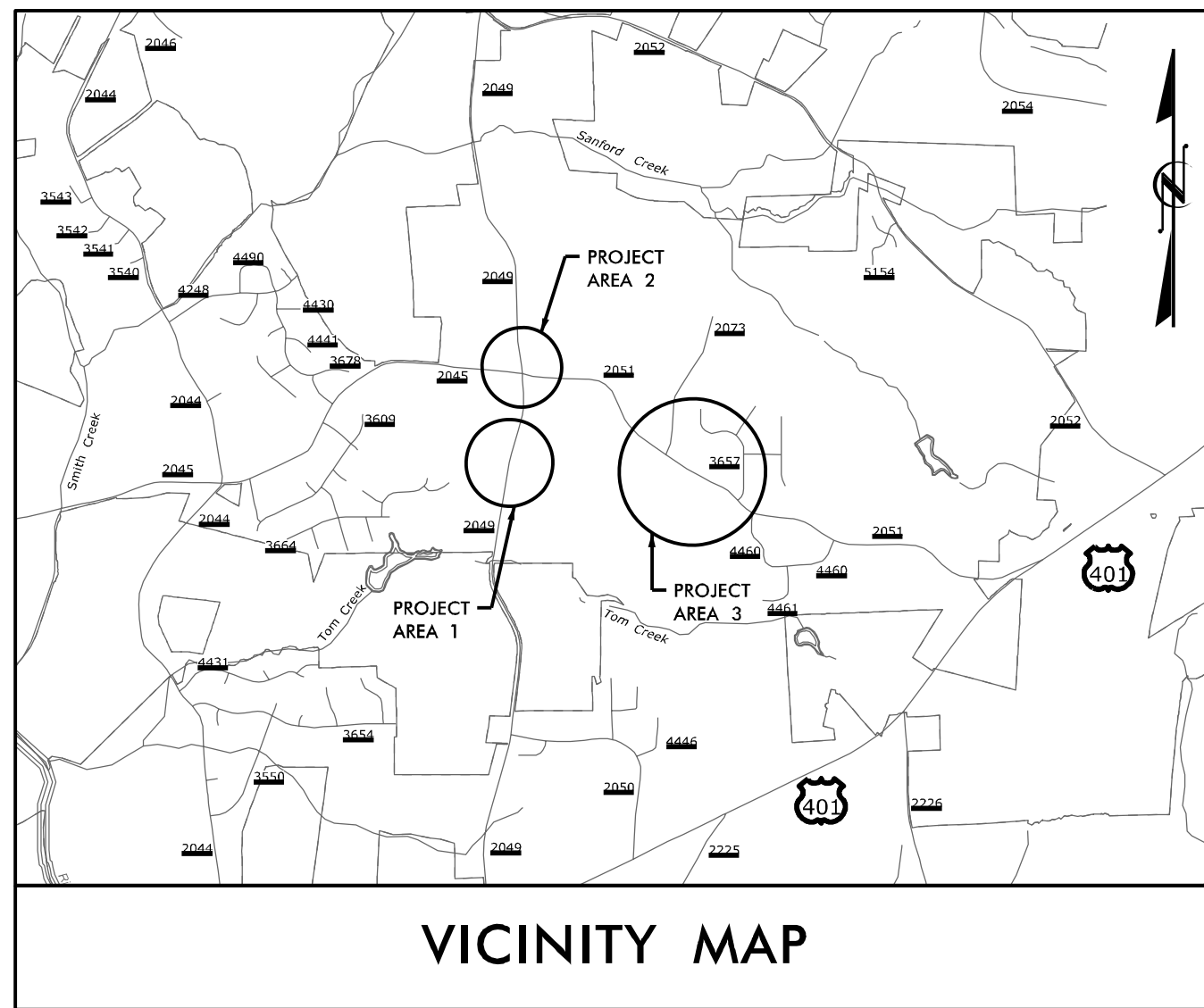


Submitted with V3
of PSP-23-04,
Pearce Farm
Preliminary
Subdivision Plat

ROADWAY CONSTRUCTION PLANS FOR PEARCE FARM ROADWAY IMPROVEMENTS

SR 2049 (FORESTVILLE ROAD) AND SR 2045/SR 2051 (BURLINGTON MILLS ROAD)
ROLESVILLE, NORTH CAROLINA



VICINITY MAP

75% PLANS

CLIENT

Ammons Development Group
PO Box 97487
Raleigh, NC 27624
919-845-6415
Attn: Drew Ammons

SURVEYOR

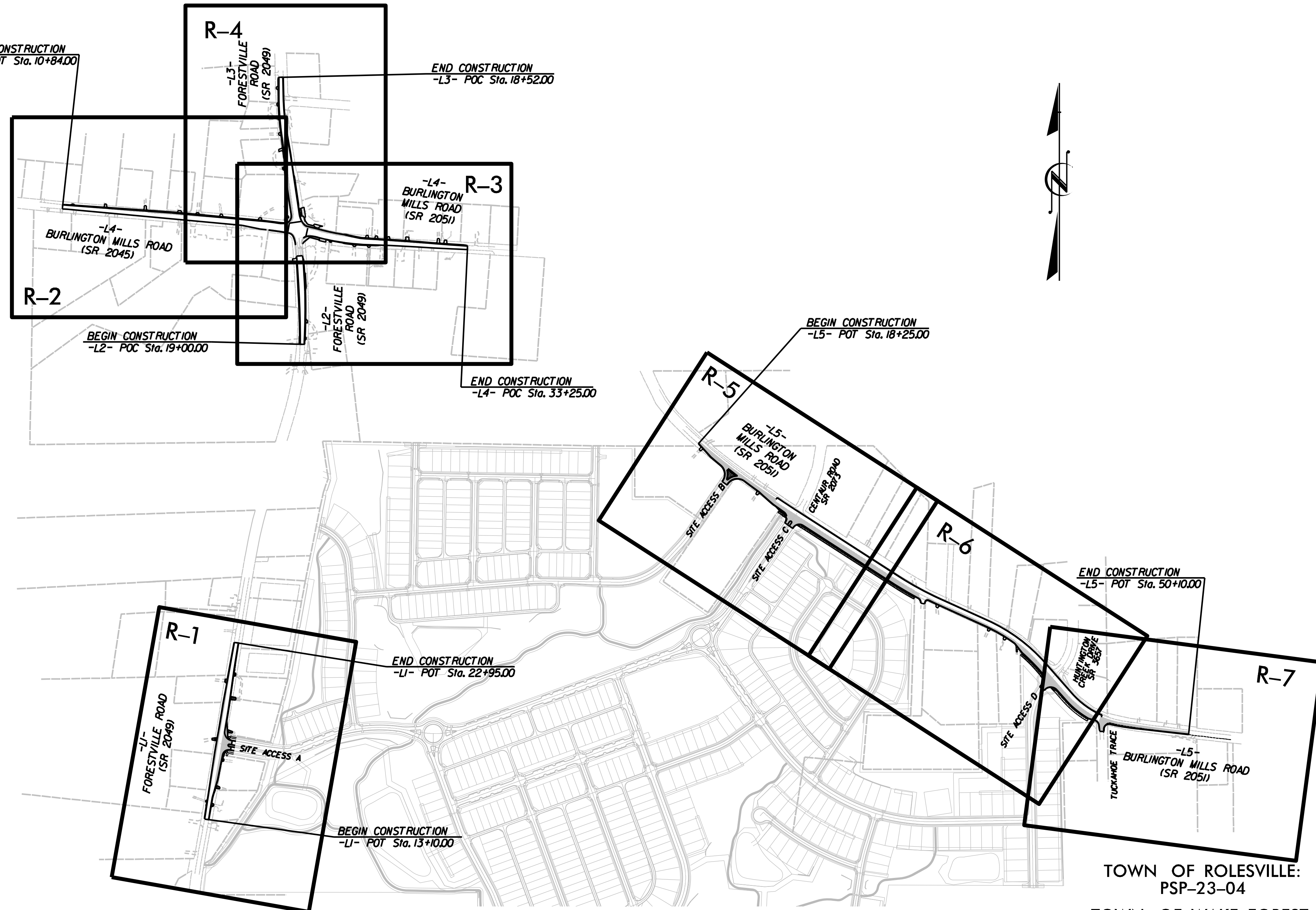
Bass, Nixon & Kennedy, Inc.
6310 Chapel Hill Rd, Suite 250
Raleigh, NC 27604
919-851-4422
Attn: Dan Gregory, PLS

SITE ENGINEER

McAdams
2905 Meridian Parkway
Durham, NC 27713
919-475-6439
Attn: Todd O'Daniel, PE

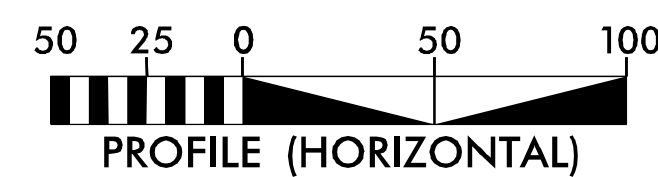
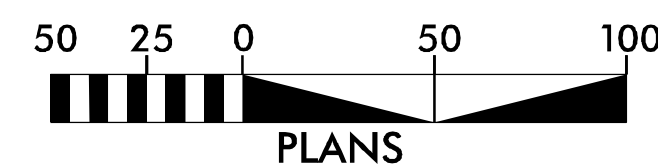
ROADWAY ENGINEER

Exult Engineering
24 Cabarrus Avenue East, Suite 3000
Concord, NC 28025
980-495-2249
Attn: Elizabeth Lynch, PE



SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	CONVENTIONAL SYMBOLS
3	PROJECT NOTES
4A thru 4C	TYPICAL SECTIONS
5A thru 5D	DETAILS
EX-1 thru EX-7	EXISTING CONDITIONS SHEETS
R-1 thru R-7	PLAN SHEETS
R-8 thru R-12	PROFILE SHEETS
SD-1 thru SD-4	INTERSECTION SIGHT DISTANCE SHEETS
X-1 thru X-46	ROADWAY CROSS SECTIONS

GRAPHIC SCALES



NOTE: PLANS ARE BEING REVIEWED BY TOWN OF ROLESVILLE. PLANS AND CALCULATIONS ARE BEING REVIEWED BY WAKE COUNTY FOR EROSION AND SEDIMENTATION CONTROL.

I. All public facilities, including utilities, sidewalks, and handicap ramps, are to be constructed on all streets as specified by NCDOT, Town of Rolesville and Town of Wake Forest standards. Such facilities approved by the Town of Wake Forest shall be installed as approved, unless a change is approved by the Town of Wake Forest.
 II. Execution of these Construction Plans by the review engineer for the Town of Wake Forest in no way limits the responsibility of the owner and engineer of record with regard to compliance with all federal, state, and local standards and/or conditions.
 III. Owner hereby certifies and agrees to take such action as may be required by the Town of Wake Forest to correct any errors, omissions, or noncompliance with Town standards and/or conditions described in these Construction Plans, including resubmission or re-execution of these Construction Plans with the appropriate corrections and/or revisions.

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION
 Electronic Approval: This approval is being issued electronically. This approval is valid 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 of this approval once issued will invalidate this approval.
 City of Raleigh Development Approval: _____
 Raleigh Water Review Officer _____

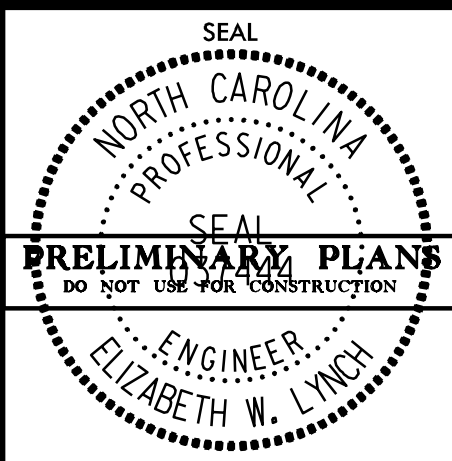
These plans have been electronically approved for construction by the Town of Wake Forest Public Works and Engineering Departments. This approval may not be altered once issued.
 Public Works/Engineering _____
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 Planning _____

Owner _____ Date _____



PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

TITLE SHEET



DESIGNED BY: R. MANK	DATE
REVIEWED BY: E. LYNCH	INIT.
JOB NO.: 00103002	REVISIONS
DATE: 04/30/24	
SCALE:	

TOWN OF ROLESVILLE:
PSP-23-04
TOWN OF WAKE FOREST:
PSP-XX-XX

SHEET NO.
1

4/30/2024 \$USERS\$ Z:\shared\0 Projects\4 Roadway\0103002 Pearce Farm Roadway and Signal Design\10 CAD\Roadway\Proj\Pearce Farm\rdy_01_tsh.dgn

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	⊕
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	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
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	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----
Storm Sewer	-----

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊕
Power Transformer	⊕
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
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	-----
TV:	
TV Pedestal	⊕
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	-----
SANITARY SEWER:	
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground 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.*)	-----

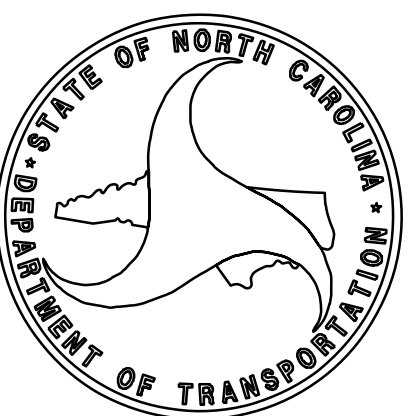
MISCELLANEOUS:

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.	⊕
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.

EXULT®
 ENGINEERING
 301 S. Main Street
 Kannapolis, NC 28081
 NC License #C-4445
 www.exultengineering.com

PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

CONVENTIONAL SYMBOLS



DESIGNED BY: R. MANK	DATE: 04/30/24
REVIEWED BY: E. LYNCH	SCALE: 1"=40'
INIT.	DATE
REVISIONS	

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
300.01	Method of Pipe Installation
310.02	Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
310.03	Cross Pipe End Section - Precast Concrete Section for 18" to 30" Pipe
310.10	Driveway Pipe Construction
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
654.01	Pavement Repairs
700.05	Tying Proposed Pavement to Existing
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
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. Dwg 840.14 and 840.15
840.17	Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.36	Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates
840.37	Steel Grate and Frame
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.51	Brick Manhole - 12" thru 36" Pipe
840.52	Precast Manhole - 4', 5' and 6' Diameter
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.03	Driveway Turnout - Drop Curb Type
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
850.01	Concrete Paved Ditches
852.01	Concrete Islands
852.02	Concrete Mountable Median - for Use with Rigid or Flexible Pavement
852.04	Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
852.05	Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter
852.10	Median Construction - with Curb and Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets

GENERAL NOTES

- CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THESE PLANS, THE LATEST EDITIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK AND REGULATIONS, AND THE STANDARDS, SPECIFICATIONS AND GENERAL DESIGN STANDARDS OF THE LOCAL MUNICIPALITY AND AMENDMENTS OR SUPPLEMENTS THERETO. WHERE CONFLICTS EXIST BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL APPLY UNLESS OTHERWISE NOTED IN THESE PLANS.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS, AND SHALL VERIFY OR OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION. NCDOT ENCROACHMENTS SHALL BE OBTAINED BY THE ENGINEER. CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PROVISIONS SET FORTH IN THE THE APPROVED NCDOT DRIVEWAY PERMIT AND ENCROACHMENT AGREEMENTS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TRAFFIC MANAGEMENT ON ALL PUBLIC STREETS AND FOR ALL JOBSITE SAFETY THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DEVICES, LANE CLOSURES, ROAD CLOSURES, POSITIVE PROTECTION AND/OR ANY OTHER WARNING OR POSITIVE PROTECTION DEVICES NECESSARY FOR THE SAFETY OF ROAD USERS DURING CONSTRUCTION AND ANY SUBSEQUENT MAINTENANCE. THIS SHALL BE PERFORMED IN CONFORMANCE WITH THESE PLANS AND THE LATEST NCDOT ROADWAY STANDARD DRAWINGS AND SPECIFICATIONS FOR ROADS AND STRUCTURES AND AMENDMENTS OR SUPPLEMENTS THERETO AND AS FURTHER DIRECTED BY THE LOCAL MUNICIPALITY AND STATE INSPECTORS. WHEN THERE IS NO GUIDANCE PROVIDED IN THE ROADWAY STANDARD DRAWINGS OR SPECIFICATIONS, COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND AMENDMENTS OR SUPPLEMENTS THERETO. NOW WORK SHALL BE PERFORMED IN THE RIGHT OF WAY UNLESS THIS REQUIREMENT IS SATISFIED. THE CONTRACTOR SHALL NOT MAKE ANY LANES CLOSURES OR CHANGES TO THE EXISTING TRAVEL PATTERNS ON ANY PUBLIC STREET WITHOUT PRIOR APPROVAL FROM THE NCDOT AND THE LOCAL MUNICIPALITY.
- ANY PROPRIETARY PRODUCTS OR APPROVED ALTERNATES SPECIFIED IN THESE PLANS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
- ENGINEER MUST BE NOTIFIED IN WRITING IMMEDIATELY OF ANY VARIATIONS OR AMBIGUITIES BETWEEN THE PLANS AND SPECIFICATIONS AND ACTUAL SITE CONDITIONS. ANY WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH INCONSISTENCIES OR AMBIGUITIES IS AT THE CONTRACTOR'S RISK.
- THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION CONFERENCE WITH NCDOT AND THE LOCAL MUNICIPALITY PRIOR TO COMMENCING CONSTRUCTION.

DEMOLITION AND GRADING NOTES

- THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACE AT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AND EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.
- THE CONTRACTOR SHALL REMOVE ALL TREES, STUMPS AND VEGETATIVE MATERIAL FROM THE RIGHT OF WAY AND DISPOSE OF IN A LICENSED LANDFILL OR DISPOSAL SITE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING THE REMOVAL AND DISPOSAL OF MATERIALS AND DEBRIS.
- ALL MATERIALS USED FOR BACKFILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER NON-COMPATIBLE SOIL TYPE MATERIAL UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.
- BACKFILL MATERIAL IS TO BE PLACED AT A MAXIMUM OF 6 INCH LOOSE LAYERS AND EACH LAYER THOROUGHLY COMPACTED. ALL EMBANKMENT BACKFILL SHALL BE COMPACTED TO 95% DENSITY AND ALL SUBGRADE TO 100% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT. CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT AND MOISTURE CONDITION ALL FILL PER THE GEOTECHNICAL ENGINEER'S SPECIFICATIONS AND ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE PATTERNS AND PROVIDING POSITIVE DRAINAGE AT ALL TIME THROUGHOUT PROJECT CONSTRUCTION. THE CONTRACTOR SHALL USE INTERIM SILT FENCES, DIVERSION DITCHES, BERMS, OR OTHER METHODS AS REQUIRED TO DIRECT DRAINAGE TO BEST UTILIZE THE EROSION CONTROL DEVICES IN PLACE, AND TO PREVENT SILT AND CONSTRUCTION RUNOFF FROM DRAINING TO PROPERTIES OFFSITE. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL EROSION CONTROL AND CONSERVATION ORDINANCES.
- TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. REFER TO EROSION CONTROL PLANS FOR THE CLEARING LIMITS AND LOCATION AND TYPE OF DEVICES.

PAVING/CURBING

- PROVIDE 10" TRANSITION TO TIE PROPOSED CURB AND GUTTER TO THE EXISTING HEIGHT, WIDTH AND SHAPE OF EXISTING CURB AND GUTTER AT TIE-IN POINTS.
- THE CONTRACTOR IS RESPONSIBLE FOR ENGINEERING AND SURVEY WORK REQUIRED FOR LINE AND GRADE CONTROL POINTS REQUIRED FOR EARTHWORK AND FOR STAKING OUT PAVEMENT AND ALL OTHER ITEMS IN THE PLANS.
- ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB AND ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.
- REMOVE EXISTING CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE FOR NEW CONSTRUCTION. SAW CUT EXISTING ASPHALT DRIVE AT LIMITS OF NEW CURBING TO OBTAIN A CLEAN EDGE.
- PAVING SHALL BE IN ACCORDANCE WITH THE 2024 STANDARD SPECIFICATIONS SECTIONS 610, 1012 AND 1020. THE CONTRACTOR SHALL FOLLOW ALL PROCEDURES IN THE QUALITY MANAGEMENT SYSTEM (QMS) FOR ASPHALT PAVEMENT AND MUST ADHERE TO ALL TESTING REQUIREMENTS AND QUALITY CONTROL REQUIREMENTS SPECIFIED IN THE ENCROACHMENT AND/OR DRIVEWAY PERMIT. THE NOMINATION OF THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE NCDOT SPECIFICATIONS.
- ALL RAMPS SHALL COMPLY WITH THE LATEST NCDOT STANDARDS AND ADA REQUIREMENTS. CURB RAMPS ARE SHOWN ON THE PLANS AT THE APPROXIMATE LOCATIONS.
- ALL CURVES ARE TO BE SUPERELEVATED IN ACCORDANCE WITH STD. 225.04 AND 225.05 USING THE RATE OF SUPERELEVATION RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

UTILITY NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION (SHOWN OR NOT SHOWN) OF UTILITIES WITHIN THE PROJECT LIMITS. EXISTING UTILITY LOCATIONS AND SIZES SHOWN HAVE BEEN PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY.
- CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA 811 AT 1-800-632-4949 AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION, GRADING OR CONSTRUCTION ACTIVITY FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE. CONTRACTOR TO CONTACT LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF NORTH CAROLINA 811.
- RELOCATION OF EXISTING UTILITIES TO BE COORDINATED WITH LOCAL UTILITY PROVIDER(S).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY OWNERS AND FOR PROVIDING PROTECTION AND SAFEGUARDS TO PREVENT DAMAGE OR INTERRUPTION TO EXISTING FACILITIES AND TO MAINTAIN ACCESSIBILITY TO EXISTING UTILITIES. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- WATER VALVE BOXES AND WATER METER BOXES THAT ARE ENCOUNTERED WITHIN THE PROJECT LIMITS ARE TO BE RAISED OR LOWERED TO MATCH THE ADJACENT FINISHED WORK (SEE SECTION 858-1 AND 1510 NCDOT SPECIFICATIONS).

TOWN OF ROLESVILLE:
PSP-23-04
TOWN OF WAKE FOREST:
PSP-XX-XX

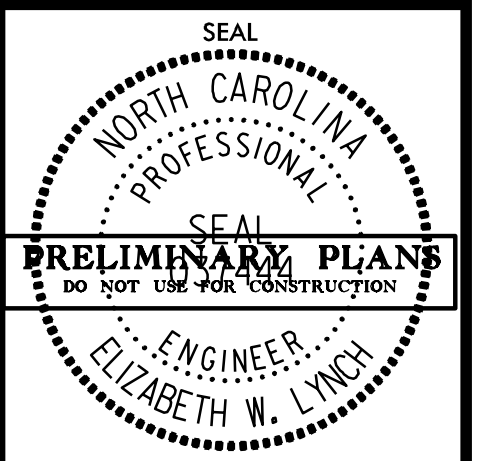
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Raleigh Water Review Officer

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Planning



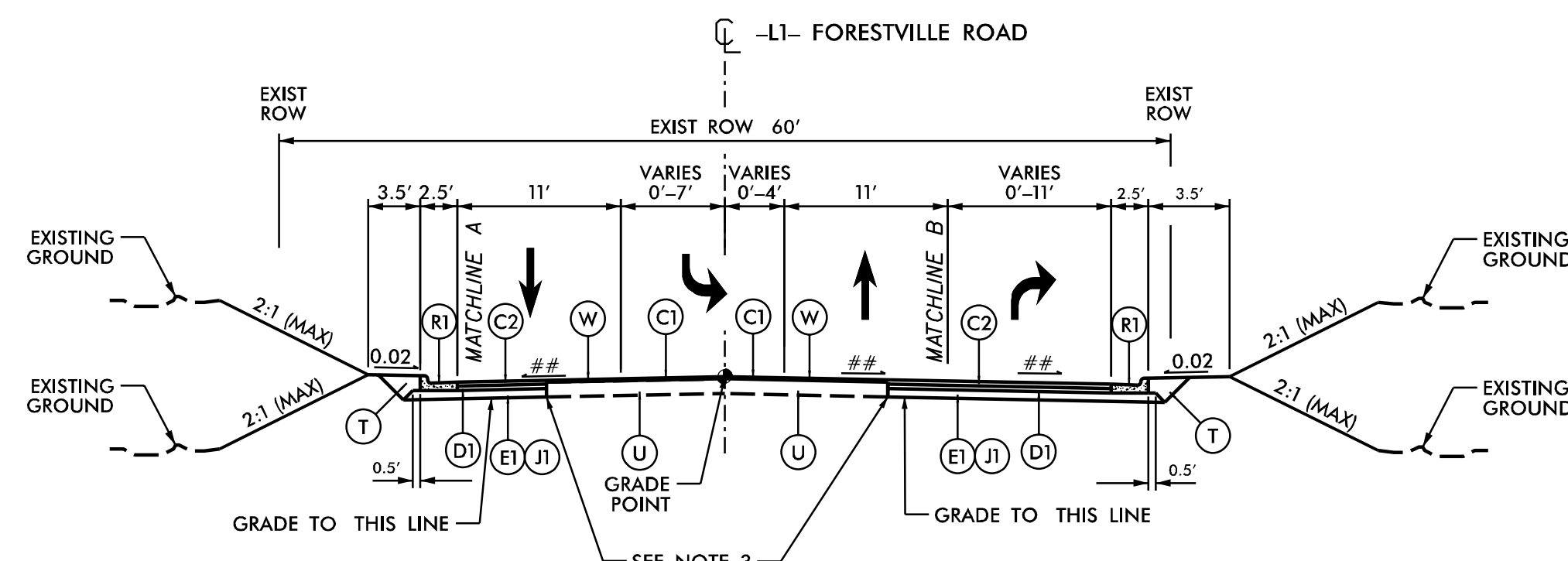
PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

GENERAL NOTES

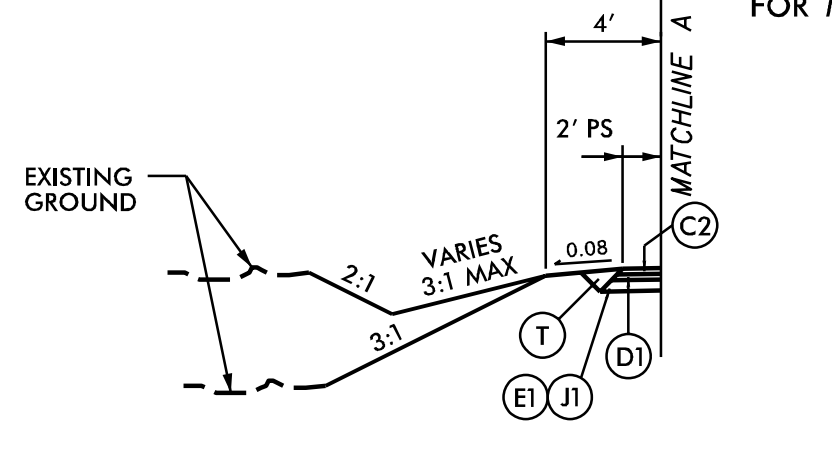


DESIGNED BY: R. MANK	DATE: 04/03/24	INIT:	DATE:
REVIEWED BY: E. LYNCH	SCALE:	INIT:	DATE:
REVISIONS		INIT:	DATE:
JOB NO.: 00103002		SHEET NO.	
DATE: 04/03/24		3	

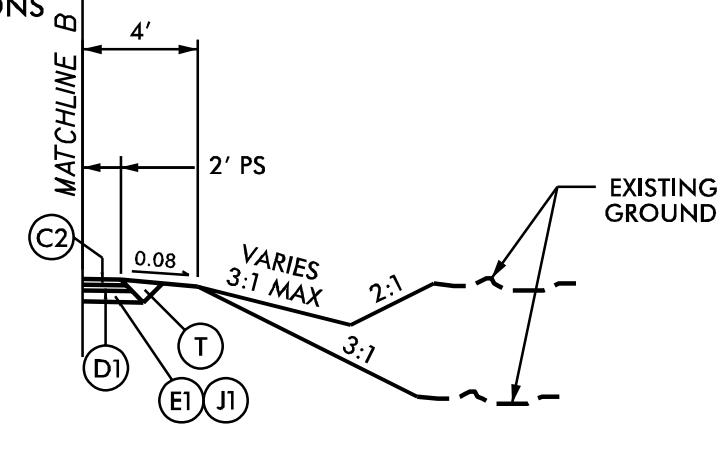
4/30/2024
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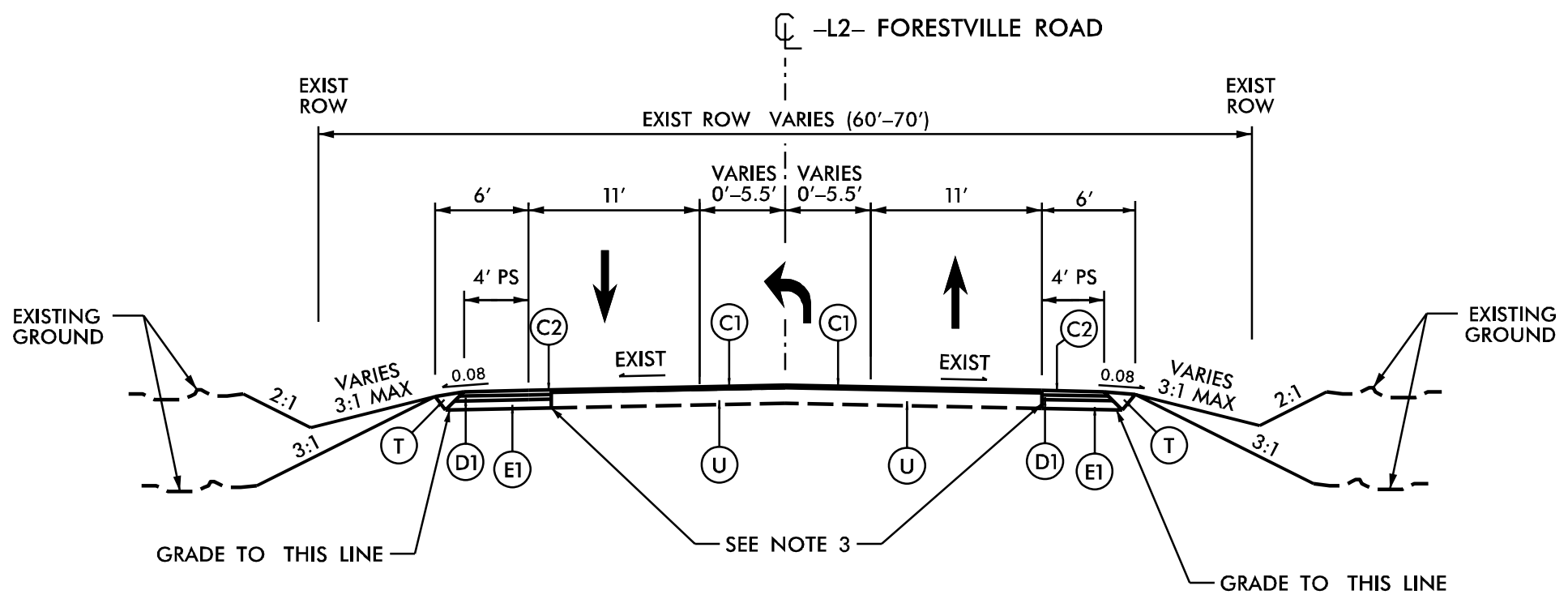
TYPICAL SECTION NO. 1
 -L1- STA 13+10.00 TO 22+95.00
 ## REFER TO CROSS SECTIONS FOR MODIFIED SUPERELEVATIONS



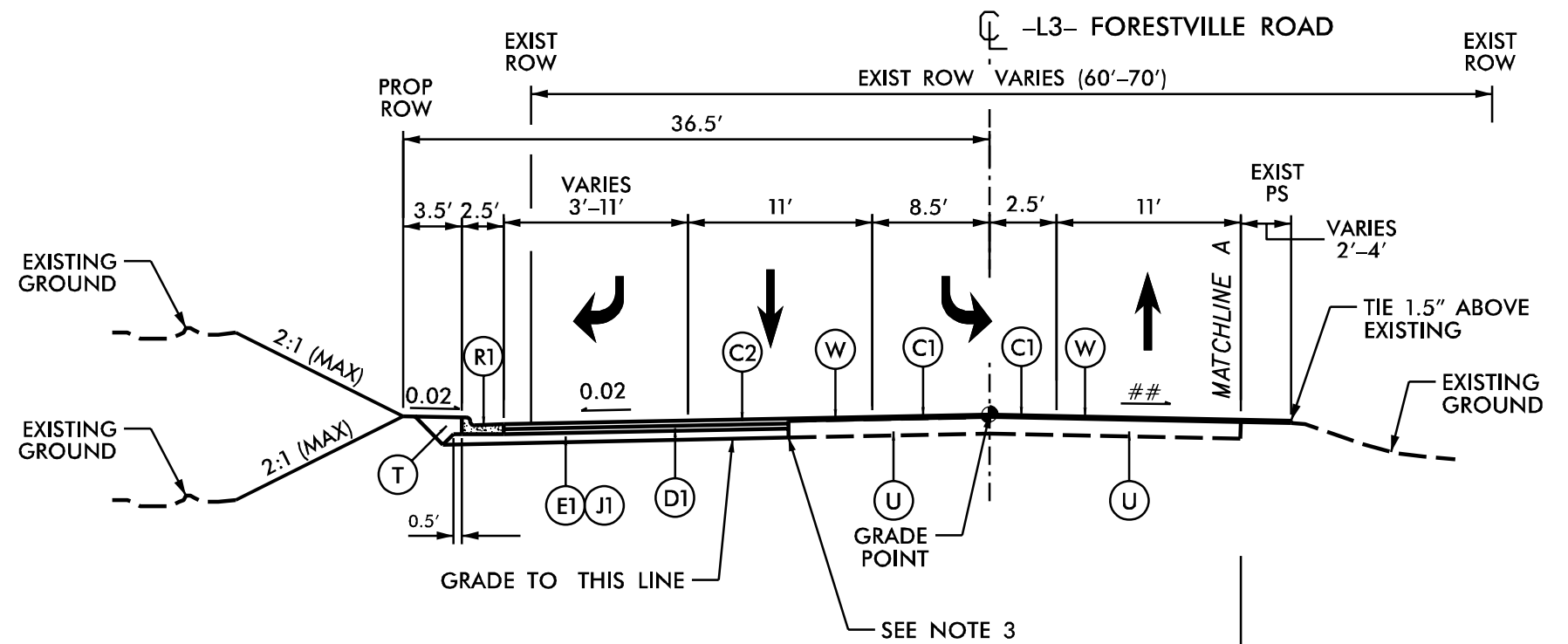
TYPICAL SECTION NO. 1A
 STA. 13+10.00 TO 14+00.00
 STA. 20+61.59 TO 22+95.00



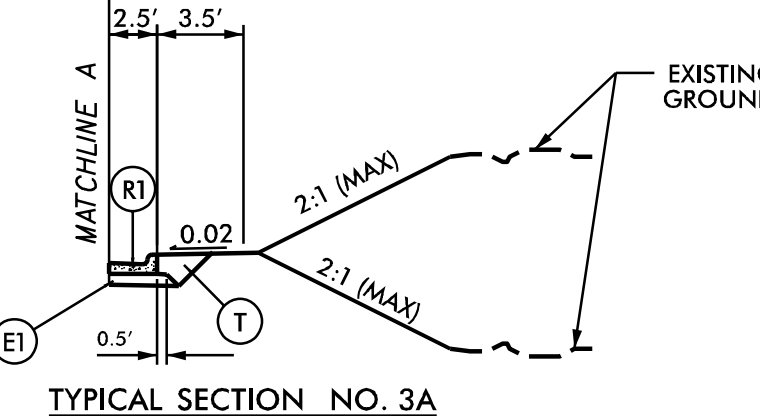
TYPICAL SECTION NO. 1B
 STA. 21+33.34 TO 22+95.00



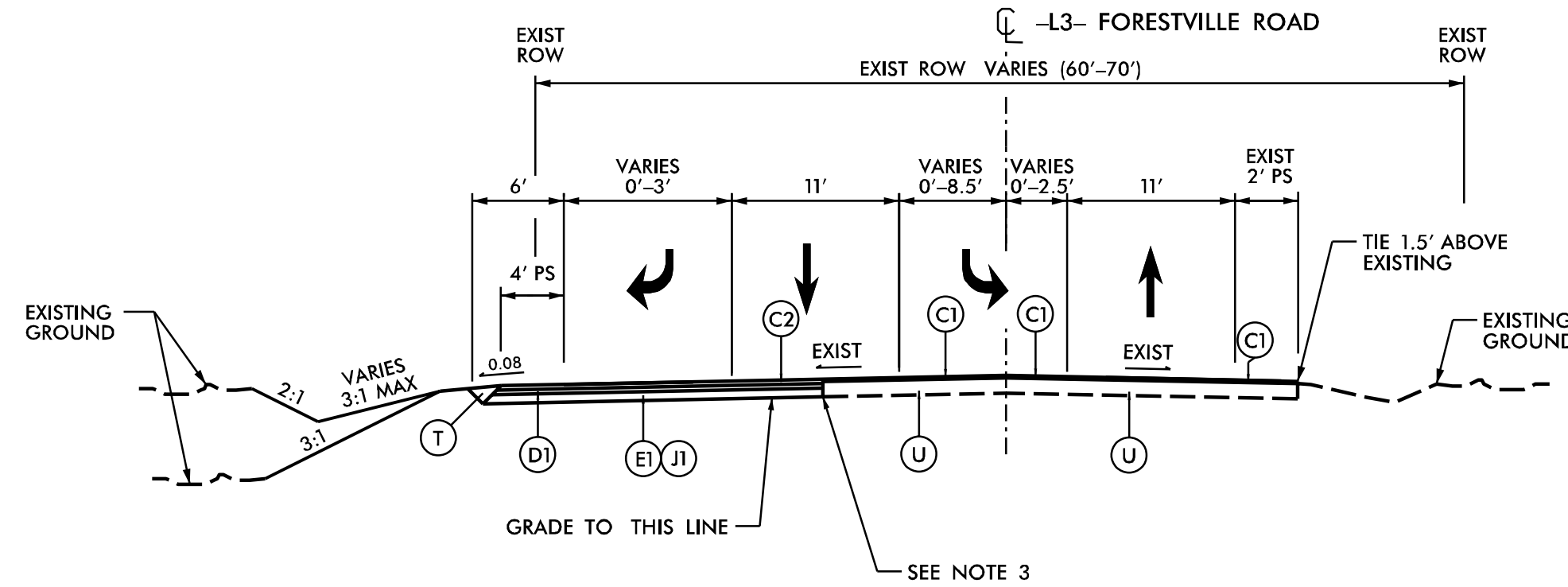
TYPICAL SECTION NO. 2
 -L2- STA 19+00.00 TO 23+86.56



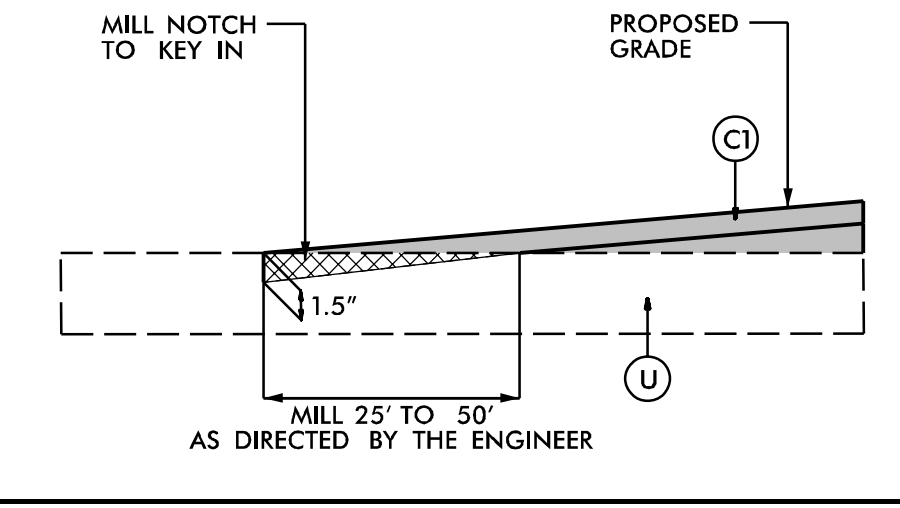
TYPICAL SECTION NO. 3
 -L3- STA 10+50.00 TO 14+00.00
 ## REFER TO CROSS SECTIONS FOR MODIFIED SUPERELEVATIONS



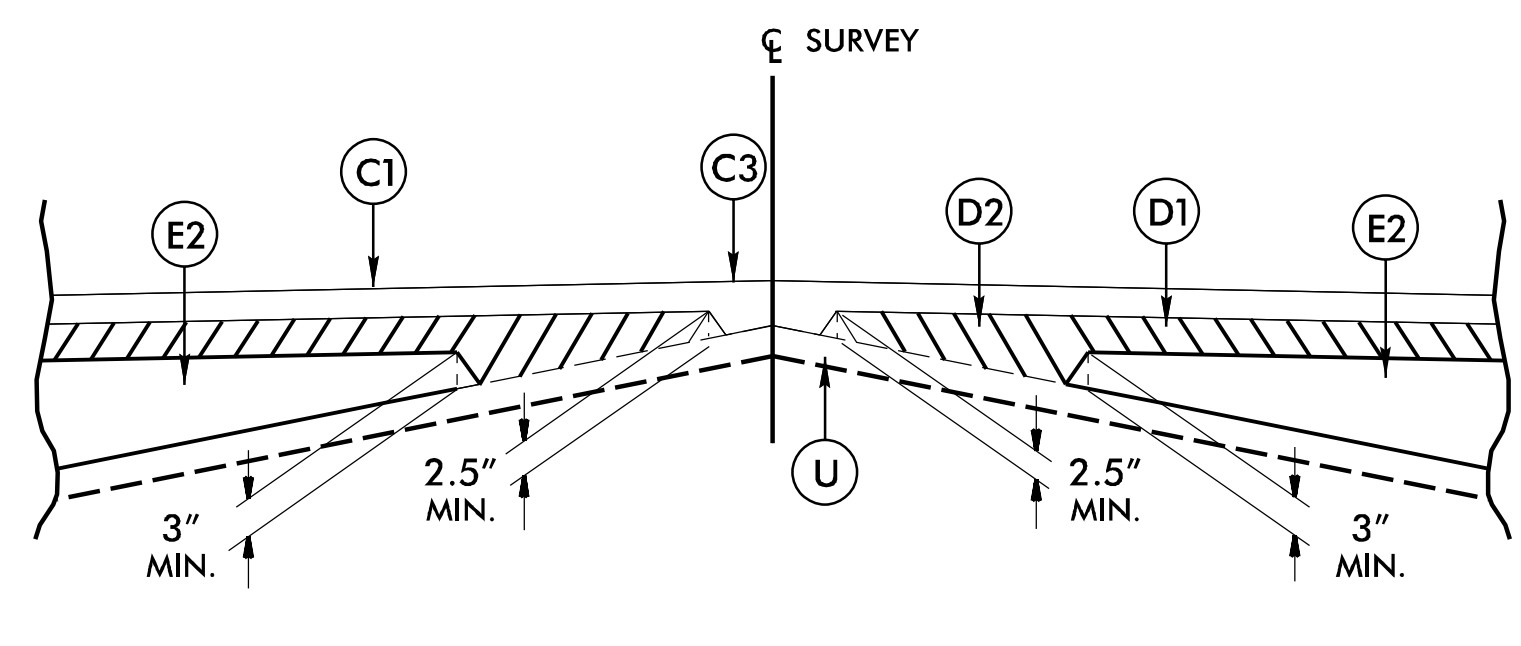
TYPICAL SECTION NO. 3A
 STA. 10+50.00 TO 11+33.00



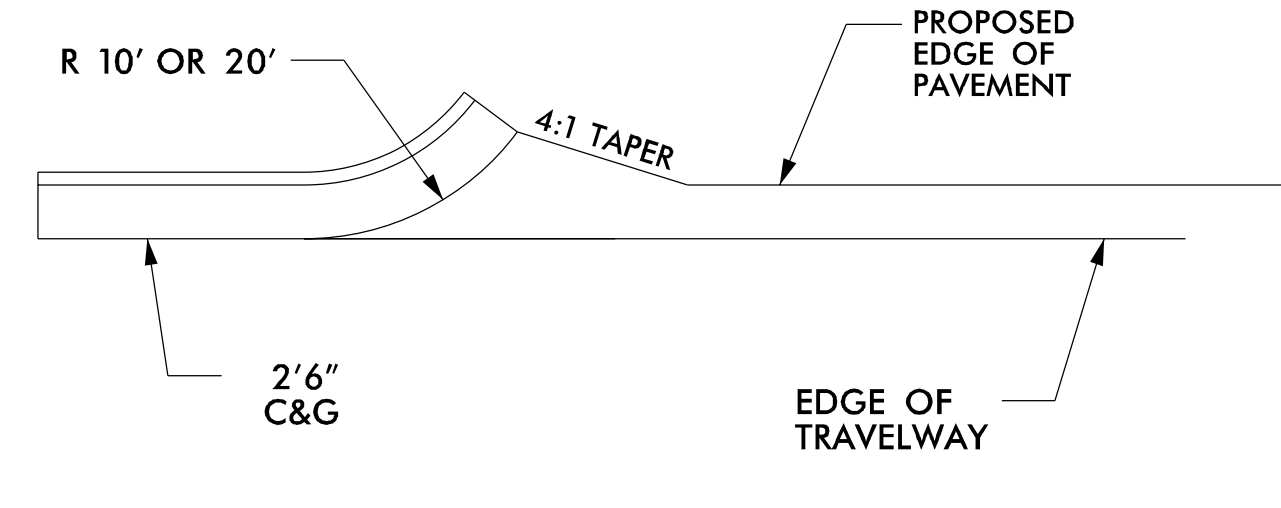
TYPICAL SECTION NO. 4
 -L3- STA. 14+00.00 TO 18+52.00



DETAIL 1 - INCIDENTAL MILLING DETAIL
 NOT TO SCALE



METHOD OF WEDGING



CURB RETURN DETAIL
 NOT TO SCALE

PAVEMENT SCHEDULE

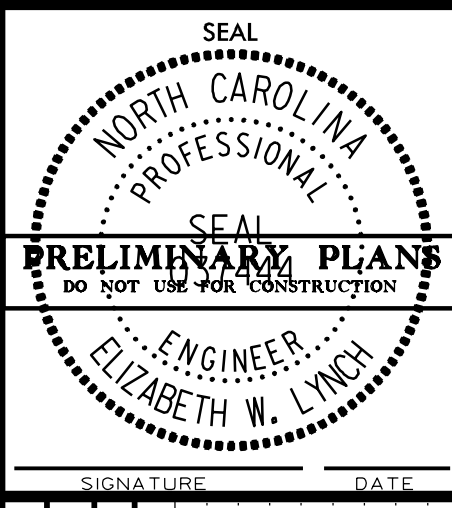
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. 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" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
J1	PROP. 10" AGGREGATE BASE COURSE (MAY BE SUBSTITUTED FOR E1 IN AREAS WIDER THAN 6')
R1	PROP. 2'-6" CONCRETE CURB & GUTTER (NCDOT STD. 846.01)
S	PROPOSED 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	VARIABLE DEPTH MILLING (0"-3")
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL THIS SHEET)

- NOTES:
 1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.
 2. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS.
 3. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO PROVIDE 1' MINIMUM FULL DEPTH ASPHALT PAVEMENT.

