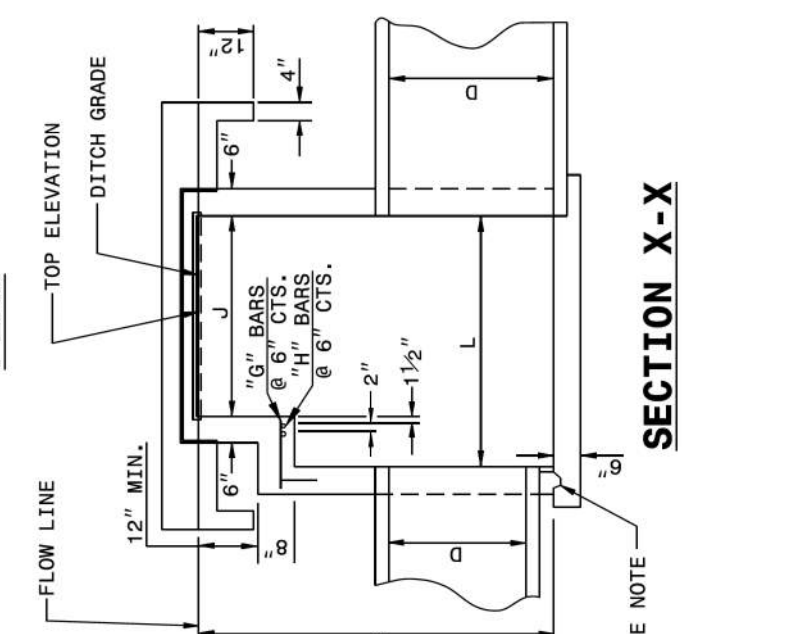
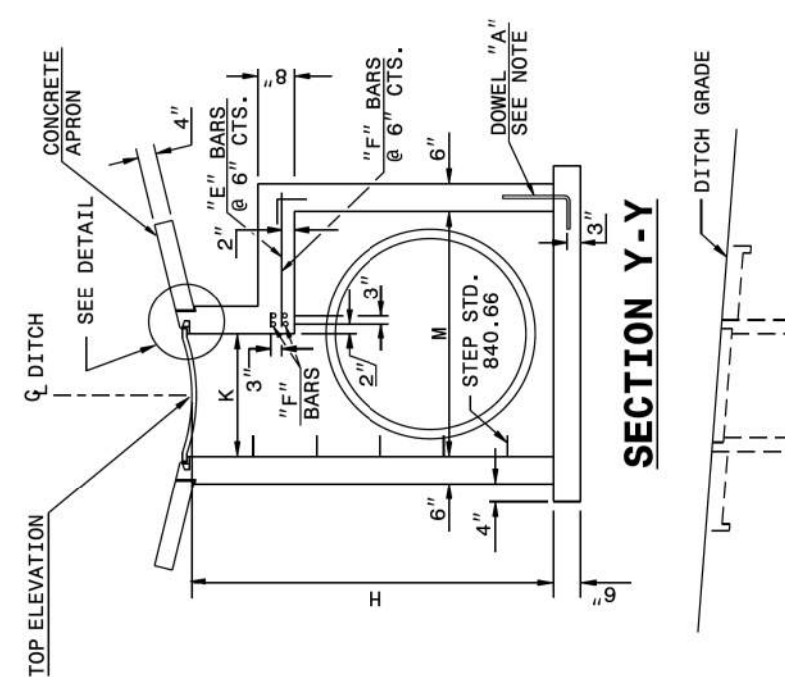
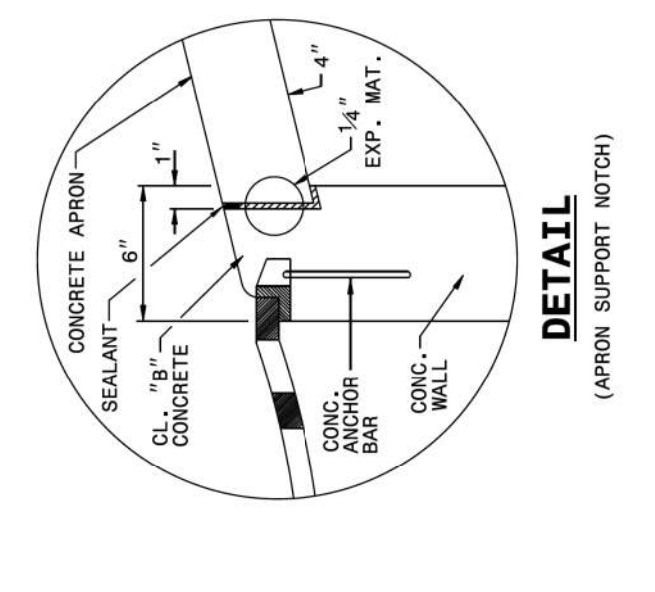
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PROJECT:	BLUE RIDGE ROAD WIDENING
JOB NUMBER:	011063094
SHEET NUMBER:	2C-2

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

ENGLISH DETAIL DRAWING FOR
CONCRETE GRATED DROP INLET TYPE 'A'
MINIMUM DEPTH
12" THRU 72" PIPE

GENERAL NOTES:
USE CLASS 'B' CONCRETE THROUGHOUT.
PROVIDE ALL GRATED DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.08.
OPTIONAL CONSTRUCTION: MONOLITHIC FORM, 2" KEYWAY, OR #4 BAR DOWELS AT BOTTOM OF APRON.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
CONSTRUCT WITH PIPE GROINS MATCHING.
USE STANDARD FRAMES AND GRATES 840.22 (SHOWN), 840.24 (SHOWN), 840.20 (NOT SHOWN) OR 840.29 (NOT SHOWN).
SEE STANDARD DRAWING 840.29 FOR ATTACHMENT OF FRAMES AND GRATES.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.
MINIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.

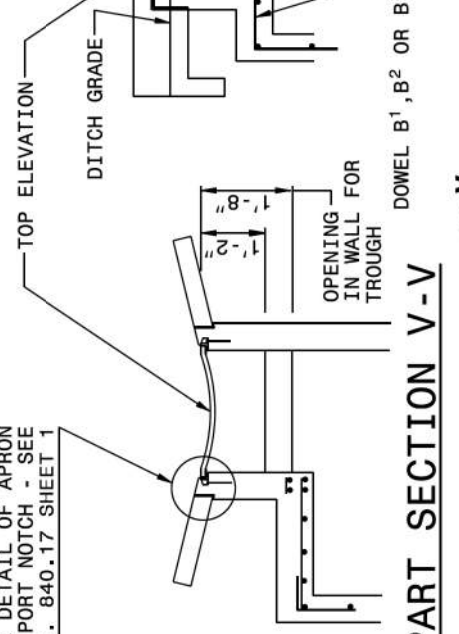
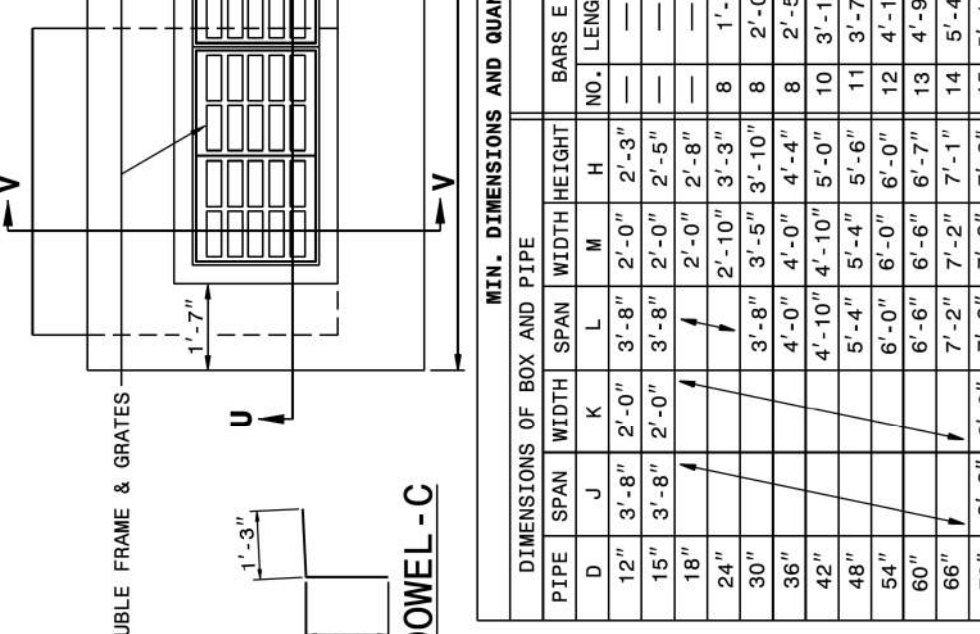
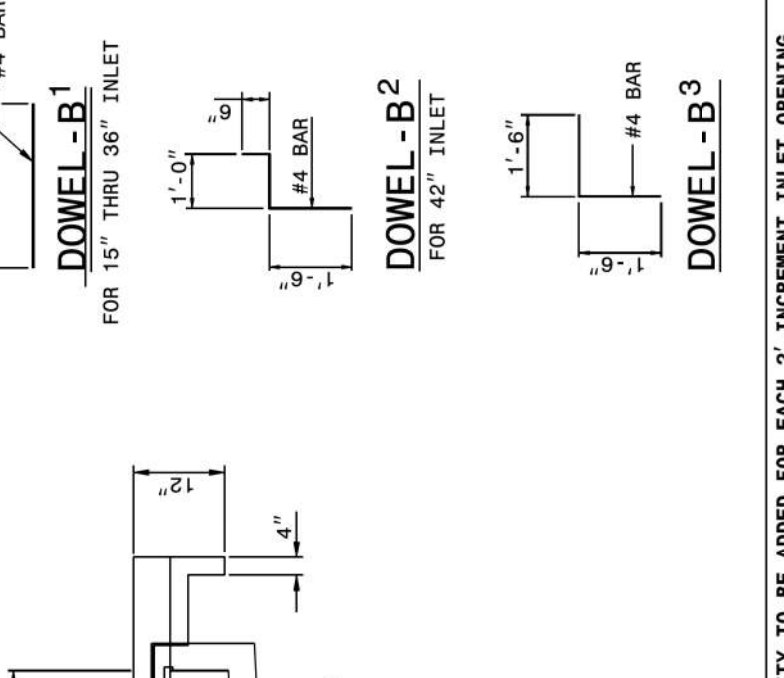





STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
CONCRETE GRATED DROP INLET TYPE 'A'
MINIMUM DEPTH
12" THRU 72" PIPE

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

ENGLISH DETAIL DRAWING FOR
CONCRETE GRATED DROP INLET TYPE 'A'
MINIMUM DEPTH
12" THRU 72" PIPE

DIMENSIONS OF BOX AND PIPE		REINFORCING STEEL - NO. 4 BARS		CU YDS CONC. IN BOX		DEBITS FOR ONE PIPE	
PIPE D	SPAN J	WIDTH K	HEIGHT L	NO. BARS	LENGTH	H PER APRON	TOTAL
12"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	0.191
15"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	0.222
18"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	0.253
24"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	0.385
30"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	0.517
36"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	0.649
42"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	0.781
48"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	0.913
60"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	1.270
66"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	1.444
72"	3'-8"	2'-0"	3'-8"	2	2'-0"	4	1.618

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

ENGLISH DETAIL DRAWING FOR
CONCRETE GRATED DROP INLET TYPE 'A'
MINIMUM DEPTH
12" THRU 72" PIPE

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Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK


ORIGINAL BY: J. Howerton DATE: 1/22/14
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: jhowerton\minimum_depth_type_A.dgn

NOTE: DETAIL PROVIDED BY NCDOT AND APPLIES TO THE PROJECT

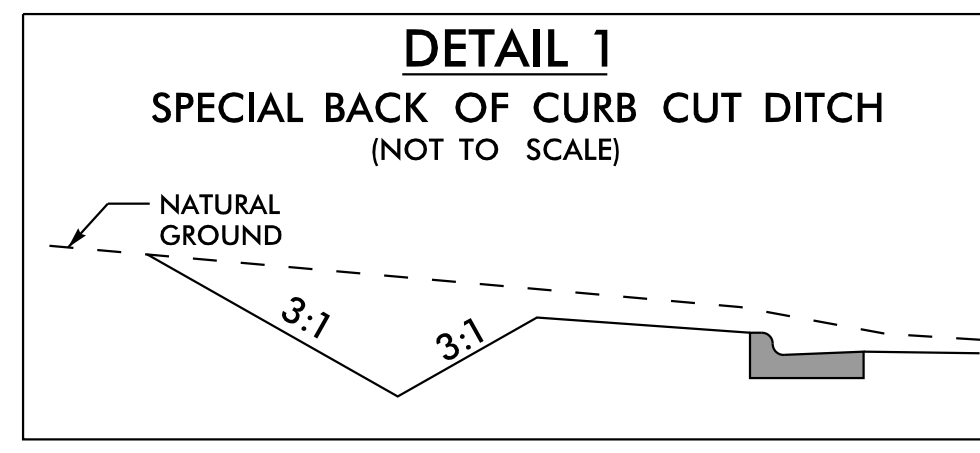
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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

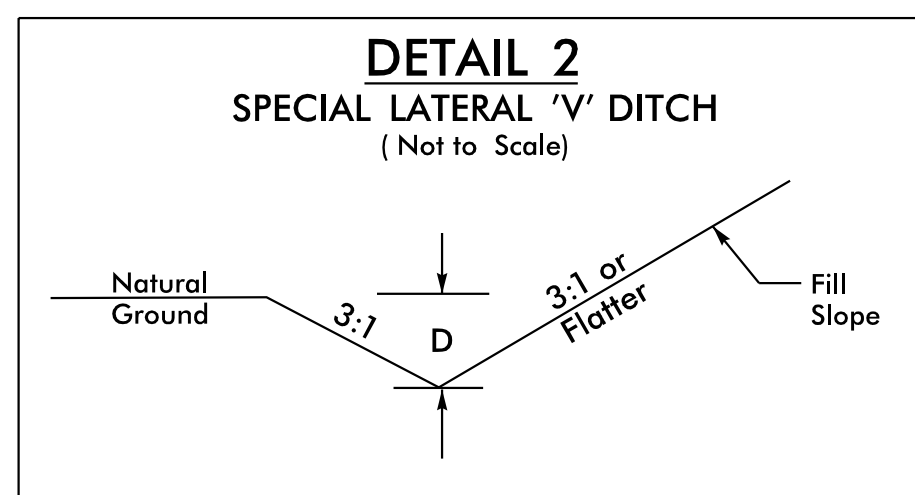
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City of Raleigh Development Approval: 
City of Raleigh Review Officer: _____

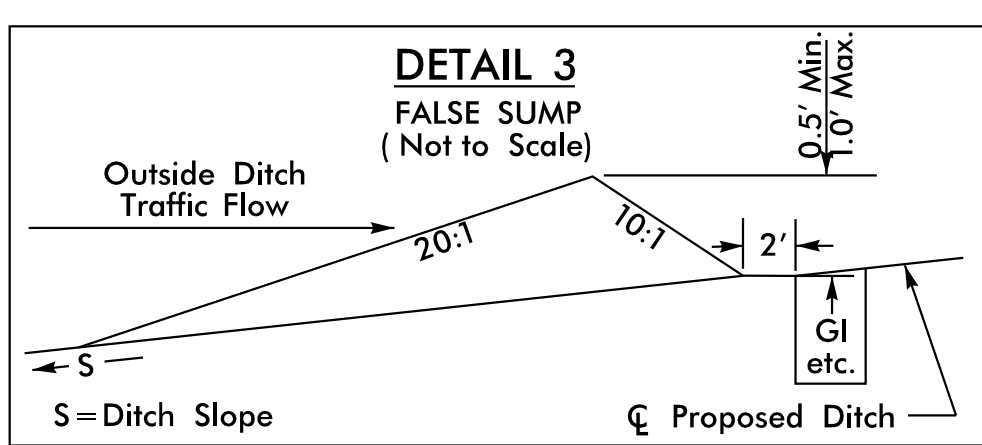
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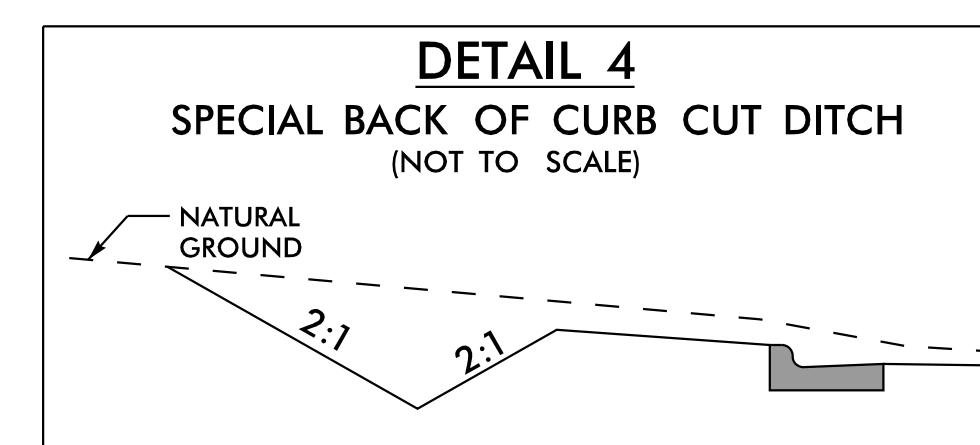
FROM STA. 28+65 TO STA. 29+90 -L- LT
 FROM STA. 30+35 TO STA. 30+85 -L- LT
 FROM STA. 39+50 TO STA. 41+77 -L- LT
 FROM STA. 49+25 TO STA. 51+00 -L- LT
 FROM STA. 90+15 TO STA. 92+40 -L- LT



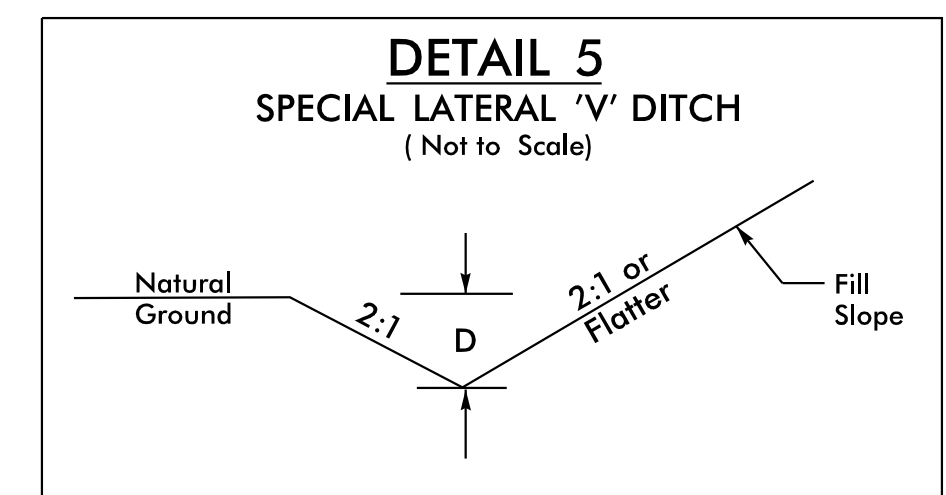
FROM STA. 51+00 TO STA. 51+95 -L- LT
 FROM STA. 75+00 TO STA. 76+00 -L- RT
 FROM STA. 84+25 TO STA. 85+80 -L- RT