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PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

TYPICAL SECTIONS



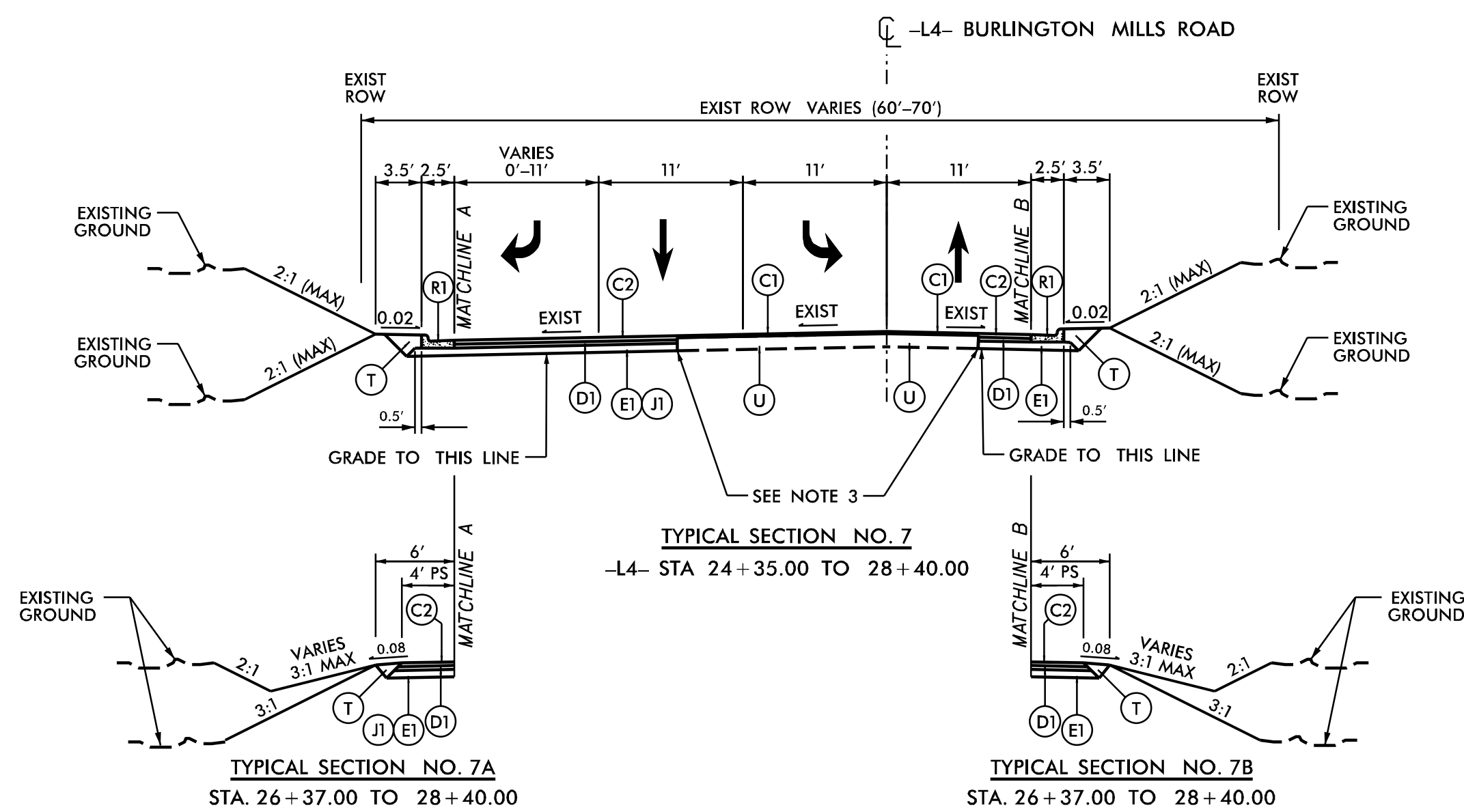
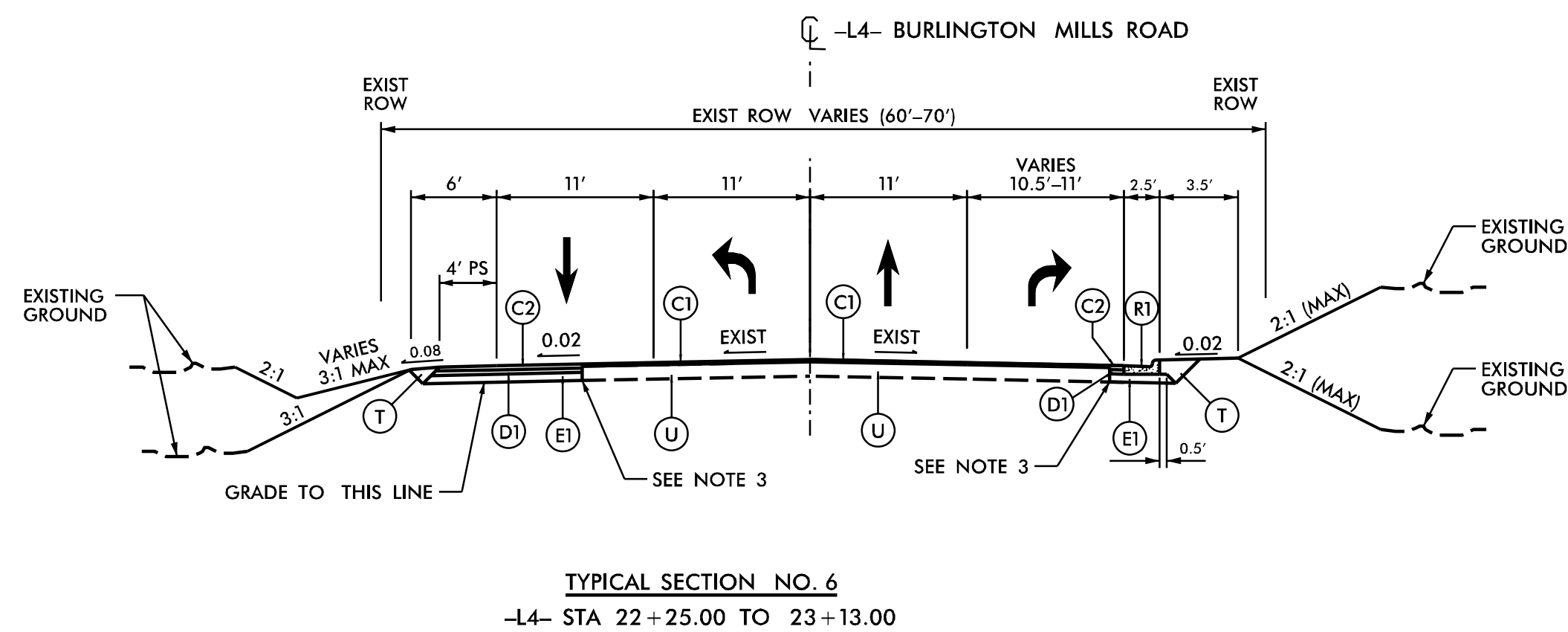
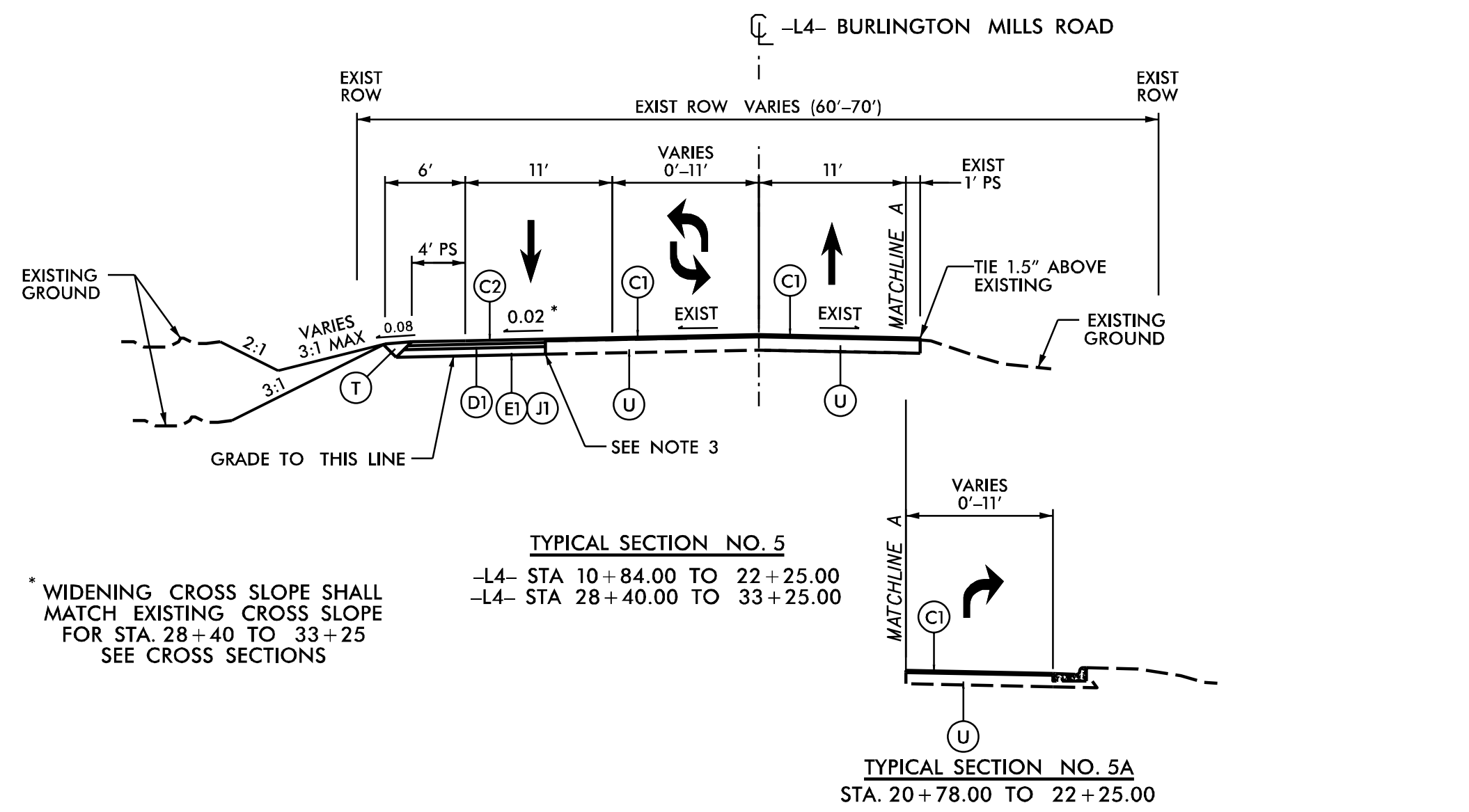
DESIGNED BY: G. BOYLE	DATE: 04/30/24	SCALE: 1" = 50'	REVISIONS:
REVIEWED BY: E. LYNCH	DATE:	SCALE:	REVISIONS:
DATE:	DATE:	DATE:	DATE:
INIT:	INIT:	INIT:	INIT:

TOWN OF ROLESVILLE:
 PSP-23-04
TOWN OF WAKE FOREST:
 PSP-XX-XX

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 Planning

4/30/2024
 Z:\Shared\0_Projects\4_Roadway\00103002_Pearce Farm_Roadway.mxd Signal\Design\0_CAD\Roadway\Proj\Pearce Farm\rdy_04B_typ.dgn



TYPICAL SECTION NO. 7A
 STA. 26+37.00 TO 28+40.00

TYPICAL SECTION NO. 7B
 STA. 26+37.00 TO 28+40.00

PAVEMENT SCHEDULE

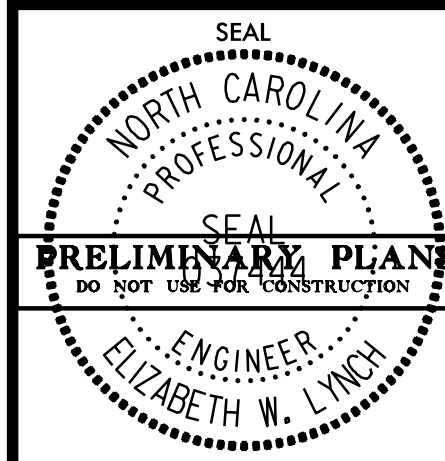
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J1	PROP. 10" AGGREGATE BASE COURSE (MAY BE SUBSTITUTED FOR E1 IN AREAS WIDER THAN 6')
R1	PROP. 2'-6" CONCRETE CURB & GUTTER (NCDOT STD. 846.01)
S	PROPOSED 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL SHEET 4A)

- NOTES:
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 2. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS.
 3. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO PROVIDE 1' MINIMUM FULL DEPTH ASPHALT PAVEMENT.

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PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

TYPICAL SECTIONS



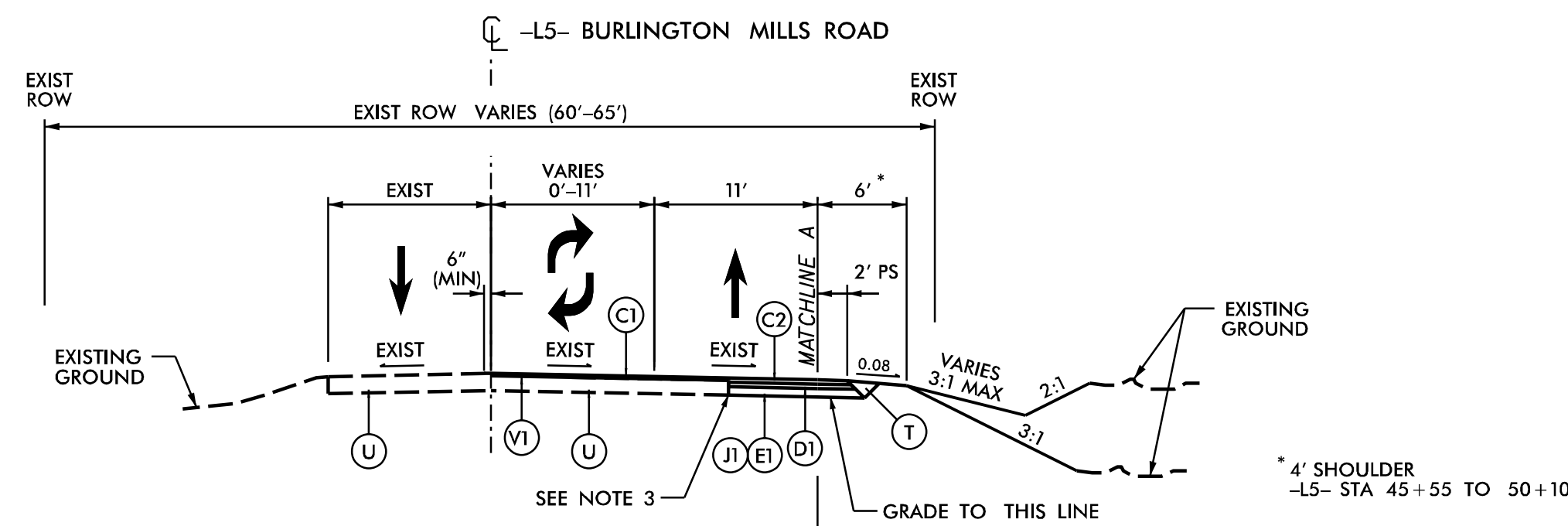
TOWN OF ROLESVILLE:
 PSP-23-04
 TOWN OF WAKE FOREST:
 PSP-XX-XX

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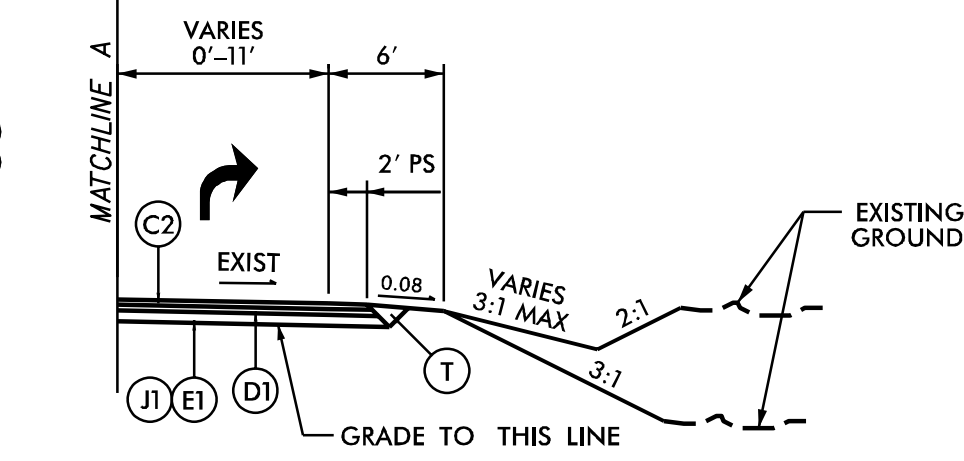
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DESIGNED BY: G. BOYLE	DATE: 04/30/24	SCALE: 1" = 50'	REVISIONS:	SHEET NO.
REVIEWED BY: E. LYNCH	DATE:	SCALE:	REVISIONS:	4B
SIGNATURE:	DATE:	INITIALS:	REVISIONS:	

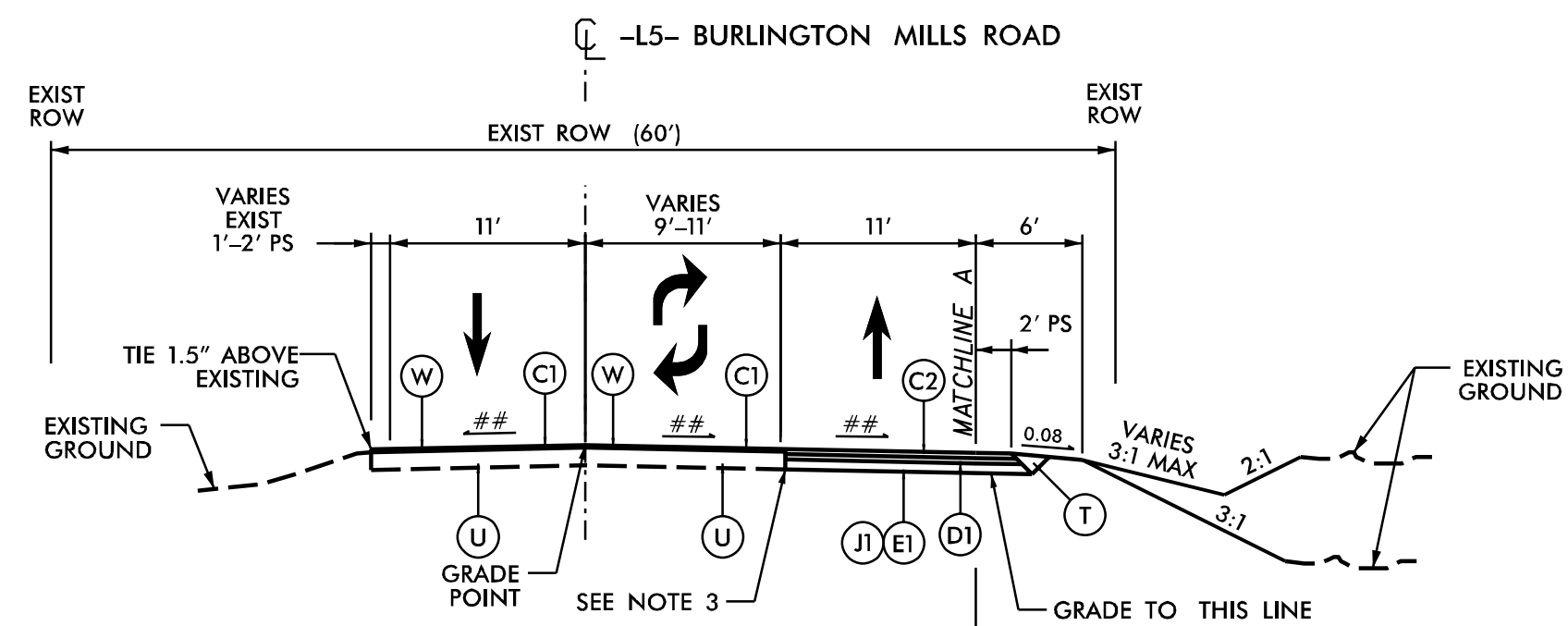
4/30/2024
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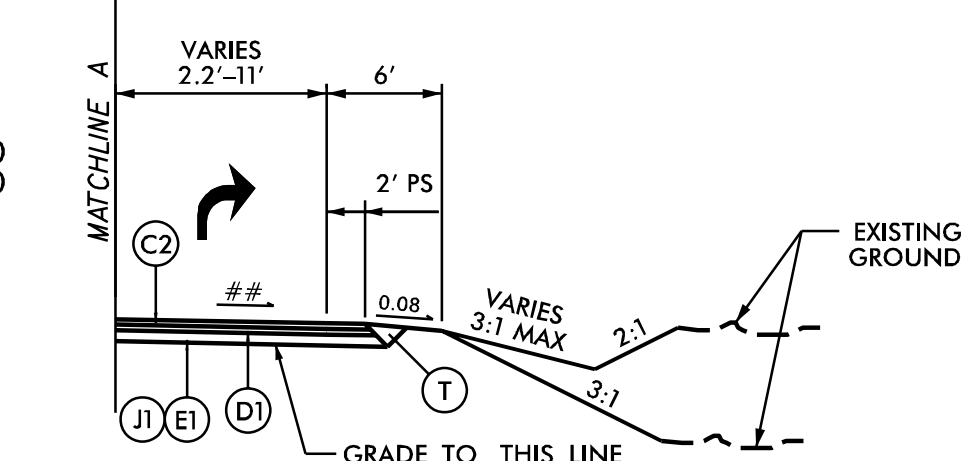
TYPICAL SECTION NO. 8
 -L5- STA 18+25.00 TO 23+50.00
 -L5- STA 45+20.00 TO 50+10.00



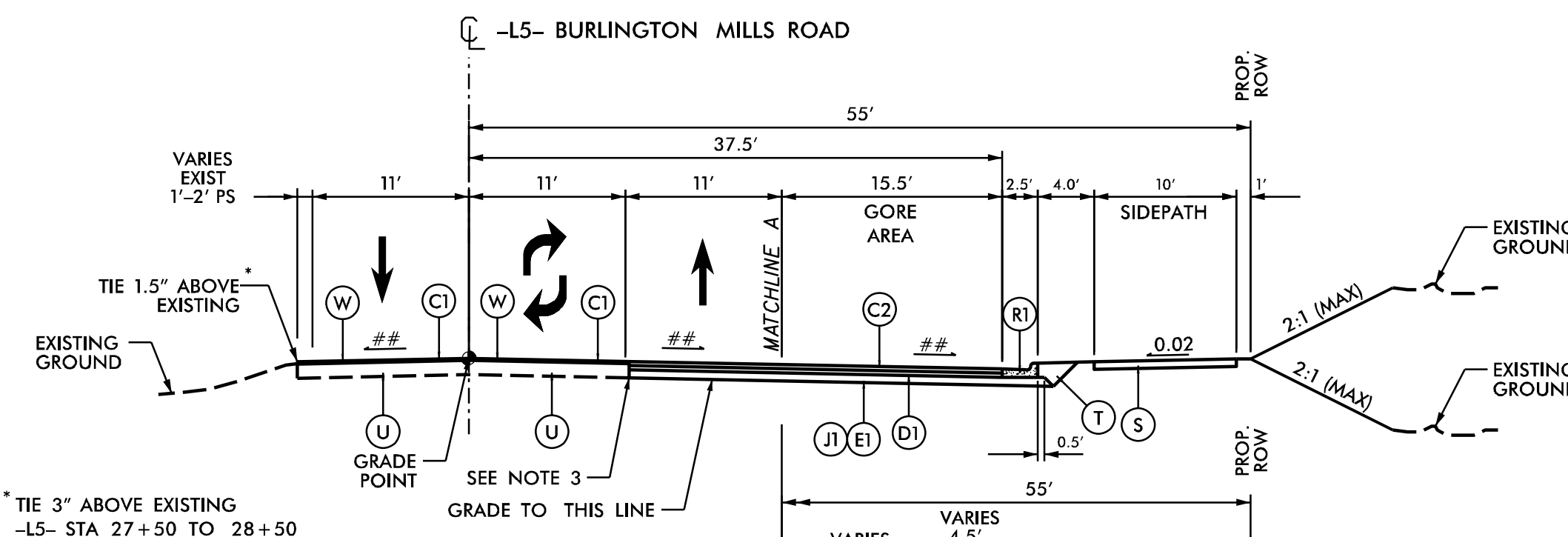
TYPICAL SECTION NO. 8A
 STA. 18+25.00 TO 20+25.00
 STA. 22+50.00 TO 23+50.00



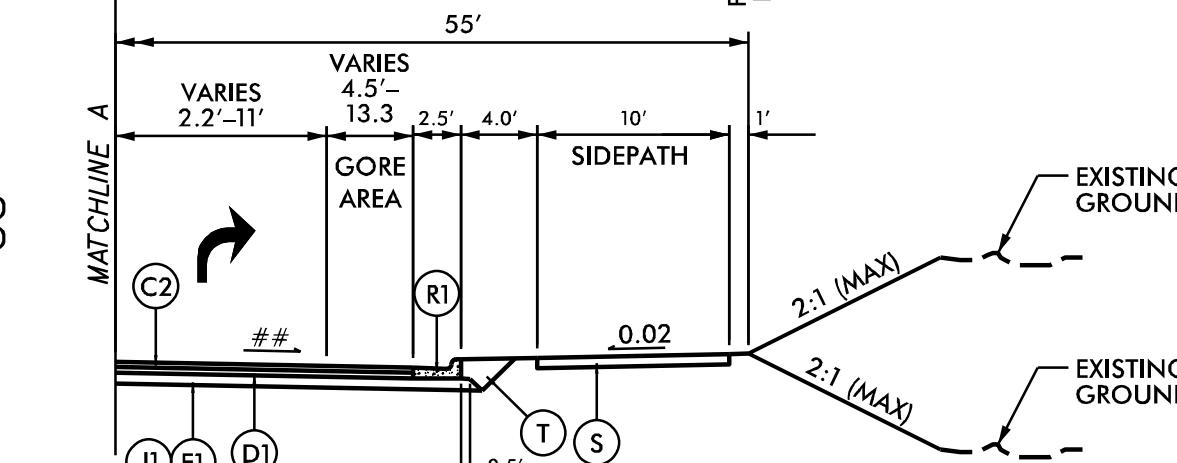
TYPICAL SECTION NO. 9
 -L5- STA 23+50.00 TO 23+98.00
 -L5- STA 37+50.00 TO 39+55.00
 ## REFER TO CROSS SECTIONS FOR MODIFIED SUPERELEVATIONS



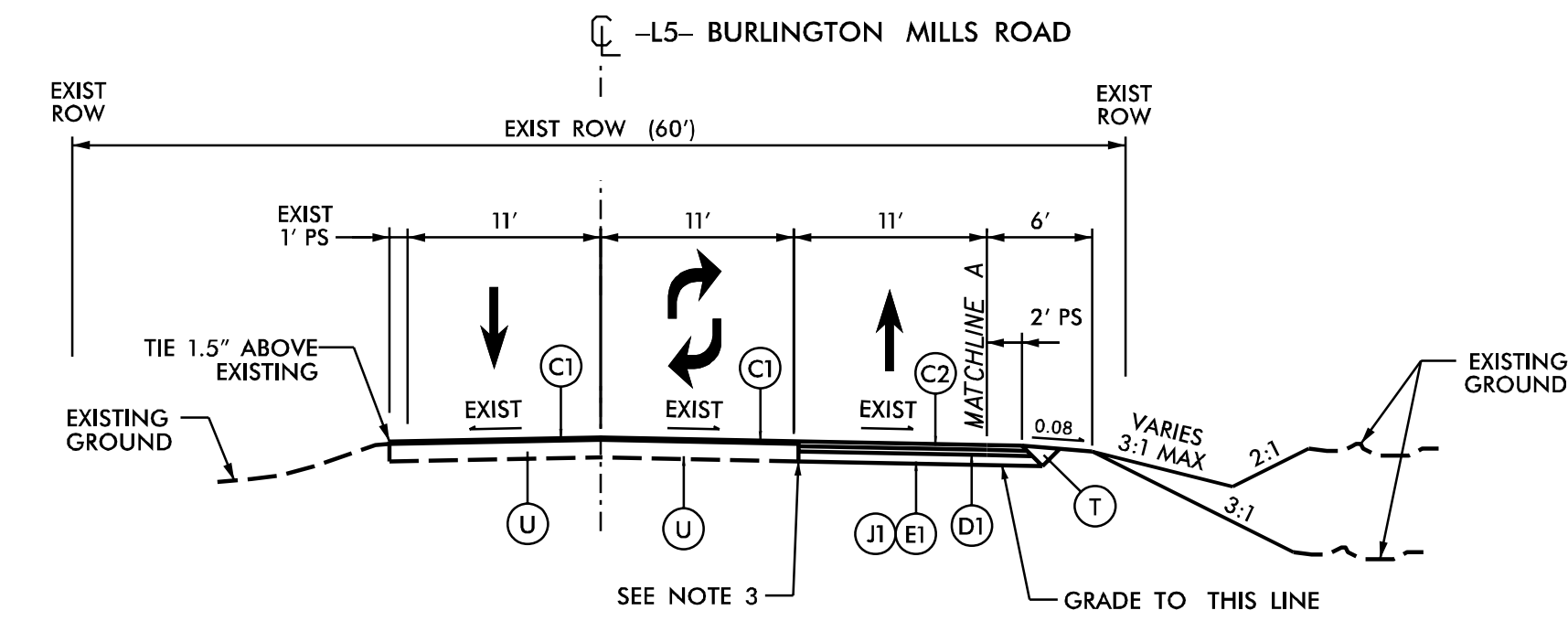
TYPICAL SECTION NO. 9A
 STA. 23+50.00 TO 23+98.00
 STA. 39+35.00 TO 39+55.00



TYPICAL SECTION NO. 10
 -L5- STA 23+98.00 TO 32+80.00
 -L5- STA 39+55.00 TO 45+20.00
 ## REFER TO CROSS SECTIONS FOR MODIFIED SUPERELEVATIONS



TYPICAL SECTION NO. 10A
 STA. 23+98.00 TO 24+50.00
 STA. 39+55.00 TO 41+35.00



TYPICAL SECTION NO. 11
 -L5- STA 32+80.00 TO 37+50.00

PAVEMENT SCHEDULE

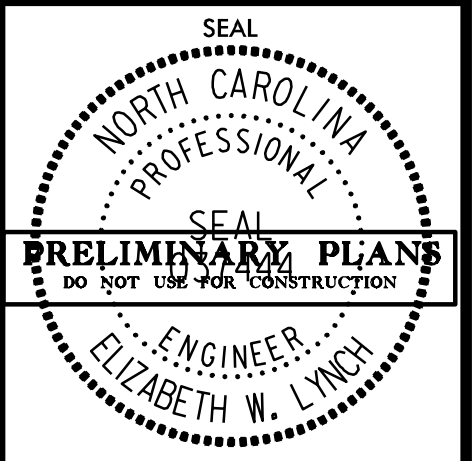
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J1	PROP. 10" AGGREGATE BASE COURSE (MAY BE SUBSTITUTED FOR E1 IN AREAS WIDER THAN 6')
R1	PROP. 2'-6" CONCRETE CURB & GUTTER (NCDOT STD. 846.01)
S	PROPOSED 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL SHEET 4A)

- NOTES:
 1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.
 2. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS.
 3. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO PROVIDE 1' MINIMUM FULL DEPTH ASPHALT PAVEMENT.



PEARCE FARM ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

TYPICAL SECTIONS



TOWN OF ROLESVILLE:
 PSP-23-04
TOWN OF WAKE FOREST:
 PSP-XX-XX

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DESIGNED BY: G. BOYLE	DATE
REVIEWED BY: E. LYNCH	INIT.
DATE: 04/30/24	DATE
SCALE: 1" = 50'	REVISIONS
JOB NO.: 00103002	SHEET NO.

4C

4/29/2024
 Z:\Shared\0 - Projects\4 - Roadway\0003002 Pearce Farm Roadway and SignalDesign\0 - CAD\Roadway\Proj\Pearce Farm\rdy_06_psh_details_2.dgn

GENERAL NOTES:
 USE CLASS "B" CONCRETE THROUGHOUT.
 PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 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.
 USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
 FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 18'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
 MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 18'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.
 CONSTRUCT WITH PIPE CROWNS MATCHING.
 CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.

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

ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

840.02

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *																			
DIMENSIONS OF BOX AND PIPE				COVER DIMENSION				CUL. YDS. CONC. IN BOX											
PIPE	SPAN	WIDTH	WIDTH	MIN.	HEIGHT	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	TOTAL	TOP	BOTTOM	TOP CONC.	FOR MINOR	ONE PIPE	R.C.	
D	A	B	C	G	H	E	F	E	F	E	F	---	---	---	---	---	---	---	---
12"	3'-0"	2'-2"	--	--	2'-9"	--	--	--	--	--	--	--	--	--	0.235	0.772	0.015	0.026	
15"	3'-0"	2'-2"	--	--	3'-0"	--	--	--	--	--	--	--	--	--	0.235	0.829	0.023	0.036	
18"	3'-0"	2'-2"	--	--	3'-3"	--	--	--	--	--	--	--	--	--	0.235	0.887	0.033	0.049	
24"	3'-0"	2'-2"	--	--	3'-9"	--	--	--	--	--	--	--	--	--	0.235	1.001	0.059	0.085	
30"	3'-0"	2'-2"	3'-4"	--	4'-3"	1'-2"	4'-0"	4	1'-6"	2	3'-9"	3	3'-9"	39	0.123	0.321	1.433	0.092	0.127
36"	3'-0"	2'-2"	3'-10"	--	4'-9"	1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	0.161	0.358	1.714	0.132	0.178
42"	3'-0"	2'-2"	--	--	5'-3"	1'-5"	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.112	0.318	1.238	0.180	0.243
48"	3'-0"	2'-2"	--	--	5'-9"	2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	0.145	0.352	2.052	0.235	0.317
54"	3'-0"	2'-2"	--	--	5'-7"	6'-3"	2'-7"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.386	2.387	0.297	0.401

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

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

ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

840.02

NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

ALIGN FRAME WITH INSIDE EDGE OF WALL TO ALLOW FOR VERTICAL ADJUSTMENT

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

ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

840.03

DETAIL SHOWING TYPES OF GRATES USE ACCORDING TO WATER FLOW.

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

ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

840.03

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PEARCE FARM ROADWAY IMPROVEMENTS ROLESVILLE, NORTH CAROLINA

DETAILS

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION
 ENGINEER
 ELIZABETH W. LYNCH

DESIGNED BY: R. MANK	DATE: 04/30/24	SCALE:	REVISIONS:
REVIEWED BY: E. LYNCH	DATE:	INIT:	DATE:

SHEET NO. **5B**

4/29/2024
 Z:\Shared\0_P\Projects\4_Roadway\00103002_Pearce Farm Roadway and Signal\Design\0_CAD\Roadway\Proj\Pearce Farm\rdy_07_psh_details_3.dgn

GENERAL NOTES:
 CHAMFER ALL EXPOSED CORNERS 1".
 USE CLASS "B" CONCRETE THROUGHOUT.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.
 PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.
 ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB.)
 MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STANDARD DRAWING 840.45 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

1-241 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **CONCRETE JUNCTION BOX** 12" THRU 66" PIPE

SHEET 1 OF 1
840.31

DIMENSIONS AND QUANTITIES FOR CONCRETE JUNCTION BOXES														
DIMENSIONS OF BOX AND PIPE				REINFORCEMENT BARS "A"		TOP SLAB DIMENSIONS		CUBIC YARDS IN BOX			TOTAL QUANTITIES BOX AND SLABS		DEDUCTIONS FOR ONE PIPE CU.YDS.	
PIPE	SPAN	WIDTH	HEIGHT	NO.	LENGTH	E	F	TOP SLAB	BOTTOM SLAB	WALL/ FT. OF HT.	LBS. REINF.	CU. YDS. MIN. "H"	C.S.	R.C.
12"	2'-0"	2'-0"	2'-3"	12	2'-9"	3'-0"	3'-0"	0.167	0.167	0.185	22	0.750	0.015	0.024
15"	2'-3"	2'-3"	2'-6"	12	3'-0"	3'-3"	3'-3"	0.196	0.196	0.204	24	0.902	0.023	0.036
18"	2'-6"	2'-6"	2'-9"	14	3'-3"	3'-6"	3'-6"	0.227	0.227	0.222	30	1.065	0.033	0.049
24"	3'-0"	3'-0"	3'-3"	16	3'-9"	4'-0"	4'-0"	0.296	0.296	0.259	40	1.434	0.059	0.085
30"	3'-6"	3'-6"	3'-9"	18	4'-3"	4'-6"	4'-6"	0.375	0.375	0.296	51	1.860	0.092	0.127
36"	4'-0"	4'-0"	4'-3"	20	4'-9"	5'-0"	5'-0"	0.463	0.463	0.333	64	2.341	0.132	0.178
42"	4'-6"	4'-6"	4'-9"	22	5'-3"	5'-6"	5'-6"	0.560	0.560	0.370	77	2.878	0.180	0.243
48"	5'-4"	5'-4"	5'-3"	26	6'-3"	6'-4"	6'-4"	0.743	0.743	0.407	111	3.623	0.235	0.317
54"	5'-10"	5'-10"	5'-9"	28	6'-7"	6'-10"	6'-10"	0.865	0.865	0.444	126	4.283	0.297	0.401
60"	6'-6"	6'-6"	6'-3"	30	7'-3"	7'-6"	7'-6"	1.042	1.042	0.481	145	5.090	0.367	0.495
66"	7'-1"	7'-1"	6'-9"	32	7'-10"	8'-1"	8'-1"	1.210	1.210	0.518	169	5.917	0.444	0.589

GENERAL NOTES:
 CHAMFER ALL EXPOSED CORNERS 1".
 USE CLASS "B" CONCRETE THROUGHOUT.
 USE #4 BAR DOWELS AT 12" CENTERS.
 MORTAR JOINTS 1/2" ± 1/8" THICK.
 CONCAVE TOO ALL EXPOSED JOINTS.
 USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
 JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.
 FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0". ADJUST DIMENSIONS AND QUANTITIES ACCORDINGLY.
 IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.
 PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.
 ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB.)
 MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STANDARD DRAWING 840.45 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

1-241 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **BRICK JUNCTION BOX** 12" THRU 66" PIPE

SHEET 1 OF 1
840.32

DIMENSIONS AND QUANTITIES FOR BRICK JUNCTION BOXES														
DIMENSIONS OF BOX AND PIPE				REINFORCEMENT BARS		TOP SLAB DIMENSIONS		CUBIC YARDS			DEDUCTIONS FOR ONE PIPE CU.YDS.		R.C.	
PIPE	SPAN	WIDTH	HEIGHT	NO.	LENGTH	E	F	TOP & BOTTOM CU. YD.	MIN. WALL PER FT. HT.	CONC.	BRICK MASONRY	C.S.	R.C.	
12"	2'-0"	2'-0"	2'-3"	12	3'-1"	3'-4"	3'-4"	0.412	0.591	0.263	0.020	0.032		
15"	2'-3"	2'-3"	2'-6"	12	3'-1"	3'-4"	3'-4"	0.412	0.657	0.263	0.031	0.047		
18"	2'-6"	2'-6"	2'-9"	14	3'-5"	3'-8"	3'-8"	0.498	0.814	0.296	0.044	0.065		
24"	3'-0"	3'-0"	3'-3"	16	4'-1"	4'-4"	4'-4"	0.695	1.176	0.362	0.078	0.113		
30"	3'-6"	3'-6"	3'-9"	16	4'-5"	4'-8"	4'-8"	0.807	1.481	0.395	0.122	0.170		
36"	4'-0"	4'-0"	4'-3"	20	5'-1"	5'-4"	5'-4"	1.053	1.959	0.461	0.176	0.238		
42"	4'-6"	4'-6"	4'-9"	22	5'-9"	6'-0"	6'-0"	1.333	2.503	0.527	0.240	0.323		
48"	5'-4"	5'-4"	5'-3"	26	6'-5"	6'-8"	6'-8"	1.646	2.940	0.560	0.313	0.422		
54"	5'-10"	5'-10"	5'-9"	28	6'-11"	7'-2"	7'-2"	1.902	3.502	0.609	0.396	0.535		
60"	6'-6"	6'-6"	6'-3"	30	7'-7"	7'-10"	7'-10"	2.272	4.113	0.658	0.489	0.660		
66"	7'-1"	7'-1"	6'-9"	32	8'-2"	8'-5"	8'-5"	2.624	4.778	0.708	0.591	0.798		

SOLID COVER SHOWN PERFORATED. PERFORATED AVAILABLE IF SPECIFIED. STATE USE OF SYSTEM ON COVER (I.E.: SEWER, STORM DRAIN, ELECTRICAL)

1-241 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **MANHOLE FRAME AND COVER**

SHEET 1 OF 1
840.54

MINIMUM WEIGHTS - LBS.
 FRAME - 180
 COVER - 120
 TOTAL - 300

1-241 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **CURB RAMP** DIRECTIONAL RAMP

SHEET 6 OF 13
848.06

LEGEND:
 (1) 0.3% (0.1) MAX RAMP SLOPE
 (2) CROSS SLOPE 2.0%
 (3) MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.0%
 (4) DETECTABLE WARNING SURFACE SHALL COVER 3'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAIL.
 (5) DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJACENT SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.
 (6) RAMP WIDTH AREA IS VARIABLE.
 (7) 2'-0" CURB OF GUTTER.
 (8) WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES THE CLEAR SPACE SHALL BE 4" MINIMUM CLEARANCE WITH PROTRUSION IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

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PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

DETAILS

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION
 ELIZABETH W. LYNCH

DESIGNED BY: R. MANK	DATE: 04/29/24	INIT.	DATE
REVIEWED BY: E. LYNCH	SCALE:	INIT.	DATE
JOB NO.: 00103002	REVISIONS	INIT.	DATE
DATE: 04/29/24	REVISIONS	INIT.	DATE
SCALE:	REVISIONS	INIT.	DATE
SHEET NO.			
5C			

PROJECT REFERENCE NO. SHEET NO.

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

ENGLISH DETAIL DRAWING FOR
**MINIMUM DEPTH
 CONCRETE CATCH BASIN**
 12" THRU 84" PIPE

SECTION A-A
 SECTION B-B
 SECTION C-C
 SECTION D-D
 SECTION E-E
 SECTION F-F
 SECTION G-G
 SECTION H-H
 SECTION I-I
 SECTION J-J
 SECTION K-K
 SECTION L-L
 SECTION M-M
 SECTION N-N
 SECTION O-O
 SECTION P-P
 SECTION Q-Q
 SECTION R-R
 SECTION S-S
 SECTION T-T
 SECTION U-U
 SECTION V-V
 SECTION W-W
 SECTION X-X
 SECTION Y-Y
 SECTION Z-Z

CONTRACT STANDARDS
 AND DEVELOPMENT UNIT
 OFFICE OF CONTRACT ADMINISTRATION
 400 SOUTH COLLETT STREET, RALEIGH, NC 27601
 TEL: 919-733-2000 FAX: 919-733-4119

DESIGNED BY: R. MANK DATE: 3/24/2024
 CHECKED BY: E. LYNCH DATE: 3/24/2024
 TITLE: SEE PLATE FOR TITLE

PROJECT REFERENCE NO. SHEET NO.