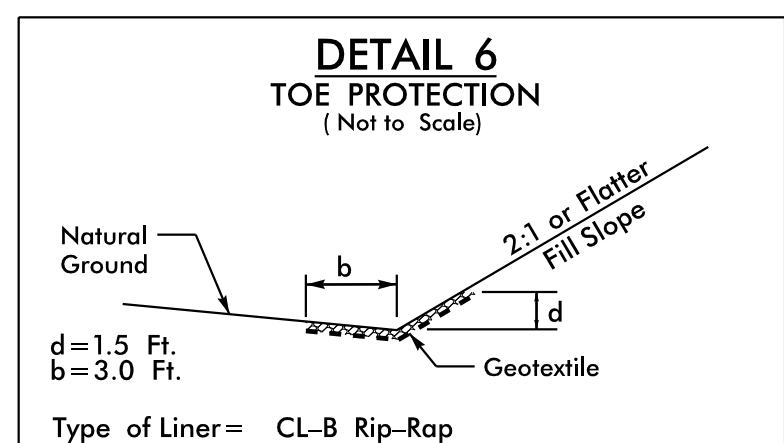
FROM STA. 51+97 TO STA. 52+12 -L- LT



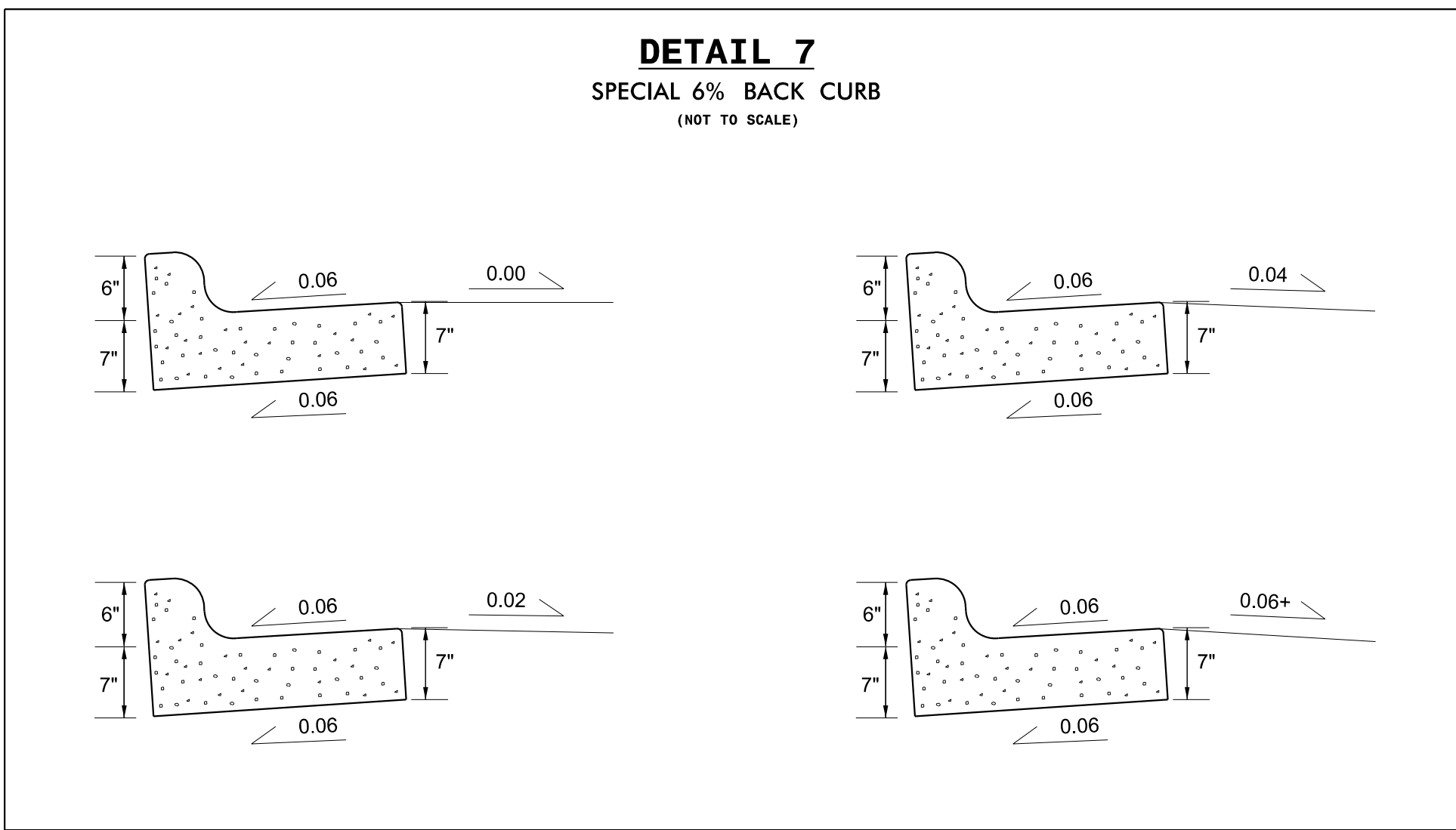
FROM STA. 38+00 TO STA. 39+50 -L- LT



FROM STA. 79+30 TO STA. 80+95 -L- LT
 FROM STA. 10+00 TO STA. 11+70 -Y14- RT



FROM -L- STA. 75+35 TO STA. 76+50 LT



FROM STA. 13+50 TO STA. 17+25 -L- LT
 FROM STA. 50+00 TO STA. 52+00 -L- LT
 FROM STA. 56+50 TO STA. 57+50 -L- RT
 FROM STA. 66+50 TO STA. 68+00 -L- LT

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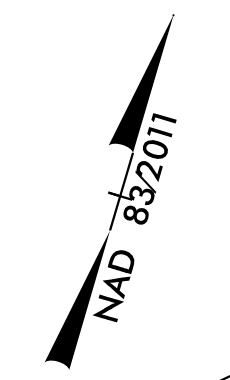
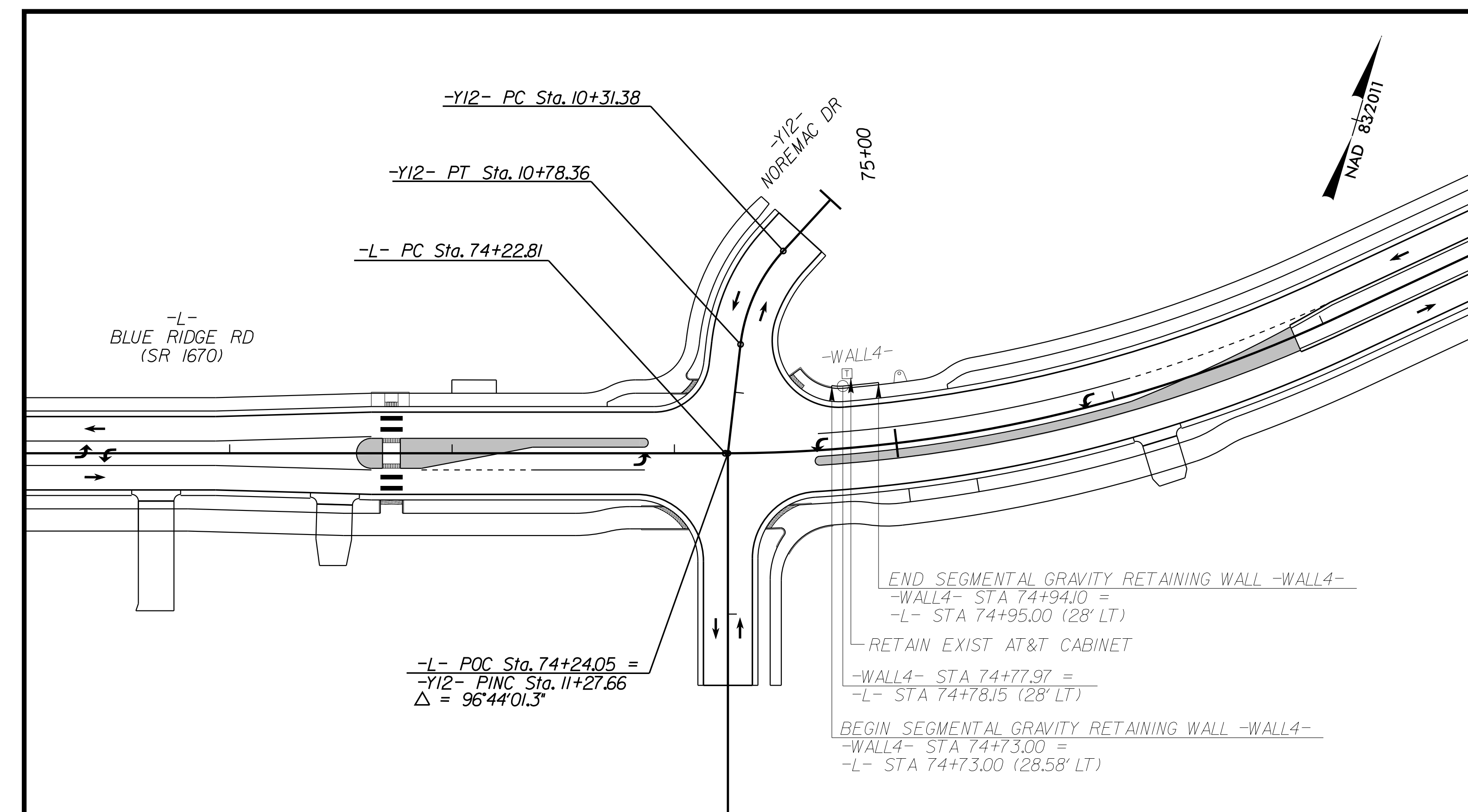
PROJECT:	BLUE RIDGE ROAD WIDENING	
JOB NUMBER:	011063094	SHEET NUMBER: 2D-1

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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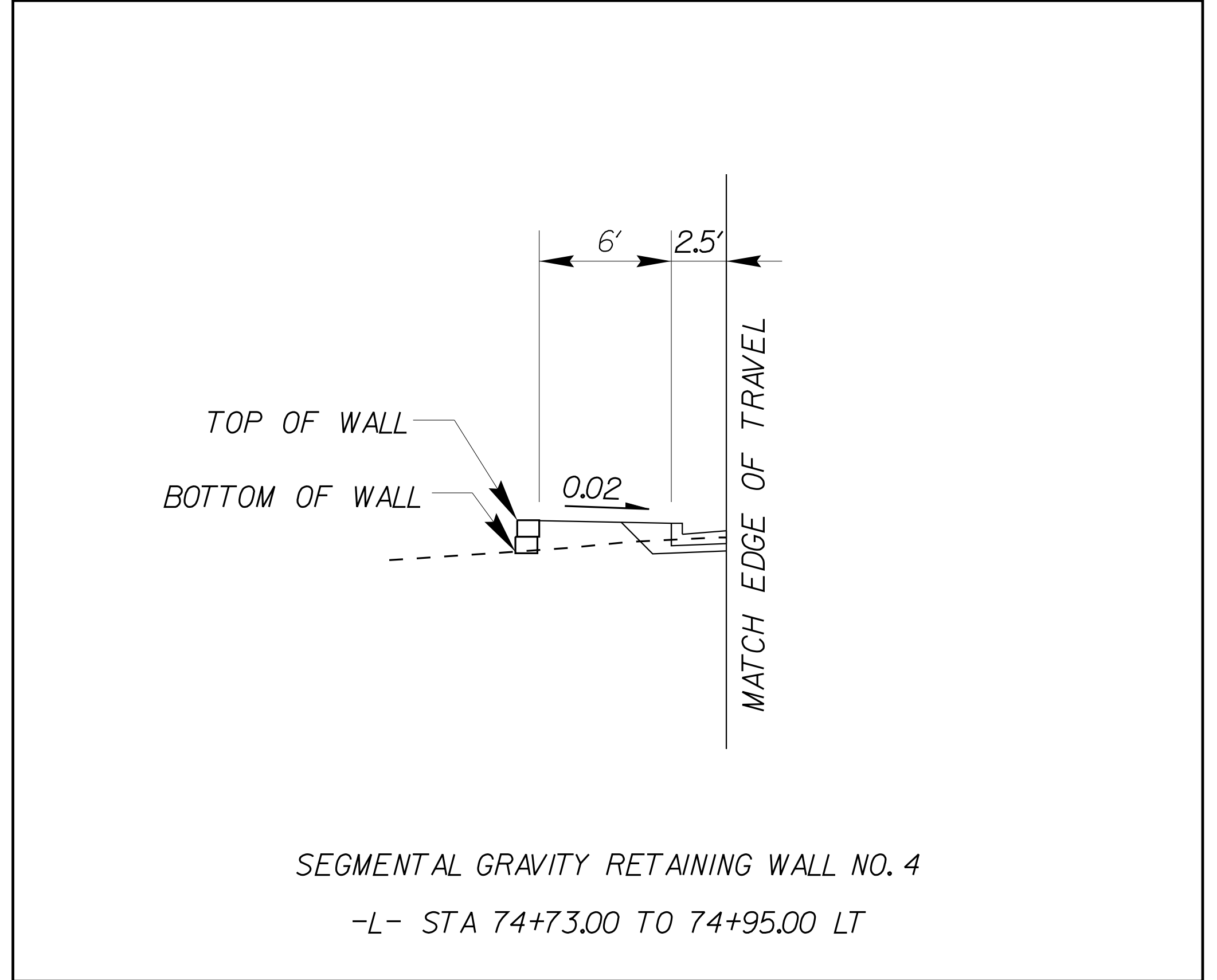
City of Raleigh Development Approval: D. ROBINSON
 City of Raleigh Review Officer: _____
 City of Raleigh Development Approval

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412	EXISTING GROUND
404	BEGIN RETAINING WALL -WALL4- -WALL4- STA 74+73.00 = -L- STA 74+73.00 (28.58' LT) ELEV = 364.31'
396	TIE TO PROP CURB RAMP HEADER CURB (-)2.8773%
388	-WALL4- STA 74+77.97 = -L- STA 74+78.15 (28.58' LT) ELEV = 363.67'
380	TOP OF WALL (-)2.4390%
372	-WALL4- STA 74+84.53 = -L- STA 74+85.00 (28.58' LT) ELEV = 363.51'
364	END RETAINING WALL -WALL4- -WALL4- STA 74+94.10 = -L- STA 74+95.00 (28.58' LT) ELEV = 361.11'
356	-WALL4- STA 74+94.10 ELEV = 361.11'
348	-WALL4- STA 74+84.53 ELEV = 362.03'
340	BOTTOM OF WALL -WALL4- STA 74+77.97 ELEV = 362.38'
332	-WALL4- STA 74+73.00 ELEV = 362.62'

74 75



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5/1/2023

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RETAINING WALL ENVELOPES

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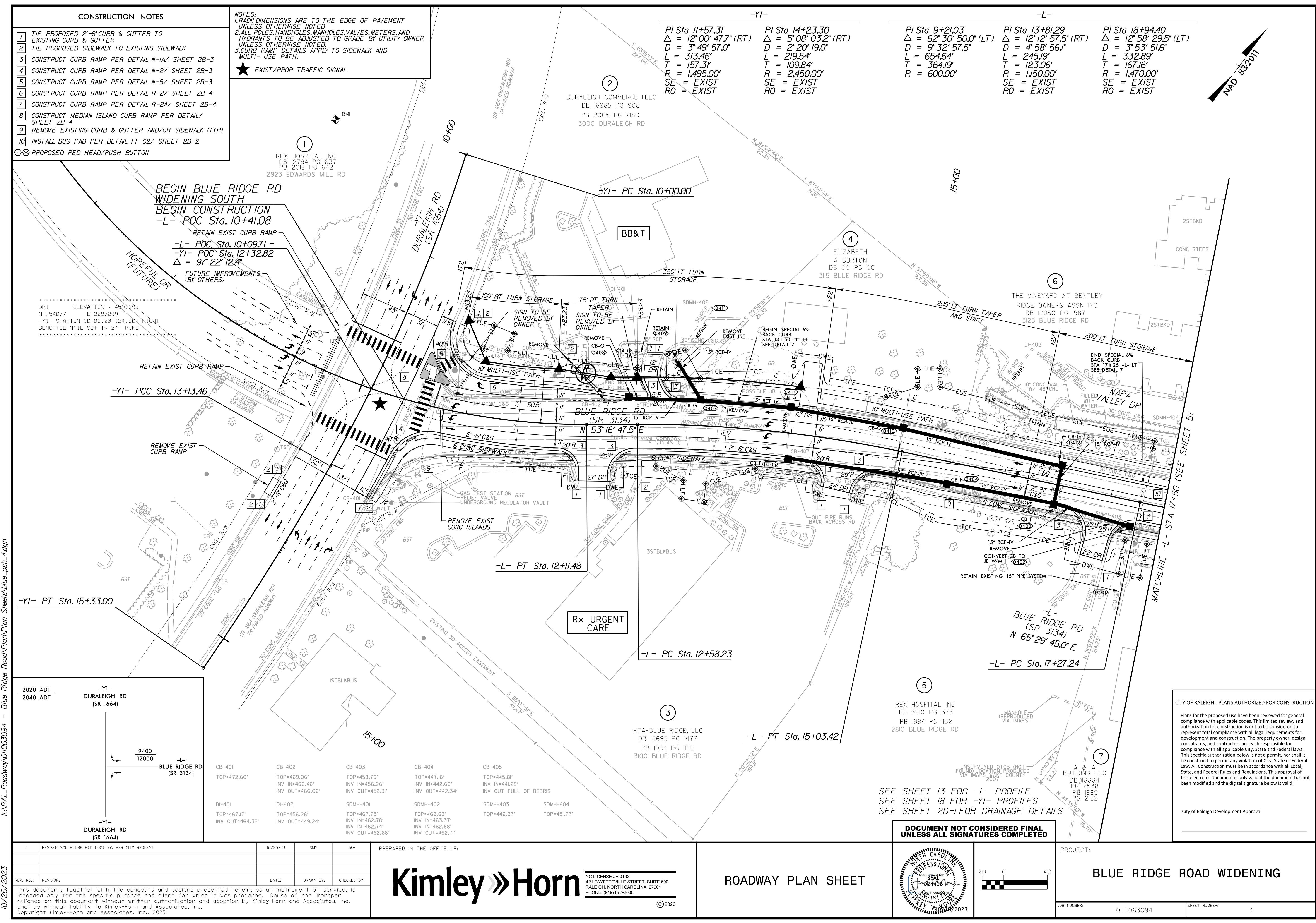
PROJECT: BLUE RIDGE ROAD WIDENING

JOB NUMBER: 011063094 SHEET NUMBER: 2N

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City of Raleigh Development Approval



- CONSTRUCTION NOTES**
- TIE PROPOSED 2'-6\"/>
 - TIE PROPOSED SIDEWALK TO EXISTING SIDEWALK
 - CONSTRUCT CURB RAMP PER DETAIL N-1A/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-2/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-5/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL R-2/ SHEET 2B-4
 - CONSTRUCT CURB RAMP PER DETAIL R-2A/ SHEET 2B-4
 - CONSTRUCT MEDIAN ISLAND CURB RAMP PER DETAIL/ SHEET 2B-4
 - REMOVE EXISTING CURB & GUTTER AND/OR SIDEWALK (TYP)
 - INSTALL BUS PAD PER DETAIL TT-02/ SHEET 2B-2
 - PROPOSED PED HEAD/PUSH BUTTON

NOTES:
 1. RADIUS DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. ALL POLES, HANDHOLES, MANHOLES, VALVES, METERS, AND HYDRANTS TO BE ADJUSTED TO GRADE BY UTILITY OWNER UNLESS OTHERWISE NOTED.
 3. CURB RAMP DETAILS APPLY TO SIDEWALK AND MULTI-USE PATH.
 ★ EXIST/PROP TRAFFIC SIGNAL

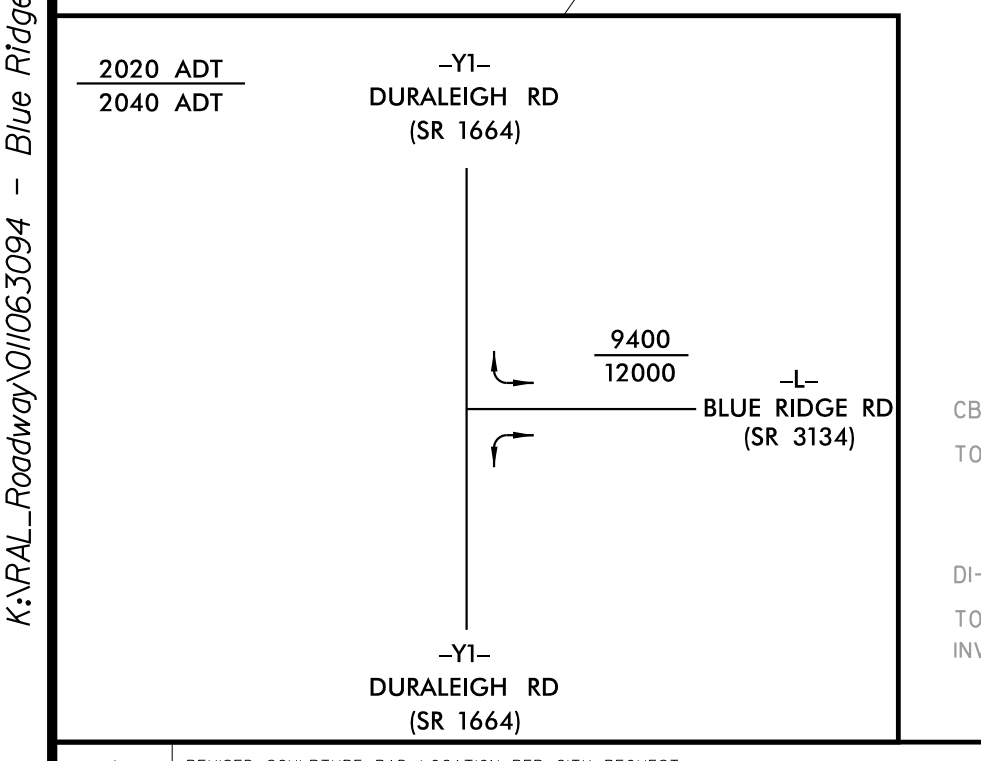
-YI-	-L-	-L-
PI Sta 11+57.31 Δ = 12° 00' 47.7\"/>		

BEGIN BLUE RIDGE RD WIDENING SOUTH
BEGIN CONSTRUCTION
 -L- POC Sta. 10+41.08
 RETAIN EXIST CURB RAMP
 -L- POC Sta. 10+09.71 =
 -YI- POC Sta. 12+32.82
 Δ = 97° 22' 12.4\"/>

BMI ELEVATION = 450.39
 N 754077 E 2087299
 -YI- STATION 10+06.20 124.80' RIGHT
 BENCHTIE NAIL SET IN 24\"/>

-YI- PCC Sta. 13+13.46

-YI- PT Sta. 15+33.00



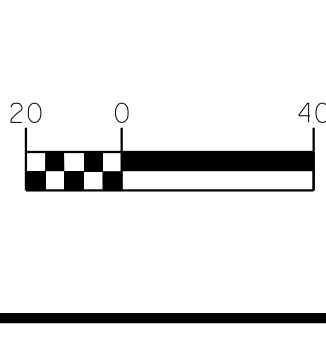
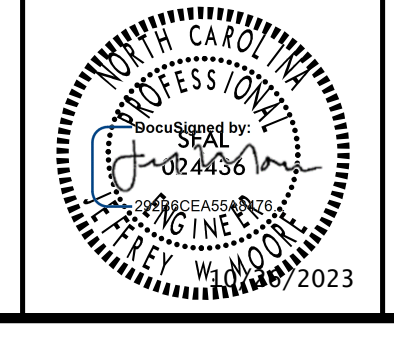
CB-401	CB-402	CB-403	CB-404	CB-405
TOP=472.60'	TOP=469.06'	TOP=458.76'	TOP=447.16'	TOP=445.81'
INV IN=466.46'	INV IN=456.26'	INV IN=452.31'	INV IN=442.66'	INV IN=441.29'
INV OUT=466.06'	INV OUT=466.06'	INV OUT=452.31'	INV OUT FULL OF DEBRIS	INV OUT FULL OF DEBRIS
DI-401	SDMH-401	SDMH-402	SDMH-403	SDMH-404
TOP=467.17'	TOP=456.26'	TOP=467.73'	TOP=469.63'	TOP=466.37'
INV OUT=464.32'	INV OUT=449.24'	INV IN=462.78'	INV IN=463.37'	INV IN=462.88'
		INV OUT=462.74'	INV IN=462.88'	INV OUT=462.68'
		INV OUT=462.68'	INV IN=462.88'	INV OUT=462.71'

REV. NO.	REVISION	DATE	DRAWN BY	CHECKED BY
1	REVISED SCULPTURE PAD LOCATION PER CITY REQUEST	10/20/23	SMS	JHM

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Kimley » Horn
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ROADWAY PLAN SHEET

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PROJECT: **BLUE RIDGE ROAD WIDENING**
 JOB NUMBER: 011063094
 SHEET NUMBER: 4

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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City of Raleigh Development Approval

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10/26/2023

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- CONSTRUCTION NOTES**
- TIE PROPOSED 2'-6" CURB & GUTTER TO EXISTING CURB & GUTTER
 - TIE PROPOSED SIDEWALK TO EXISTING SIDEWALK
 - CONSTRUCT CURB RAMP PER DETAIL N-1A/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-2/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-5/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL R-2/ SHEET 2B-4
 - CONSTRUCT CURB RAMP PER DETAIL R-2A/ SHEET 2B-4
 - CONSTRUCT MEDIAN ISLAND CURB RAMP PER DETAIL/ SHEET 2B-4
 - REMOVE EXISTING CURB & GUTTER AND/OR SIDEWALK (TYP)
 - INSTALL BUS PAD PER DETAIL TT-02/ SHEET 2B-2
 - PROPOSED PED HEAD/PUSH BUTTON

NOTES:
 1. RADIUS DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. ALL POLES, HANDHOLES, MANHOLES, VALVES, METERS, AND HYDRANTS TO BE ADJUSTED TO GRADE BY UTILITY OWNER UNLESS OTHERWISE NOTED.
 3. CURB RAMP DETAILS APPLY TO SIDEWALK AND MULTI-USE PATH.