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

ENGLISH DETAIL DRAWING FOR
MINIMUM DEPTH CONCRETE DROP INLET
 12" THRU 30" PIPE

SECTION A-A
 SECTION B-B
 SECTION C-C
 SECTION D-D
 SECTION E-E
 SECTION F-F
 SECTION G-G
 SECTION H-H
 SECTION I-I
 SECTION J-J
 SECTION K-K
 SECTION L-L
 SECTION M-M
 SECTION N-N
 SECTION O-O
 SECTION P-P
 SECTION Q-Q
 SECTION R-R
 SECTION S-S
 SECTION T-T
 SECTION U-U
 SECTION V-V
 SECTION W-W
 SECTION X-X
 SECTION Y-Y
 SECTION Z-Z

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 AND DEVELOPMENT UNIT
 OFFICE OF CONTRACT ADMINISTRATION
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 TEL: 919-733-2000 FAX: 919-733-4119

DESIGNED BY: R. MANK DATE: 3/24/2024
 CHECKED BY: E. LYNCH DATE: 3/24/2024
 TITLE: SEE PLATE FOR TITLE

TOWN OF ROLESVILLE:
 PSP-23-04
 TOWN OF WAKE FOREST:
 PSP-XX-XX

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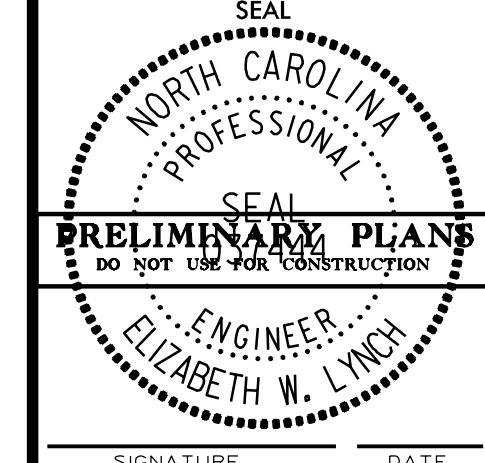
 Planning

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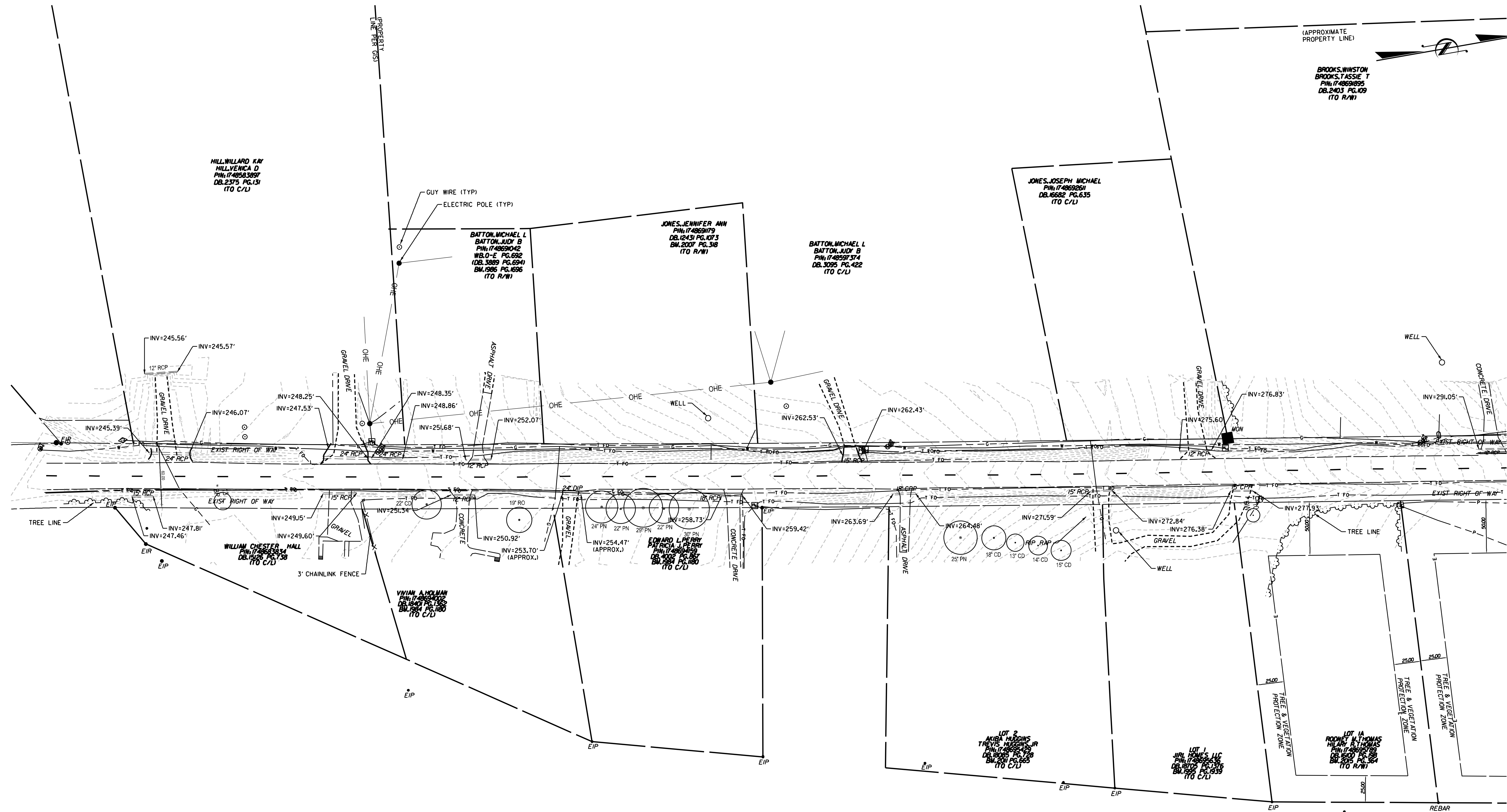
**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

DETAILS



DESIGNED BY: R. MANK	DATE: 3/24/2024	INIT.	DATE:
REVIEWED BY: E. LYNCH	DATE: 3/24/2024	INIT.	DATE:
SCALE:	REVISIONS:		
SHEET NO.			
5D			

4/29/2024
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APPROXIMATE
 PROPERTY LINE

**BROOKS, WINSTON
 BROOKS, TASSIE T**
 PIN: 1748698951
 DB: 2403 PG: 109
 (TO R/W)

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**PEARCE FARM
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 ROLESVILLE, NORTH CAROLINA**

**EXISTING CONDITIONS
 PLAN SHEET**

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 ELIZABETH W. LYNCH

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

SIGNATURE DATE

**TOWN OF ROLESVILLE:
 PSP-23-04**

**TOWN OF WAKE FOREST:
 PSP-XX-XX**

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Public Works/Engineering _____

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Planning _____



JOB NO.:	00103002	DESIGNED BY:	R. MANK
DATE:	04/09/24	REVIEWED BY:	E. LYNCH
SCALE:	1" = 50'	REVISIONS:	
SHEET NO.		DATE	
EX-1			

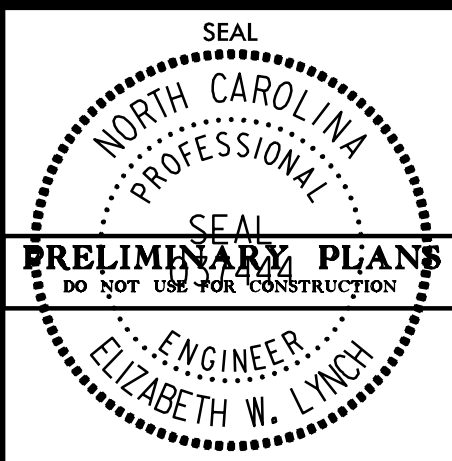
4/29/2024
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**PEARCE FARM
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**EXISTING CONDITIONS
 PLAN SHEET**



**TOWN OF ROLESVILLE:
 PSP-23-04
 TOWN OF WAKE FOREST:
 PSP-XX-XX**

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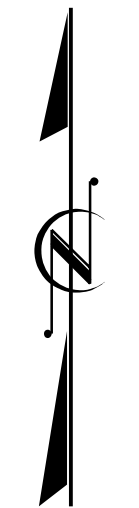
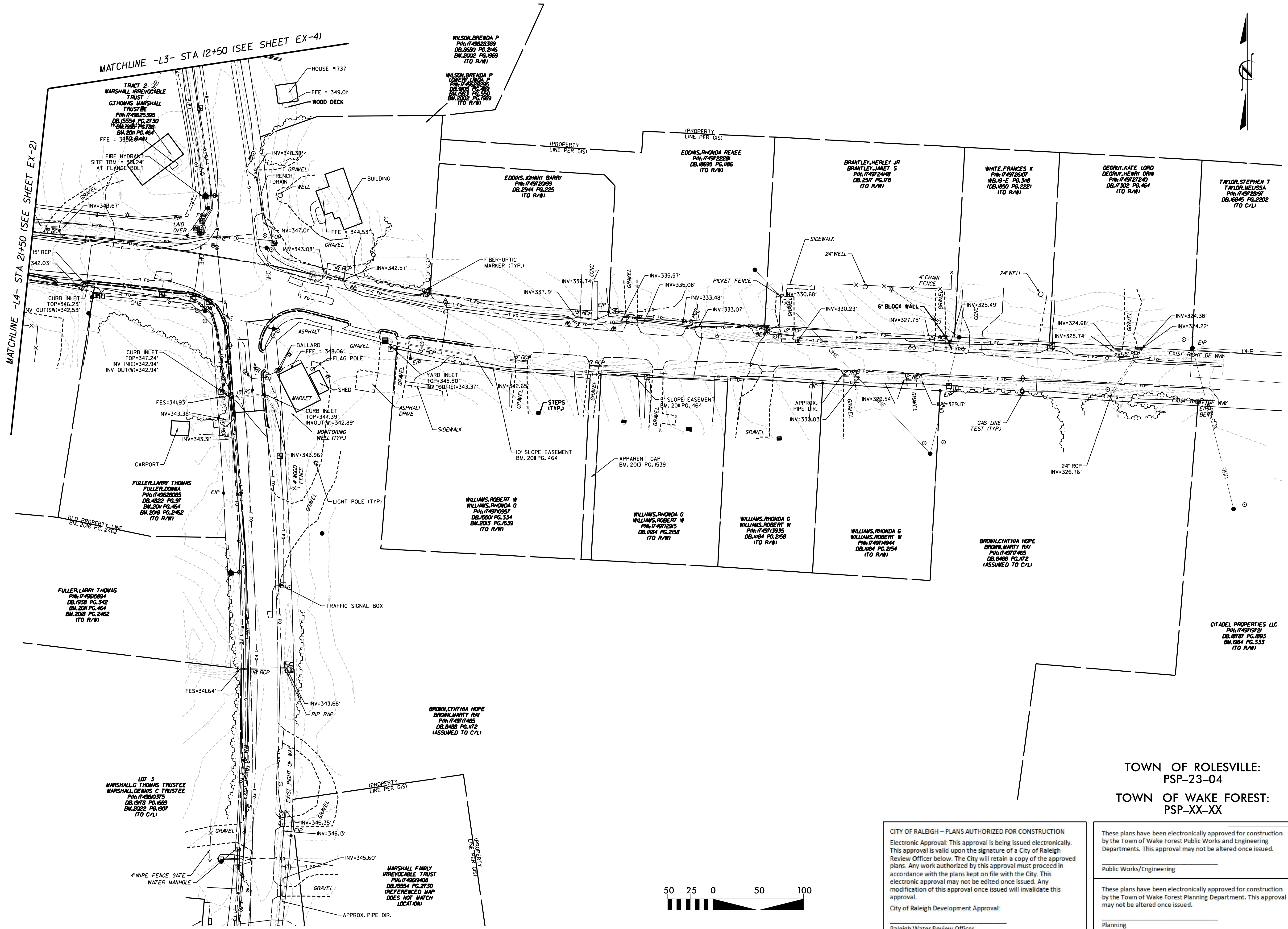


DESIGNED BY: J. PACE	DATE: 04/09/24	INIT:	DATE:
REVIEWED BY: E. LYNCH	SCALE: 1" = 50'	INIT:	DATE:
REVISIONS:			
SHEET NO.			
EX-2			

4/29/2024
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**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

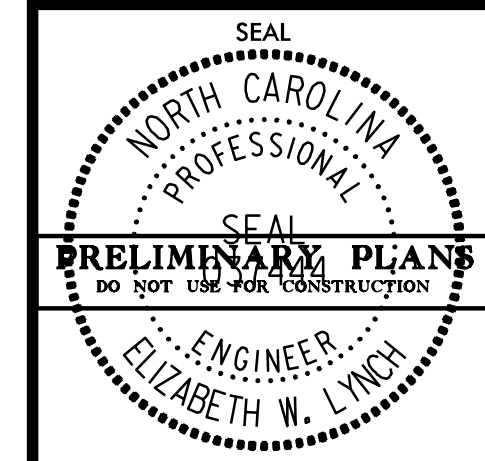
**EXISTING CONDITIONS
 PLAN SHEET**



**TOWN OF ROLESVILLE:
 PSP-23-04
 TOWN OF WAKE FOREST:
 PSP-XX-XX**

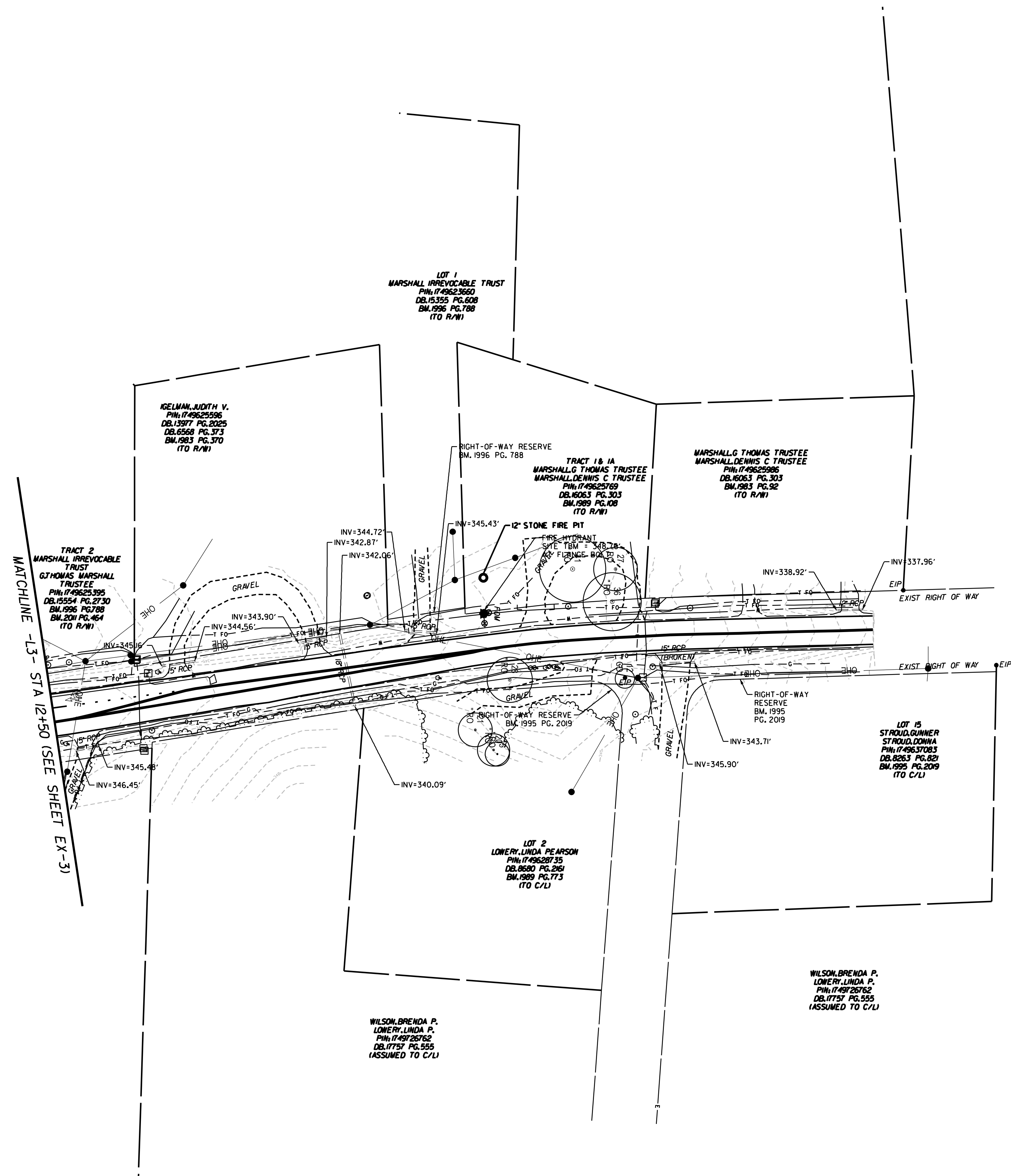
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DESIGNED BY: J. PACE	DATE: 04/29/24	INIT:	DATE:
REVIEWED BY: E. LYNCH	SCALE: 1" = 50'	INIT:	DATE:
REVISIONS:			
SHEET NO.			
EX-3			

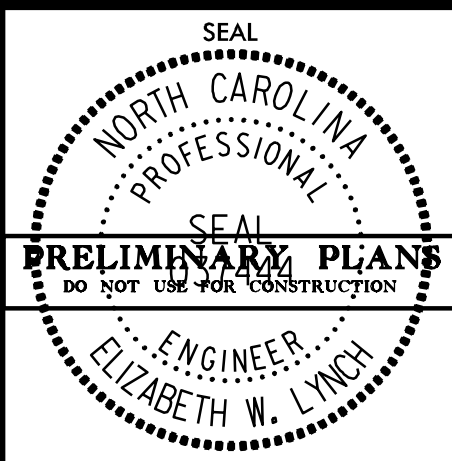
4/29/2024
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 ROLESVILLE, NORTH CAROLINA**

**EXISTING CONDITIONS
 PLAN SHEET**



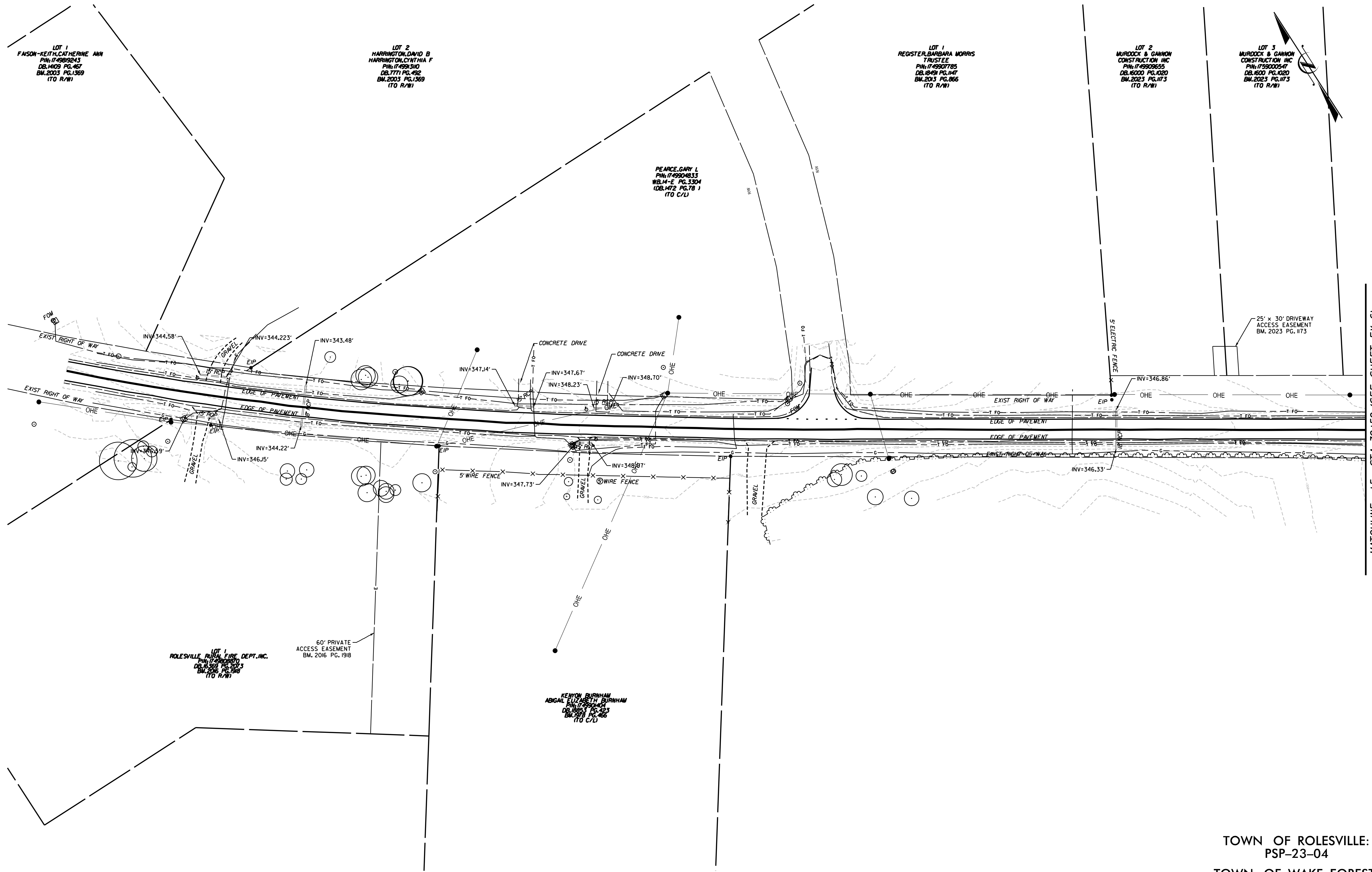
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 PSP-23-04
 TOWN OF WAKE FOREST:
 PSP-XX-XX**

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DESIGNED BY: J. PACE	DATE: 04/30/24	SCALE: 1" = 50'	REVISIONS:	SHEET NO.
REVIEWED BY: E. LYNCH	INIT.	DATE		
				EX-4

4/29/2024
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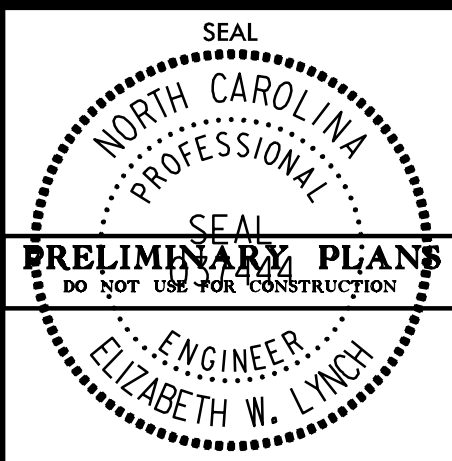


MATCHLINE -L5- STA 30+50 (SEE SHEET EX-6)

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PEARCE FARM
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EXISTING CONDITIONS
 PLAN SHEET



TOWN OF ROLESVILLE:
 PSP-23-04
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 Planning



DESIGNER BY: G. BOYLE
 REVIEWED BY: E. LYNCH
 DATE: 04/20/24
 SCALE: 1" = 50'
 REVISIONS:

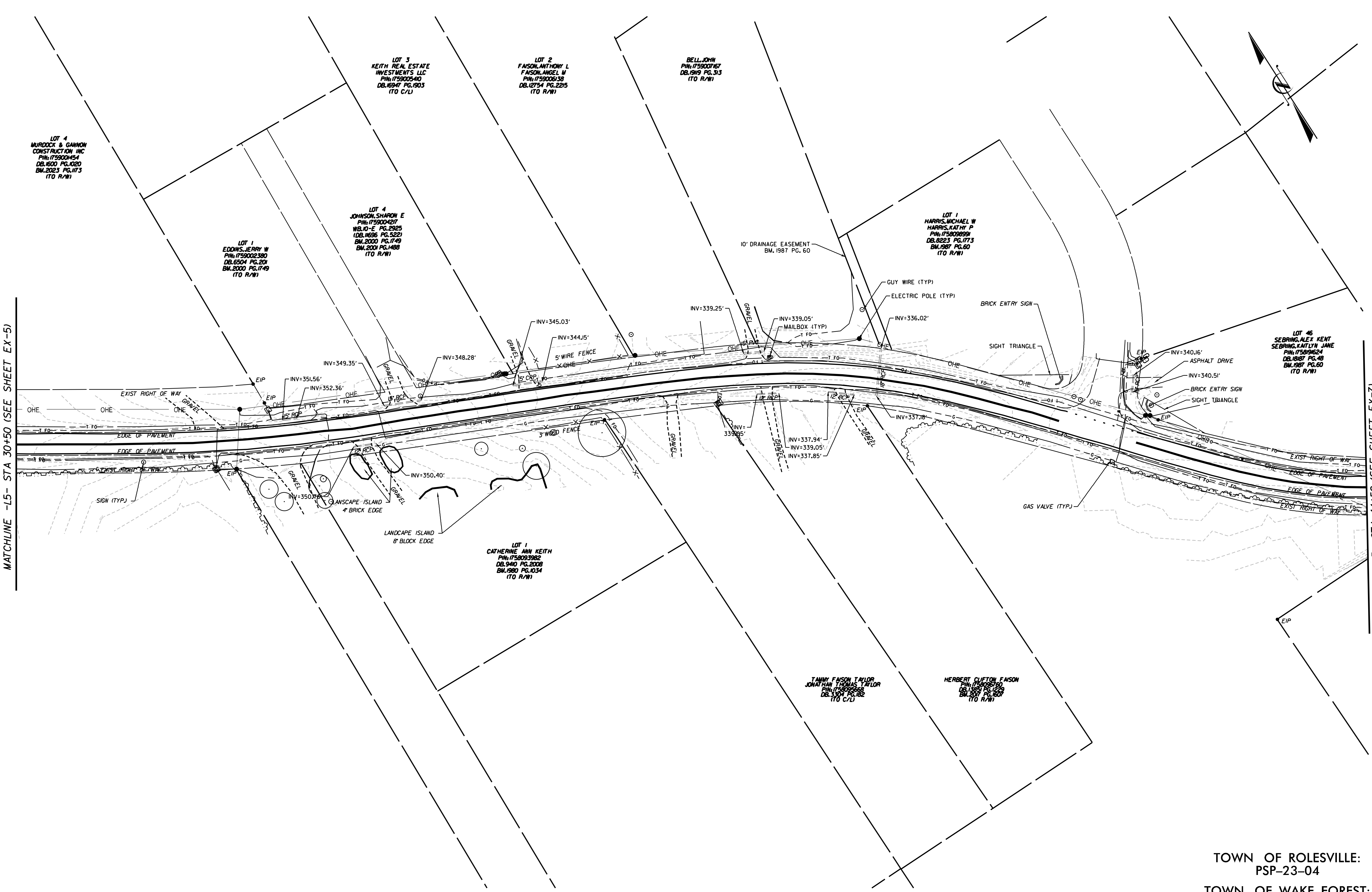
NO.	DATE	INIT.	DATE

SHEET NO.
EX-5

4/29/2024
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MATCHLINE -L5- STA 30+50 (SEE SHEET EX-5)

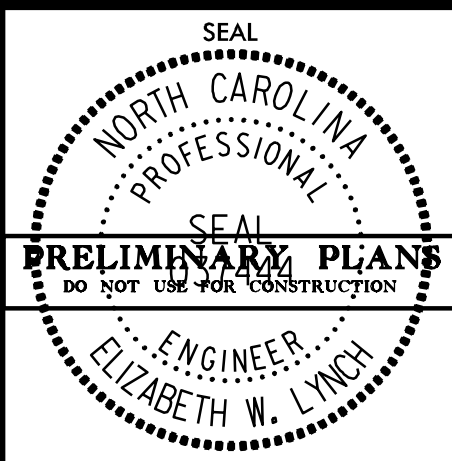
MATCHLINE -L5- STA 44+50 (SEE SHEET EX-7)



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**PEARCE FARM
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 ROLESVILLE, NORTH CAROLINA**

**EXISTING CONDITIONS
 PLAN SHEET**



SIGNATURE: _____ DATE: _____

**TOWN OF ROLESVILLE:
 PSP-23-04
 TOWN OF WAKE FOREST:
 PSP-XX-XX**

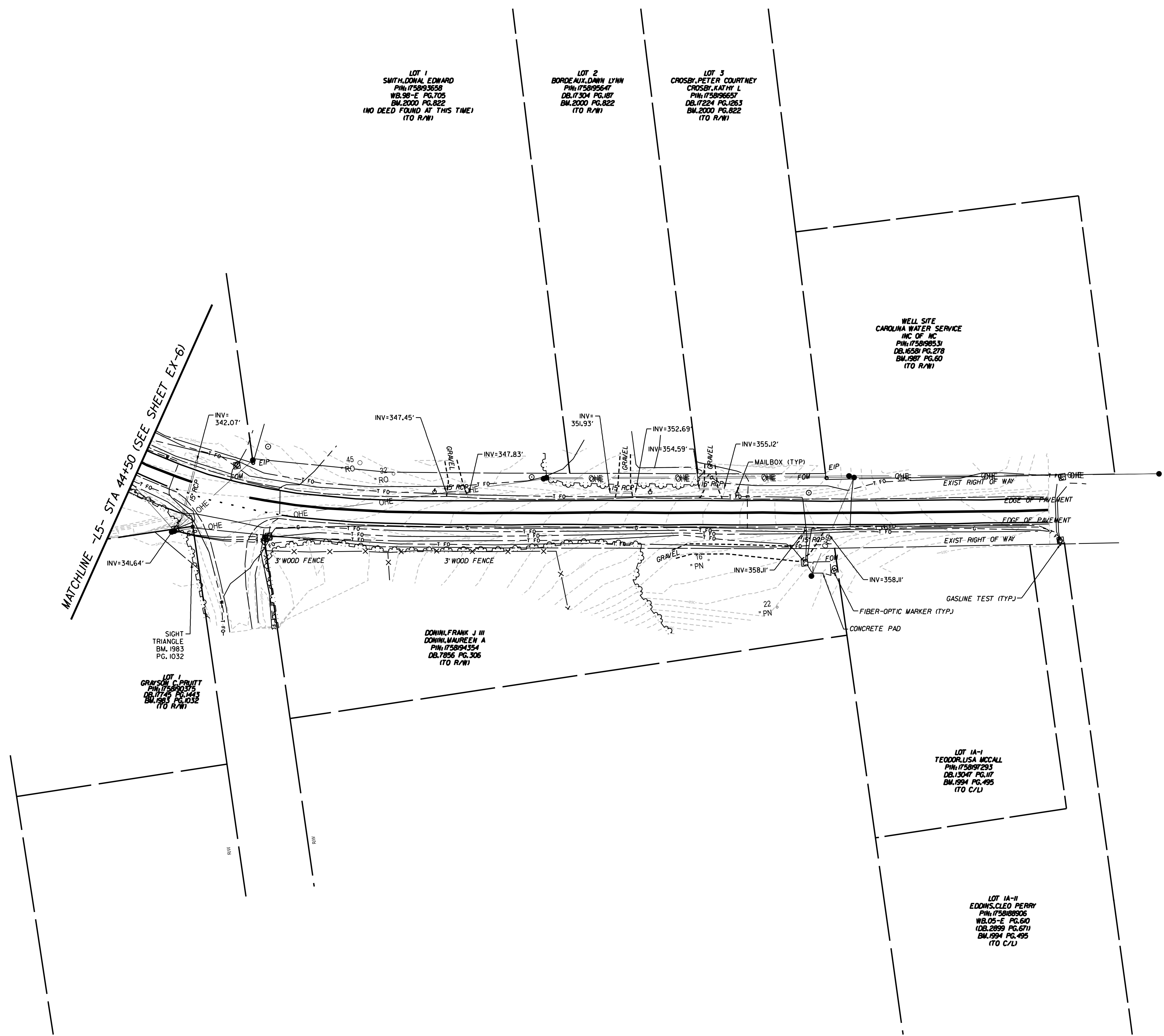
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 Raleigh Water Review Officer: _____

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 Planning: _____



JOB NO.: 00103002	DESIGNED BY: G. BOYLE	DATE: 04/29/24	SCALE: 1" = 50'
REVIEWED BY: E. LYNCH	INITIALS:	DATE:	REVISIONS:
SHEET NO.			
EX-6			

4/29/2024
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LOT 1
 SMITH, DONAL EDWARD
 PIN: 175893558
 WB.98-E PG.705
 BM.2000 PG.822
 (NO DEED FOUND AT THIS TIME)
 (TO R/W)

LOT 2
 BORDEAUX, DANN LYNN
 PIN: 175895647
 DB.17304 PG.87
 BM.2000 PG.822
 (TO R/W)

LOT 3
 CROSBY, PETER COURTNEY
 CROSBY, KATY L
 PIN: 175896657
 DB.17254 PG.1263
 BM.2000 PG.822
 (TO R/W)

WELL SITE
 CAROLINA WATER SERVICE
 INC OF NC
 PIN: 175898531
 DB.16581 PG.278
 BM.1587 PG.60
 (TO R/W)

LOT 1
 GRAYSON, C BRITT
 PIN: 175893195
 DB.17147 PG.142
 BM.1587 PG.132
 (TO R/W)

DOMINIC FRANK J III
 DOMINIC MAUREN A
 PIN: 175894354
 DB.7856 PG.306
 (TO R/W)

LOT 1A-I
 TEODORA LISA MCCALL
 PIN: 175897293
 DB.13047 PG.17
 BM.1594 PG.495
 (TO C/L)

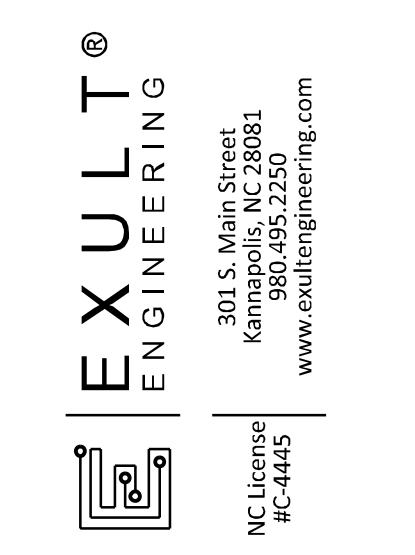
LOT 1A-II
 EDWARDS, CLEO PERRY
 PIN: 175898906
 WB.05-E PG.60
 (DB.2899 PG.671)
 BM.1594 PG.495
 (TO C/L)



TOWN OF ROLESVILLE:
 PSP-23-04
TOWN OF WAKE FOREST:
 PSP-XX-XX

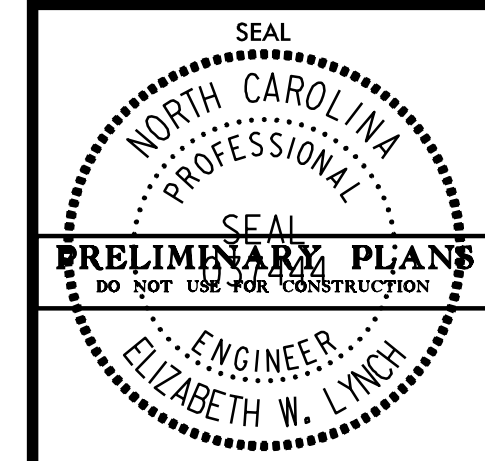
CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION
 Electronic Approval: This approval is being issued electronically. This approval is valid upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification of this approval once issued will invalidate this approval.
 City of Raleigh Development Approval:
 Raleigh Water Review Officer _____

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 Public Works/Engineering _____
 These plans have been electronically approved for construction by the Town of Wake Forest Planning Department. This approval may not be altered once issued.
 Planning _____



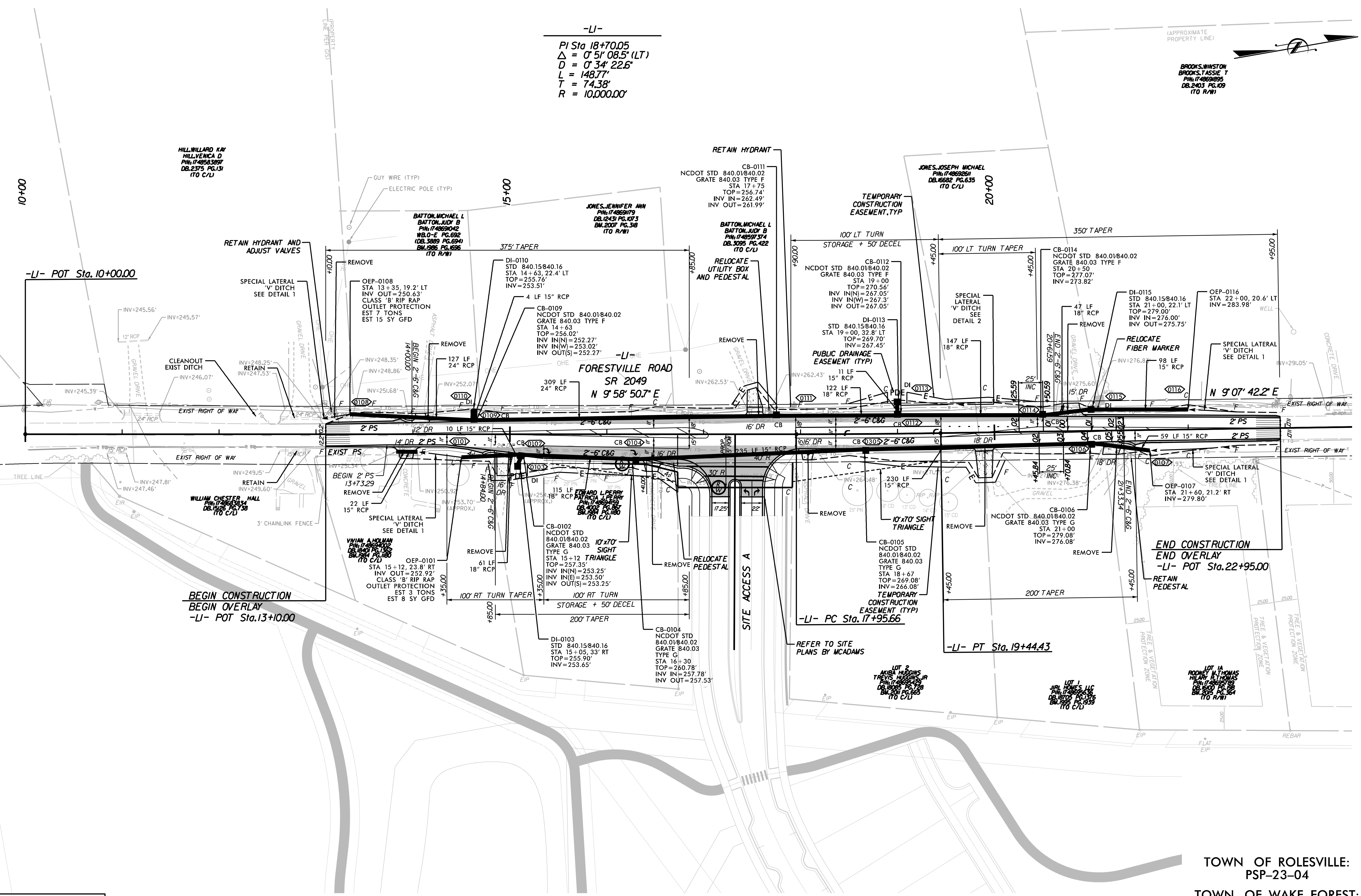
**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**EXISTING CONDITIONS
 PLAN SHEET**



DESIGNED BY: G. BOYLE	DATE: 04/29/24	SCALE: 1" = 50'	REVISIONS:
REVIEWED BY: E. LYNCH	INITIALS:	DATE:	DATE:

SHEET NO.
EX-7



-LI-
PI Sta 18+70.05
 $\Delta = 0' 51' 08.5''$ (LT)
 $D = 0' 34' 22.6''$
 $L = 148.77'$
 $T = 74.38'$
 $R = 10,000.00'$

(APPROXIMATE PROPERTY LINE)
**BROOKS WINSTON
BROOKS TASSIE T**
PIN: 1748698991
DB: 2403 PG. 109
(TO R/W)

**HILL WILLARD KAY
HILL VENICA D**
PIN: 1748533897
DB: 2375 PG. 131
(TO C/U)

**BATTON MICHAEL L
BATTON JUDY B**
PIN: 174869042
WB: D-E PG. 692
DB: 3089 PG. 694
BL: 596 PG. 696
(TO R/W)

JONES JENNIFER ANN
PIN: 174869173
BL: 2007 PG. 318
(TO R/W)

**BATTON MICHAEL L
BATTON JUDY B**
PIN: 1748597374
DB: 3025 PG. 422
(TO C/U)

JONES JOSEPH MICHAEL
PIN: 1748692511
DB: 6682 PG. 635
(TO C/U)

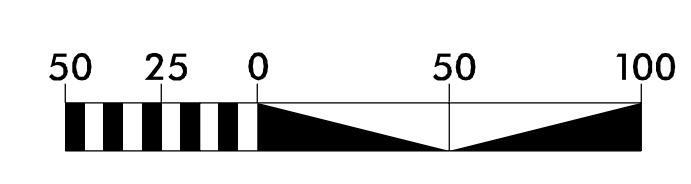
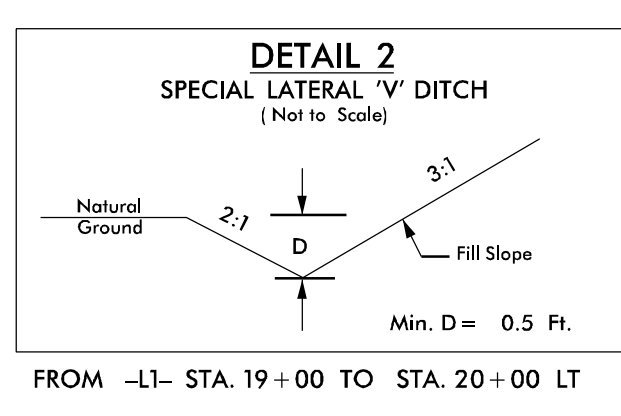
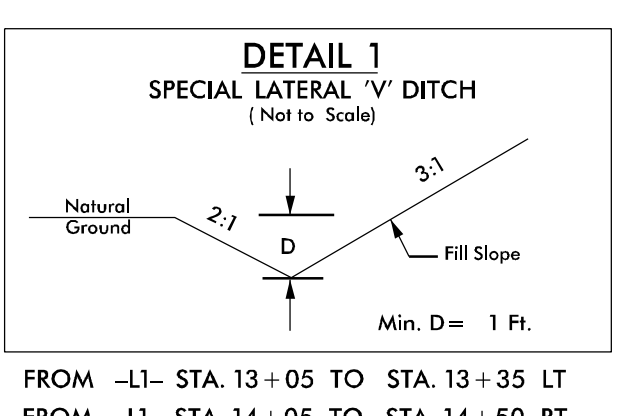
**BEGIN CONSTRUCTION
BEGIN OVERLAY
-LI- POT Sta. 13+10.00**

**END CONSTRUCTION
END OVERLAY
-LI- POT Sta. 22+95.00**

-LI- PC Sta. 17+95.66

-LI- PT Sta. 19+44.43

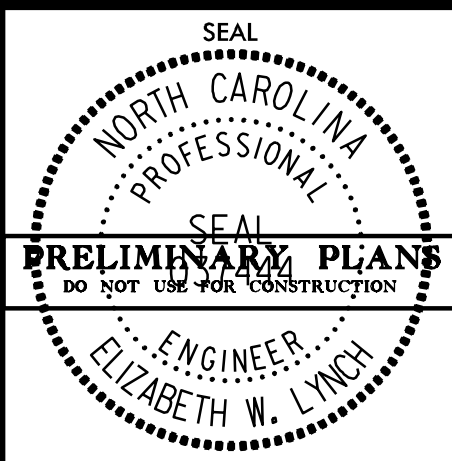
- INCIDENTAL MILLING**
**ROADWAY WIDENING/
FULL-DEPTH PAVEMENT**
MILL AND OVERLAY
CONCRETE
- NOTES:**
1. RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).
2. ALL DRIVEWAYS ALONG -LI- WILL BE 6" CONCRETE RADIUS TYPE DRIVEWAY TURNOUTS OR 6" CONCRETE WITH 10' RADII AS SHOWN ON PLANS.
3. RELOCATE EXISTING COMMUNICATION AND FIBER OPTIC UTILITY LINES OUTSIDE THE LIMITS OF THE PROPOSED WIDENING.