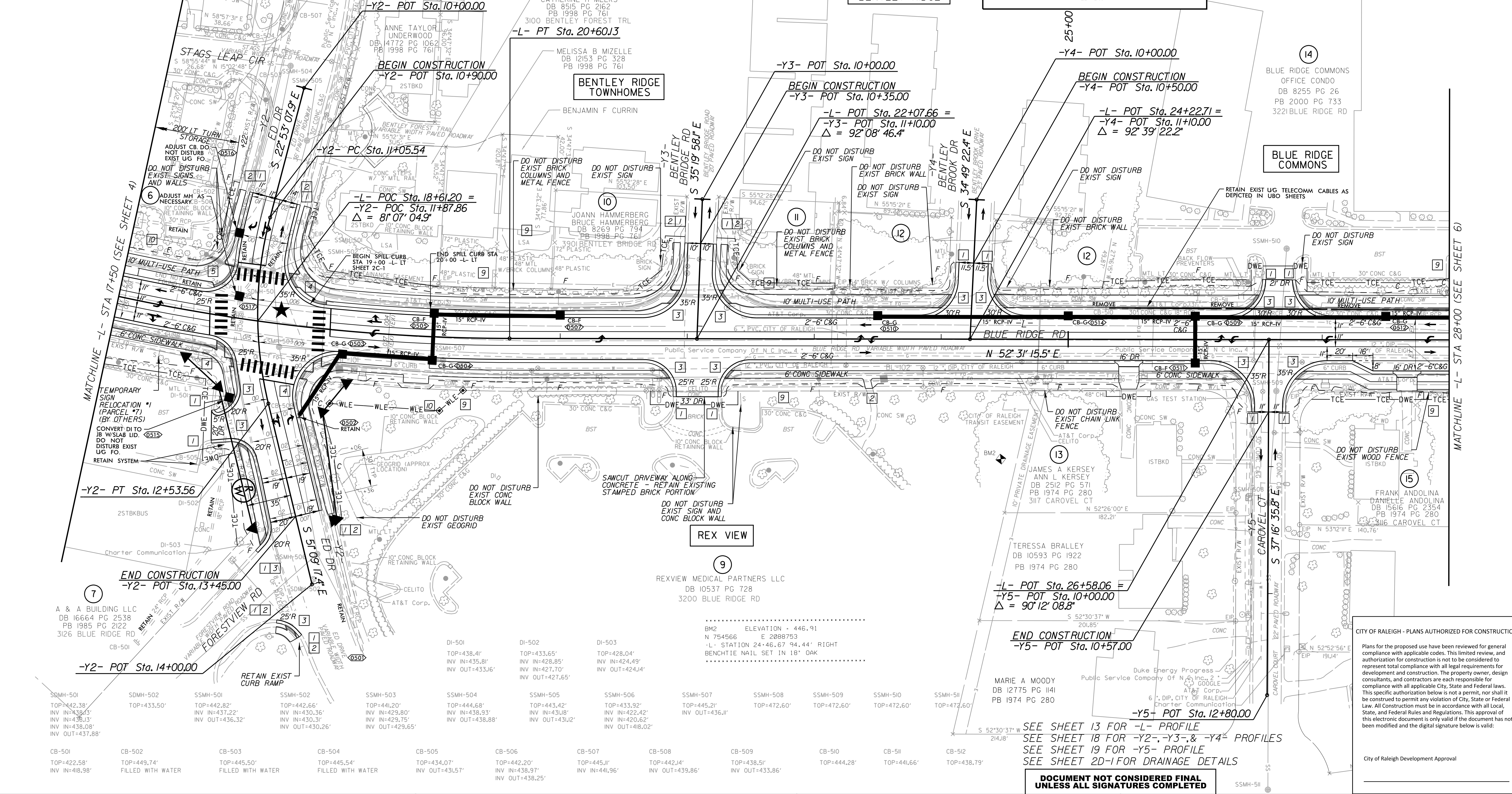
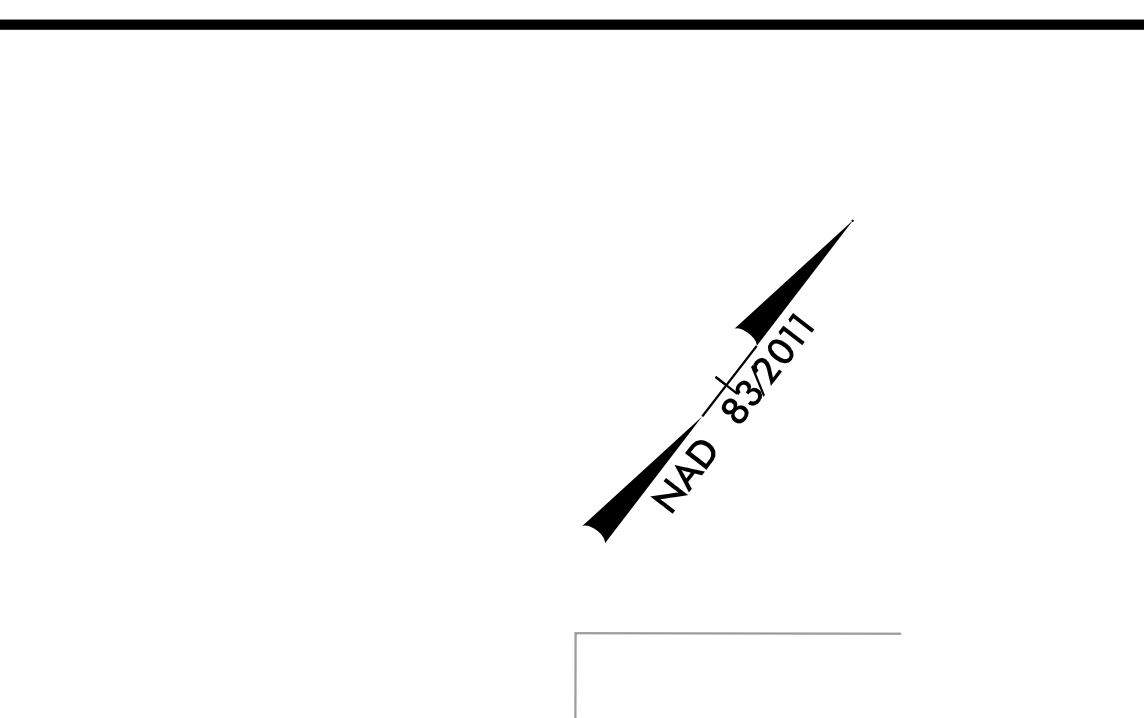
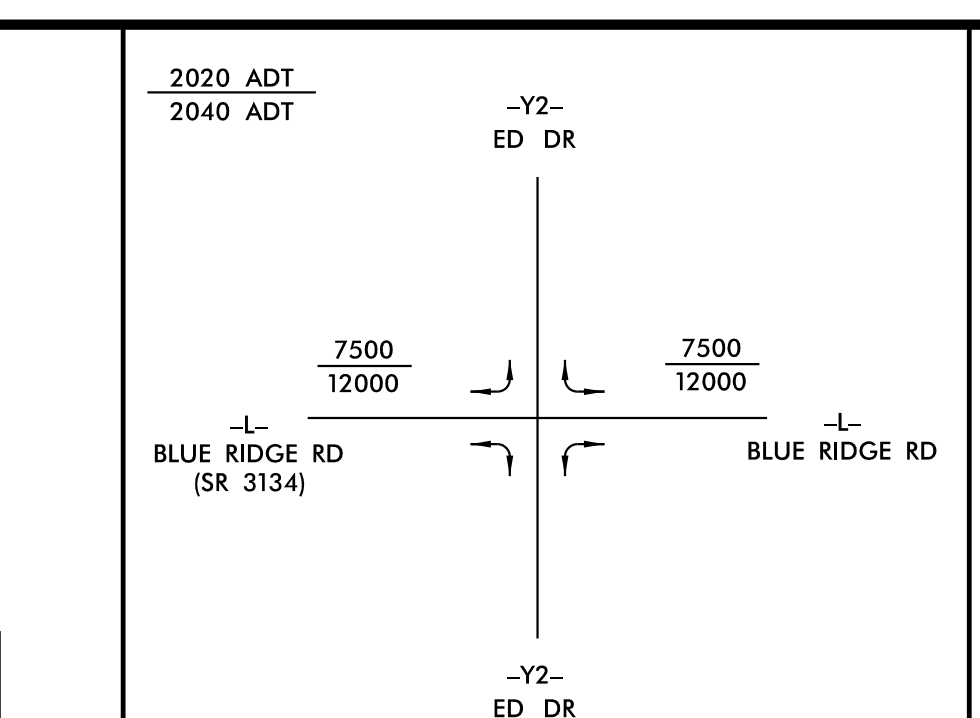
★ EXIST/PROP TRAFFIC SIGNAL

12 BROWNSTONES AT BENTLEY RIDGE OWNERS ASSOCIATION INC DB 9627 PG 2017 PB 2000 PG 733 3901 BENTLEY BROOK DR

11 SUSAN K MURRAY DB 14486 PG 1689 PB 1998 PG 761 3900 BENTLEY BRIDGE RD

-Y2-
 PI Sta 11+81.09
 $\Delta = 28' 16" 09.5" (LT)$
 $D = 19' 05" 54.9"$
 $L = 148.02'$
 $T = 75.55'$
 $R = 300.00' (30 MPH)$
 $SE = SEE PLAN$
 $RO = SEE PLAN$

-L-
 PI Sta 18+94.40
 $\Delta = 12' 58" 29.5" (LT)$
 $D = 3' 53' 51.6"$
 $L = 332.89'$
 $T = 167.16'$
 $R = 1,470.00'$
 $SE = EXIST$
 $RO = EXIST$



1	REVISED SCULPTURE PAD LOCATION PER CITY REQUEST	10/20/23	SMS	JHM
REV. No.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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 PHONE: (919) 677-2000

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ROADWAY PLAN SHEET

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT: **BLUE RIDGE ROAD WIDENING**

JOB NUMBER: 011063094

SHEET NUMBER: 5

CITY OF RALEIGH - PLANS AUTHORIZED FOR REVIEW

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid.