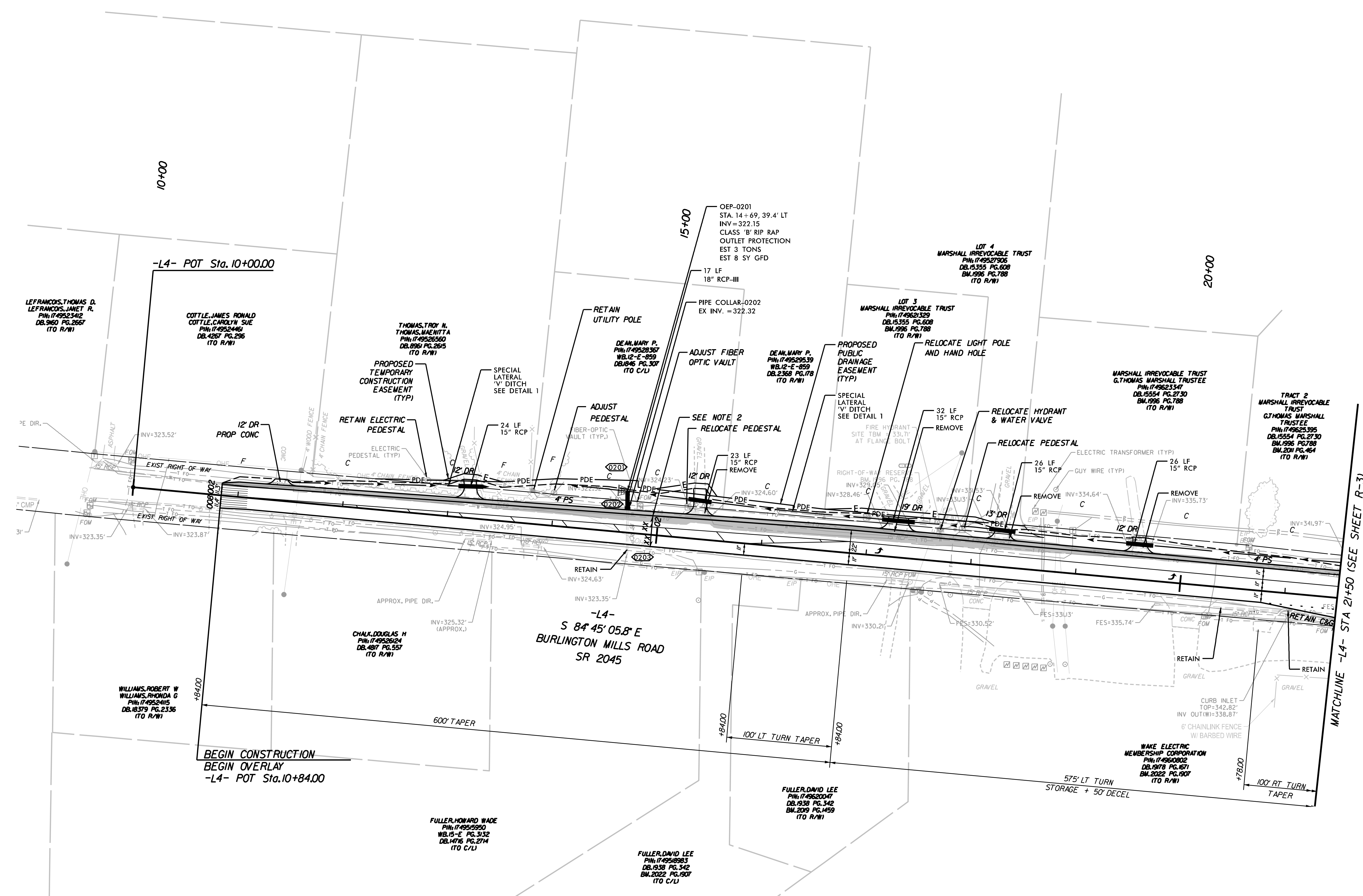
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City of Raleigh Development Approval:
Raleigh Water Review Officer

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Public Works/Engineering
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Planning

5/31/2024
Z:\Shared\0_Projects\4_Roadway\00103002 Pearce Farm Roadway and Signal\Design\0_CAD\Roadway\Proj\Pearce Farm\cyl_r_12_psh_r_1.dgn



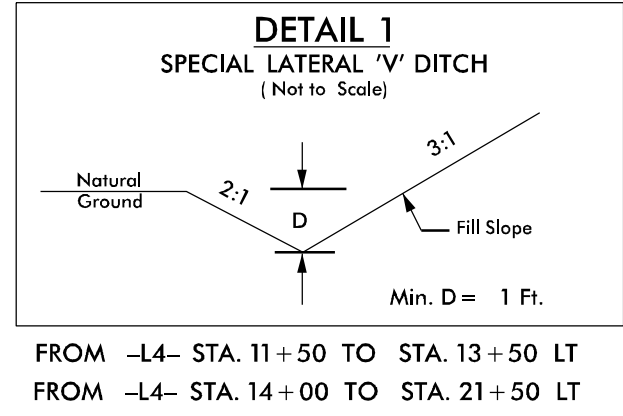
DESIGNED BY: J. PACE	DATE: 04/29/24	SCALE: 1" = 50'
REVIEWED BY: E. LYNCH	DATE:	SCALE:
INITIALS:	DATE:	SCALE:
REVISIONS:	DATE:	SCALE:
SHEET NO. R-2		



- INCIDENTAL MILLING
- ROADWAY WIDENING/
FULL-DEPTH PAVEMENT
- MILL AND OVERLAY
- CONCRETE

NOTES:

1. RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).
2. CROSS SLOPES VARY ALONG -L4-. MATCH EXISTING CROSS SLOPES WIDEN USING A 2% CROSS SLOPE FROM -L4- STA 10+84 TO 23+32 LT. REFER TO CROSS SECTIONS.
3. UNLESS OTHERWISE NOTED DRIVEWAY MATERIAL WILL BE ASPHALT WITH 10' TURNING RADII.
4. RELOCATE EXISTING COMMUNICATION AND FIBER OPTIC UTILITY LINES OUTSIDE THE LIMITS OF THE PROPOSED WIDENING.



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City of Raleigh Development Approval: _____
Raleigh Water Review Officer

**TOWN OF ROLESVILLE:
PSP-23-04**

**TOWN OF WAKE FOREST:
PSP-XX-XX**

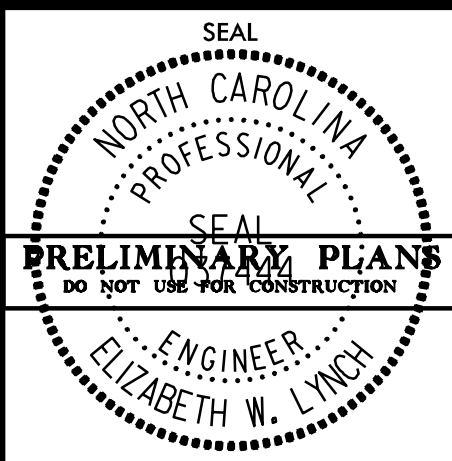
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Public Works/Engineering _____

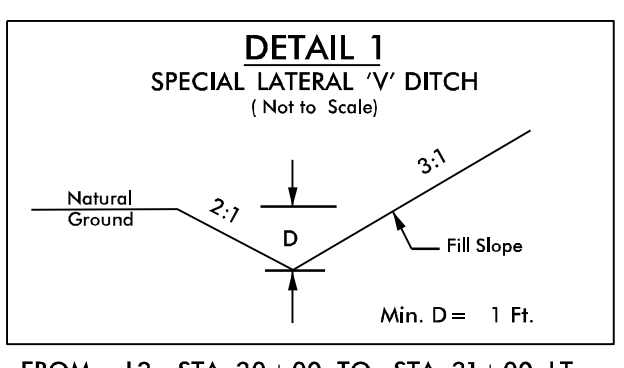
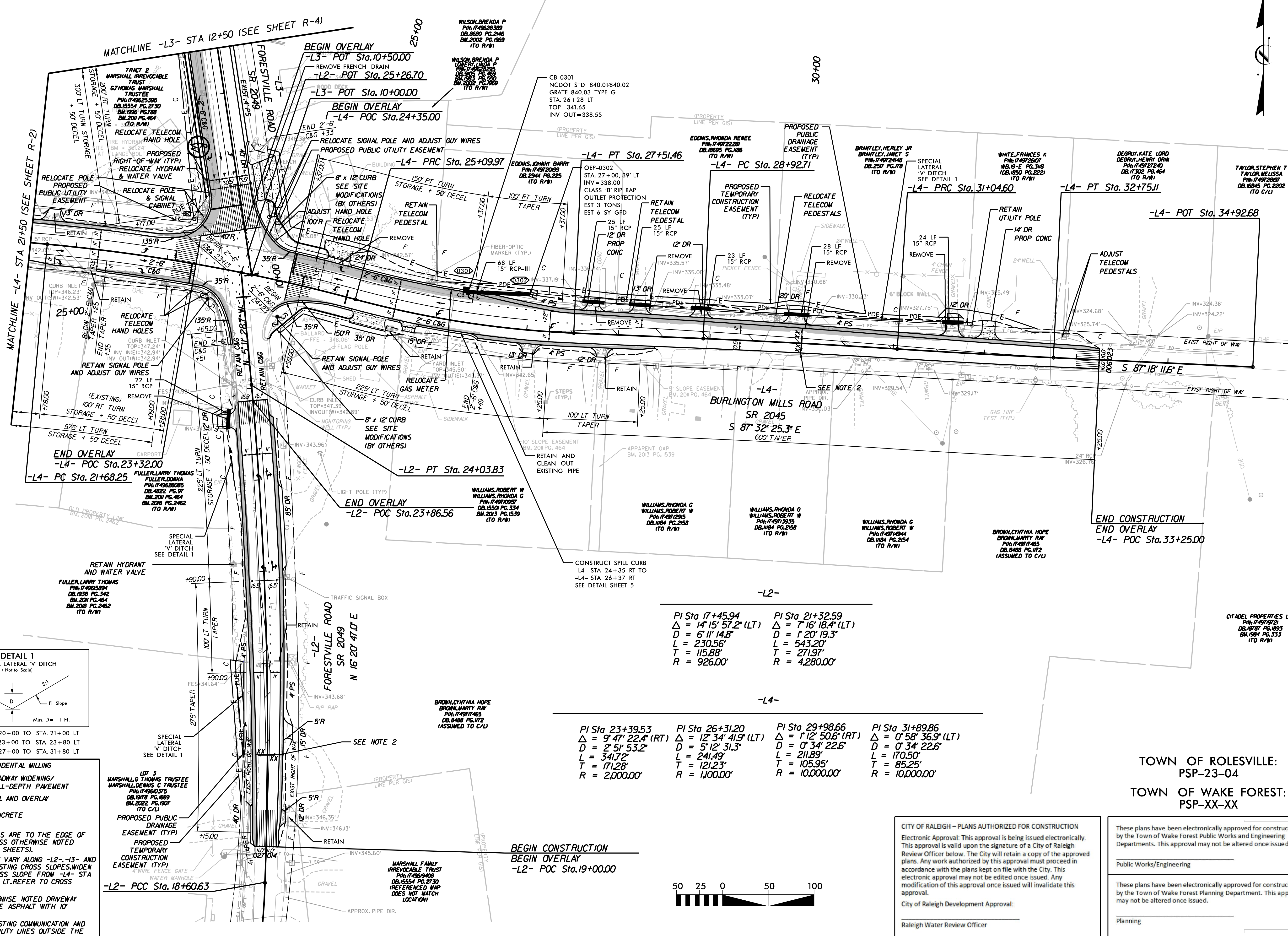
These plans have been electronically approved for construction by the Town of Wake Forest Planning Department. This approval may not be altered once issued.

Planning _____

4/29/2024
Z:\Shared\0 - Projects\4 - Roadway\00103002 Pearce Farm Roadway and Signal\Design\0 - CAD\Roadway\Proj\Pearce Farm\rdy_18.dwg, R-2.dwg



DESIGNED BY: J. PACE	DATE: 04/30/24	SCALE: 1" = 50'
REVIEWED BY: E. LYNCH	DATE: 04/30/24	SCALE: 1" = 50'
REVISIONS:	INITIALS:	DATE:
SHEET NO. R-3		



FROM -L2- STA. 20+00 TO STA. 21+00 LT
FROM -L2- STA. 23+00 TO STA. 23+80 LT
FROM -L4- STA. 27+00 TO STA. 31+80 LT

- INCIDENTAL MILLING
- ROADWAY WIDENING/
FULL-DEPTH PAVEMENT
- MILL AND OVERLAY
- CONCRETE

NOTES:
1. RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).
2. CROSS SLOPES VARY ALONG -L2-, -L3- AND -L4-. MATCH EXISTING CROSS SLOPES. WIDEN USING A 2% CROSS SLOPE FROM -L4- STA 10+84 TO 23+32 LT. REFER TO CROSS SECTIONS.
3. UNLESS OTHERWISE NOTED DRIVEWAY MATERIAL WILL BE ASPHALT WITH 10' TURNING RADI.
4. RELOCATE EXISTING COMMUNICATION AND FIBER OPTIC UTILITY LINES OUTSIDE THE LIMITS OF THE PROPOSED WIDENING.

PI Sta 17+45.94 Δ = 14' 15" 57.2" (LT) D = 6' 11" 14.8" L = 230.56' T = 115.88' R = 926.00'	PI Sta 21+32.59 Δ = 7' 16" 18.4" (LT) D = 1' 20" 19.3" L = 543.20' T = 271.97' R = 4,280.00'
--	---

PI Sta 23+39.53 Δ = 9' 47" 22.4" (RT) D = 2' 51" 53.2" L = 341.72' T = 171.28' R = 2,000.00'	PI Sta 26+31.20 Δ = 12' 34" 41.9" (LT) D = 5' 12" 31.3" L = 241.49' T = 121.23' R = 1,100.00'	PI Sta 29+98.66 Δ = 1' 12" 50.5" (RT) D = 0' 34" 22.6" L = 211.89' T = 105.95' R = 10,000.00'	PI Sta 31+89.86 Δ = 0' 58" 36.9" (LT) D = 0' 34" 22.6" L = 170.50' T = 85.25' R = 10,000.00'
---	--	--	---



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City of Raleigh Development Approval:
Raleigh Water Review Officer

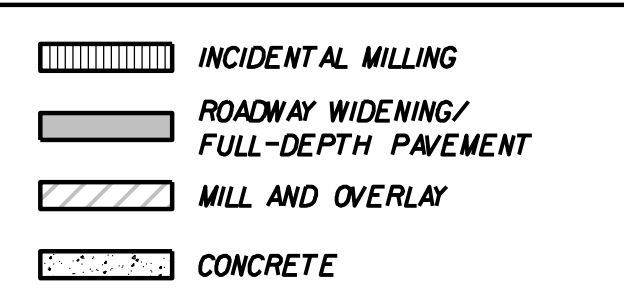
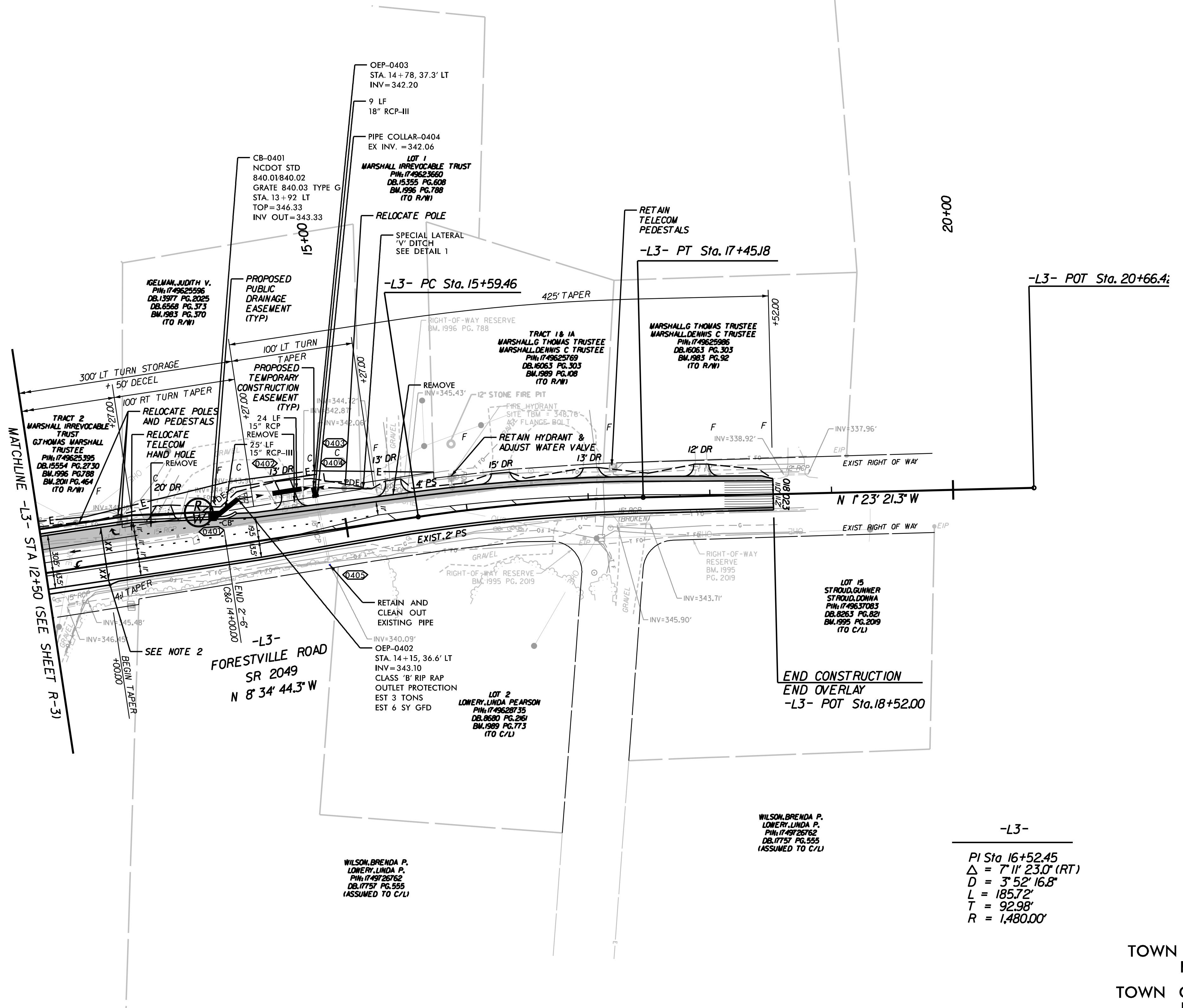
TOWN OF ROLESVILLE:
PSP-23-04
TOWN OF WAKE FOREST:
PSP-XX-XX
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Public Works/Engineering
These plans have been electronically approved for construction by the Town of Wake Forest Planning Department. This approval may not be altered once issued.
Planning

5/1/2024
Z:\Shared\0 - Projects\4 - Roadway\0003002 Pearce Farm Roadway and Signal Design\0 - CAD\Roadway\Proj\Pearce Farm-rdy-19-psh-r-3.dgn

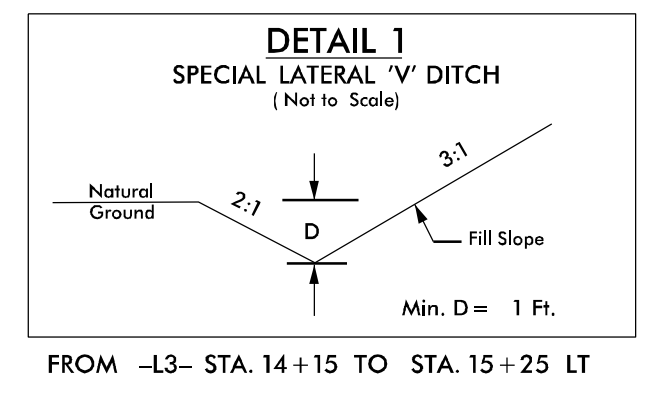
4/29/2024
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**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

PLAN SHEET



NOTES:
 1. RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).
 2. CROSS SLOPES VARY ALONG -L3-. MATCH EXISTING CROSS SLOPES. REFER TO CROSS SECTIONS.
 3. UNLESS OTHERWISE NOTED DRIVEWAY MATERIAL WILL BE ASPHALT WITH 10' TURNING RADIUS.
 4. RELOCATE EXISTING COMMUNICATION AND FIBER OPTIC UTILITY LINES OUTSIDE THE LIMITS OF THE PROPOSED WIDENING.

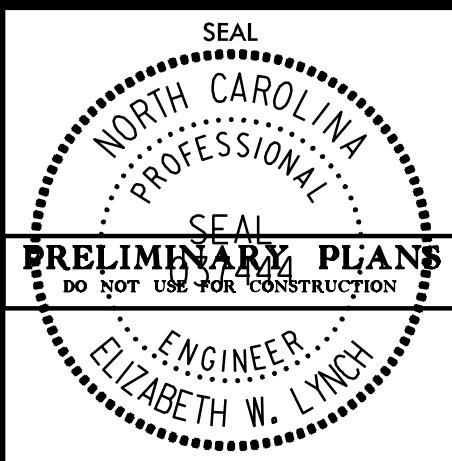


-L3-
 PI Sta 16+52.45
 $\Delta = 7' 11'' 23.0''$ (RT)
 $D = 3' 52'' 16.8''$
 $L = 185.72'$
 $T = 92.98'$
 $R = 1,480.00'$

**TOWN OF ROLESVILLE:
 PSP-23-04
 TOWN OF WAKE FOREST:
 PSP-XX-XX**

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 City of Raleigh Development Approval:
 Raleigh Water Review Officer

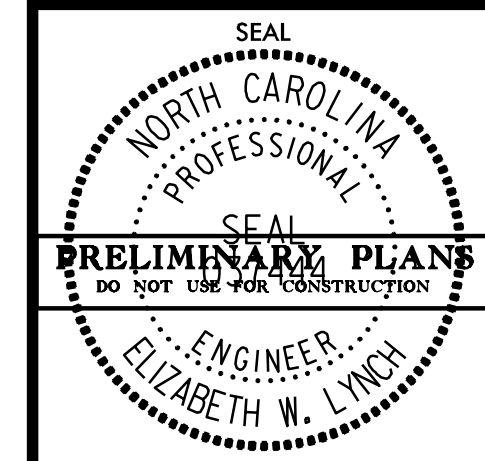
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 Planning



DESIGNED BY: J. PACE
 REVIEWED BY: E. LYNCH
 DATE: 04/29/24
 SCALE: 1" = 50'

REVISIONS	DATE	INIT.

SHEET NO.
R-4



DESIGNED BY: G. BOYLE	DATE
REVIEWED BY: E. LYNCH	INIT.
DATE: 04/30/24	DATE
SCALE: 1" = 50'	REVISIONS
JOB NO.: 00103002	SHEET NO.
	R-5

**TOWN OF ROLESVILLE:
PSP-23-04**

**TOWN OF WAKE FOREST:
PSP-XX-XX**

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City of Raleigh Development Approval: _____

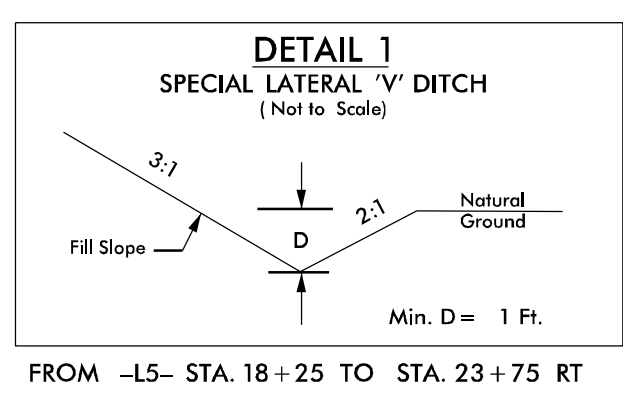
Raleigh Water Review Officer

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Public Works/Engineering

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Planning

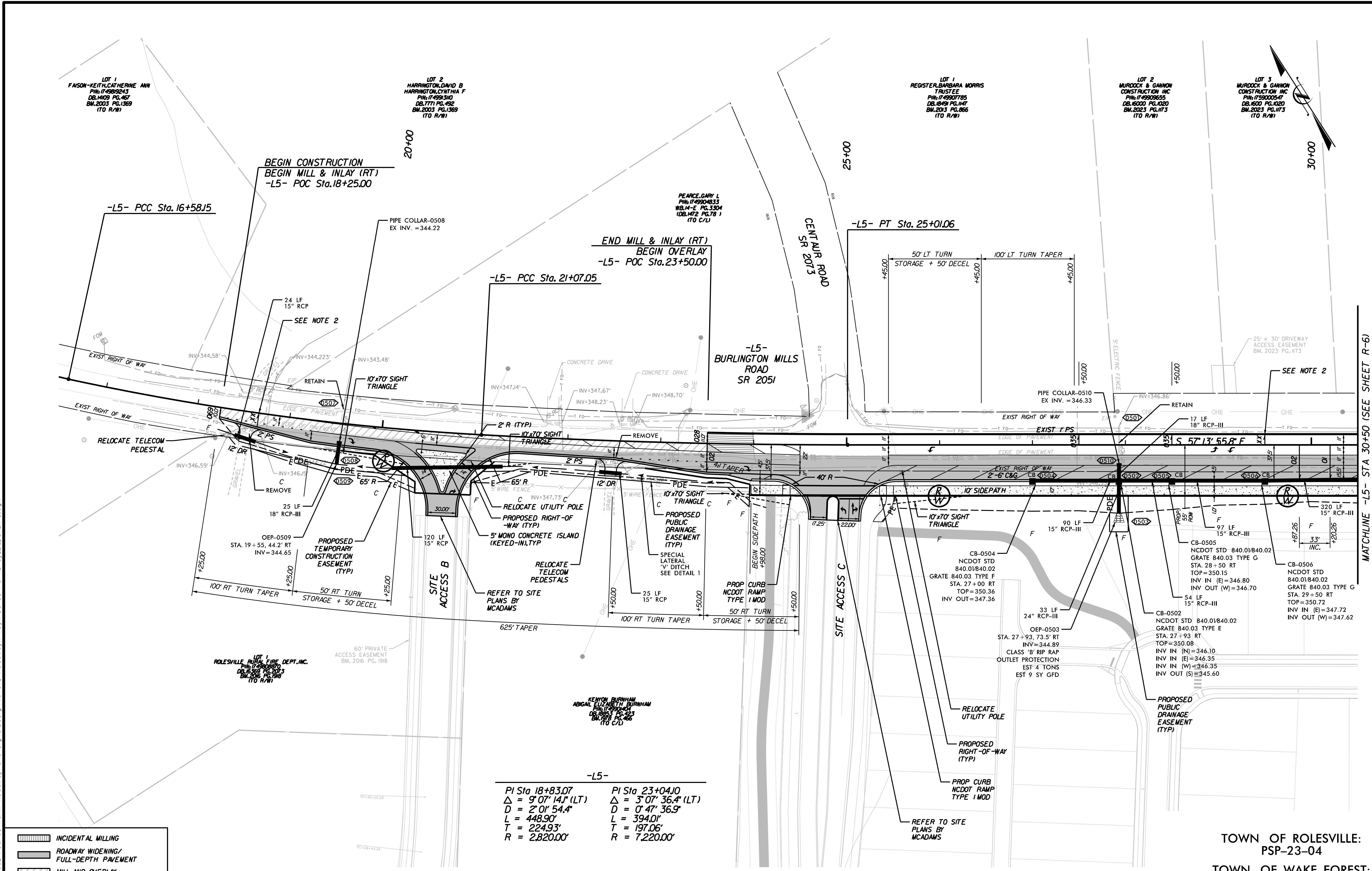


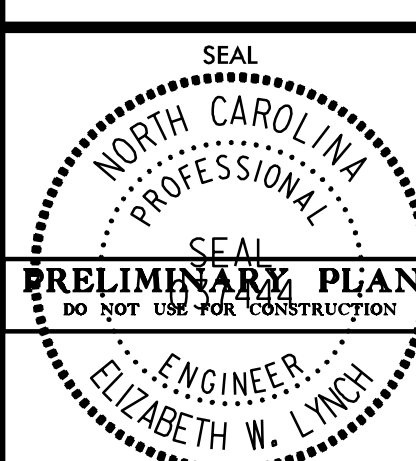
- INCIDENTAL MILLING
 - ROADWAY WIDENING/
FULL-DEPTH PAVEMENT
 - MILL AND OVERLAY
 - CONCRETE
- NOTES:**
1. RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).
 2. CROSS SLOPES VARY ALONG -L5-. MATCH EXISTING CROSS SLOPES FROM -L5- STA 18+25 TO 23+50 RT. TIE TO EXISTING EDGE OF PAVEMENT FROM -L5- STA 23+50 TO 32+85 LT. REFER TO CROSS SECTIONS.
 3. UNLESS OTHERWISE NOTED DRIVEWAY MATERIAL WILL BE ASPHALT WITH 10' TURNING RADI.
 4. RELOCATE EXISTING COMMUNICATION AND FIBER OPTIC UTILITY LINES OUTSIDE THE LIMITS OF THE PROPOSED WIDENING.

-L5-

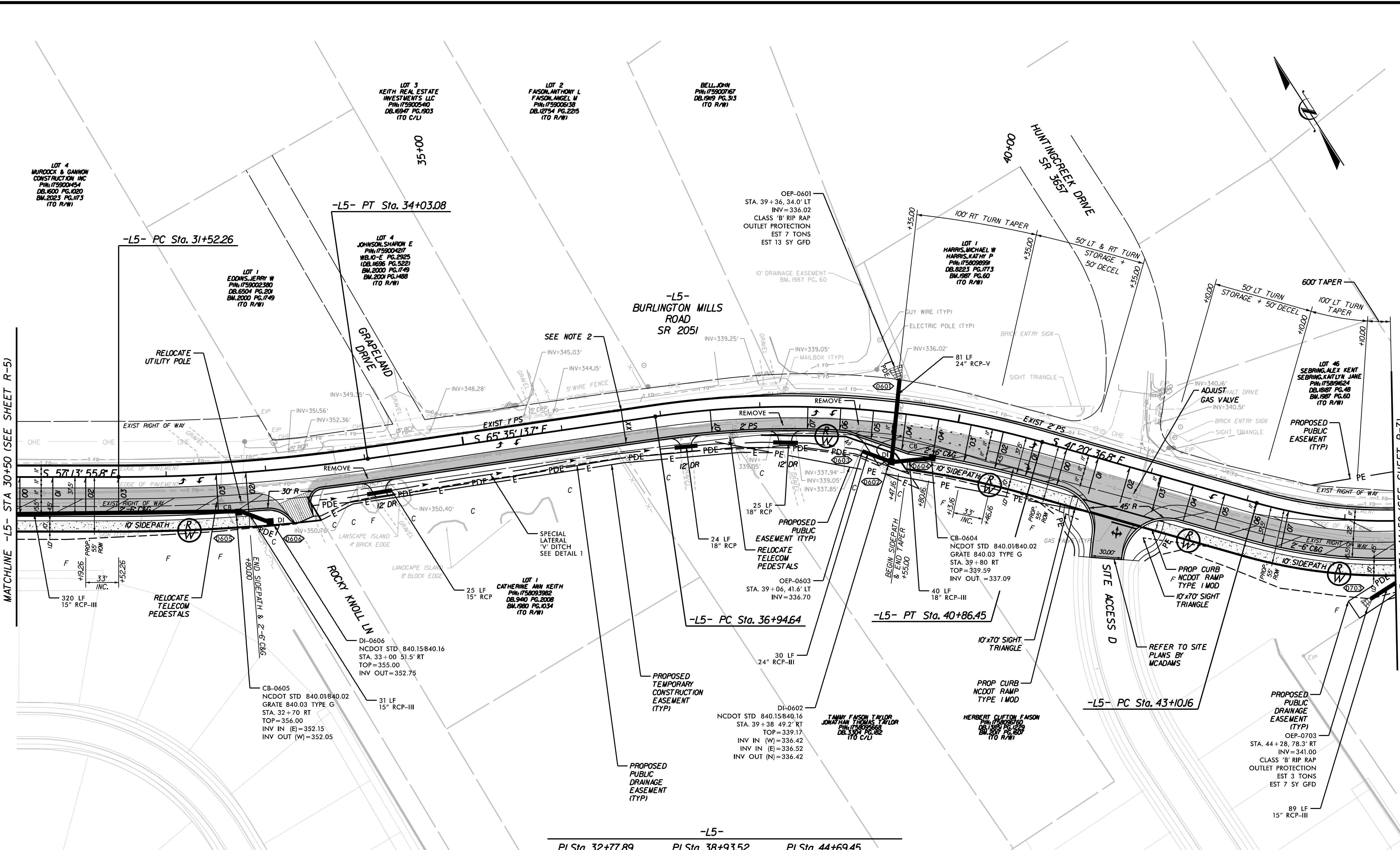
PI Sta 18+83.07	PI Sta 23+04.10
$\Delta = 9^{\circ} 07' 14.1''$ (LT)	$\Delta = 3^{\circ} 07' 36.4''$ (LT)
$D = 2^{\circ} 01' 54.4''$	$D = 0^{\circ} 47' 36.9''$
$L = 448.90'$	$L = 394.01'$
$T = 224.93'$	$T = 197.06'$
$R = 2,820.00'$	$R = 7,220.00'$

5/31/2024
Z:\Shared\0 - Projects\4 - Roadway\00103002 Pearce Farm Roadway and Signal\Design\0 - CAD\Roadway\Proj\Pearce Farm\rdy_2\lshh_r-5.dwg





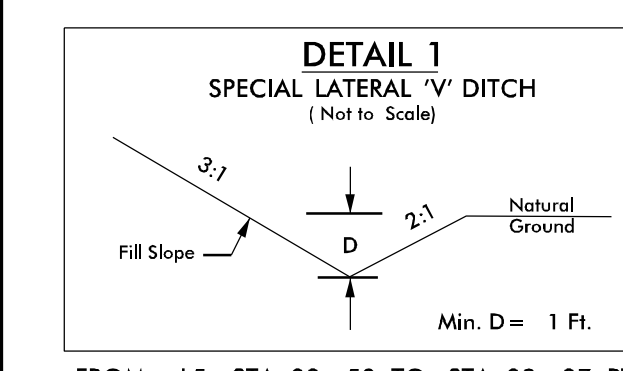
DESIGNED BY: G. BOYLE	DATE:
REVIEWED BY: E. LYNCH	DATE:
INITIALS:	DATE:
REVISIONS:	DATE:
SHEET NO.	
R-6	



-L5-		
PI Sta 32+77.89	PI Sta 38+93.52	PI Sta 44+69.45
$\Delta = 8' 21'' 17.9''$ (LT)	$\Delta = 24' 14'' 36.9''$ (RT)	$\Delta = 37' 26'' 38.4''$ (LT)
$D = 3' 19'' 52.1''$	$D = 6' 11'' 14.8''$	$D = 12' 11'' 26.1''$
$L = 250.81'$	$L = 391.82'$	$L = 307.15'$
$T = 125.63'$	$T = 198.89'$	$T = 159.29'$
$R = 1,720.00'$	$R = 926.00'$	$R = 470.00'$

- INCIDENTAL MILLING
- ROADWAY WIDENING/
FULL-DEPTH PAVEMENT
- MILL AND OVERLAY
- CONCRETE

NOTES:
1. RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).
2. CROSS SLOPES VARY ALONG -L5-. MATCH EXISTING CROSS SLOPES FROM -L5- STA 32+85 TO 37+50 TO EXISTING EDGE OF PAVEMENT FROM -L5- STA 23+50 TO 32+85 LT & 37+50 TO 45+20 LT. REFER TO CROSS SECTIONS.
3. UNLESS OTHERWISE NOTED DRIVEWAY MATERIAL WILL BE ASPHALT WITH 10' TURNING RADI.
4. RELOCATE EXISTING COMMUNICATION AND FIBER OPTIC UTILITY LINES OUTSIDE THE LIMITS OF THE PROPOSED WIDENING.



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Raleigh Water Review Officer

TOWN OF ROLESVILLE:
PSP-23-04
TOWN OF WAKE FOREST:
PSP-XX-XX

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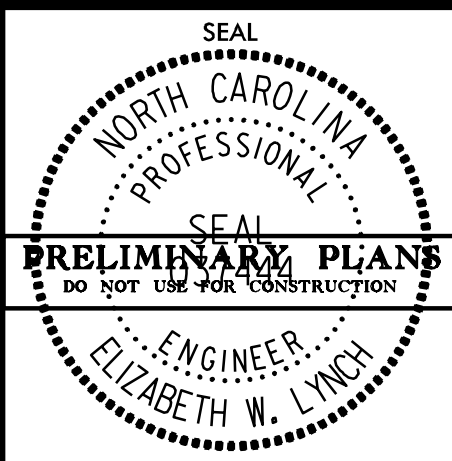
Public Works/Engineering

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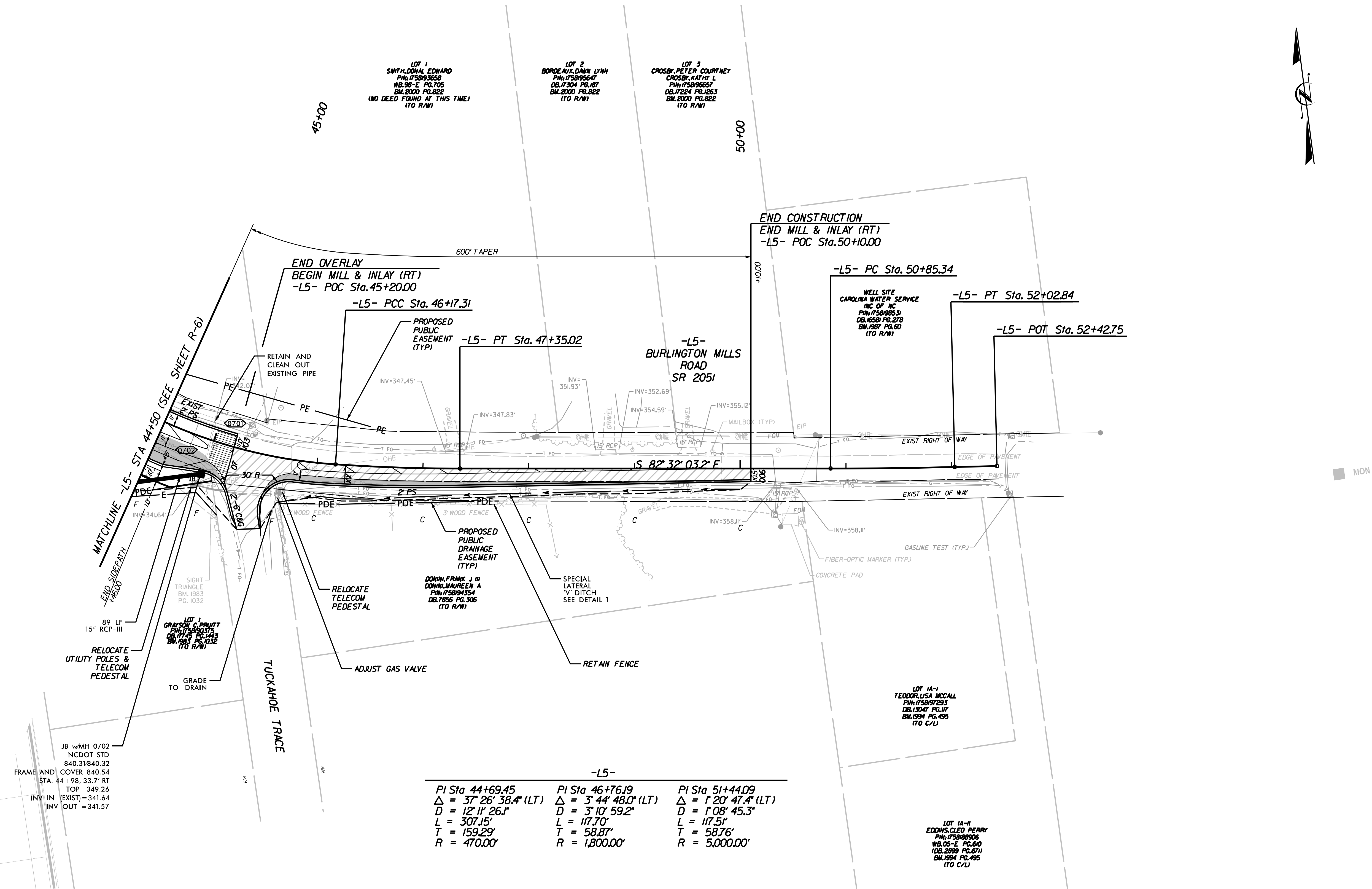
Planning

5/31/2024
Z:\Share\0 - Projects\4 - Roadway\0003002 Pearce Farm Roadway and Signal\Design\0 - CAD\Roadway\Proj\Pearce Farm\rdy_22.psh-R-6.dgn

4/30/2024
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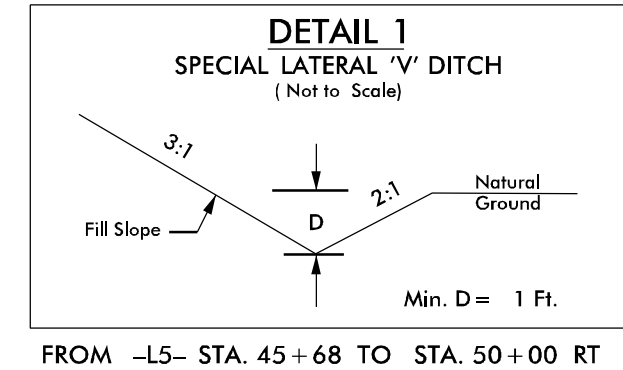
DESIGNED BY: G. BOYLE	DATE
REVIEWED BY: E. LYNCH	INIT.
DATE: 04/30/24	DATE
SCALE: 1" = 50'	REVISIONS
SHEET NO.	
R-7	



-L5-		
PI Sta 44+69.45	PI Sta 46+76.19	PI Sta 51+44.09
$\Delta = 37' 26'' 38.4''$ (LT)	$\Delta = 3' 44'' 48.0''$ (LT)	$\Delta = 1' 20'' 47.4''$ (LT)
$D = 12' 11'' 26.1''$	$D = 3' 10'' 59.2''$	$D = 1' 08'' 45.3''$
$L = 307.15'$	$L = 117.70'$	$L = 117.51'$
$T = 159.29'$	$T = 58.87'$	$T = 58.76'$
$R = 470.00'$	$R = 1,800.00'$	$R = 5,000.00'$

- INCIDENTAL MILLING
- ROADWAY WIDENING/
FULL-DEPTH PAVEMENT
- MILL AND OVERLAY
- CONCRETE

NOTES:
 1. RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).
 2. CROSS SLOPES VARY ALONG -L5- MATCH EXISTING CROSS SLOPES FROM -L5- STA 45+20 TO 51+80 RT. TIE TO EXISTING EDGE OF PAVEMENT FROM -L5- STA 37+50 TO 45+20 LT. REFER TO CROSS SECTIONS.
 3. UNLESS OTHERWISE NOTED DRIVEWAY MATERIAL WILL BE ASPHALT WITH 10' TURNING RADI.
 4. RELOCATE EXISTING COMMUNICATION AND FIBER OPTIC UTILITY LINES OUTSIDE THE LIMITS OF THE PROPOSED WIDENING.



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TOWN OF ROLESVILLE:
 PSP-23-04
 TOWN OF WAKE FOREST:
 PSP-XX-XX

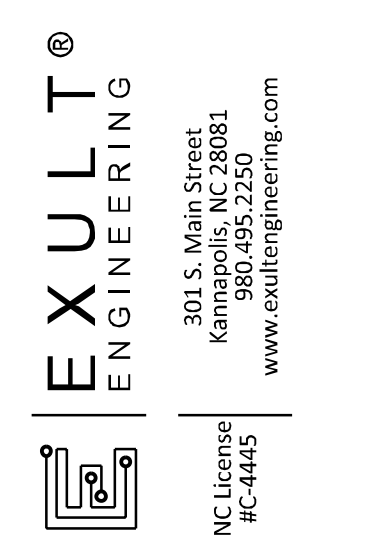
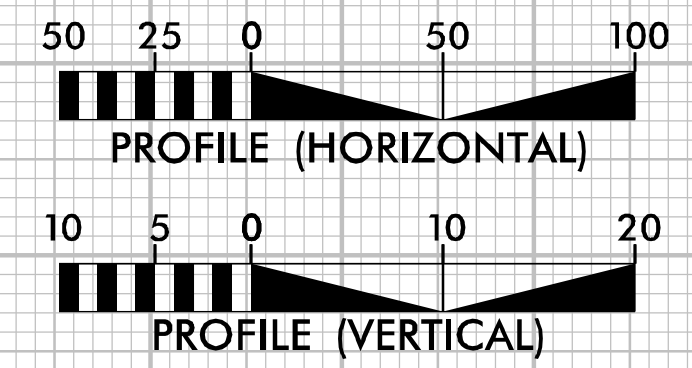
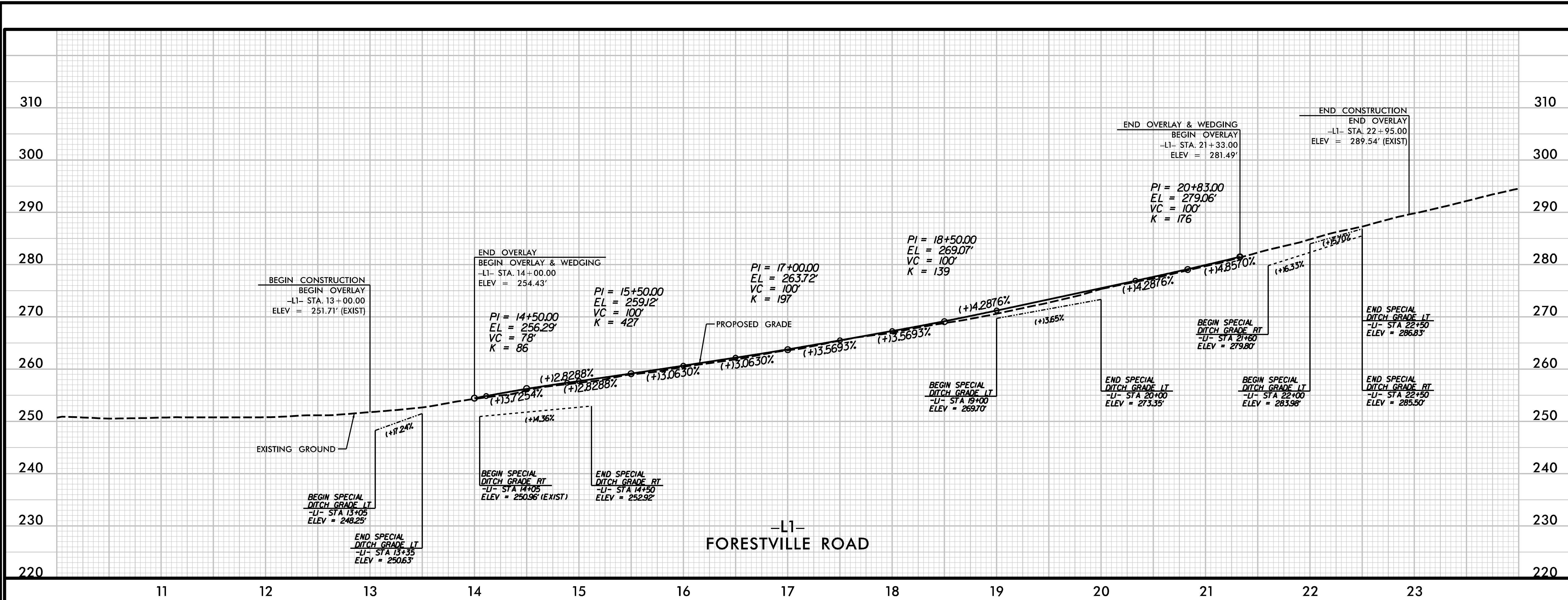
These plans have been electronically approved for construction by the Town of Wake Forest Public Works and Engineering Departments. This approval may not be altered once issued.

Public Works/Engineering

These plans have been electronically approved for construction by the Town of Wake Forest Planning Department. This approval may not be altered once issued.

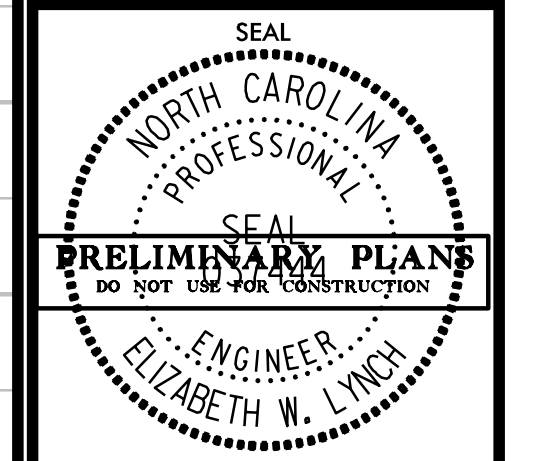
Planning

4/29/2024
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PEARCE FARM ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

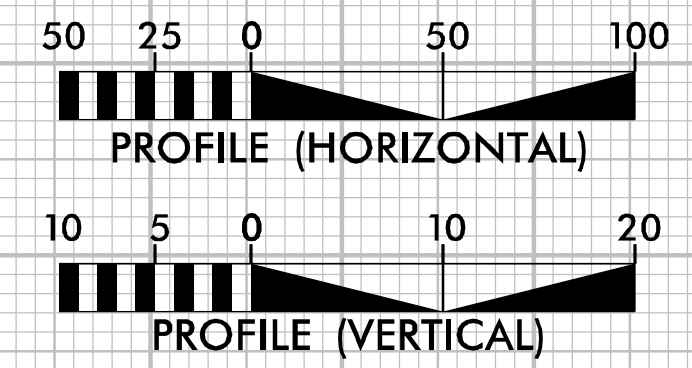
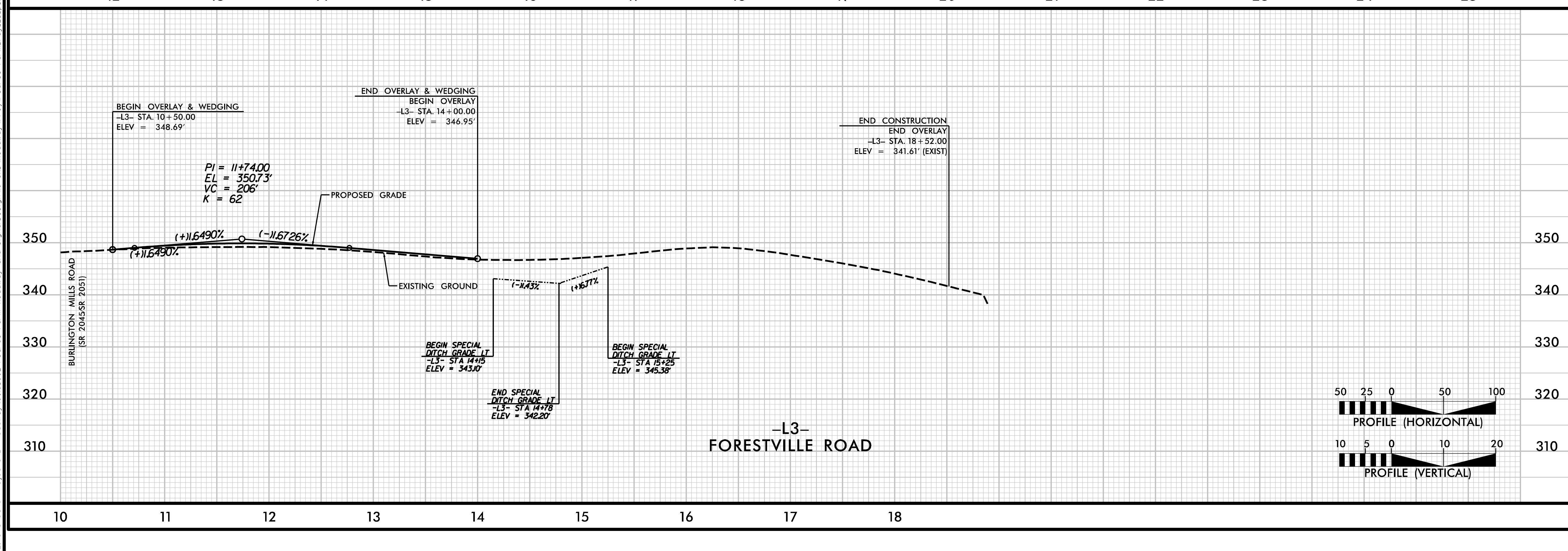
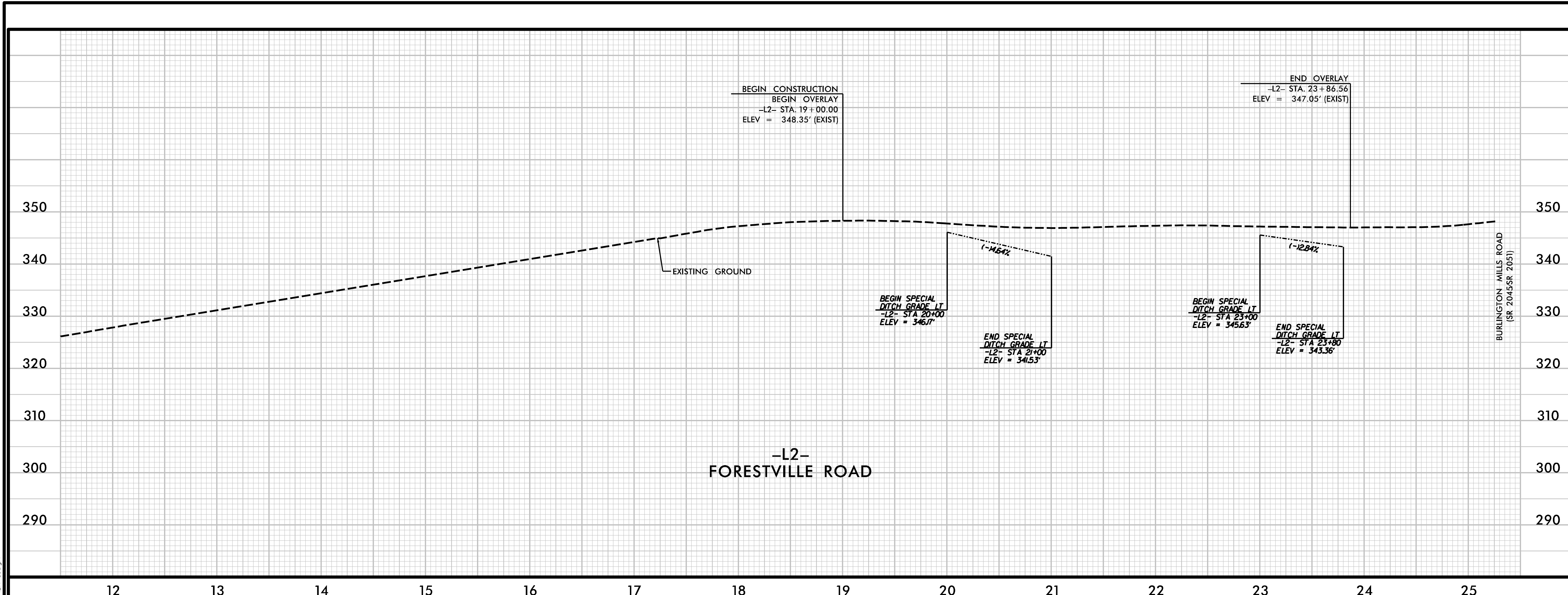
PROFILE SHEET



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REVIEWED BY: E. LYNCH	INIT.	DATE
REVISIONS		

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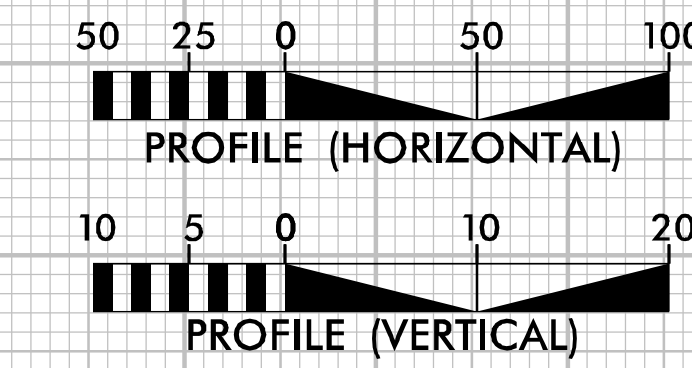
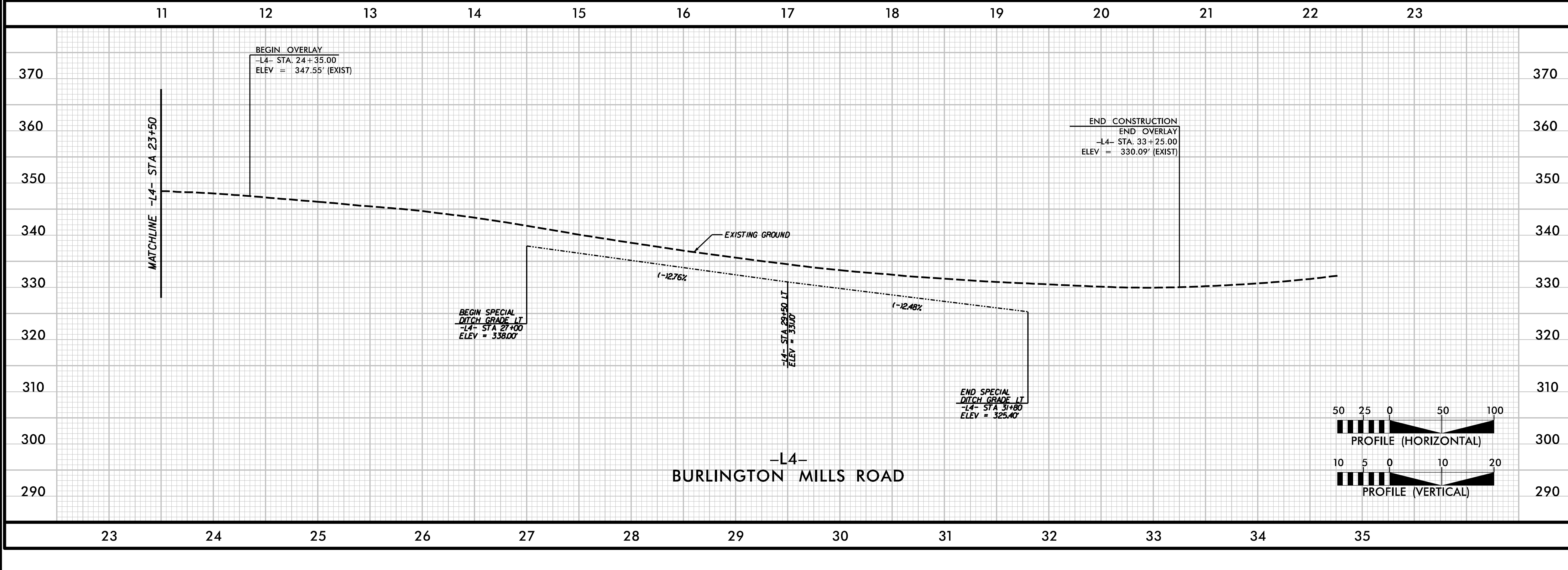
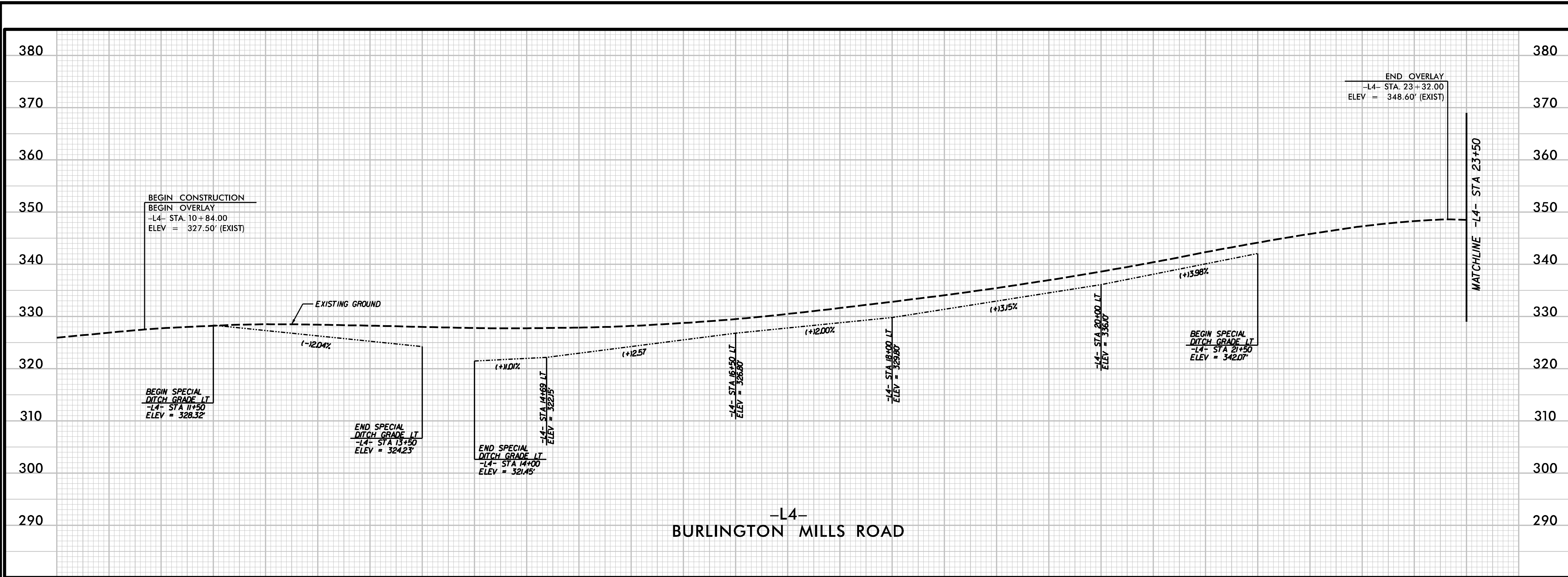
**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

PROFILE SHEET

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 ELIZABETH W. LYNCH
 PRELIMINARY PLANS
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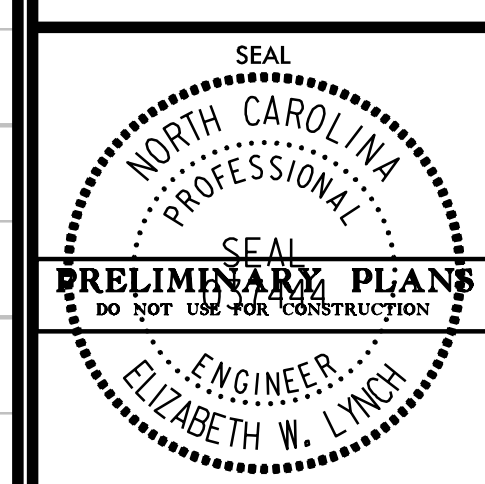
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REVIEWED BY: E. LYNCH	DATE:
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INIT.	DATE

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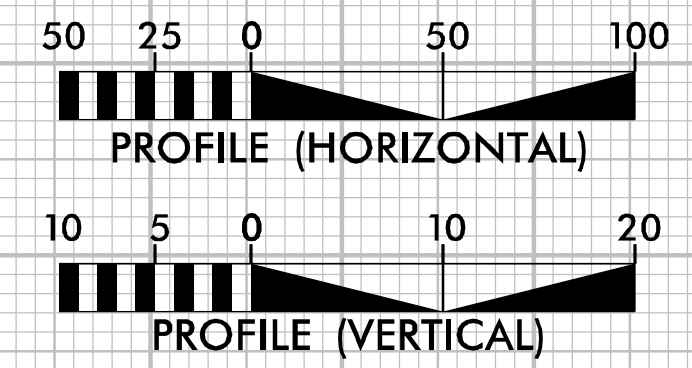
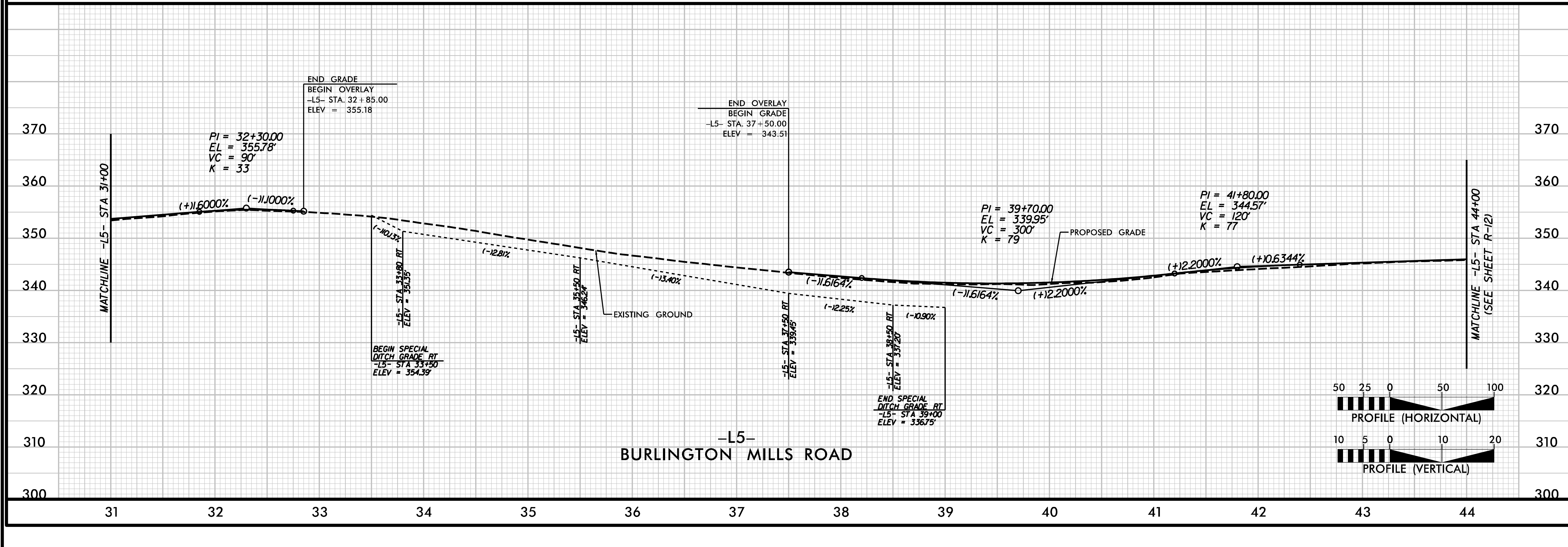
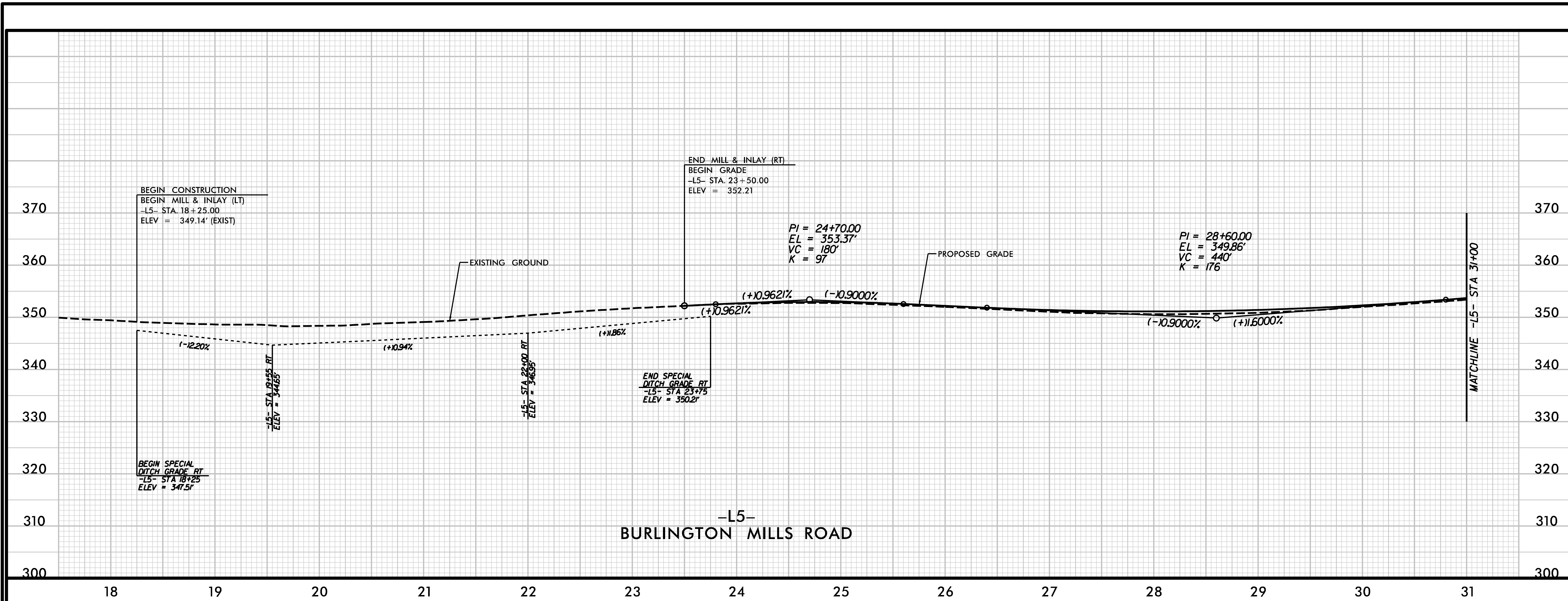
PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

PROFILE SHEET



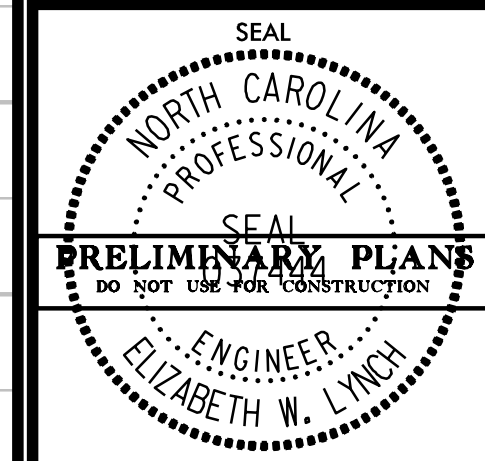
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REVIEWED BY: E. LYNCH	INIT.:
DATE: 04/30/24	DATE:
SCALE: 1" = 50'	REVISIONS:

4/30/2024
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PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

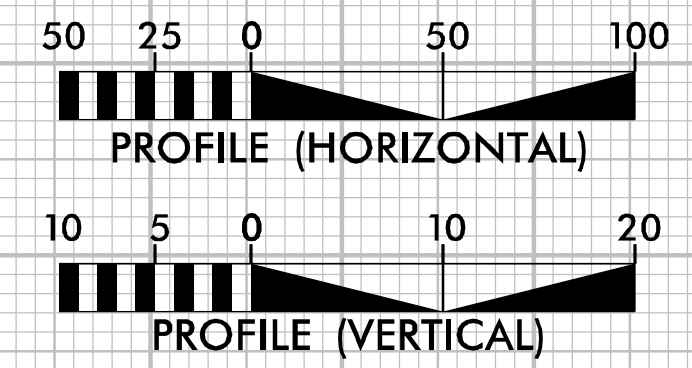
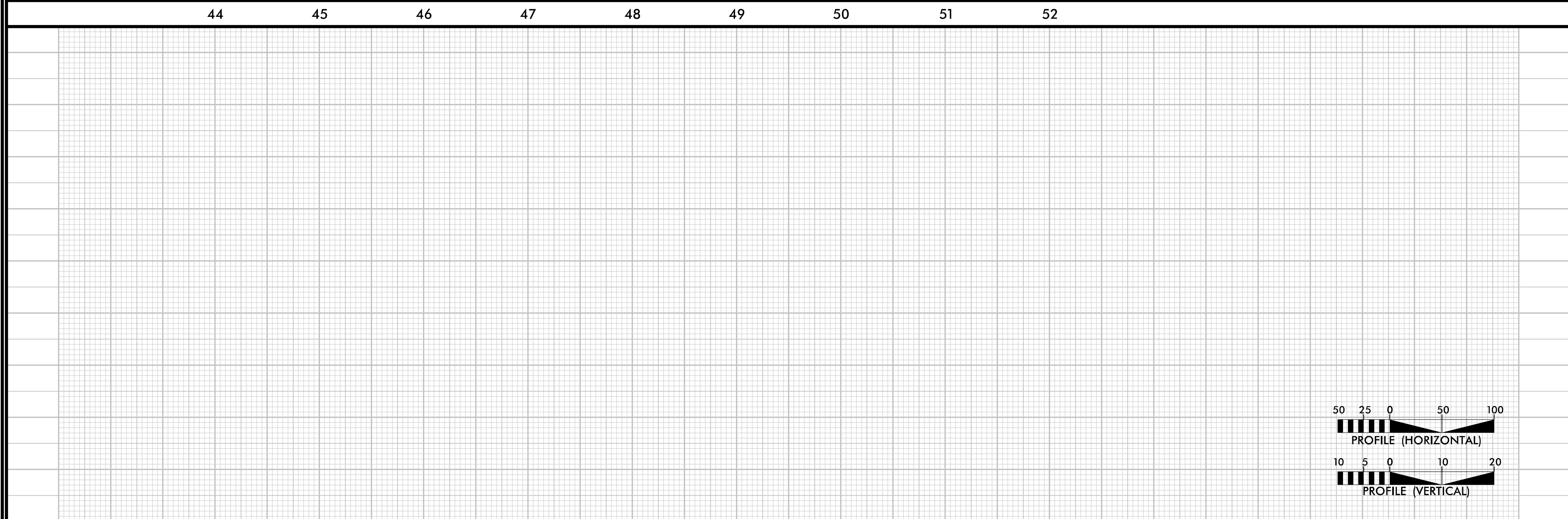
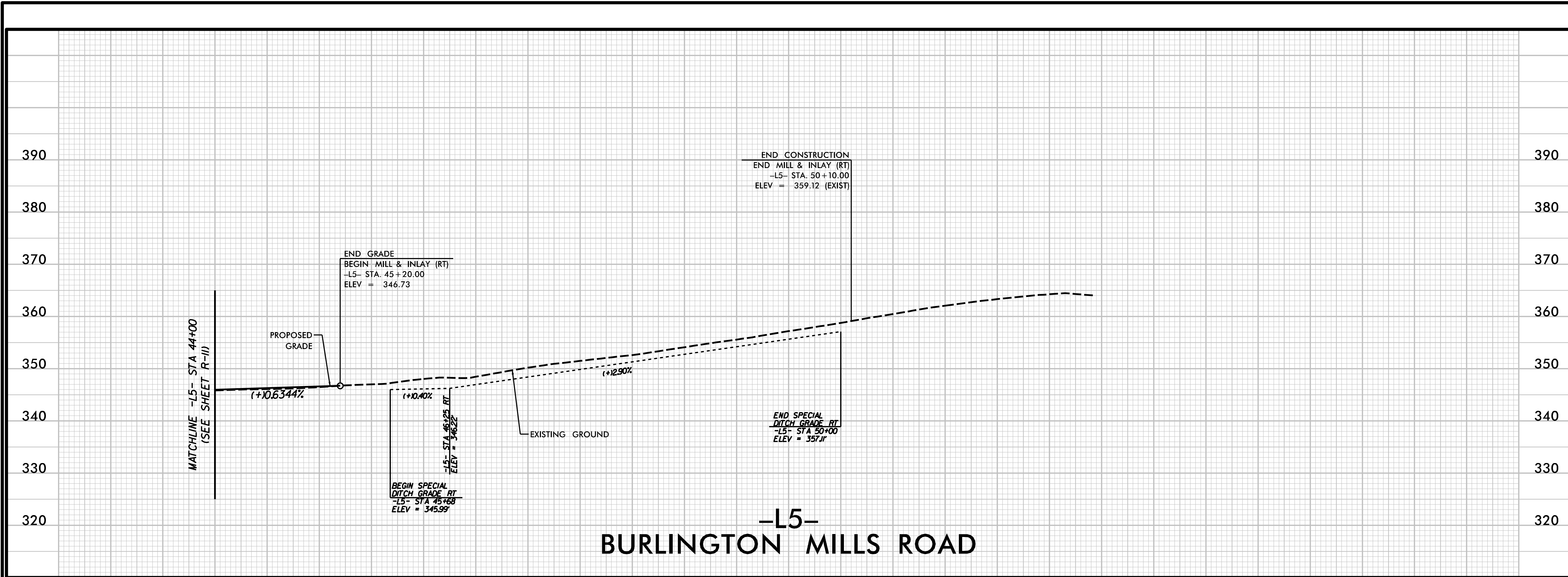
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DATE: 04/30/24	DATE:
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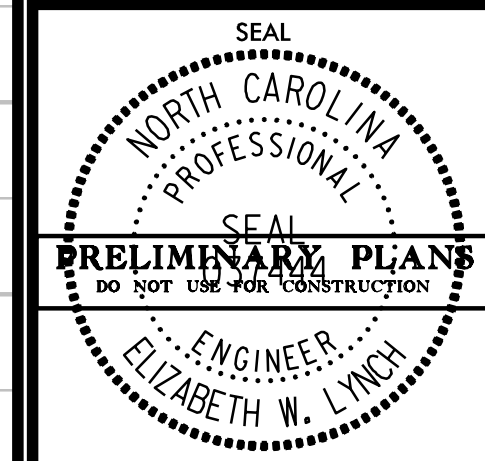
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R-11

4/30/2024
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**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

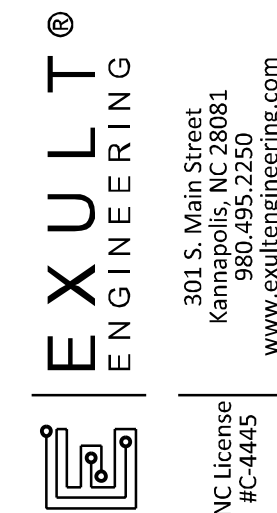
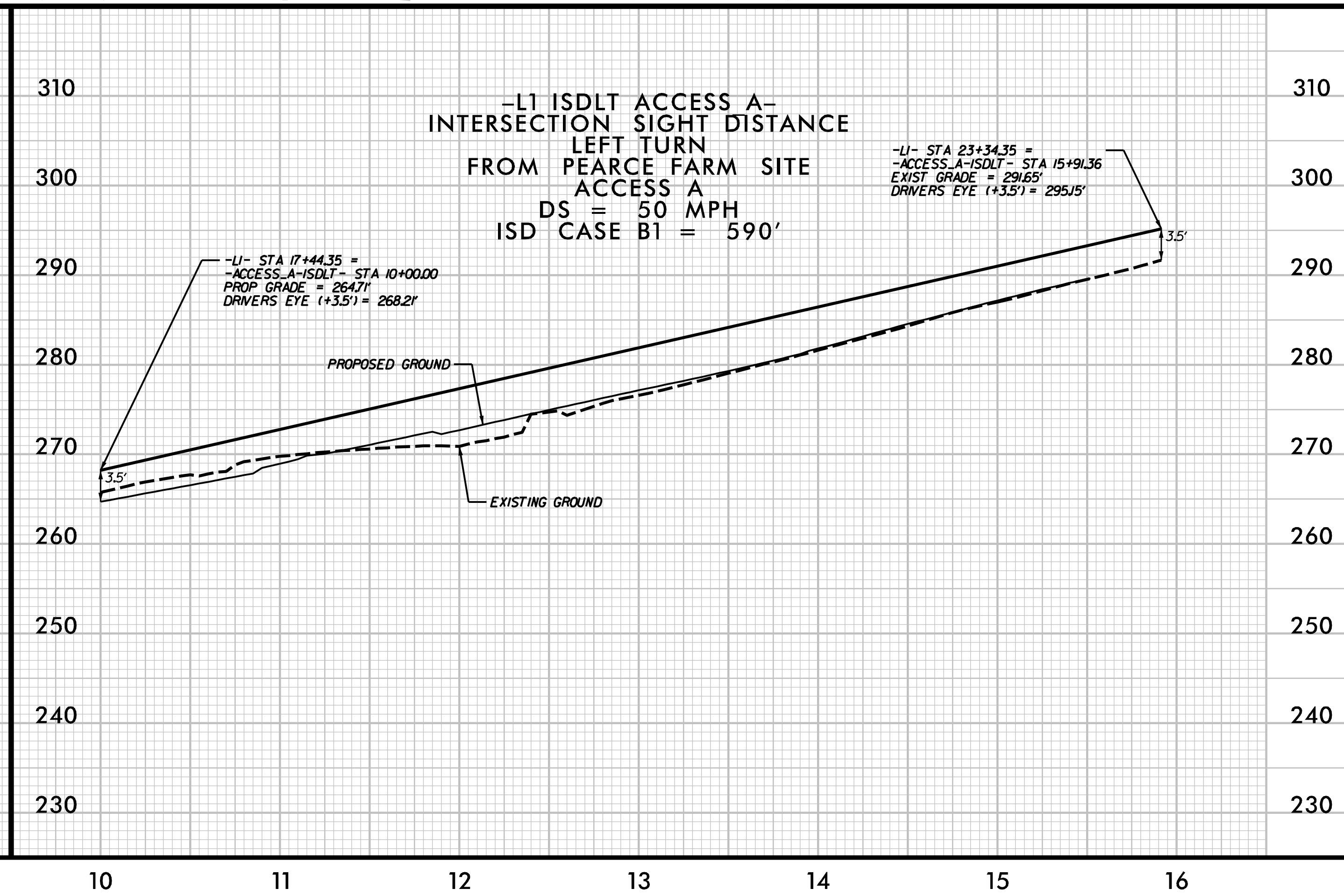
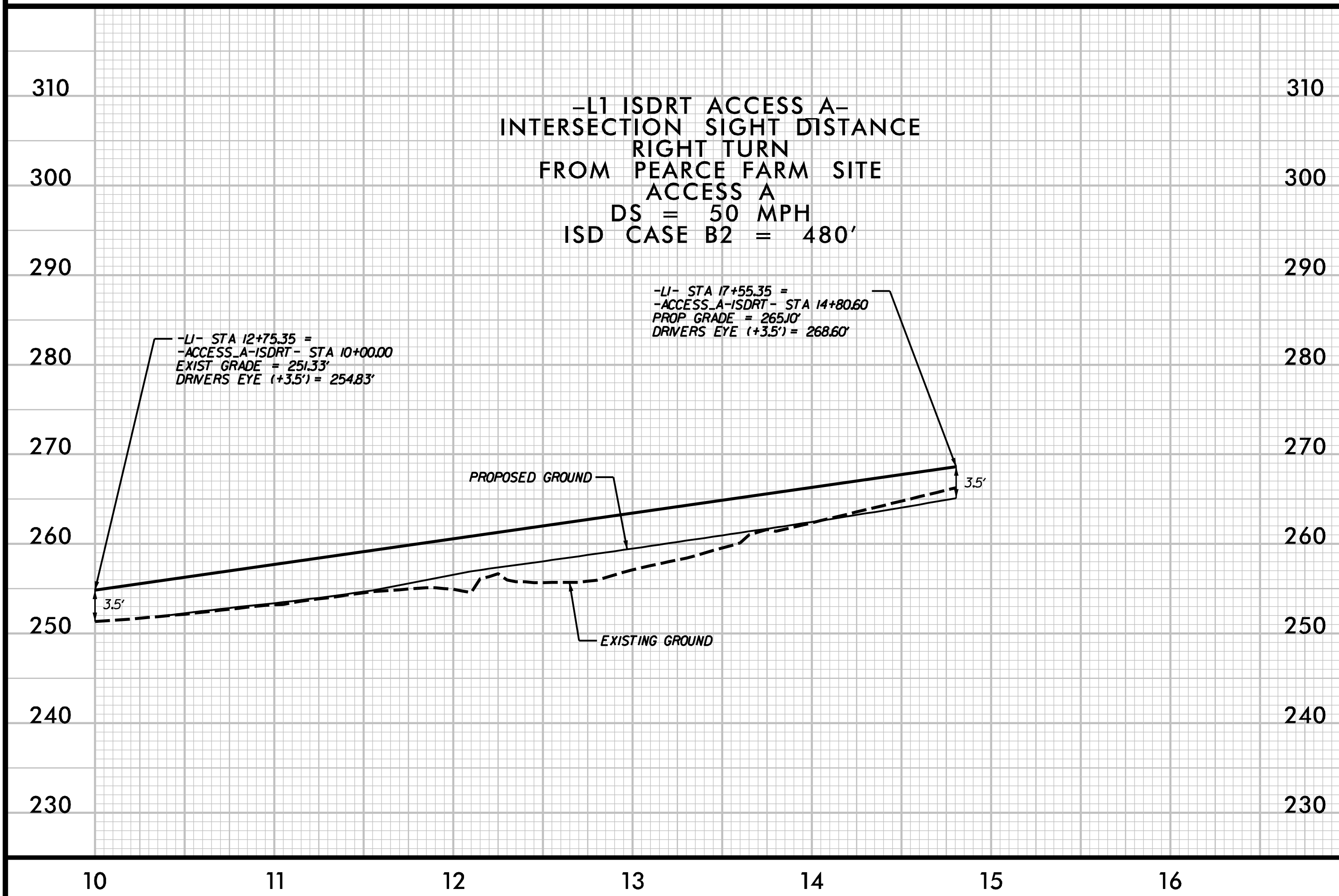
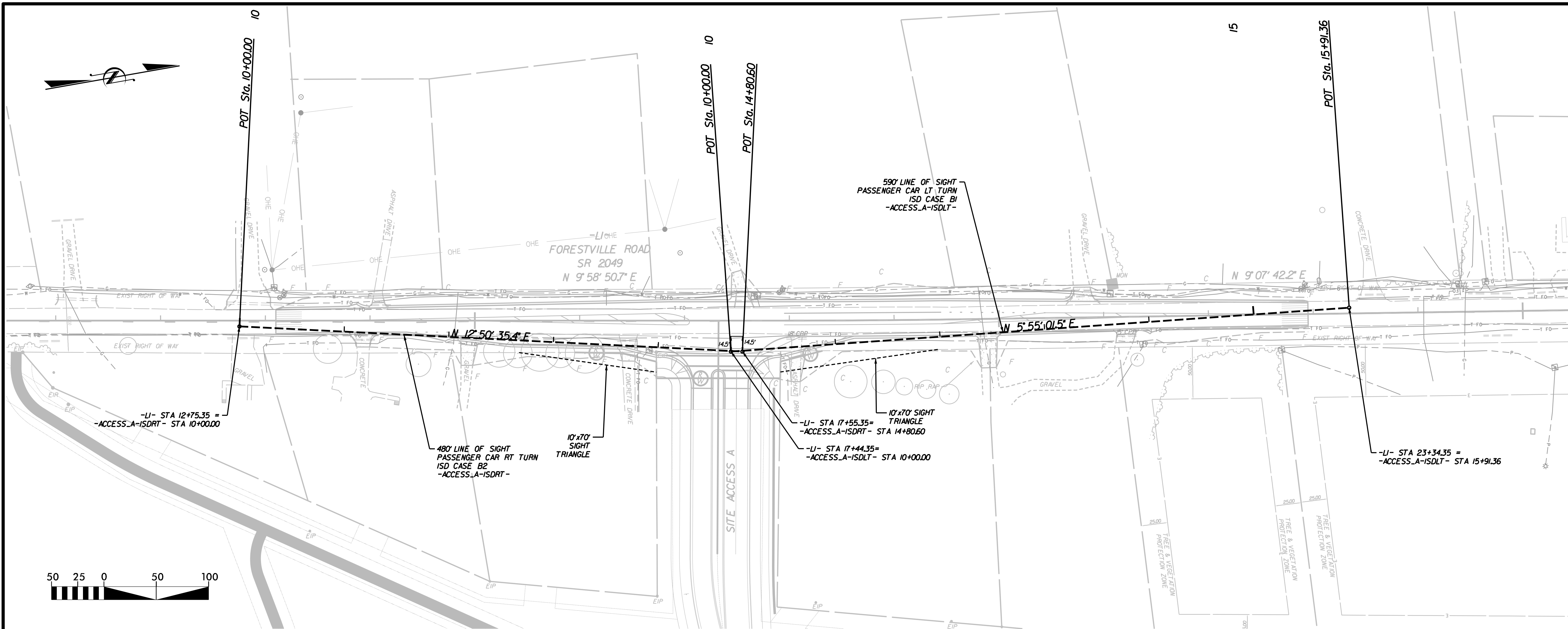
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REVIEWED BY: E. LYNCH	04/30/24		
SCALE: 1" = 50'			
REVISIONS			

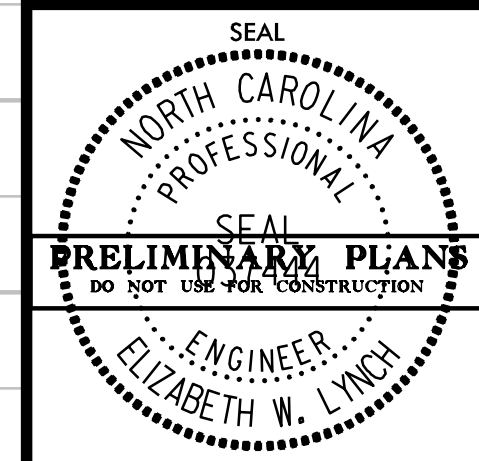
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**PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA**

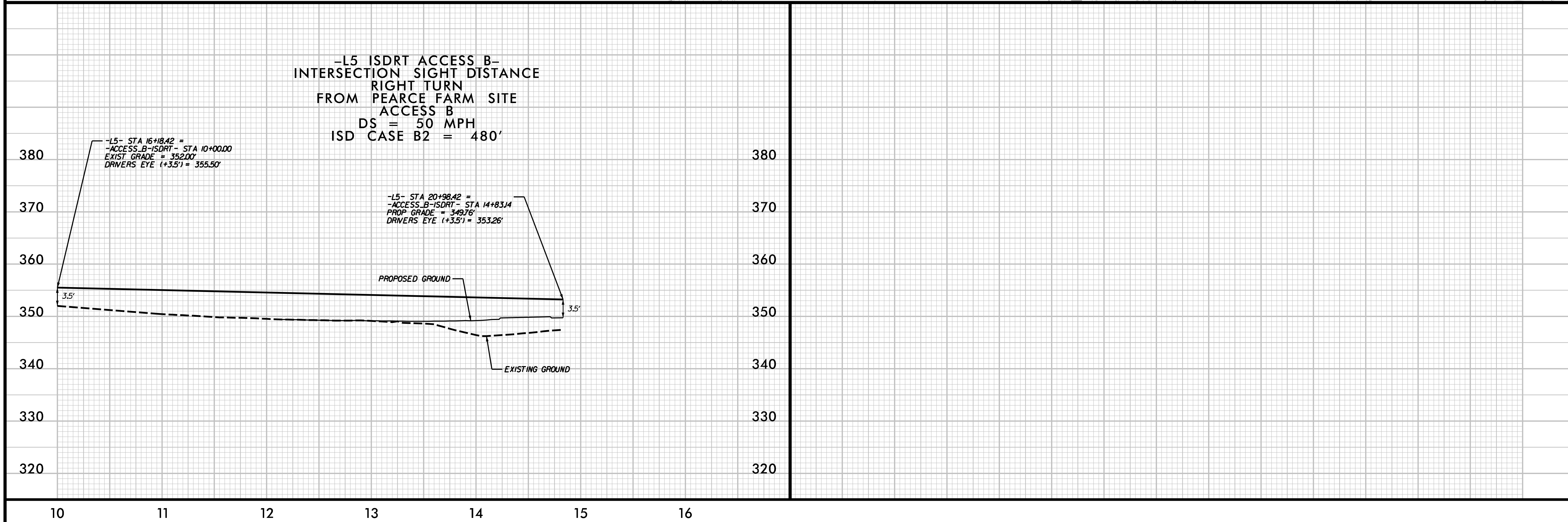
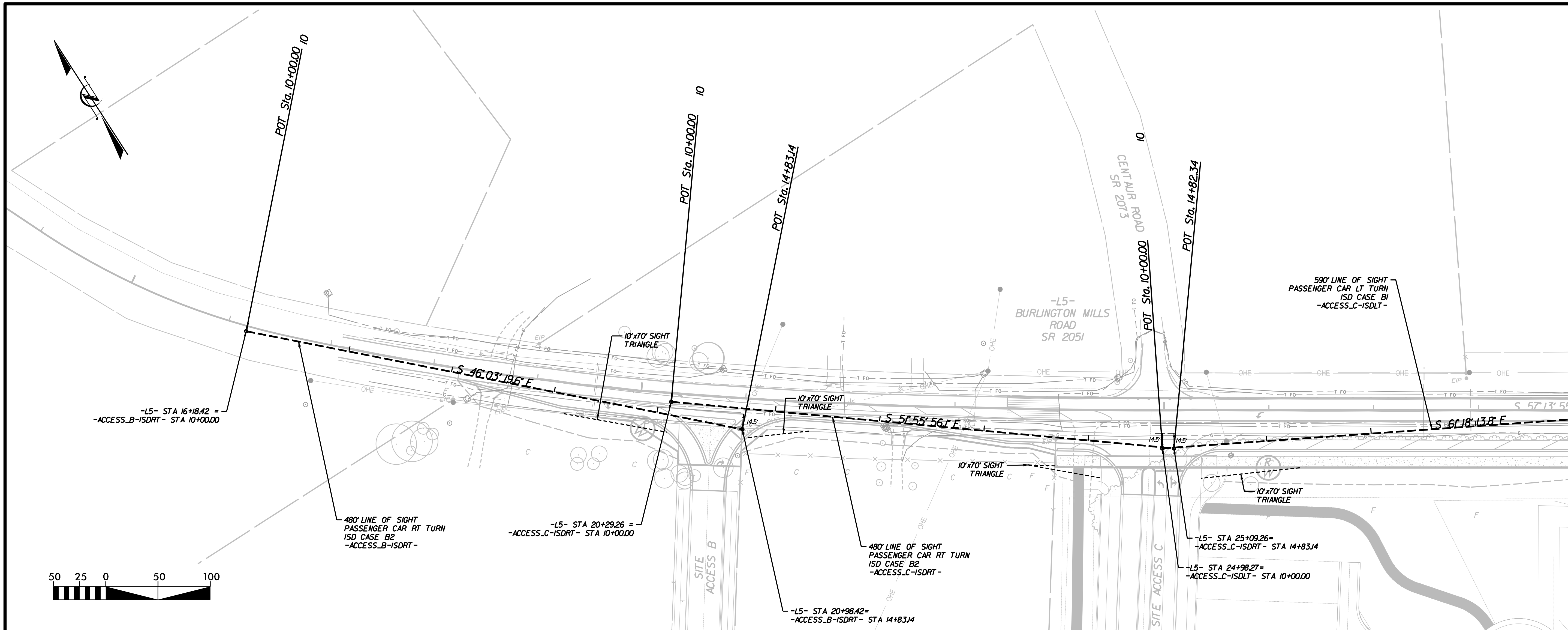
**ACCESS A
INTERSECTION
SIGHT DISTANCE**