City of Raleigh Development Approval

10/26/2023

- CONSTRUCTION NOTES**
- TIE PROPOSED 2'-6" CURB & GUTTER TO EXISTING CURB & GUTTER
 - TIE PROPOSED SIDEWALK TO EXISTING SIDEWALK
 - CONSTRUCT CURB RAMP PER DETAIL N-1A/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-2/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-5/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL R-2/ SHEET 2B-4
 - CONSTRUCT CURB RAMP PER DETAIL R-2A/ SHEET 2B-4
 - CONSTRUCT MEDIAN ISLAND CURB RAMP PER DETAIL/ SHEET 2B-4
 - REMOVE EXISTING CURB & GUTTER AND/OR SIDEWALK (TYP)
 - INSTALL BUS PAD PER DETAIL TT-02/ SHEET 2B-2
 - PROPOSED PED HEAD/PUSH BUTTON

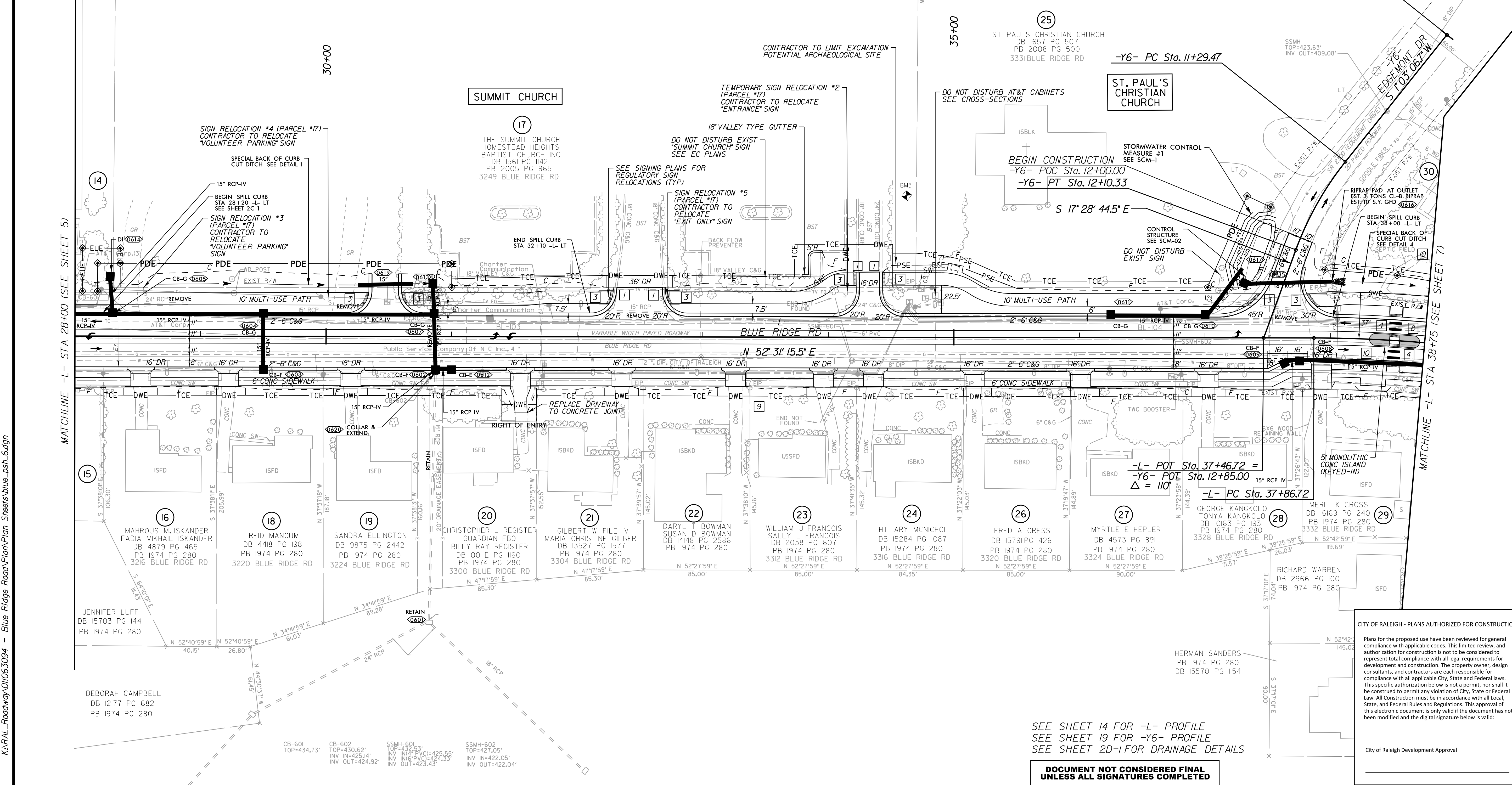
NOTES:
 1. RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. ALL POLES, HANDHOLES, MANHOLES, VALVES, METERS, AND HYDRANTS TO BE ADJUSTED TO GRADE BY UTILITY OWNER UNLESS OTHERWISE NOTED.
 3. CURB RAMP DETAILS APPLY TO SIDEWALK AND MULTI-USE PATH.

★ EXIST/PROP TRAFFIC SIGNAL

(14) BLUE RIDGE COMMONS OFFICE CONDO DB 8255 PG 26 PB 2000 PG 733 3221 BLUE RIDGE RD	(15) FRANK ANDOLINA DANIELLE ANDOLINA DB 15616 PG 2354 PB 1974 PG 280 316 CAROVEL CT	(30) JAMES L. S. COBB DB 12198 PG 2413 PB 1963 PG 91 3300 EDMONT DR
--	--	---

-L-
 PI Sta 39+32.33
 $\Delta = 15^\circ 38' 35.7" (RT)$
 $D = 5' 24' 18.9"$
 $L = 289.41'$
 $T = 145.61'$
 $R = 1,060.00'$
 $SE = EXIST$
 $RO = EXIST$

-Y6-
 PI Sta 11+71.25
 $\Delta = 18^\circ 31' 51.2" (LT)$
 $D = 22' 55' 05.9"$
 $L = 80.86'$
 $T = 40.78'$
 $R = 250.00'$
 $SE = EXIST$
 $RO = EXIST$



K:\RAL_Roadway\01063094 - Blue Ridge Road\Plan\Sheets\blue_psh_6.dgn

10/26/2023

1	REVISED DRIVEWAY LOCATION AT SUMMIT CHURCH PER CITY REQUEST	10/20/23	SMS	JHM
REV. No.	REVISIONS	DATE	DRAWN BY	CHECKED BY
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ROADWAY PLAN SHEET

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SEE SHEET 14 FOR -L- PROFILE
 SEE SHEET 19 FOR -Y6- PROFILE
 SEE SHEET 2D-1 FOR DRAINAGE DETAILS

PROJECT: BLUE RIDGE ROAD WIDENING

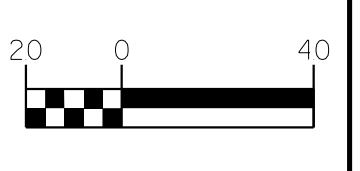
JOB NUMBER: 011063094

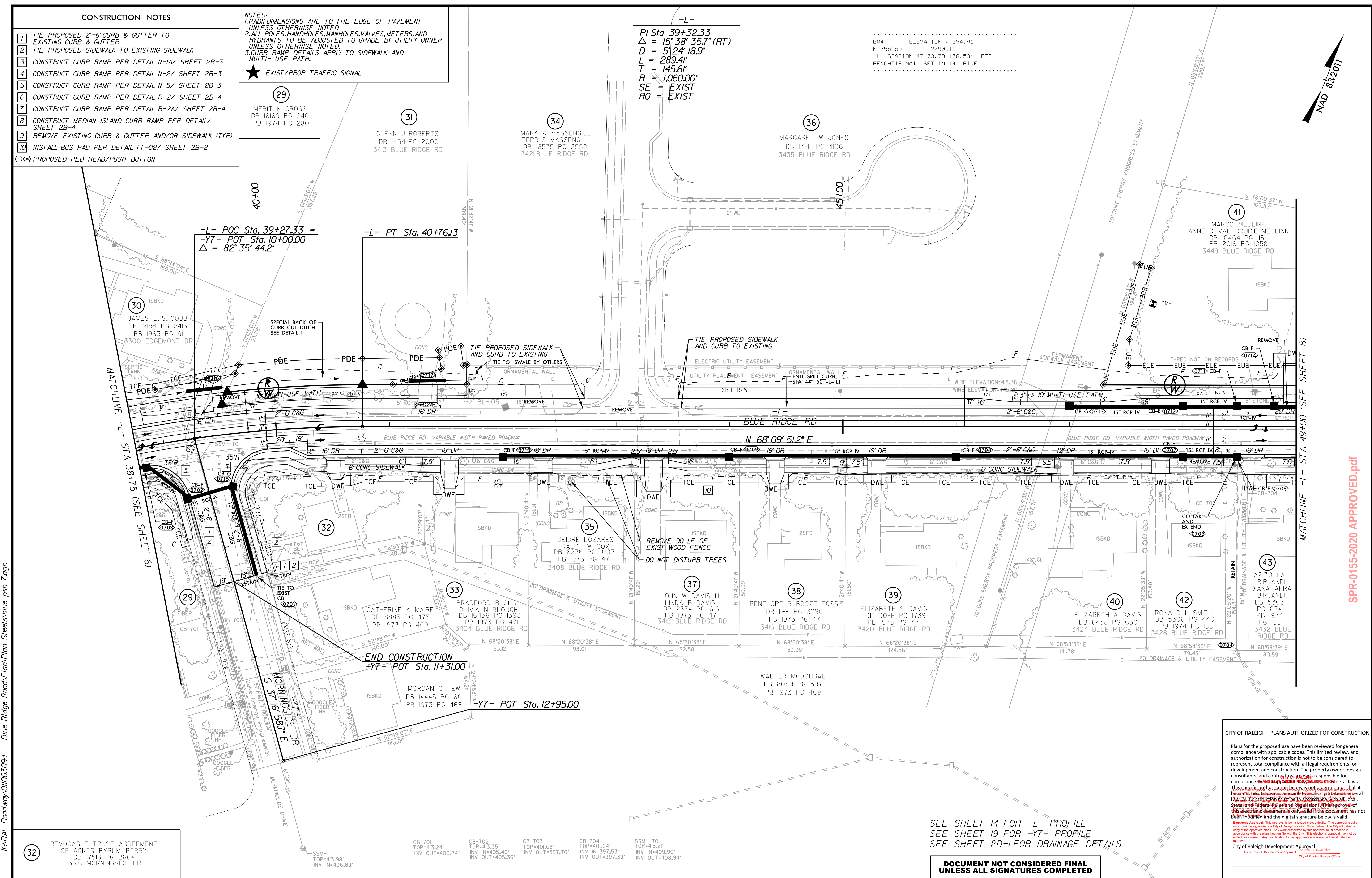
SHEET NUMBER: 6

City of Raleigh Development Approval

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid:





- CONSTRUCTION NOTES**
- TIE PROPOSED 2'-6" CURB & GUTTER TO EXISTING CURB & GUTTER
 - TIE PROPOSED SIDEWALK TO EXISTING SIDEWALK
 - CONSTRUCT CURB RAMP PER DETAIL N-1A/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-2/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-5/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL R-2/ SHEET 2B-4
 - CONSTRUCT CURB RAMP PER DETAIL R-2A/ SHEET 2B-4
 - CONSTRUCT MEDIAN ISLAND CURB RAMP PER DETAIL/ SHEET 2B-4
 - REMOVE EXISTING CURB & GUTTER AND/OR SIDEWALK (TYP)
 - INSTALL BUS PAD PER DETAIL TT-02/ SHEET 2B-2
 - PROPOSED PED HEAD/PUSH BUTTON

NOTES:
 1. RADIUS DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. ALL POLES, HANDHOLES, MANHOLES, VALVES, METERS, AND HYDRANTS TO BE ADJUSTED TO GRADE BY UTILITY OWNER UNLESS OTHERWISE NOTED.
 3. CURB RAMP DETAILS APPLY TO SIDEWALK AND MULTI-USE PATH.