DESIGNED BY: G. BOYLE	DATE:
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SCALE:	DATE:
REVISIONS:	DATE:
SIGNATURE:	DATE:

SD-1

4/29/2024 Z:\Share\0 Projects\4 Roadway\0003002 Pearce Farm Roadway and SignalDesign\0 CAD\Roadway\Proj\Pearce Form_rdy_30.psh_SD-2.dgn



-L5 ISDRT ACCESS B-
INTERSECTION SIGHT DISTANCE
RIGHT TURN
FROM PEARCE FARM SITE
ACCESS B
DS = 50 MPH
ISD CASE B2 = 480'

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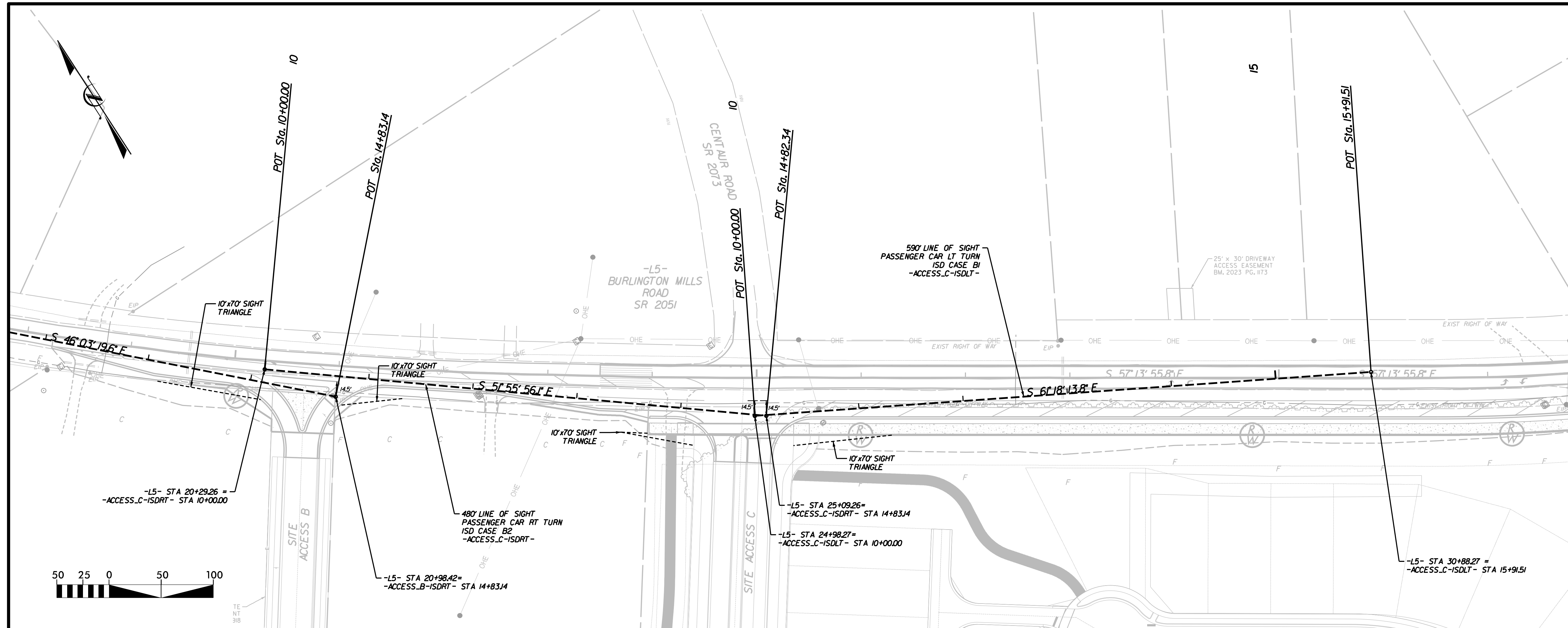
**ACCESS B
INTERSECTION
SIGHT DISTANCE**

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ENGINEER
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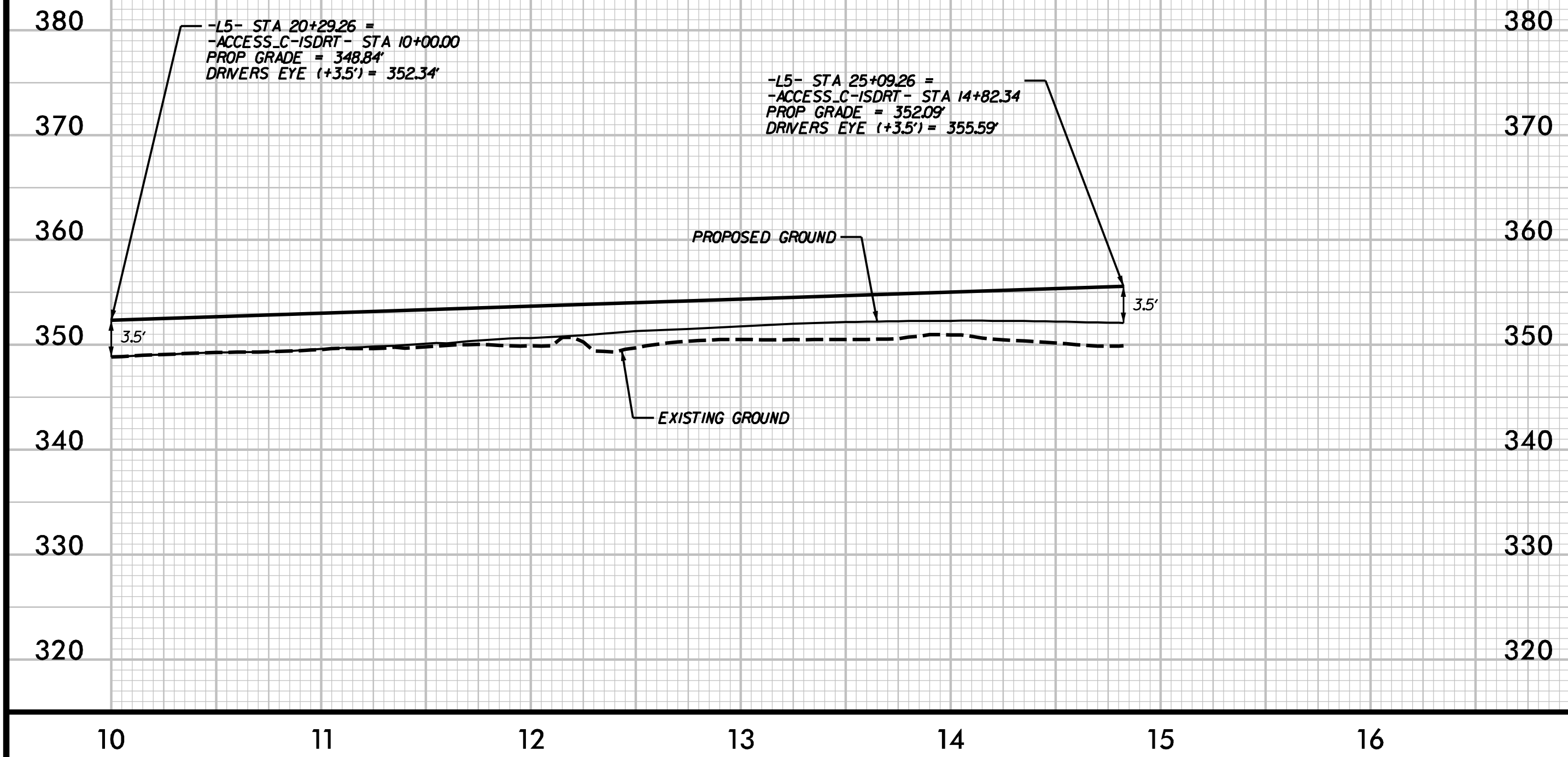
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INIT.	DATE

SHEET NO.
SD-2

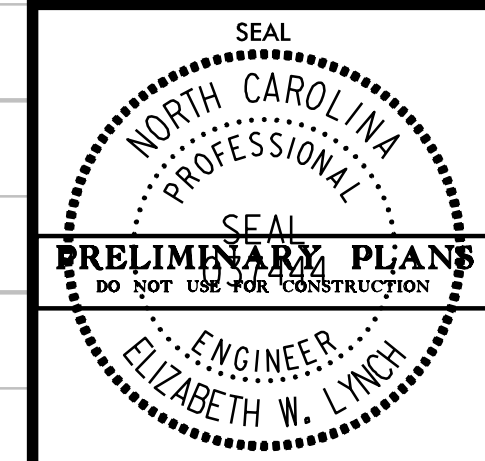
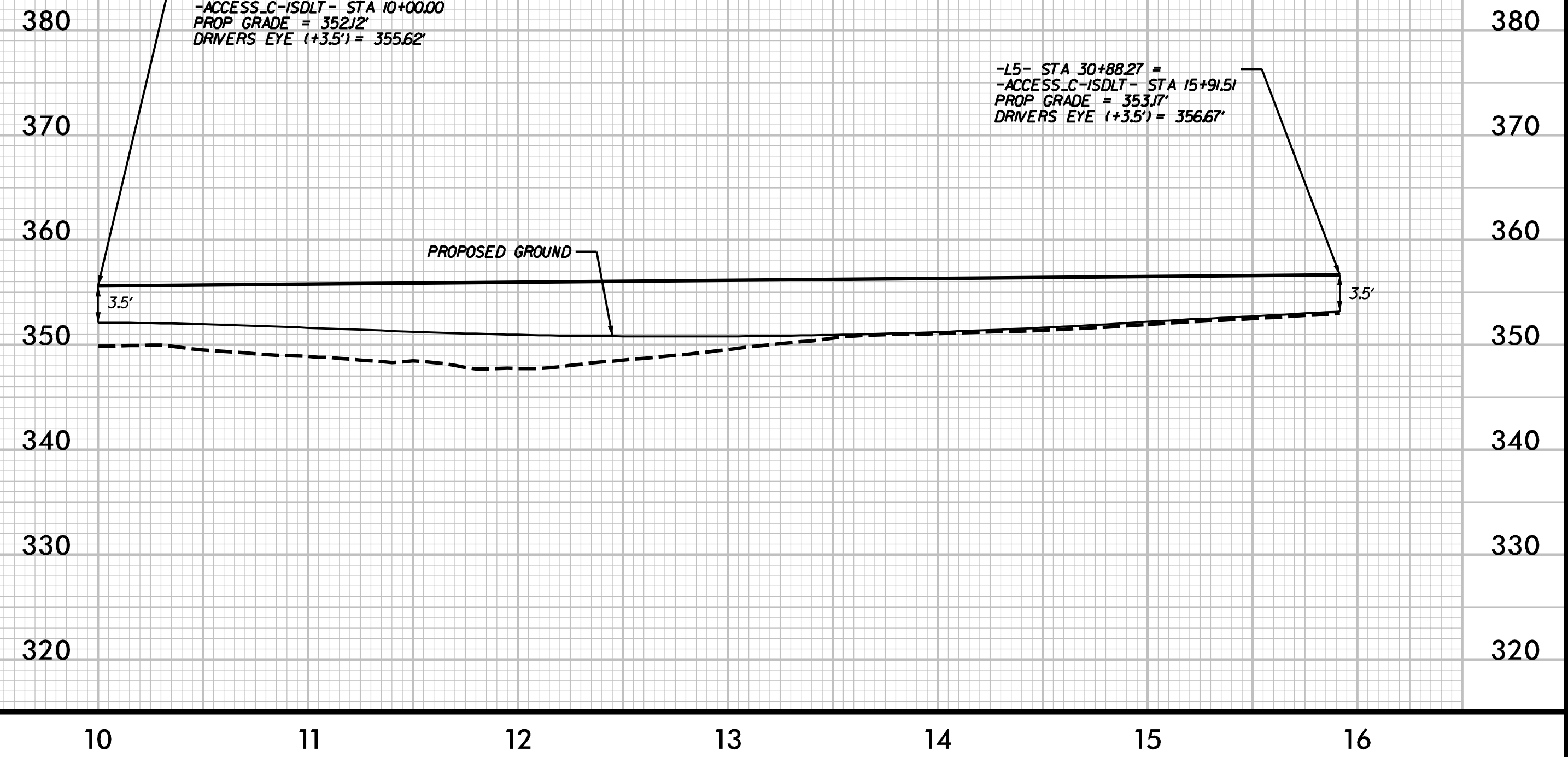
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**-L5 ISDRT ACCESS C-
INTERSECTION SIGHT DISTANCE
RIGHT TURN
FROM PEARCE FARM SITE
ACCESS C
DS = 50 MPH
ISD CASE B2 = 480'**

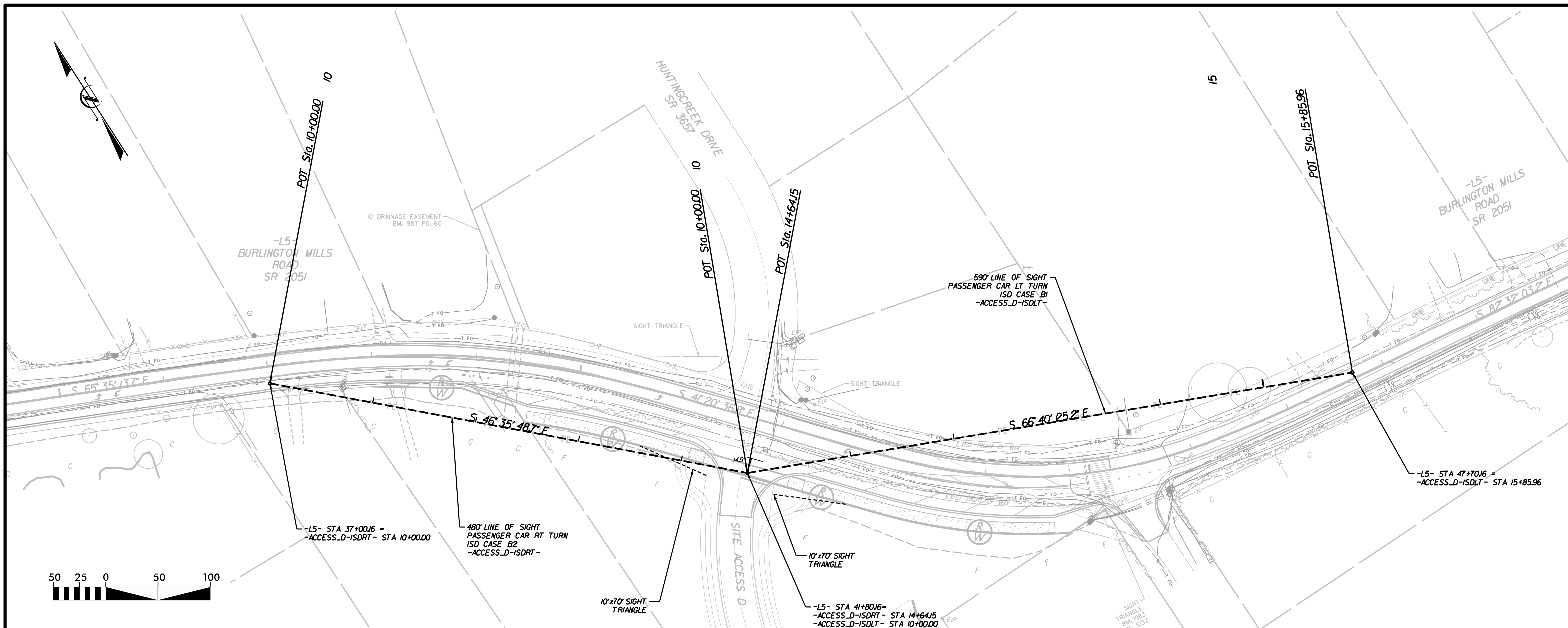


**-L5 ISDLT ACCESS C-
INTERSECTION SIGHT DISTANCE
LEFT TURN
FROM PEARCE FARM SITE
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ISD CASE B1 = 590'**

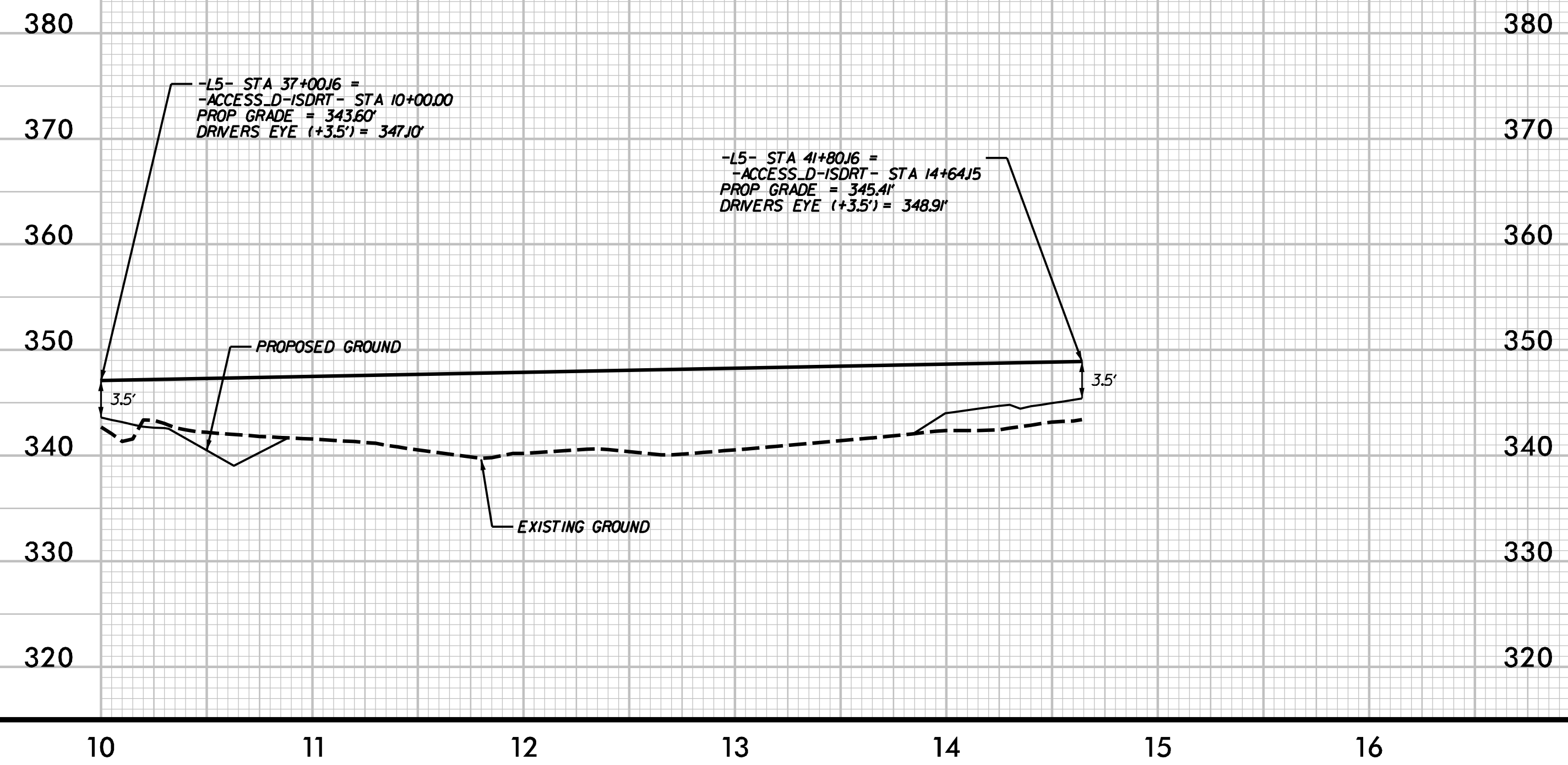


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DATE: 04/30/24	SCALE:
REVISIONS:	DATE:
INIT:	DATE:

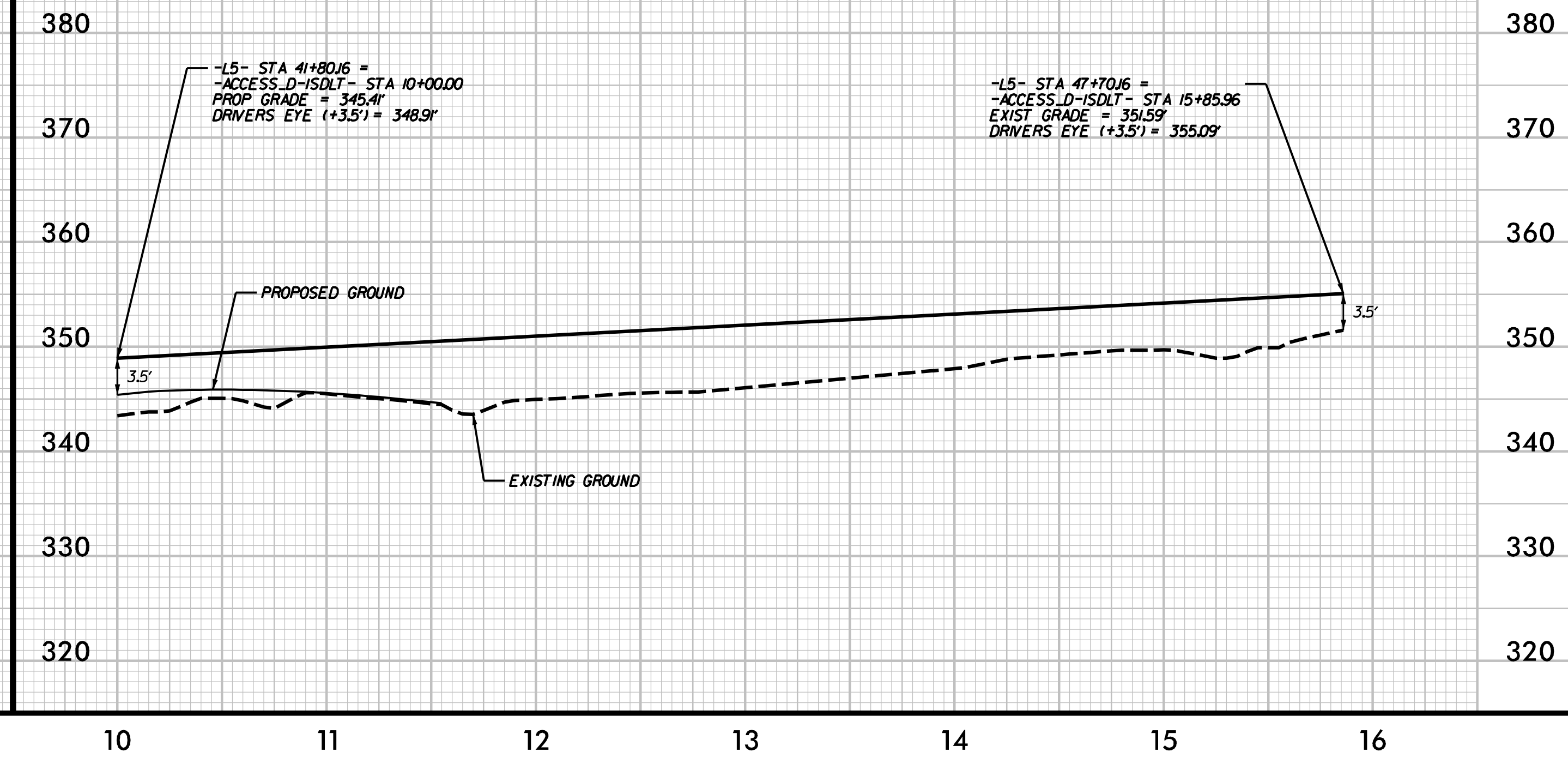
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**-L5 ISDRT ACCESS D-
 INTERSECTION SIGHT DISTANCE
 RIGHT TURN
 FROM PEARCE FARM SITE
 ACCESS D
 DS = 50 MPH
 ISD CASE B2 = 480'**

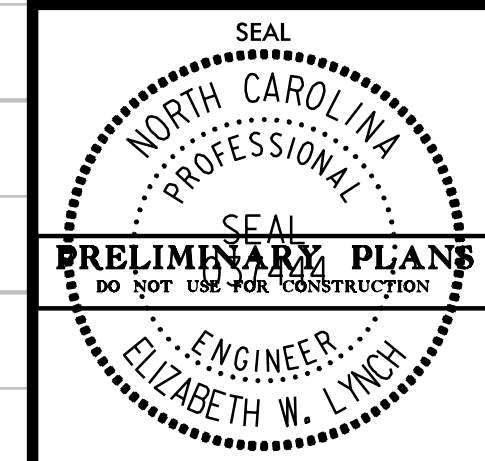


**-L5 ISDLT ACCESS D-
 INTERSECTION SIGHT DISTANCE
 LEFT TURN
 FROM PEARCE FARM SITE
 ACCESS D
 DS = 50 MPH
 ISD CASE B1 = 590'**



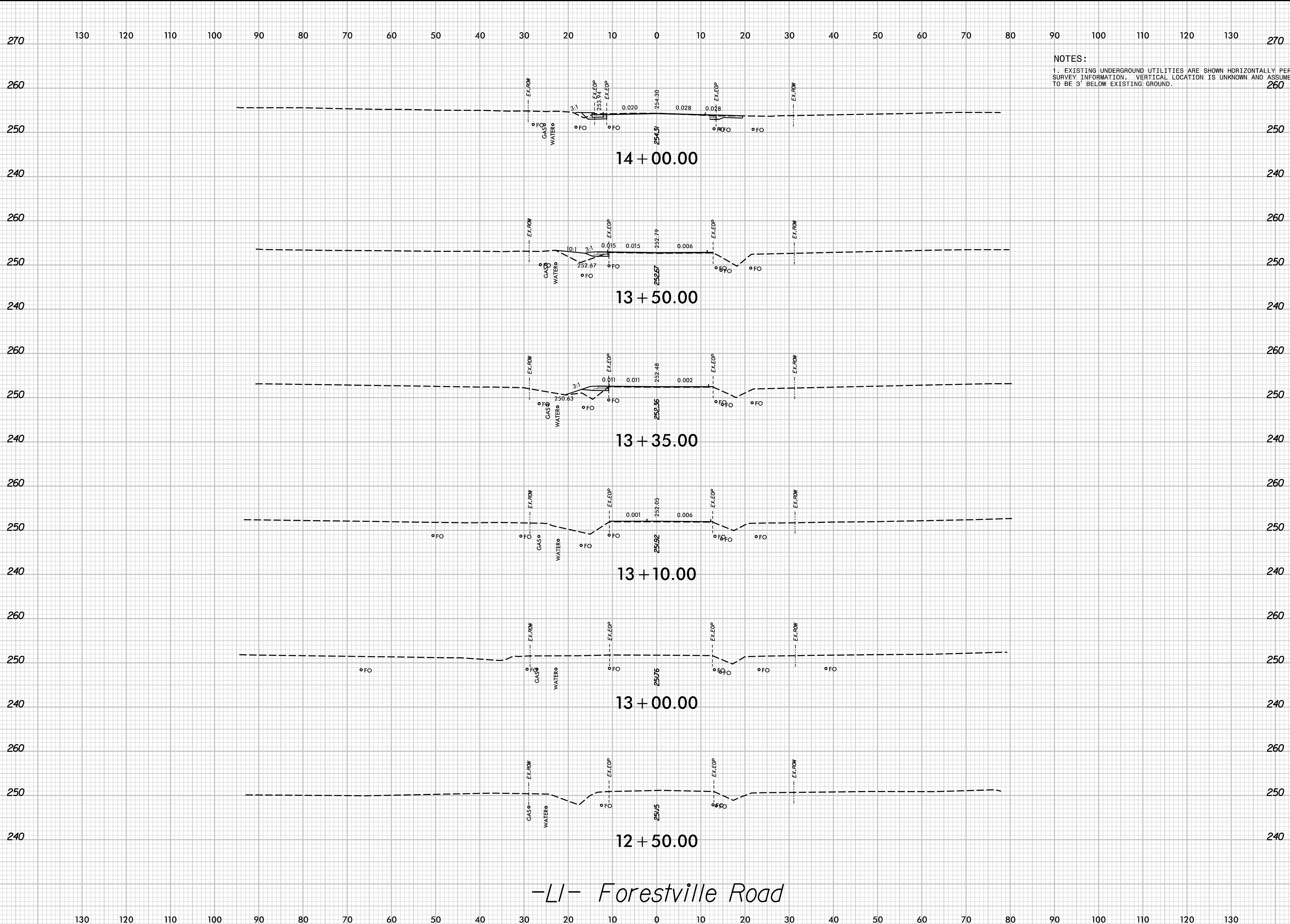
**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ACCESS D
 INTERSECTION
 SIGHT DISTANCE**



DESIGNED BY: G. BOYLE	DATE:
REVIEWED BY: E. LYNCH	DATE:
DATE: 04/30/24	SCALE:
REVISIONS:	INITIALS:
	DATE:

SD-4



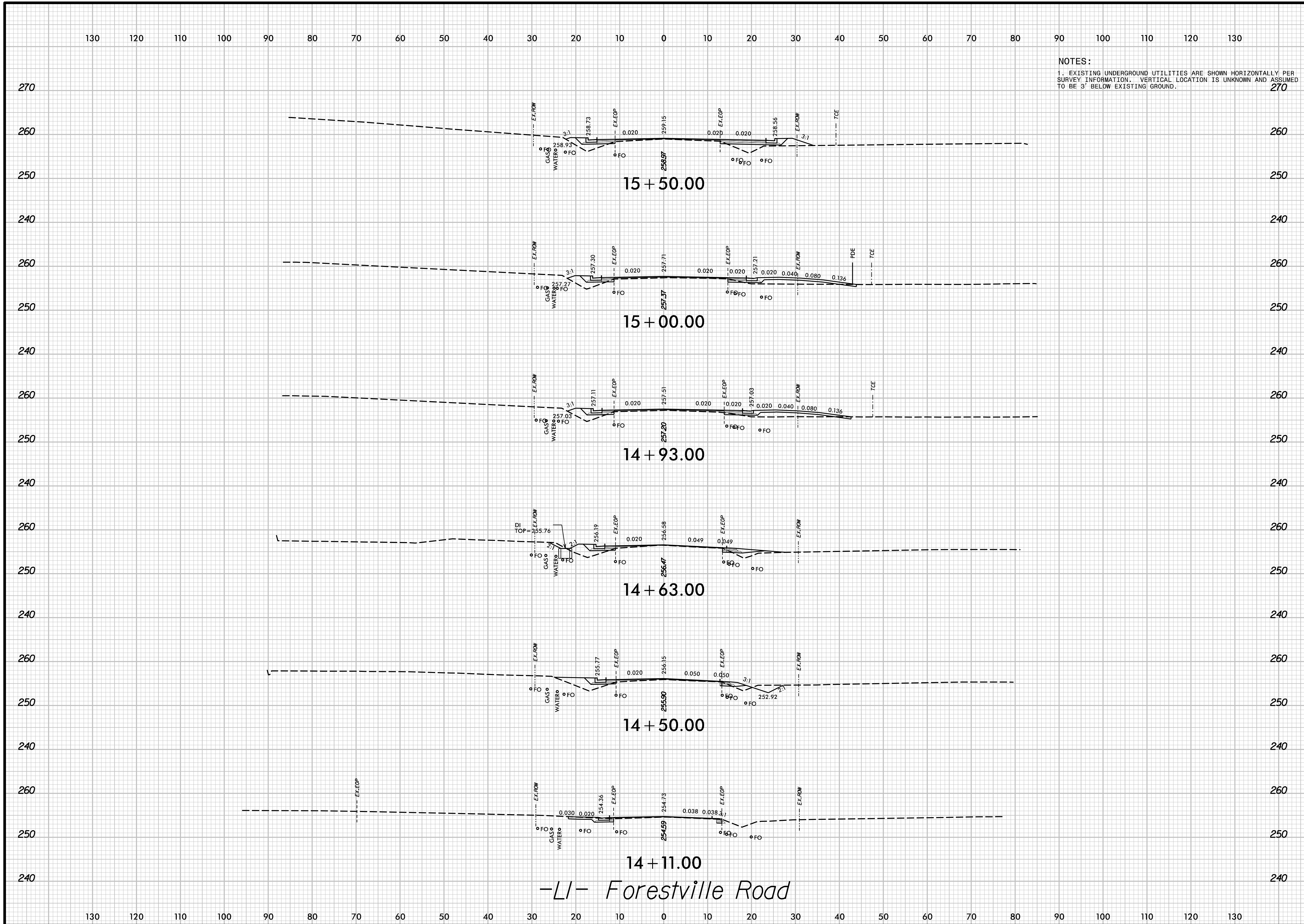
NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

-LI- Forestville Road

**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	DATE: 04/30/24	SCALE:	REVISIONS:	INIT.	DATE
REVIEWED BY: E. LYNCH					

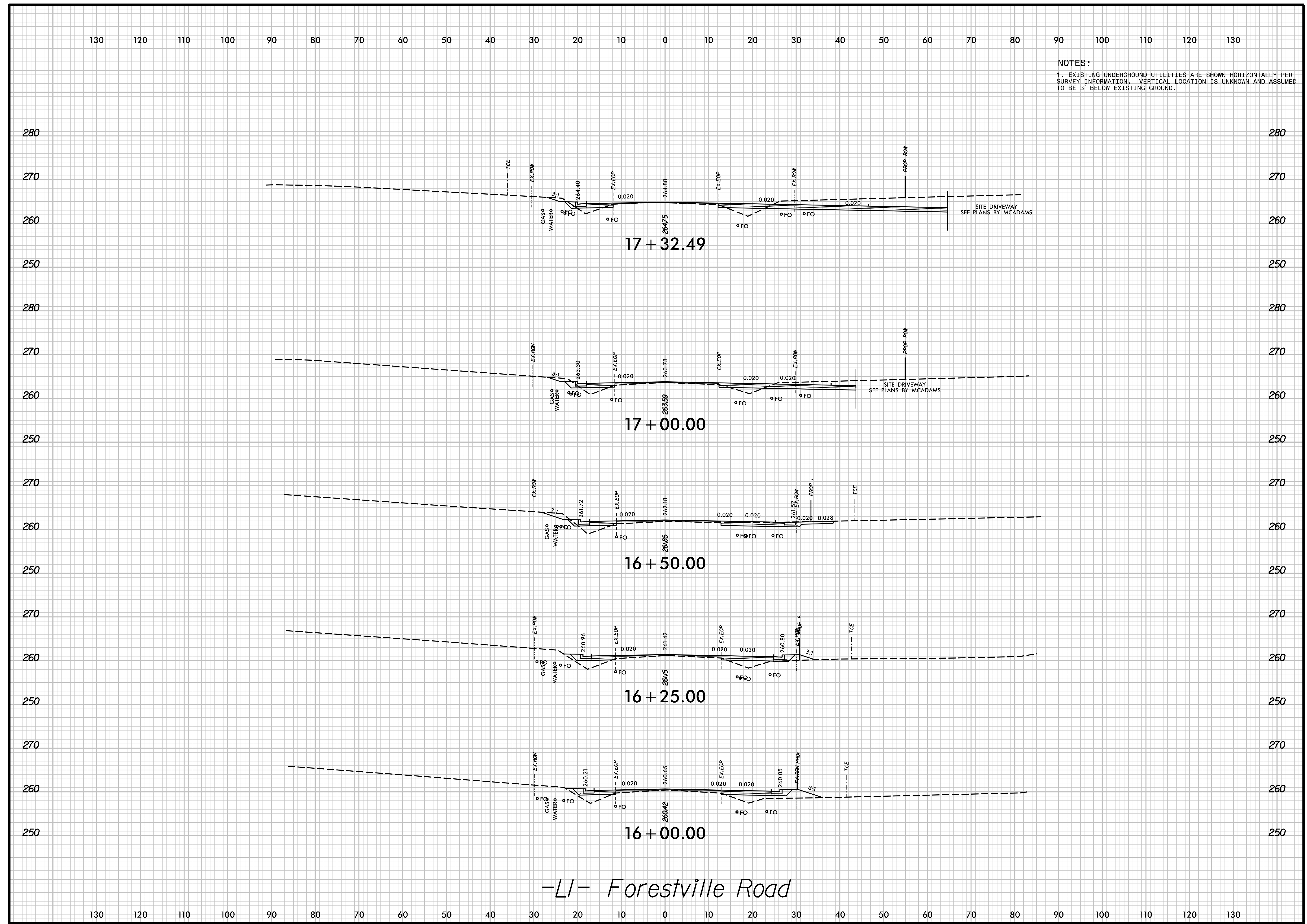


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**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
SCALE:	REVISIONS	



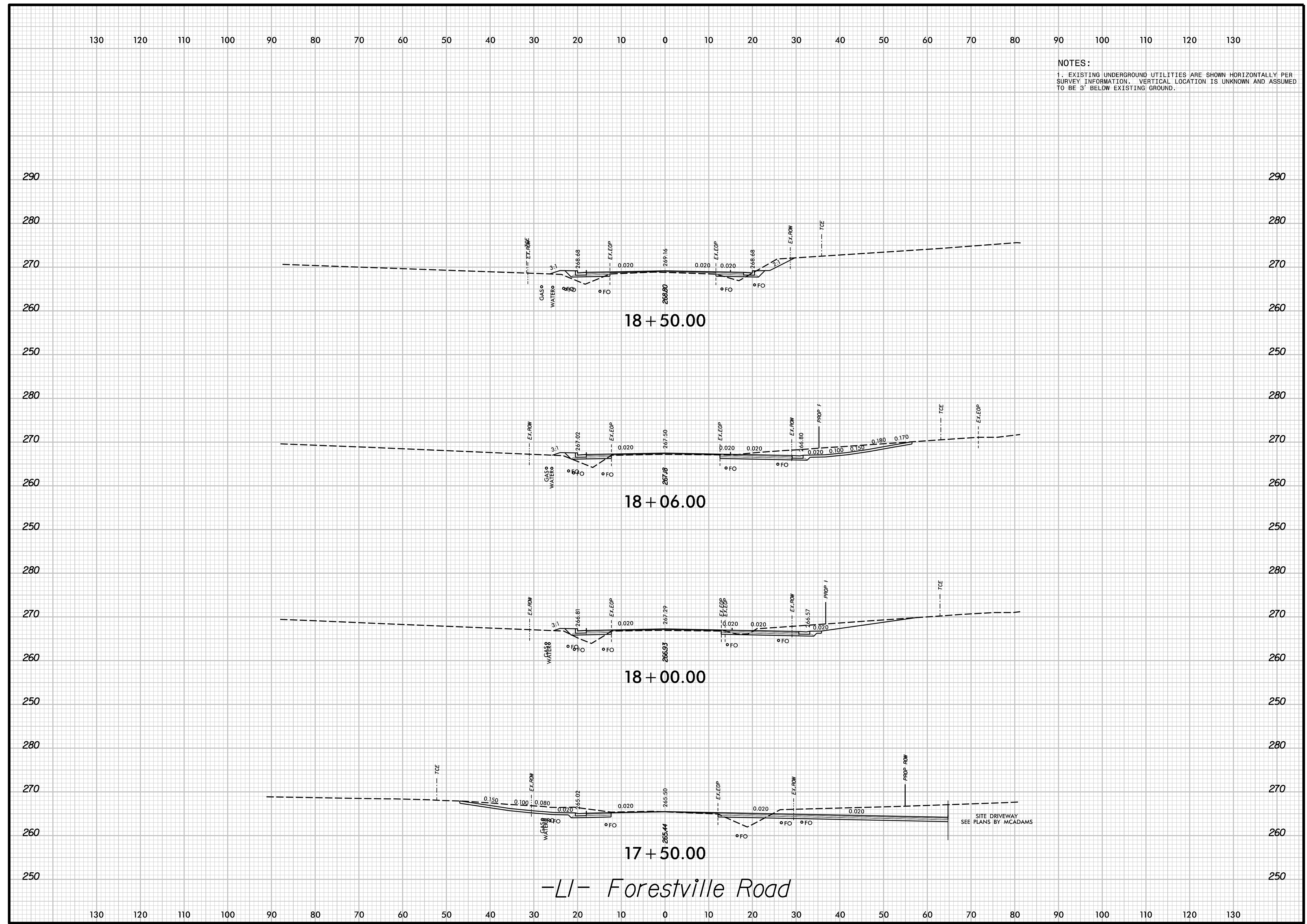
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**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

-LI- Forestville Road



NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

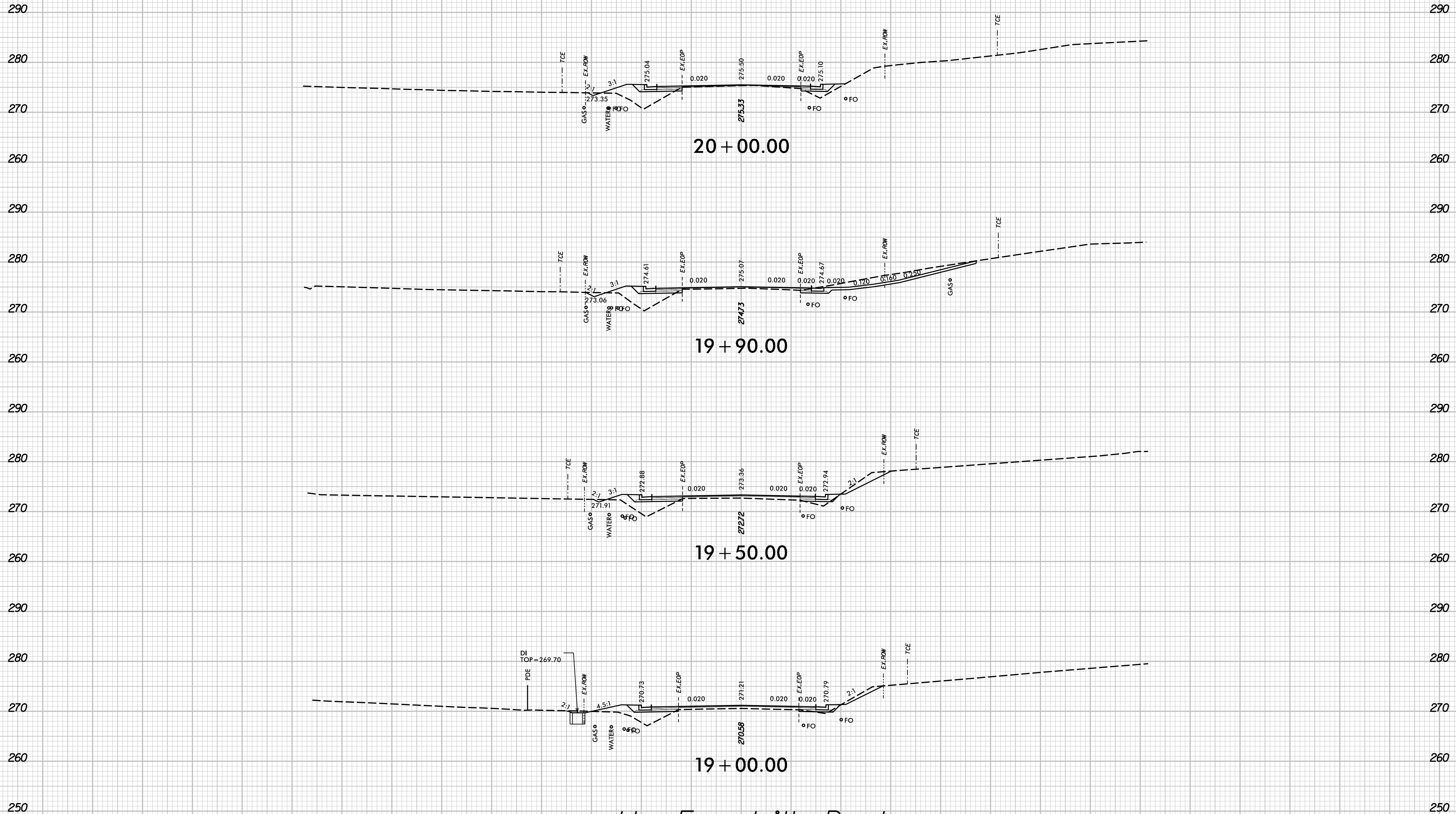
DESIGNED BY: G. BOYLE
 REVIEWED BY: E. LYNCH
 DATE: 04/30/24

REVISIONS	INIT.	DATE

SHEET NO.
X-4

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NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-LI- Forestville Road

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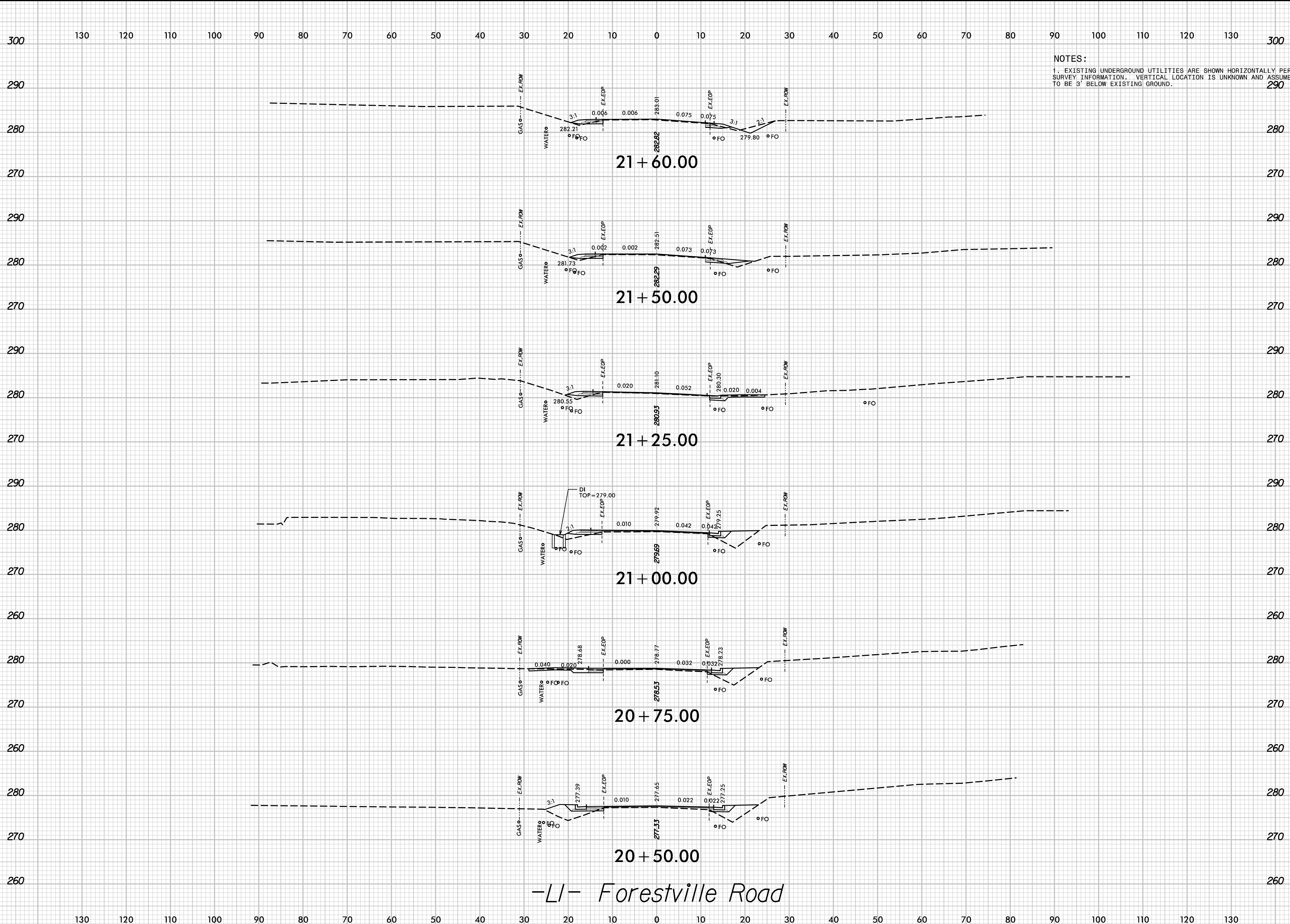
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ROADWAY
 CROSS SECTIONS

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REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

SHEET NO.
 X-5



NOTES:
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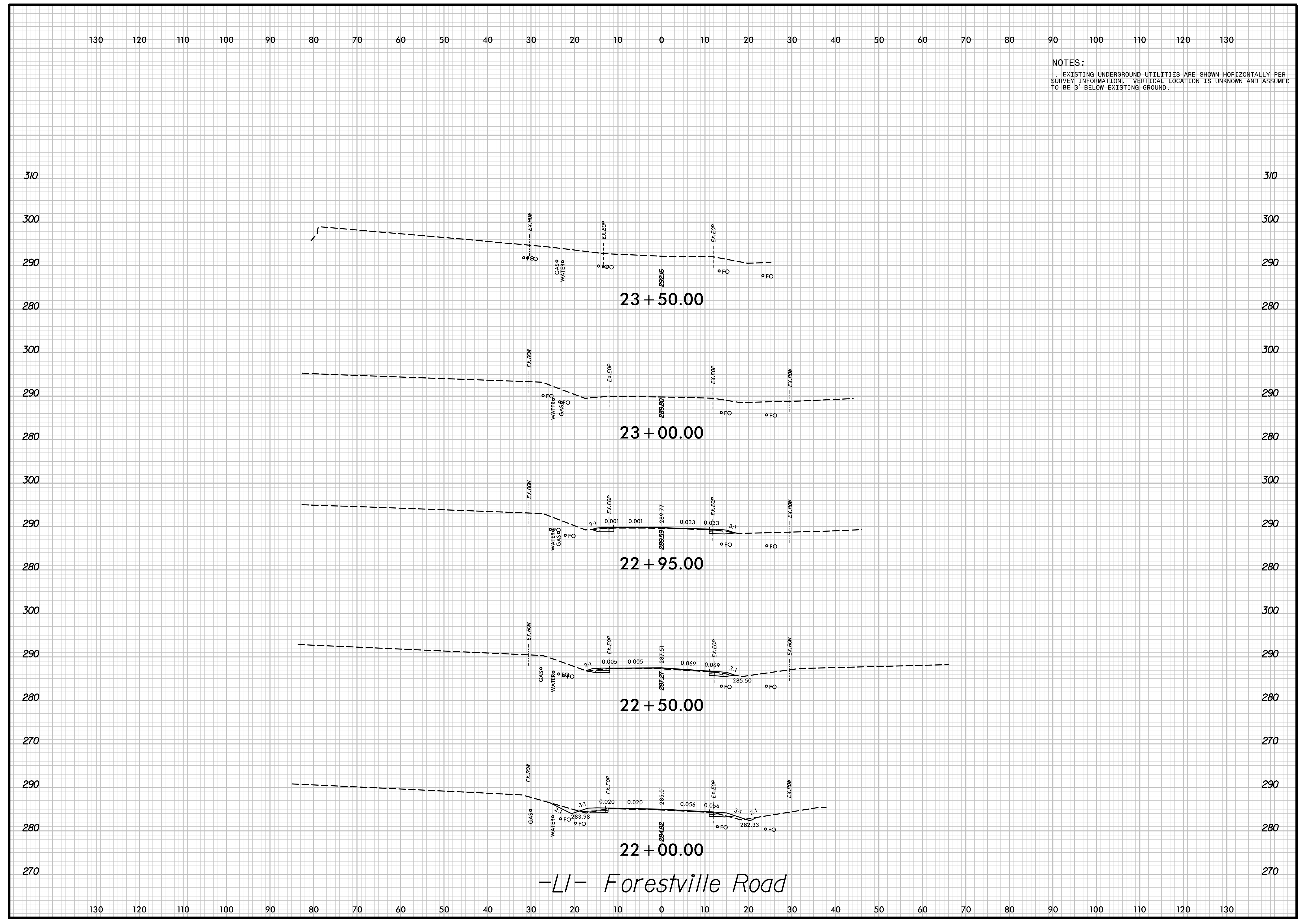


**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

JOB NO.: 00103002	DESIGNED BY: G. BOYLE	DATE:	INIT.	DATE
SCALE: 04/30/24	REVIEWED BY: E. LYNCH			
		REVISIONS		

-LI- Forestville Road

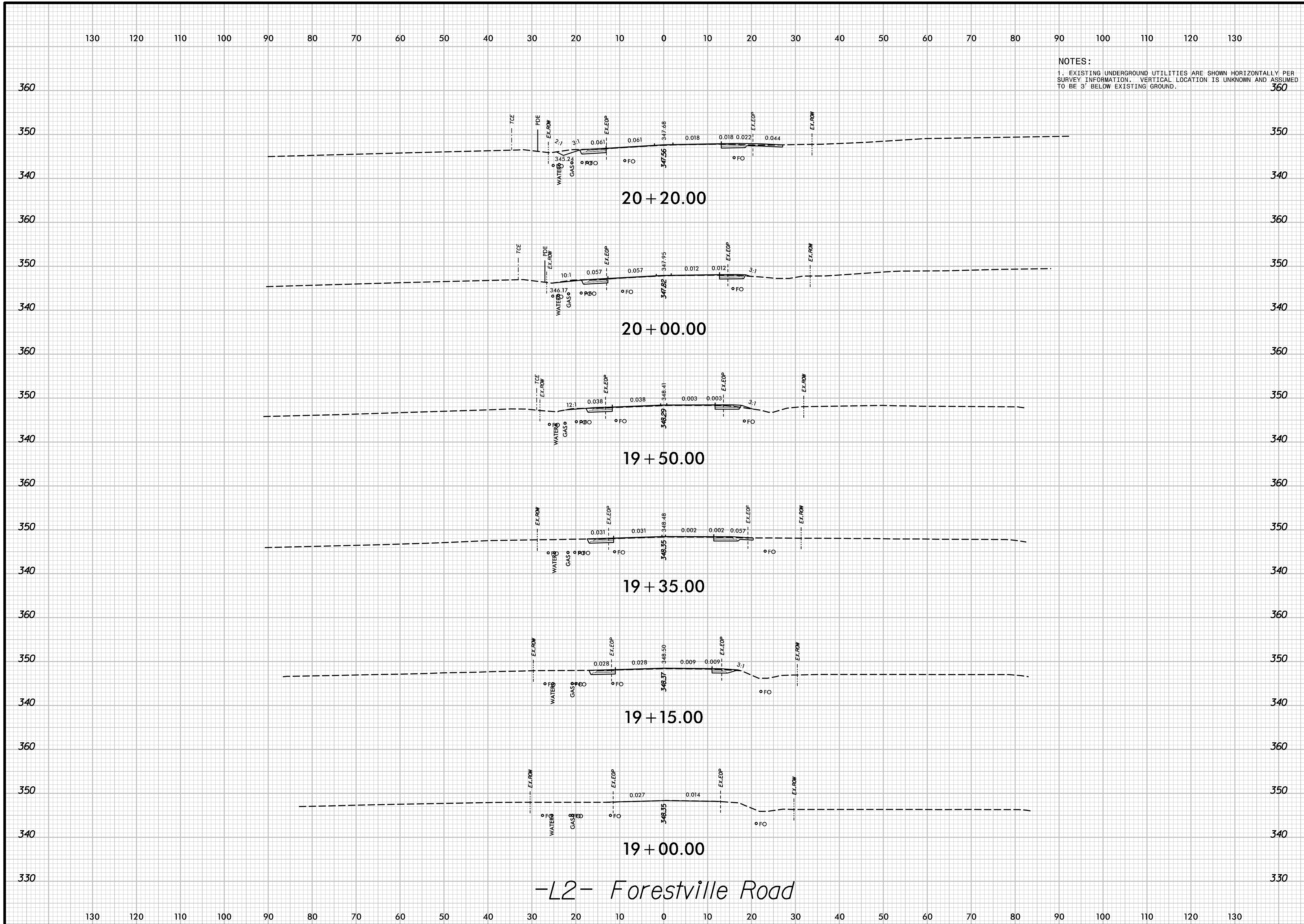


NOTES:
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**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	INIT.	DATE
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DATE: 04/30/24		
SCALE:	REVISIONS	



NOTES:
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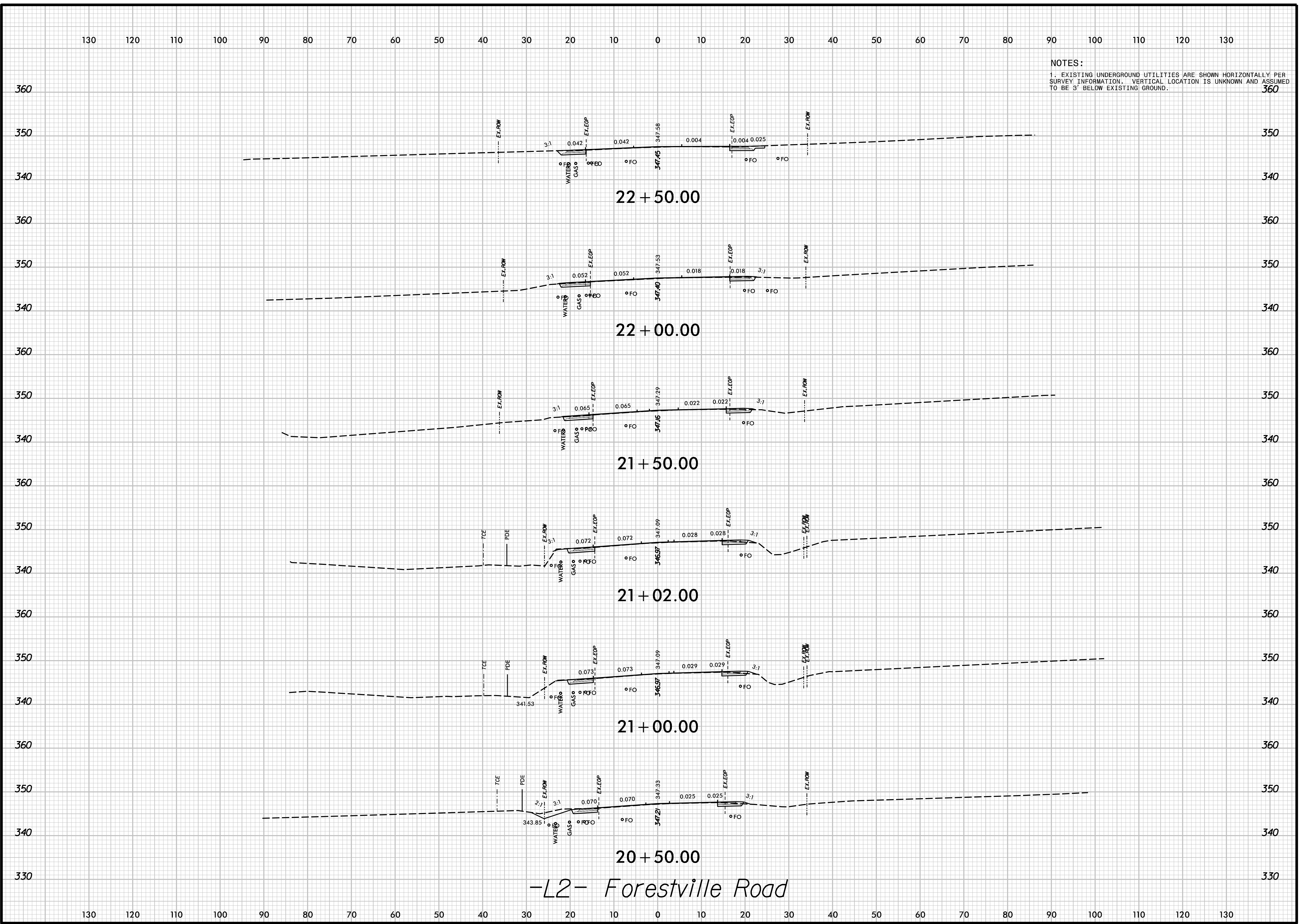
**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

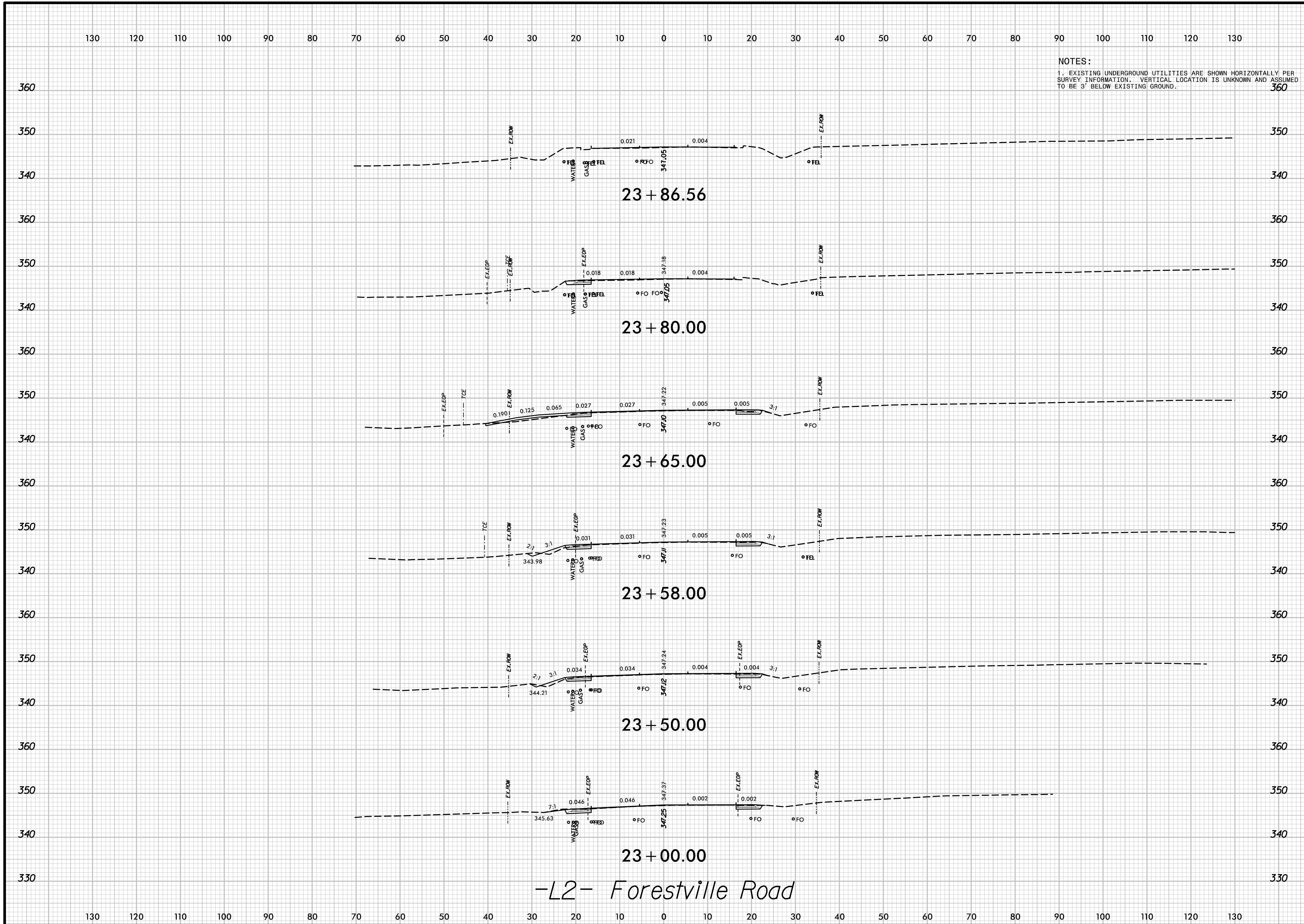
-L2- Forestville Road

NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-L2- Forestville Road

DESIGNED BY: G. BOYLE	DATE	INIT.	DATE
REVIEWED BY: E. LYNCH			
SCALE:	REVISIONS		



NOTES:
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PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

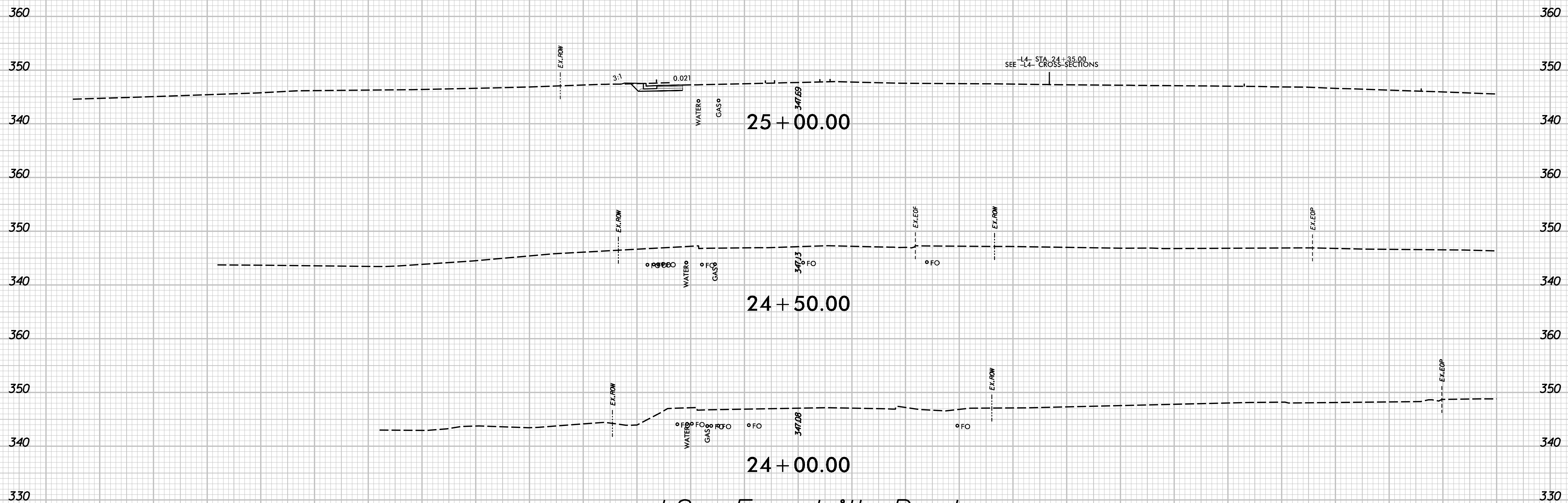
ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
SCALE:	REVISIONS	

-L2- Forestville Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-L2- Forestville Road

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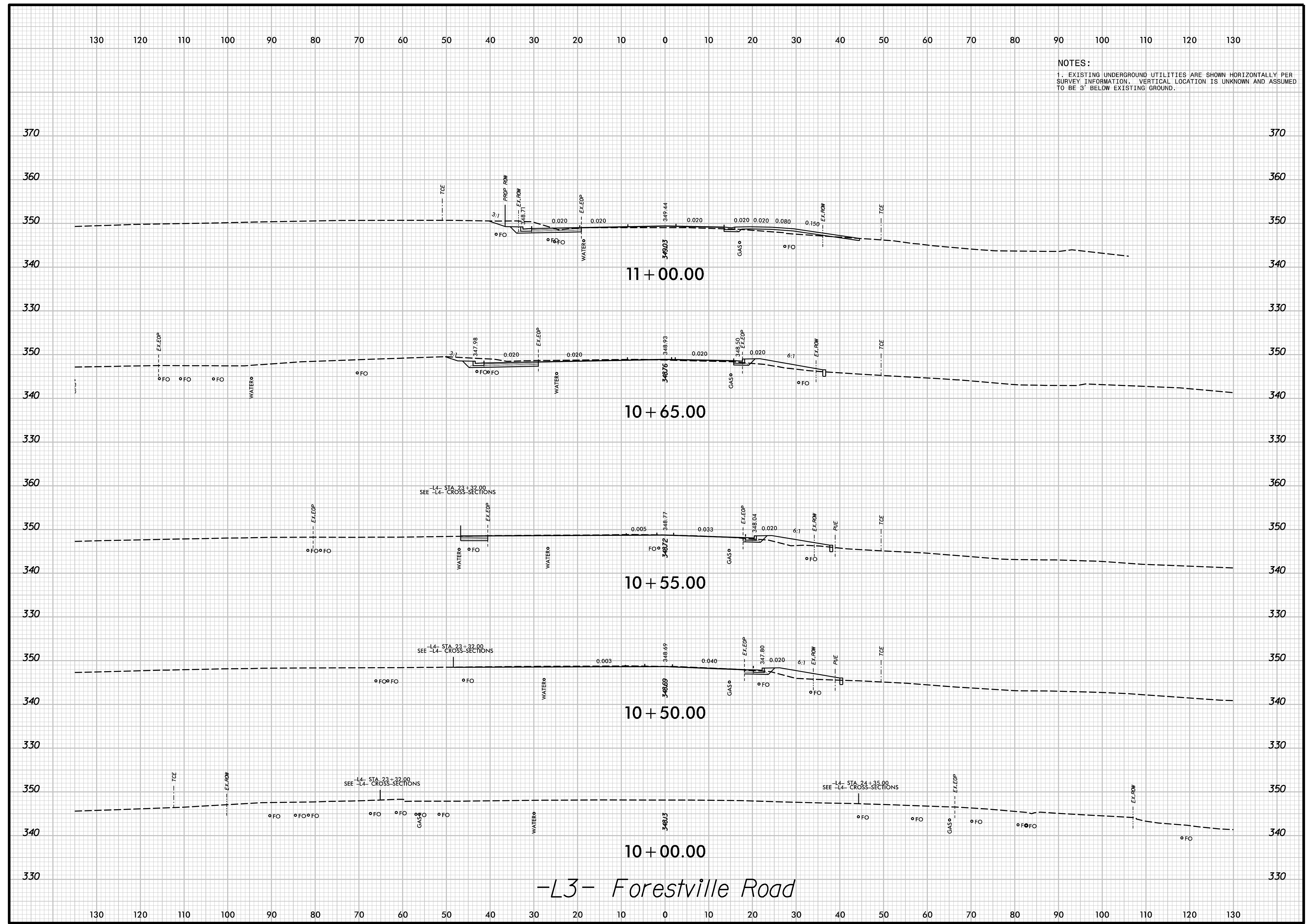
PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

ROADWAY
CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
DATE: 04/30/24	REVISIONS	
SCALE:		

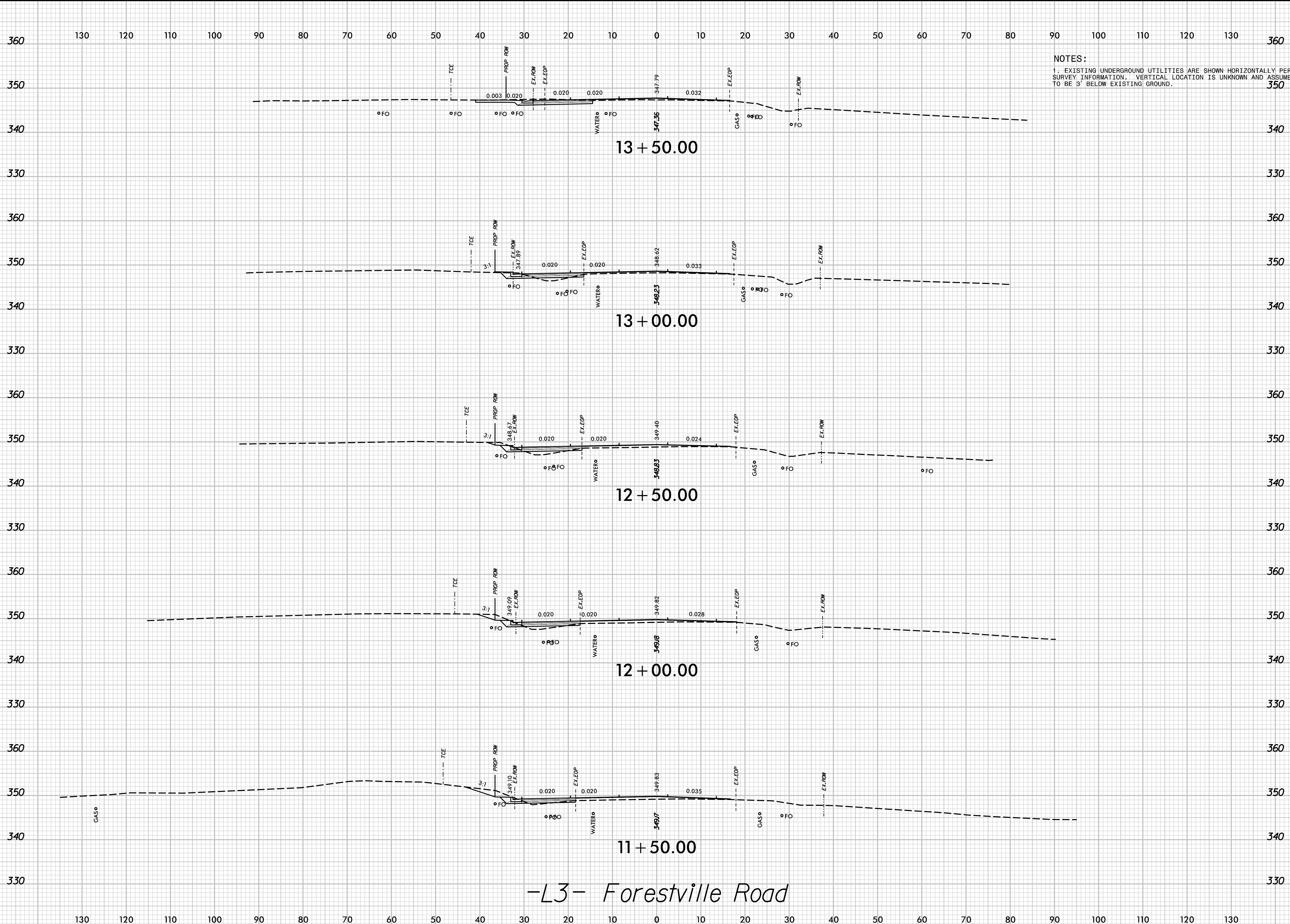
SHEET NO.
X-11

NOTES:
1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-L3- Forestville Road

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24	REVISIONS	



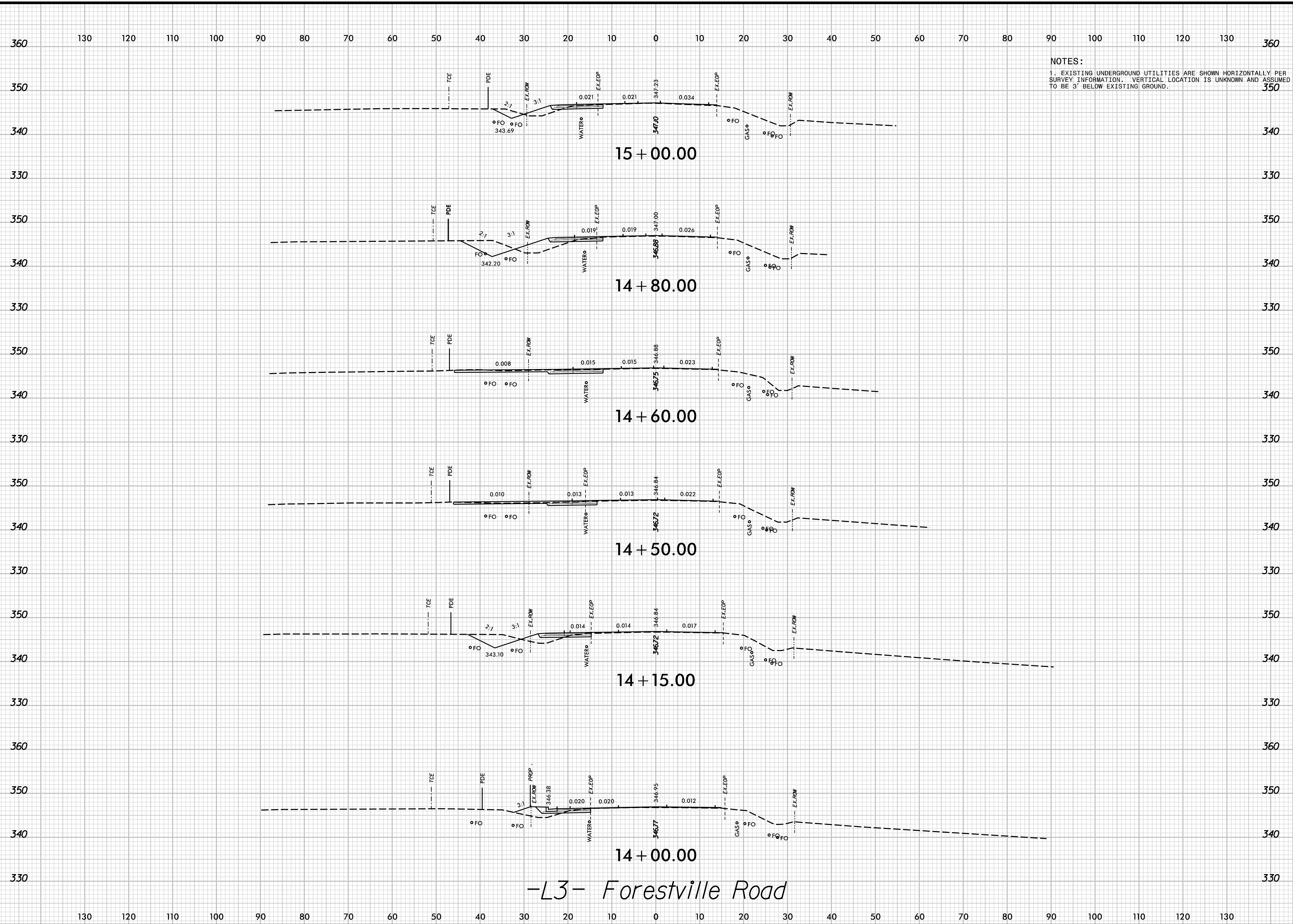
NOTES:
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-L3- Forestville Road

**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	INIT.	DATE
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DATE: 04/30/24	REVISIONS	
SCALE:	REVISIONS	



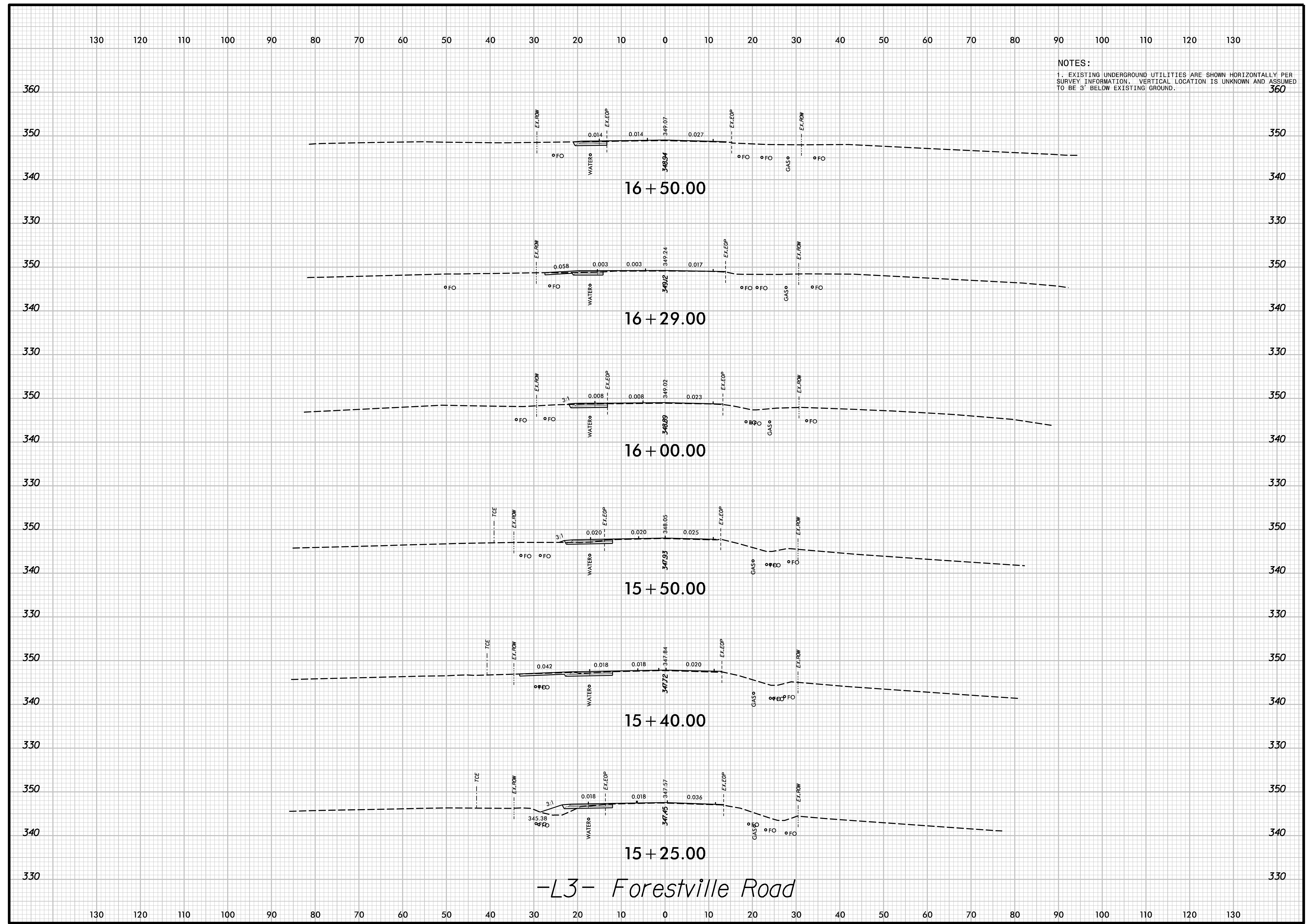
NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

-L3- Forestville Road

**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

JOB NO.: 00103002	DESIGNED BY: G. BOYLE
DATE: 04/30/24	REVIEWED BY: E. LYNCH
SCALE:	REVISIONS
	INIT.
SHEET NO.	DATE



NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

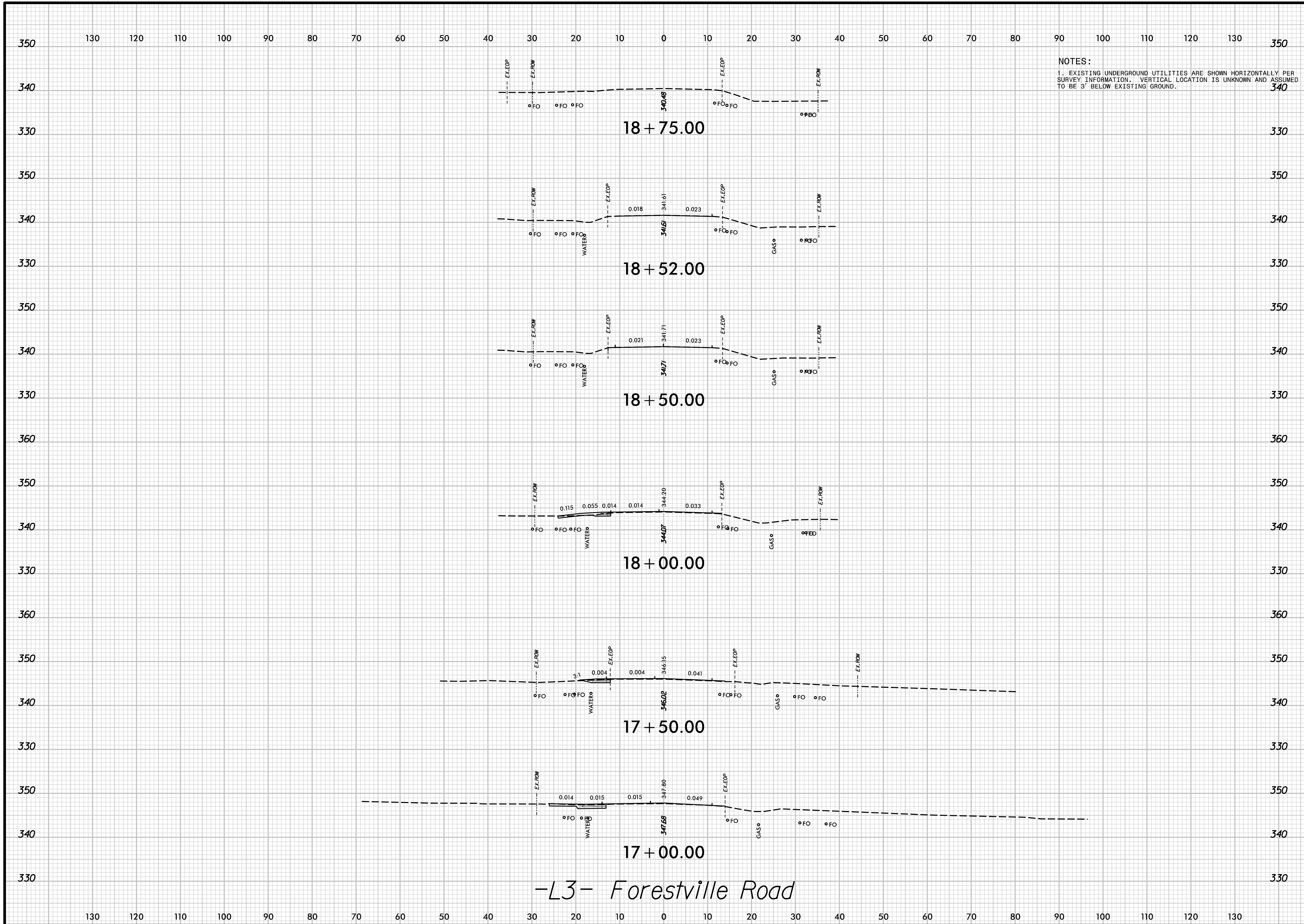


PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
SCALE:	REVISIONS	

SHEET NO.
 X-15



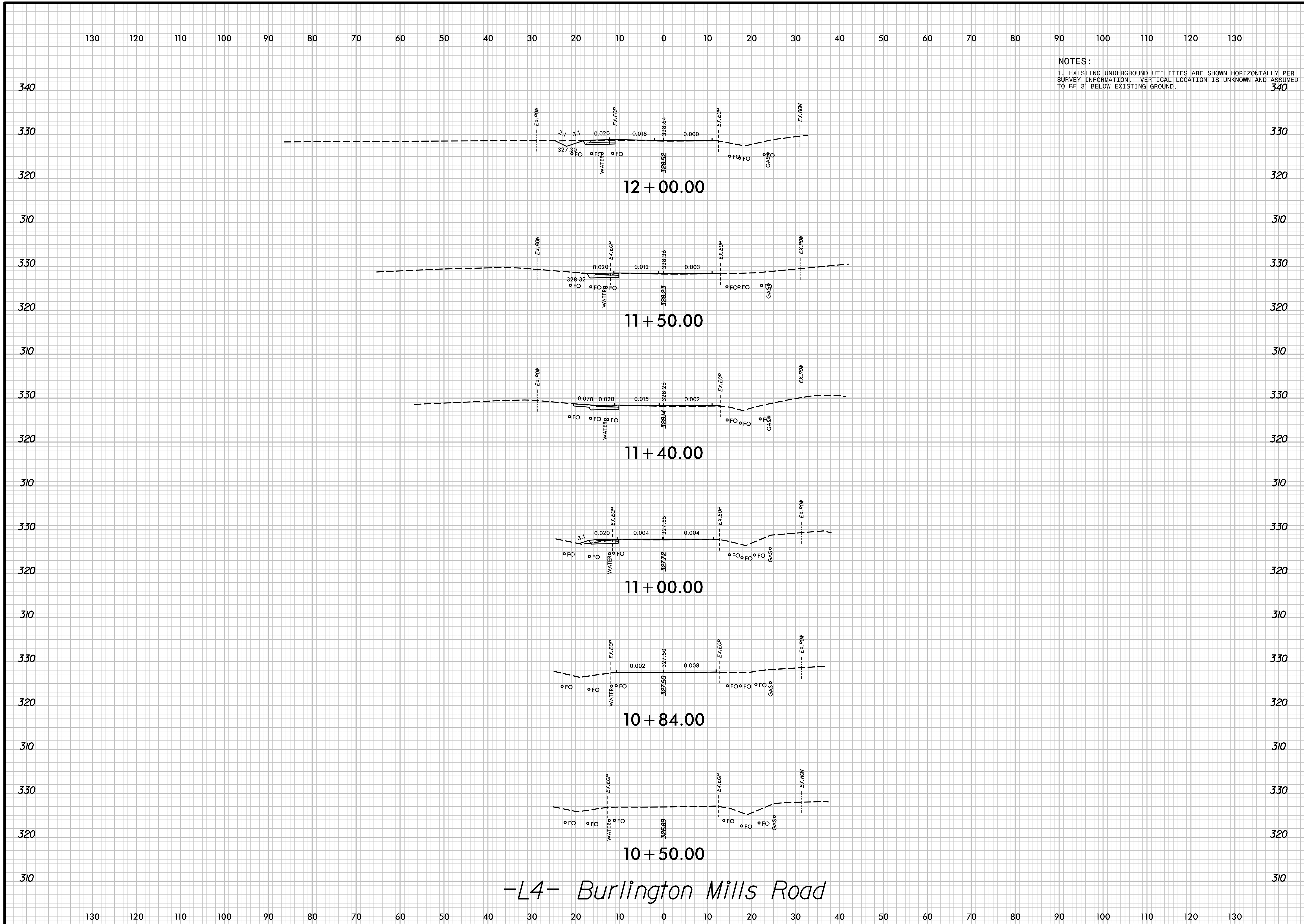
NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	DATE: 04/30/24	REVISIONS	INIT.	DATE
REVIEWED BY: E. LYNCH				