★ EXIST/PROP TRAFFIC SIGNAL

-L-
 PI Sta. 39+32.33
 $\Delta = 15^\circ 38' 35.7" (RT)$
 $D = 51^\circ 24' 18.9"$
 $L = 289.41'$
 $T = 145.61'$
 $R = 1,060.00'$
 SE = EXIST
 RO = EXIST

BM4 ELEVATION = 394.91
 N 755959 E 2019616
 -L- STATION 47-73.79 108.53' LEFT
 BENCHMARK NAIL SET IN 1" PINE

32 REVOCABLE TRUST AGREEMENT OF AGNES BYRUM PERRY DB 17518 PG 2664 3616 MORNINGSIDE DR

CB-701 TOP=413.24' INV IN=406.74'	CB-702 TOP=413.35' INV IN=405.40' INV OUT=405.36'	CB-703 TOP=401.68' INV IN=397.76'	CB-704 TOP=401.64' INV IN=397.53' INV OUT=397.39'	SSMH-701 TOP=415.21' INV IN=409.96' INV OUT=408.94'
---	--	---	--	--

SEE SHEET 14 FOR -L- PROFILE
 SEE SHEET 19 FOR -Y7- PROFILE
 SEE SHEET 20-I FOR DRAINAGE DETAILS

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractor are solely responsible for compliance with all applicable City, State and Federal laws.

This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will return a copy of the approved plans, and work authorized by this approval must proceed in accordance with the plans kept on file with the City. This approval may not be edited once issued. Any modification to this approval once issued will invalidate the approval.

City of Raleigh Development Approval
 City of Raleigh Development Approval
 City of Raleigh Review Officer

REV. NO.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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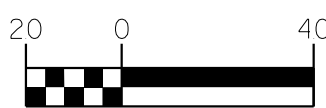
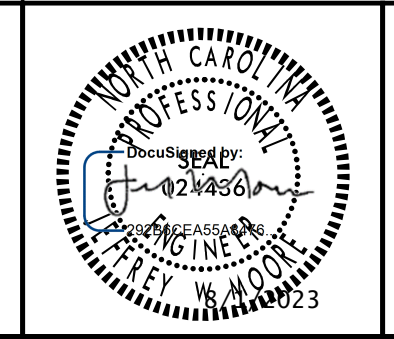
PREPARED IN THE OFFICE OF:

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ROADWAY PLAN SHEET



PROJECT: BLUE RIDGE ROAD WIDENING

JOB NUMBER: 011063094

SHEET NUMBER: 7

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K:\RAL_Roadway\011063094 - Blue Ridge Road\Plan\Plan Sheets\blue_ash_L.dgn

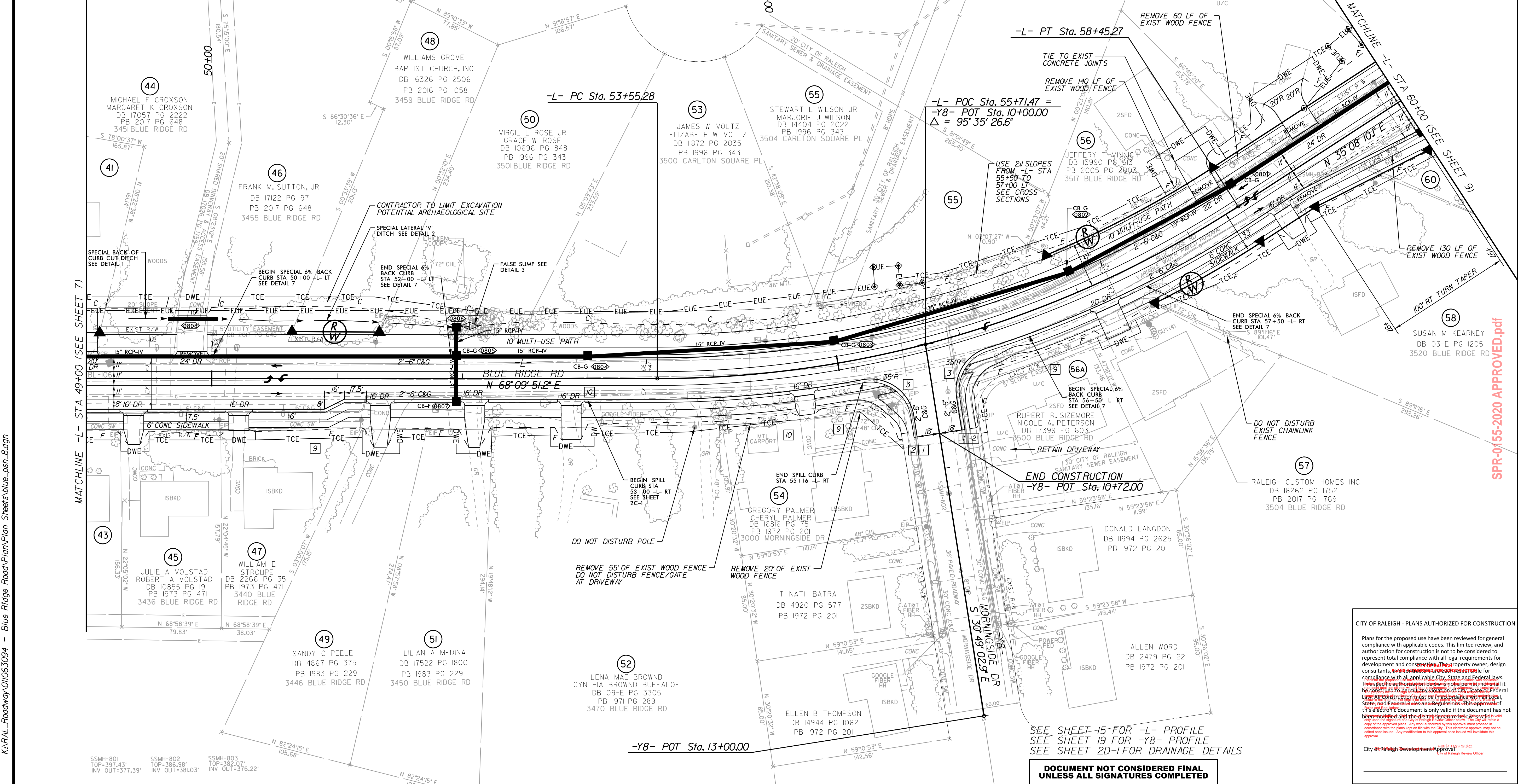
5/8/2023

- CONSTRUCTION NOTES**
- TIE PROPOSED 2'-6" CURB & GUTTER TO EXISTING CURB & GUTTER
 - TIE PROPOSED SIDEWALK TO EXISTING SIDEWALK
 - CONSTRUCT CURB RAMP PER DETAIL N-1A/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-2/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-5/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL R-2/ SHEET 2B-4
 - CONSTRUCT CURB RAMP PER DETAIL R-2A/ SHEET 2B-4
 - CONSTRUCT MEDIAN ISLAND CURB RAMP PER DETAIL/ SHEET 2B-4
 - REMOVE EXISTING CURB & GUTTER AND/OR SIDEWALK (TYP)
 - INSTALL BUS PAD PER DETAIL TT-02/ SHEET 2B-2
 - PROPOSED PED HEAD/PUSH BUTTON

NOTES:
 1. RADIUS DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. ALL POLES, HANDHOLES, MANHOLES, VALVES, METERS, AND HYDRANTS TO BE ADJUSTED TO GRADE BY UTILITY OWNER UNLESS OTHERWISE NOTED.
 3. CURB RAMP DETAILS APPLY TO SIDEWALK AND MULTI-USE PATH.
 ★ EXIST/PROP TRAFFIC SIGNAL

-L-
 PI Sta. 56+07.29
 D = 33' 0" 41.0' (LT)
 D = 6' 44" 26.4"
 L = 489.98'
 T = 252.01'
 R = 850.00'
 SE = EXIST
 RO = EXIST

41	43	60	61
MARCO MEULINK DB 16464 PG 1051 PB 2016 PG 1058	AZIZOLLAH BIRJANDI DB 5363 PG 674 PB 1974 PG 158	JAMES M. MORTON TINA L. MORTON DB 8952 PG 190 PB 1986 PG 140 3530 BLUE RIDGE RD	GRADY CLARK LANE SHENG NAN JIN DB 17168 PG 513 3525 BLUE RIDGE RD



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SPR-07155-2020 APPROVED.pdf

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and the contractor are responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid. A hard copy of the approved plans, as well as the original, must be prepared in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to the approved plans requires the approval of the City.

City of Raleigh Development Approval
 City of Raleigh Review Office

REV. No.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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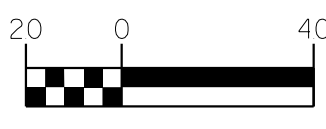
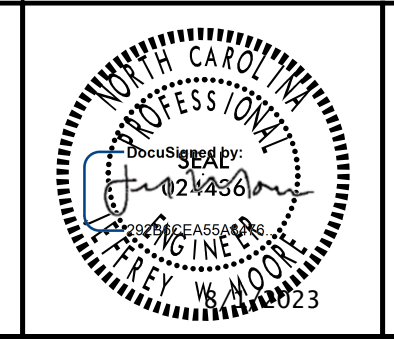
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ROADWAY PLAN SHEET

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PROJECT: **BLUE RIDGE ROAD WIDENING**

JOB NUMBER: 011063094

SHEET NUMBER: 8

5/8/2023

- CONSTRUCTION NOTES**
- TIE PROPOSED 2'-6" CURB & GUTTER TO EXISTING CURB & GUTTER
 - TIE PROPOSED SIDEWALK TO EXISTING SIDEWALK
 - CONSTRUCT CURB RAMP PER DETAIL N-1A/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-2/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-5/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL R-2/ SHEET 2B-4
 - CONSTRUCT CURB RAMP PER DETAIL R-2A/ SHEET 2B-4
 - CONSTRUCT MEDIAN ISLAND CURB RAMP PER DETAIL/ SHEET 2B-4
 - REMOVE EXISTING CURB & GUTTER AND/OR SIDEWALK (TYP)
 - INSTALL BUS PAD PER DETAIL TT-02/ SHEET 2B-2
 - PROPOSED PED HEAD/PUSH BUTTON

NOTES:
 1. RADIUS DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
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 3. CURB RAMP DETAILS APPLY TO SIDEWALK AND MULTI-USE PATH.

★ EXIST/PROP TRAFFIC SIGNAL

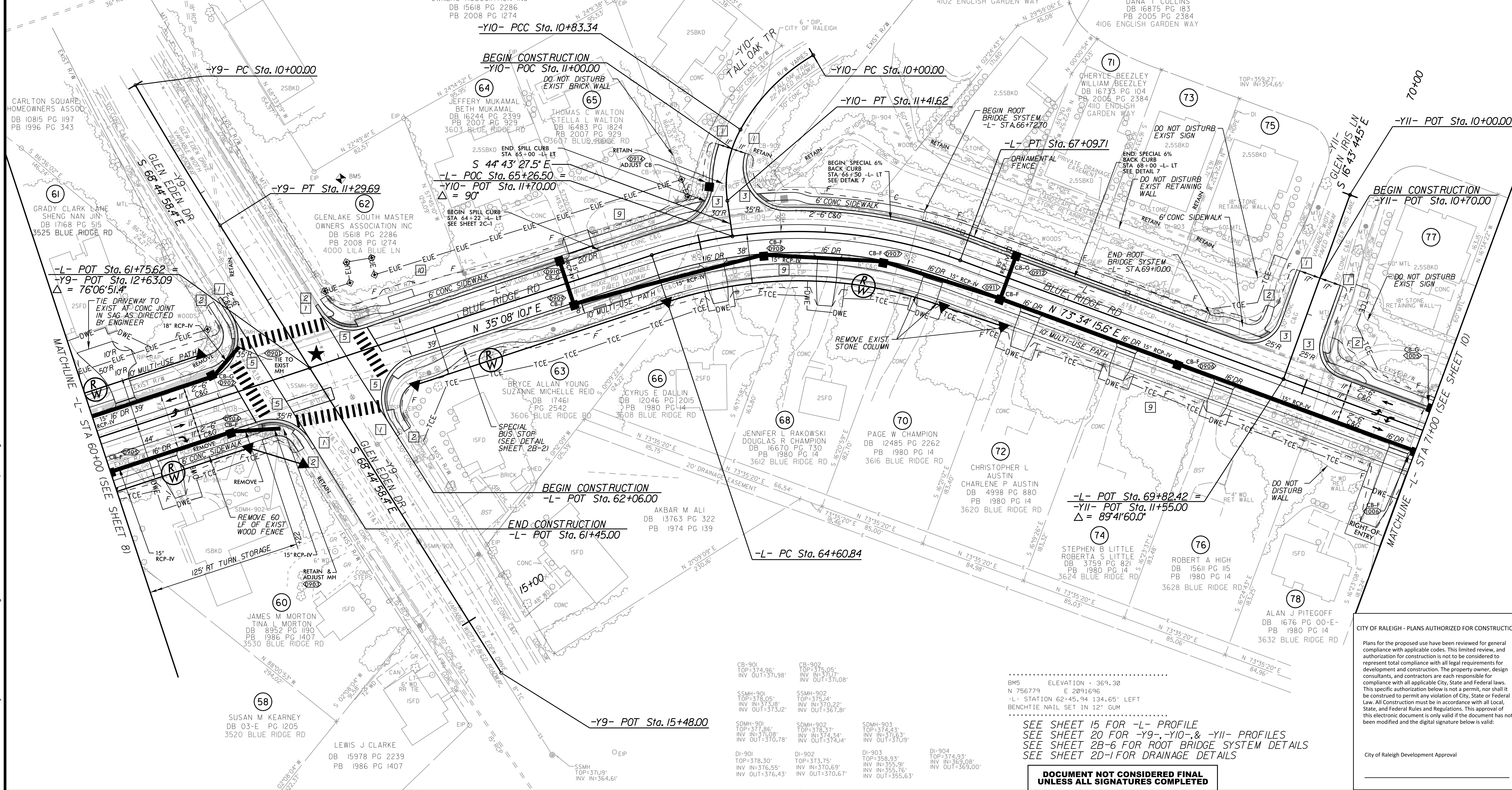
(73) GEORGE BRUCE BETTY L STALL DB 16280 PG 1523 PB 2005 PG 2384 4114 ENGLISH GARDEN WAY	(75) DOUGLAS EGETON JEANNINE EGETON DB 16244 PG 1098 PB 2005 PG 2384 4118 ENGLISH GARDEN WAY	(77) GIOVANNI PELLEGRINO MARY M LEMIEUX DB 16033 PG 2028 PB 2005 PG 2384 4124 ENGLISH GARDEN WAY
---	---	---

-Y9-
 PI Sta 10+64.85
 $\Delta = 1' 58" 25.0" (LT)$
 $D = 1' 31" 18.5"$
 $L = 129.69'$
 $T = 64.85'$
 SE = EXIST
 RO = EXIST

-L-
 PI Sta 65+90.16
 $\Delta = 38' 26" 05.4" (RT)$
 $D = 15' 26" 37.0"$
 $L = 248.87'$
 $T = 129.32'$
 $R = 371.00' (35 MPH)$
 SE = EXIST
 RO = EXIST

-Y10-
 PI Sta 10+42.70
 $\Delta = 30' 48" 26.3" (LT)$
 $D = 36' 57" 54.1"$
 $L = 83.34'$
 $T = 42.70'$
 SE = EXIST
 RO = EXIST

-Y10-
 PI Sta 11+3.55
 $\Delta = 37' 06" 13.2" (LT)$
 $D = 63' 39" 43.1"$
 $L = 58.28'$
 $T = 30.20'$
 SE = EXIST
 RO = EXIST



K:\RAL_Roadway\01063094 - Blue Ridge Road\Plan\Plan Sheets\blue_psh_9.dgn

10/26/2023

1	REMOVED SCULPTURE PAD LOCATION PER CITY REQUEST	10/20/23	SMS	JHM
REV. No.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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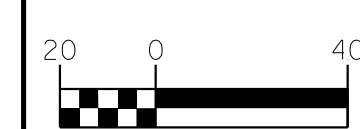
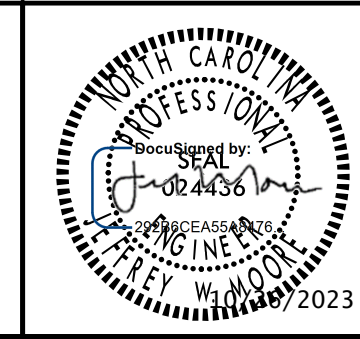
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ROADWAY PLAN SHEET

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PROJECT: **BLUE RIDGE ROAD WIDENING**

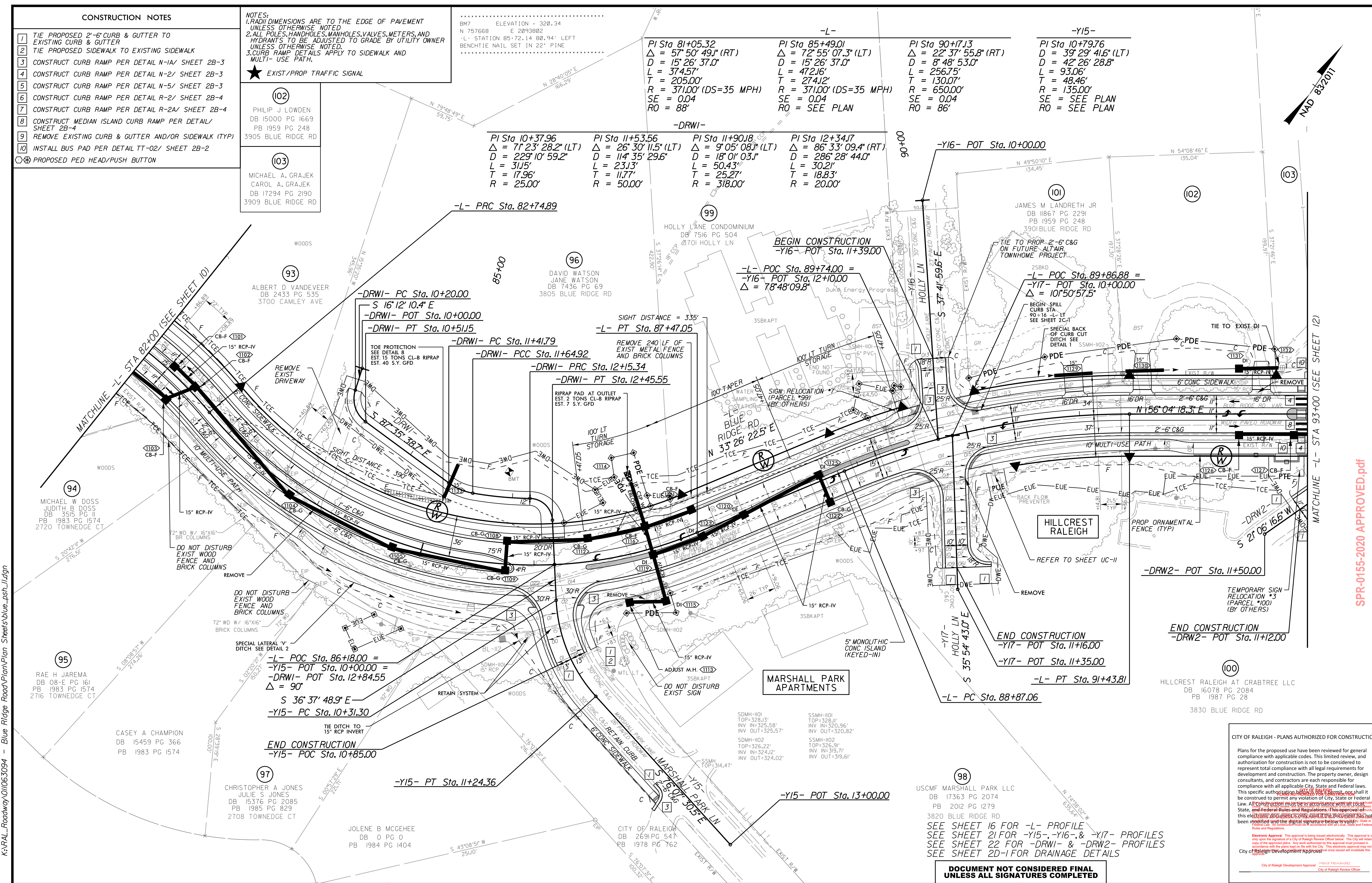
JOB NUMBER: 011063094

SHEET NUMBER: 9

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid.

City of Raleigh Development Approval



- CONSTRUCTION NOTES**
- TIE PROPOSED 2'-6" CURB & GUTTER TO EXISTING CURB & GUTTER
 - TIE PROPOSED SIDEWALK TO EXISTING SIDEWALK
 - CONSTRUCT CURB RAMP PER DETAIL N-1A/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-2/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL N-5/ SHEET 2B-3
 - CONSTRUCT CURB RAMP PER DETAIL R-2/ SHEET 2B-4
 - CONSTRUCT CURB RAMP PER DETAIL R-2A/ SHEET 2B-4
 - CONSTRUCT MEDIAN ISLAND CURB RAMP PER DETAIL/ SHEET 2B-4
 - REMOVE EXISTING CURB & GUTTER AND/OR SIDEWALK (TYP)
 - INSTALL BUS PAD PER DETAIL TT-02/ SHEET 2B-2
 - PROPOSED PED HEAD/PUSH BUTTON

NOTES:
 1. RADIUS DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. ALL POLES, HANDHOLES, MANHOLES, VALVES, METERS, AND HYDRANTS TO BE ADJUSTED TO GRADE BY UTILITY OWNER UNLESS OTHERWISE NOTED.
 3. CURB RAMP DETAILS APPLY TO SIDEWALK AND MULTI-USE PATH.

★ EXIST/PROP TRAFFIC SIGNAL

(102) PHILIP J LOWDEN
 DB 15000 PG 1669
 PB 1959 PG 248
 3905 BLUE RIDGE RD

(103) MICHAEL A. GRAJEK
 CAROL A. GRAJEK
 DB 17294 PG 2190
 3909 BLUE RIDGE RD

REV. No.	REVISIONS	DATE	DRAWN BY	CHECKED BY

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PREPARED IN THE OFFICE OF:

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ROADWAY PLAN SHEET

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT: BLUE RIDGE ROAD WIDENING

JOB NUMBER: 011063094

SHEET NUMBER: 11

CITY OF RALEIGH - PLANS AUTHORIZED FOR REVIEW

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization is not a guarantee of approval, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all local, State, and Federal Rules and Regulations. This approval of this electronic document is only valid if the document has not been modified and the digital signature below is valid. This approval is subject to the terms and conditions of the City of Raleigh Development Approval Form.

Electronic Approval: This approval is being issued electronically. The approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the City of Raleigh rules and regulations. This electronic approval may not be used for any other purpose.

City of Raleigh Development Approval: Phillip J. Lowden, City of Raleigh Review Officer

SPR-01155-2020 APPROVED.pdf

K:\RAL_Roadway\01063094 - Blue Ridge Road\Plan\Plan Sheets\blue_psh_11.dgn

5/8/2023