-L3- Forestville Road



NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

-L4- Burlington Mills Road



301 S. Main Street
 Kannapolis, NC 28081
 NC License #C-4446
 www.exultengineering.com

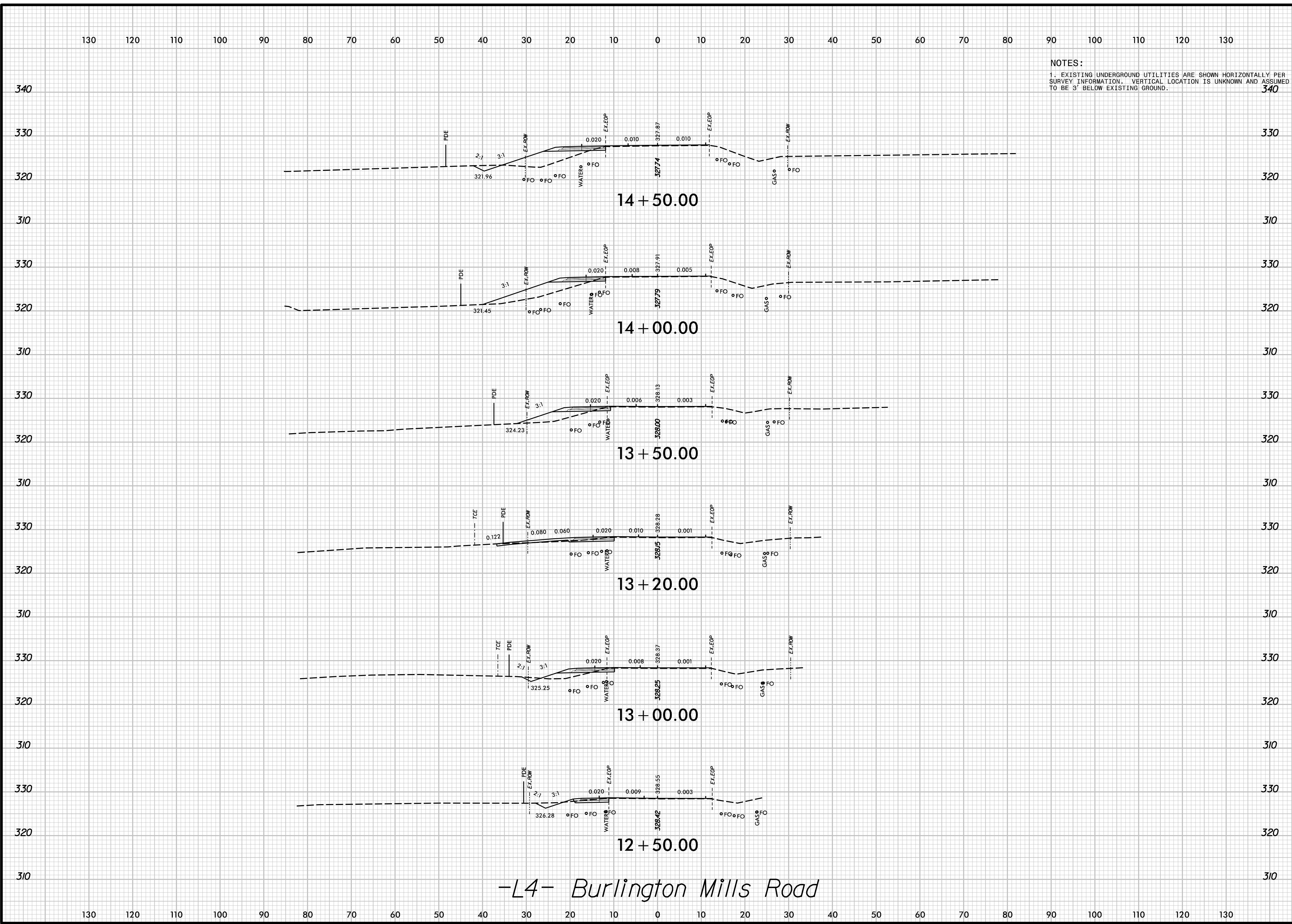
PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
DATE: 04/30/24		
SCALE:		
REVISIONS		

SHEET NO.
 X-17

NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



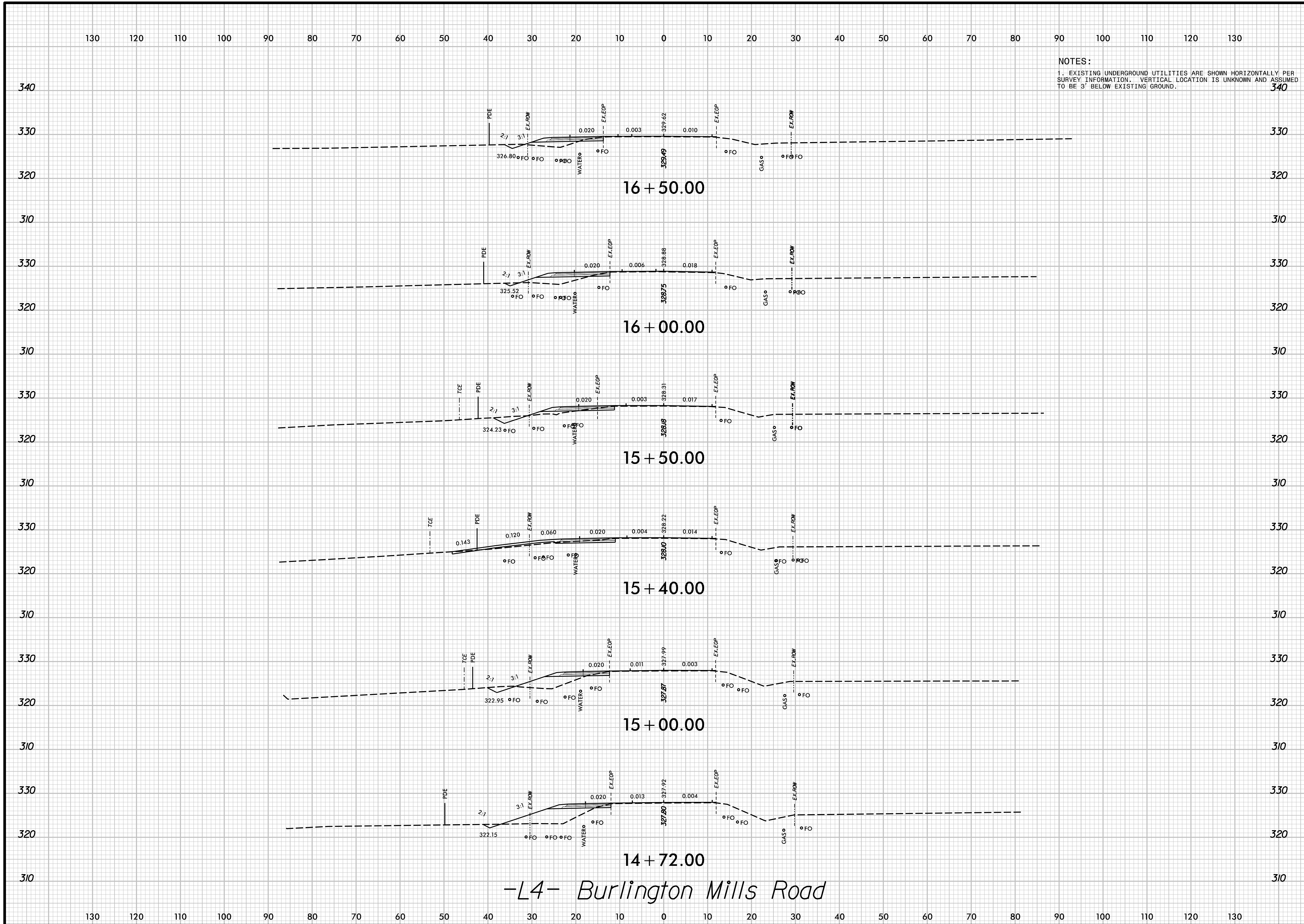
-L4- Burlington Mills Road



PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

ROADWAY
CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	



NOTES:
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PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
SCALE:	REVISIONS	

-L4- Burlington Mills Road

350 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 350

340 340

330 330

320 320

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320 320

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330 330

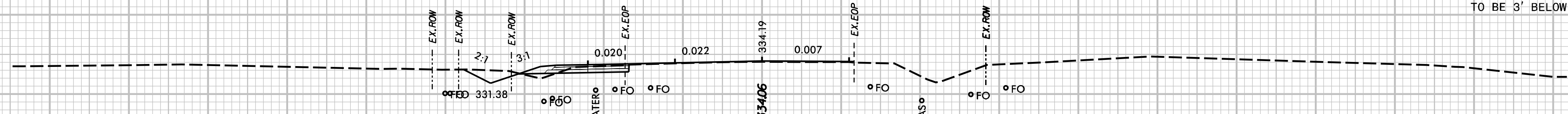
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340 340

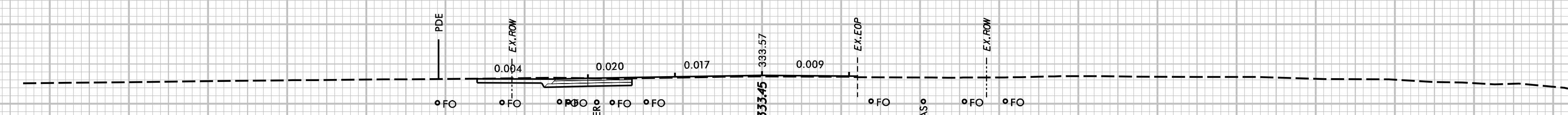
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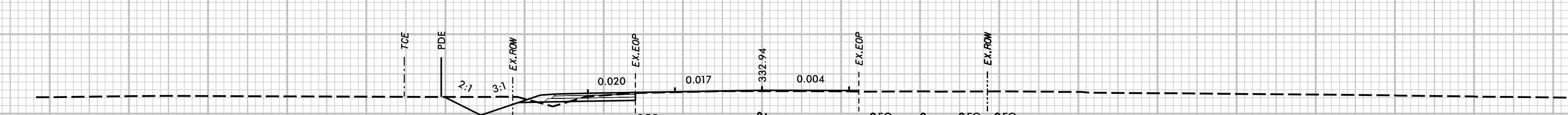
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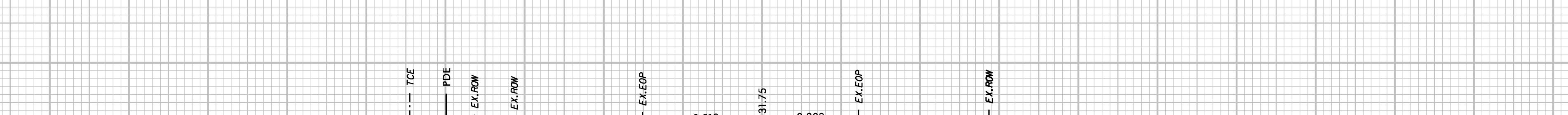
18 + 50.00



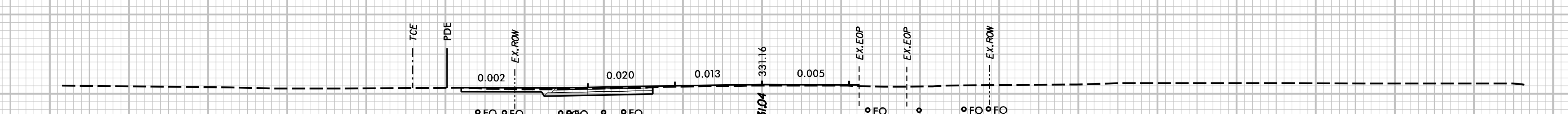
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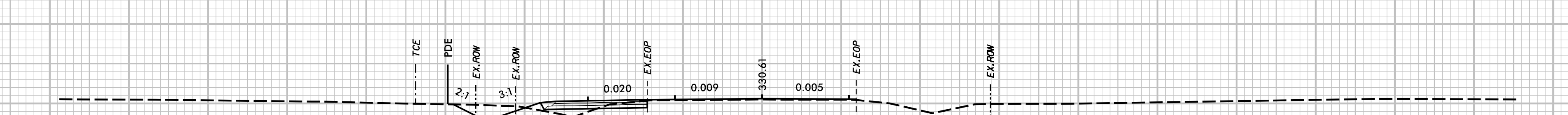
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17 + 50.00



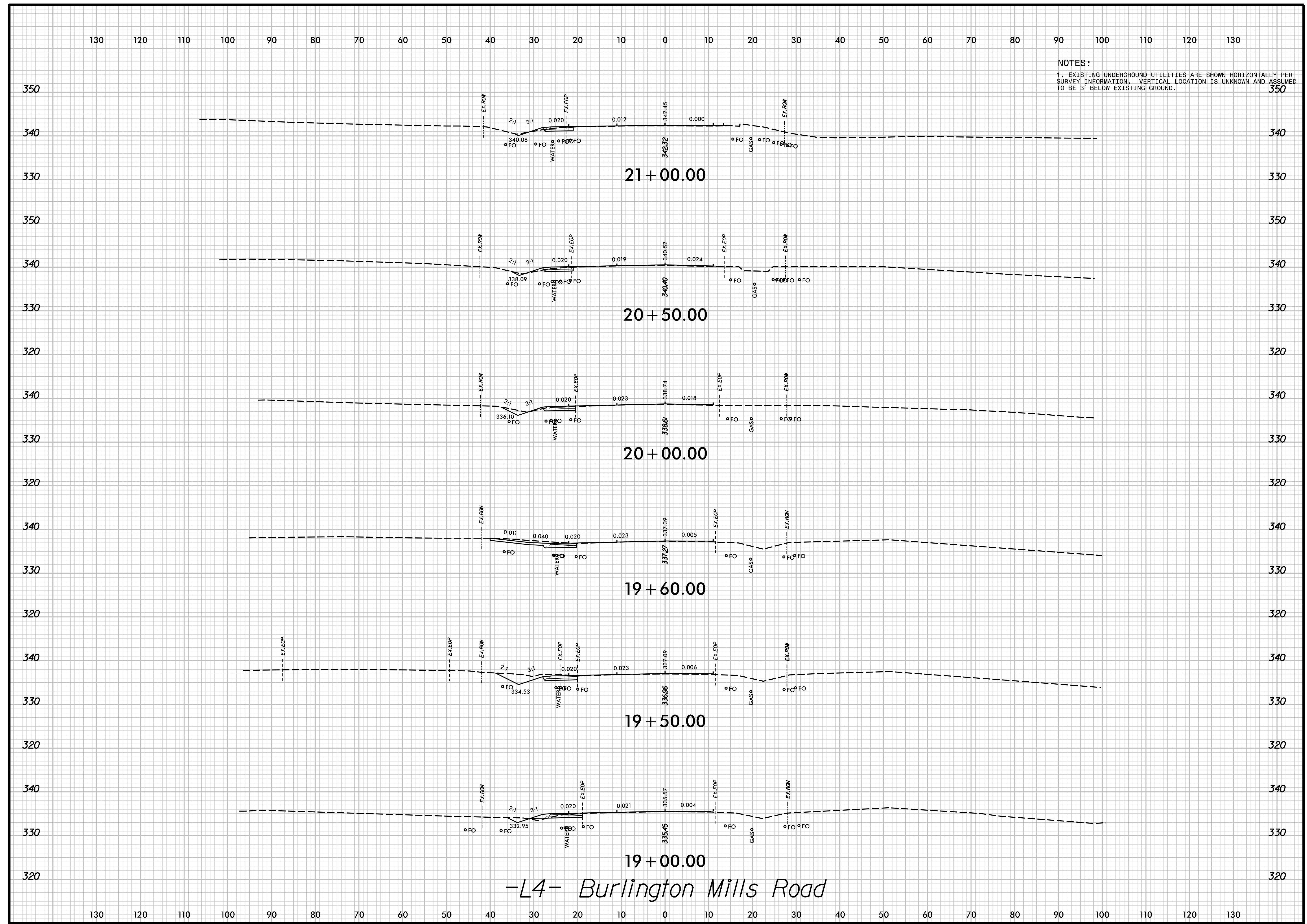
17 + 25.00



17 + 00.00

-L4- Burlington Mills Road

JOB NO.: 00103002	DESIGNED BY: G. BOYLE	DATE: 04/30/24	REVIEWED BY: E. LYNCH
REVISIONS		INIT.	DATE



NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

-L4- Burlington Mills Road

**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

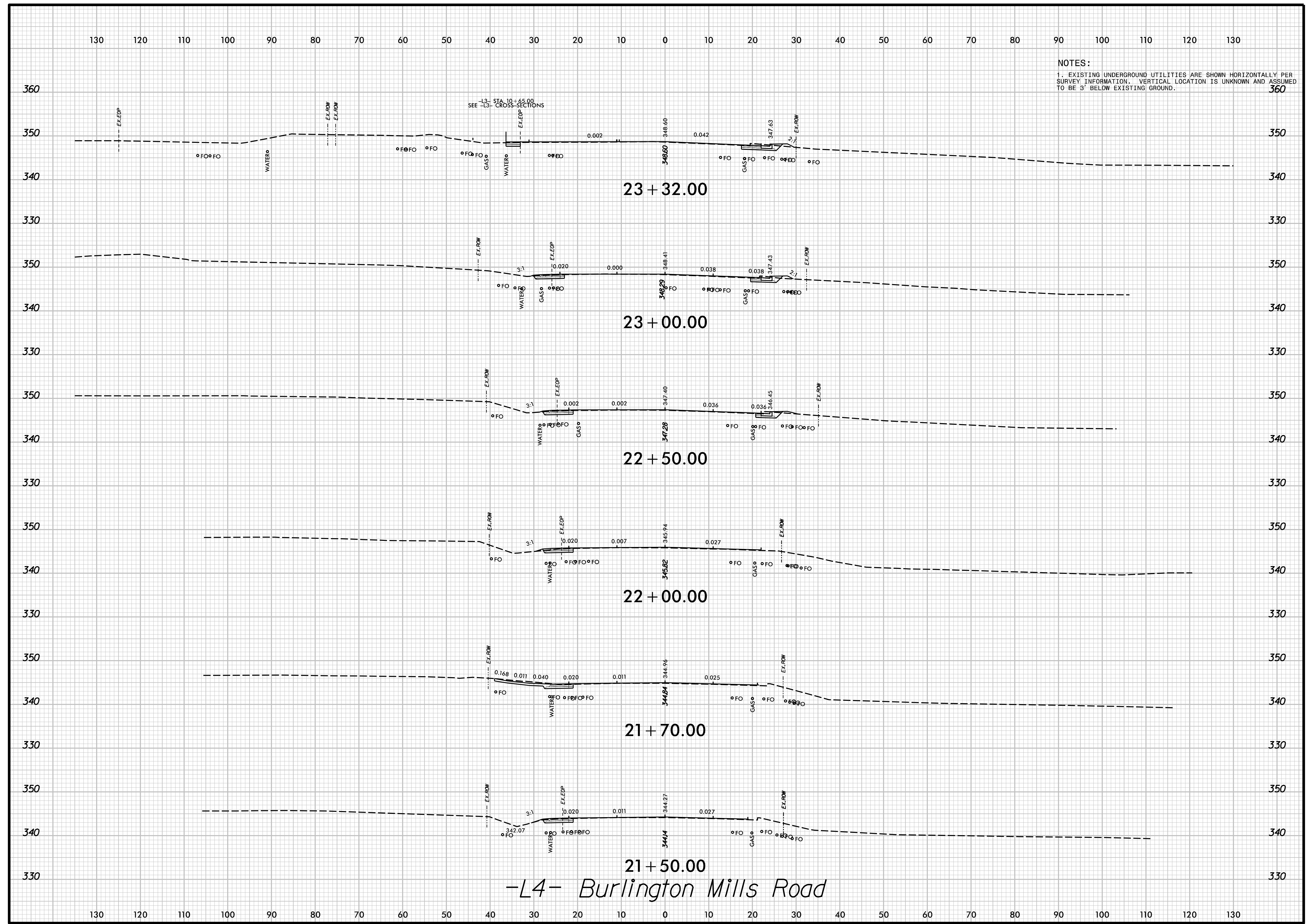
**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

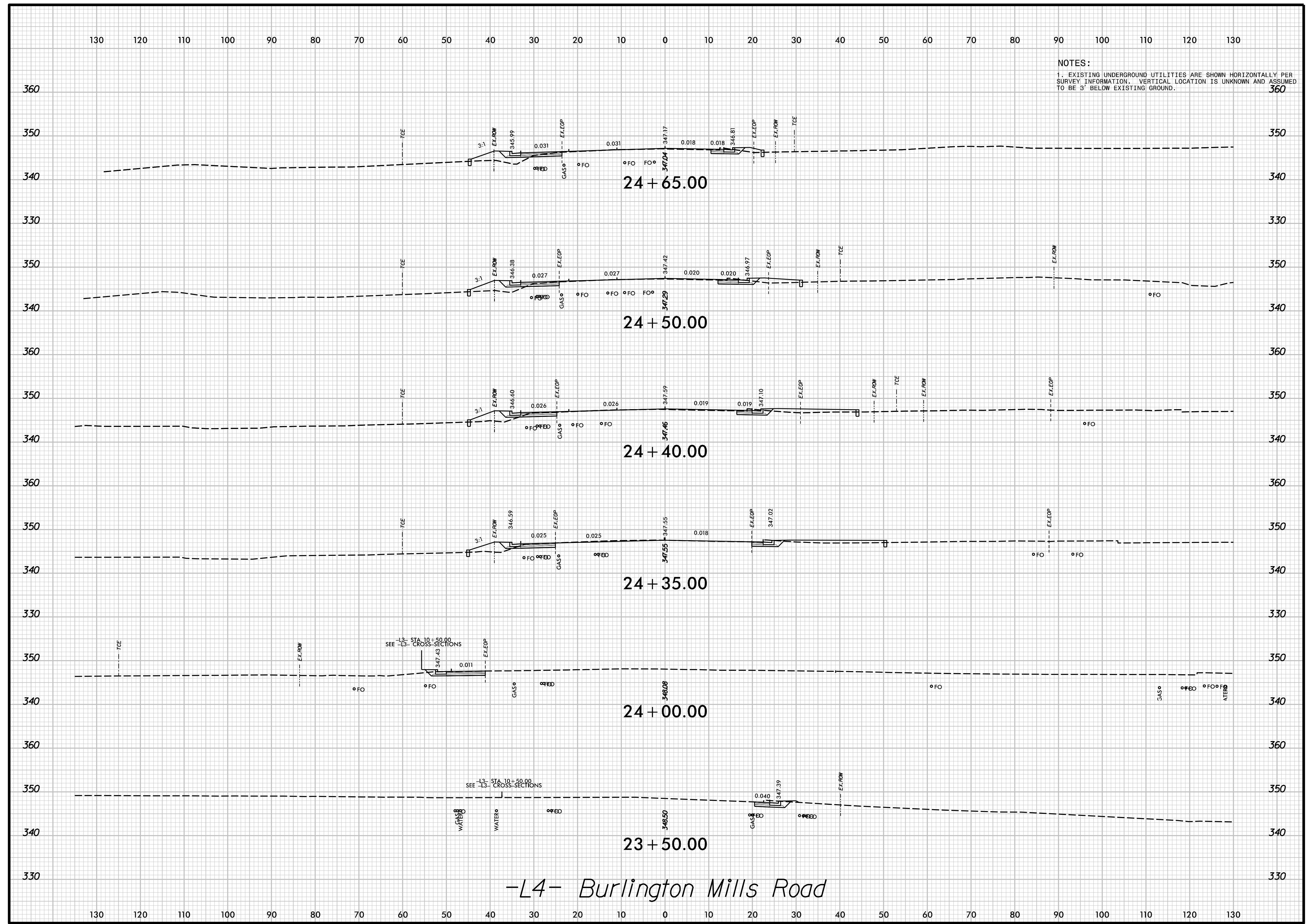
**ROADWAY
 CROSS SECTIONS**

NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-L4- Burlington Mills Road

JOB NO.: 00103002 DATE: 04/30/24 SCALE:	DESIGNED BY: G. BOYLE REVIEWED BY: E. LYNCH	DATE INIT. REVISIONS
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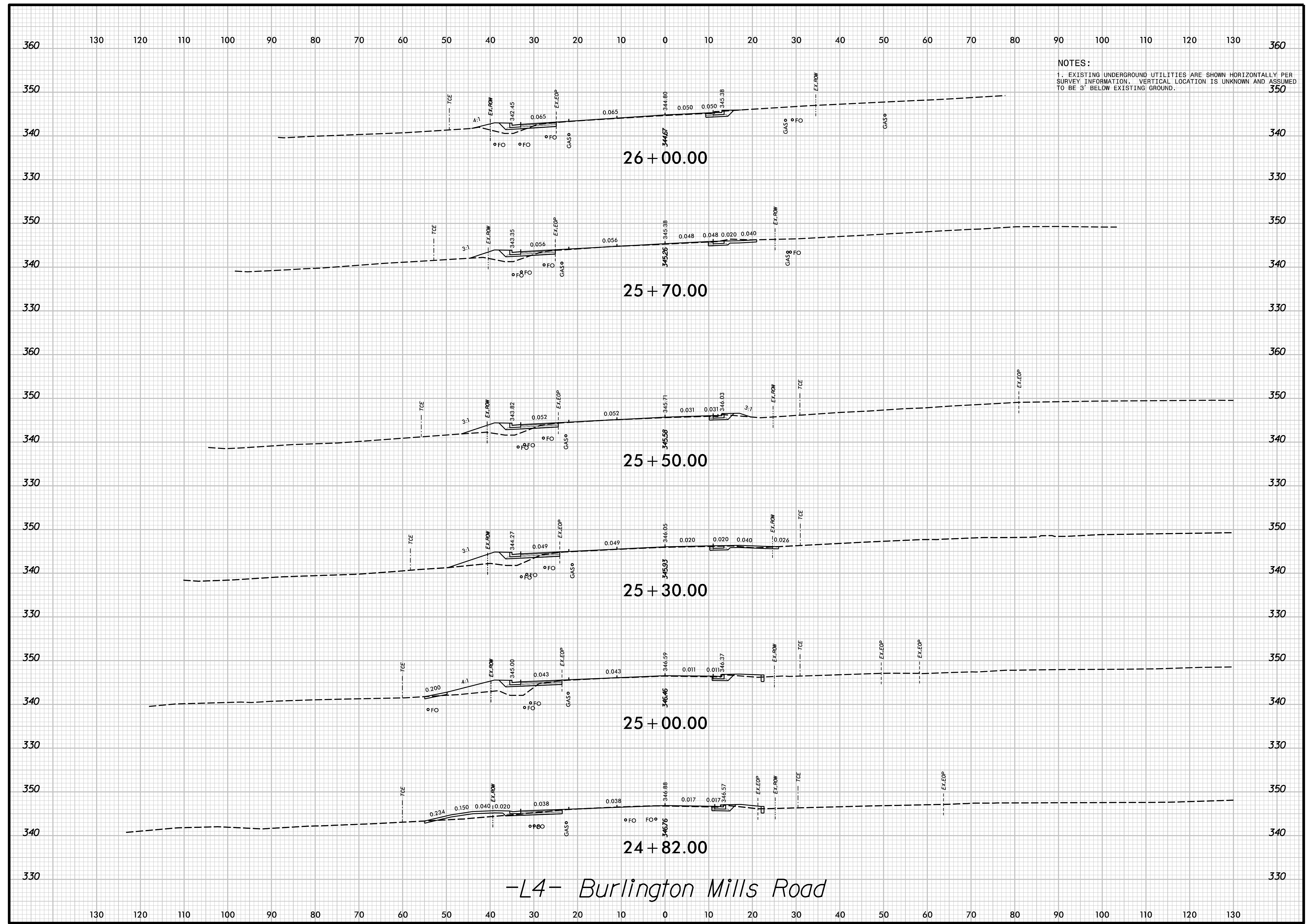
NOTES:
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**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

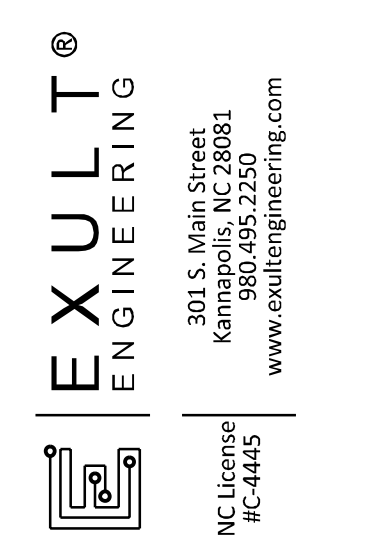
DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

-L4- Burlington Mills Road



NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

-L4- Burlington Mills Road



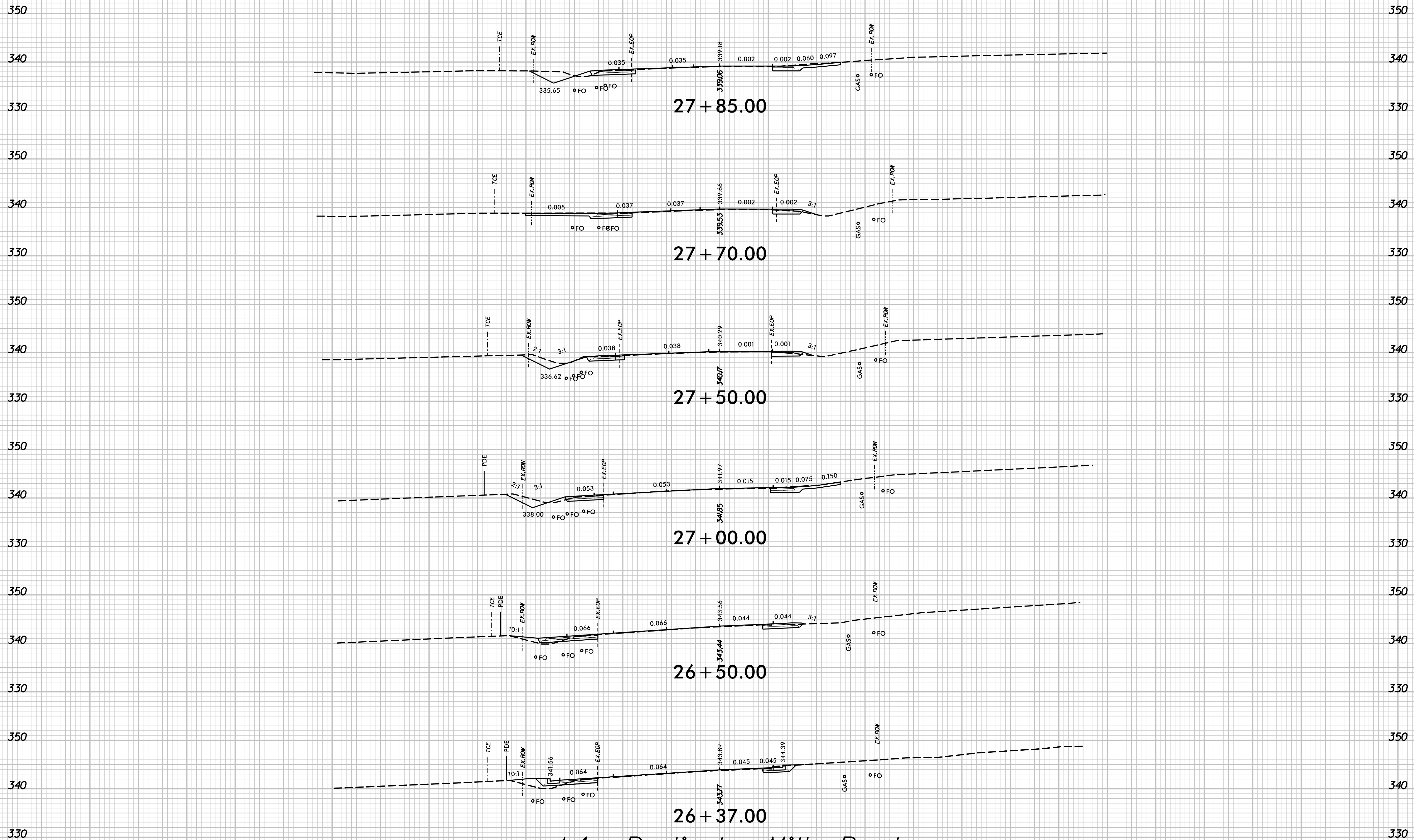
PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
SCALE:	REVISIONS	

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-L4- Burlington Mills Road

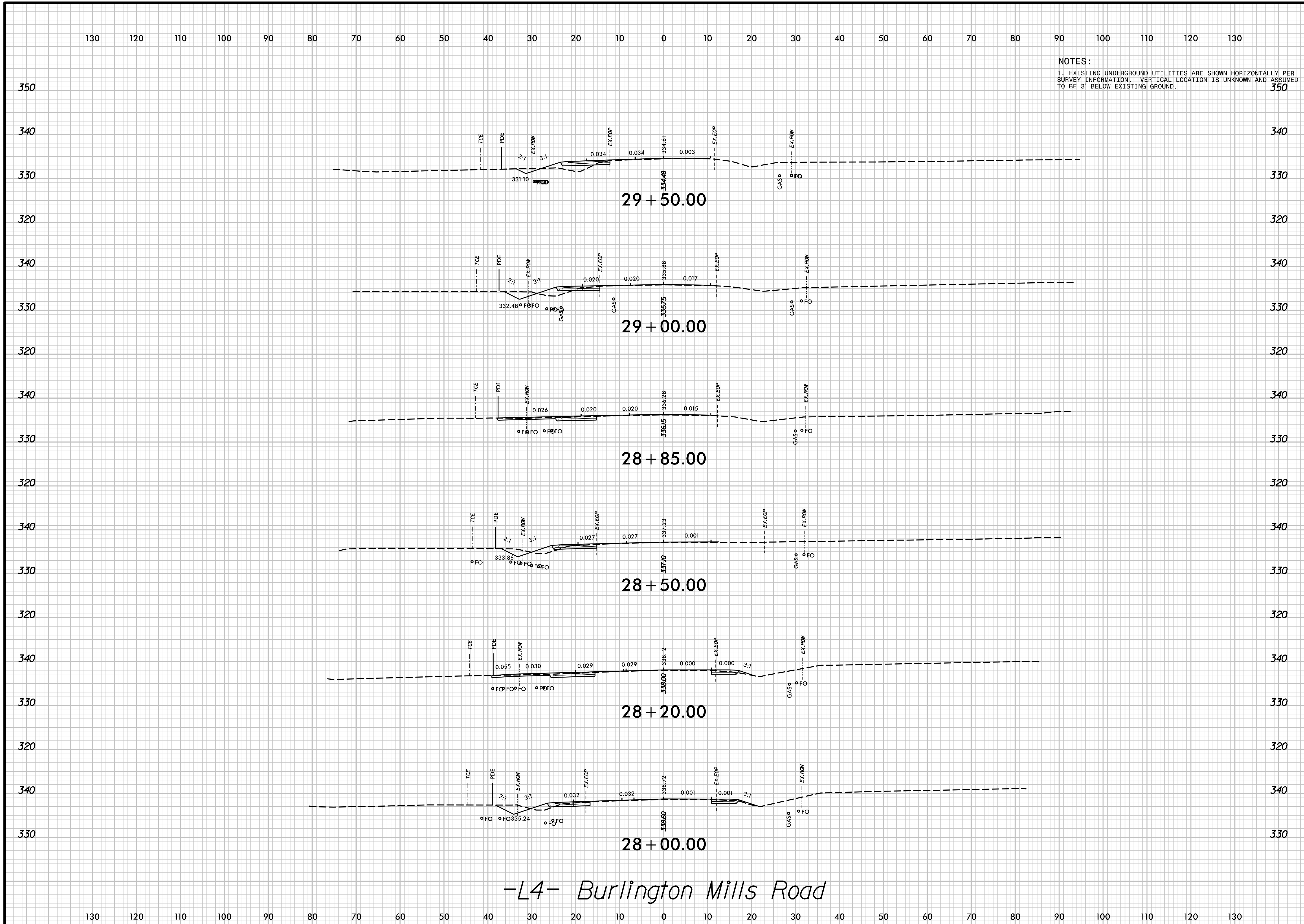
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PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
DATE: 04/30/24		
SCALE:	REVISIONS	



NOTES:
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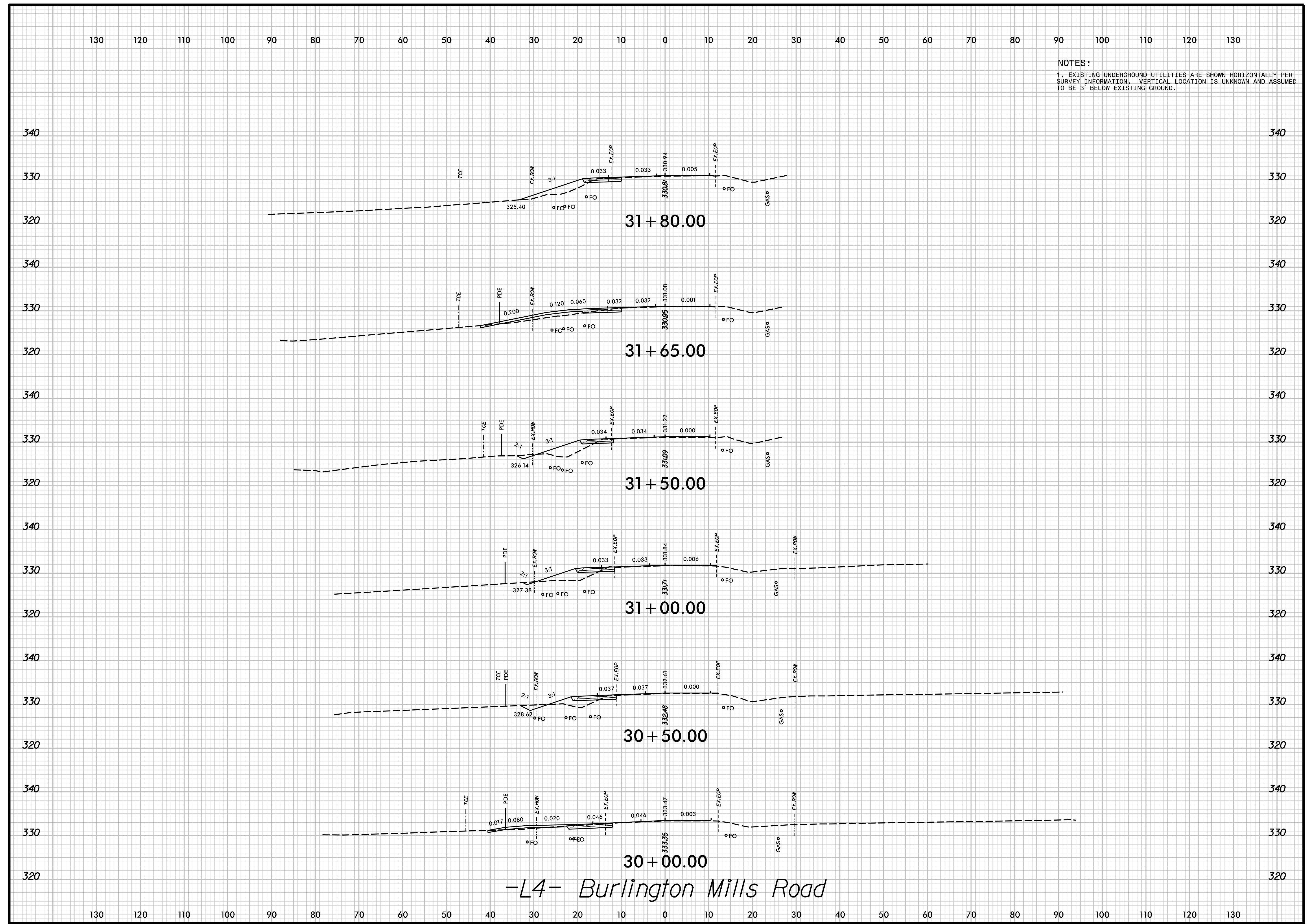


PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
SCALE:	REVISIONS	

-L4- Burlington Mills Road



NOTES:
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-L4- Burlington Mills Road



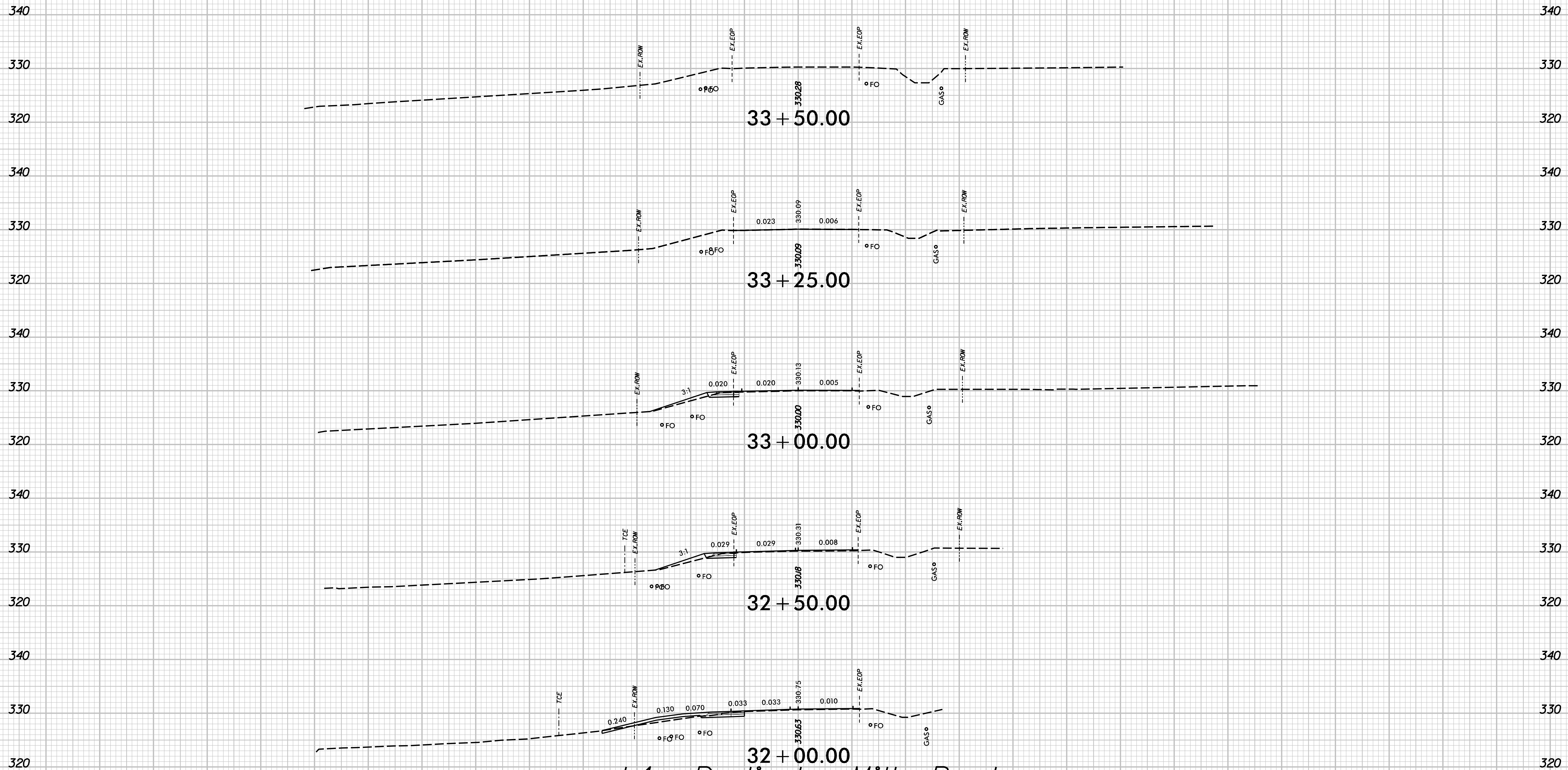
PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

ROADWAY
CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
DATE: 04/30/24	REVISIONS	
SCALE:	REVISIONS	

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
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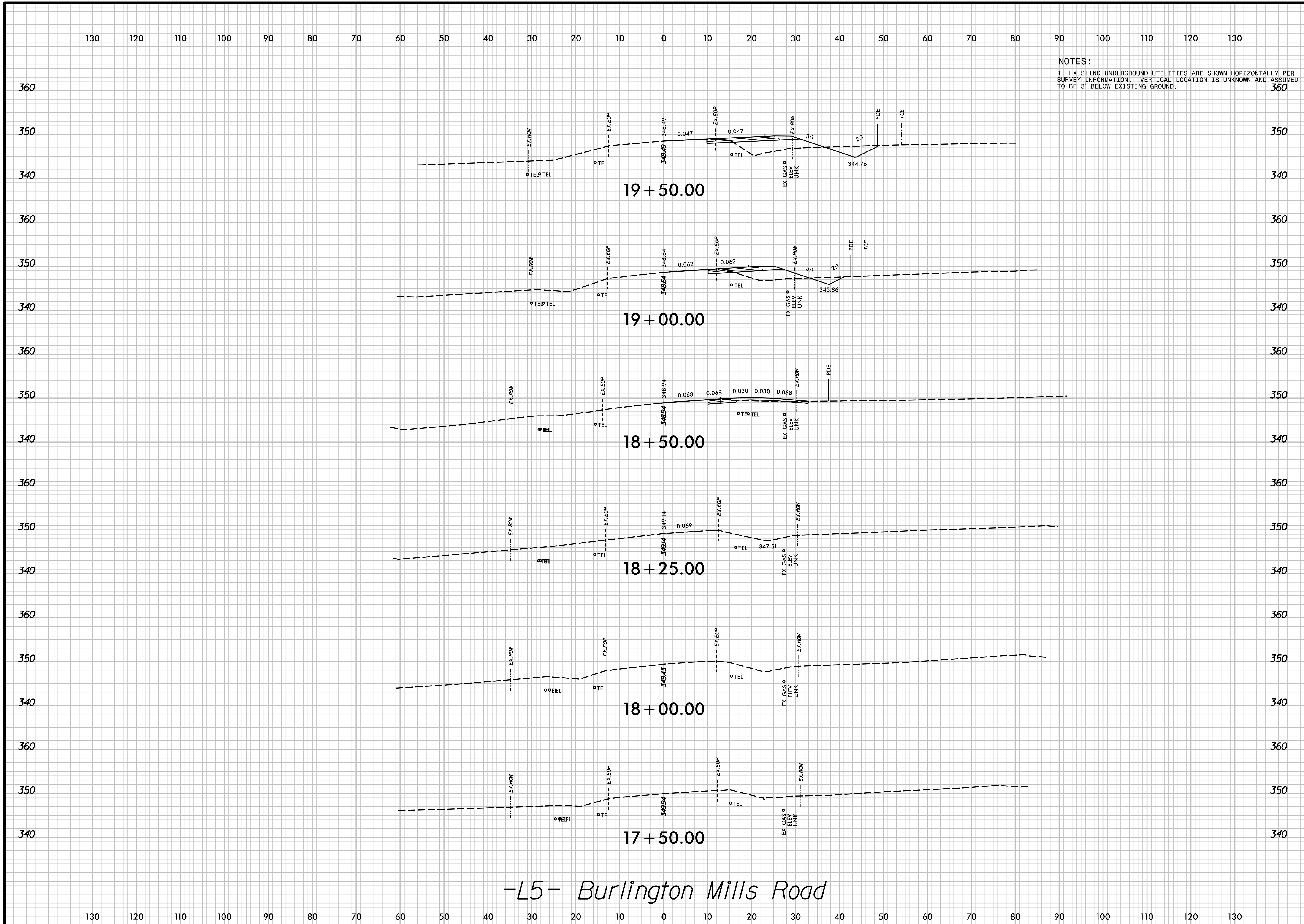
-L4- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	DATE: 04/30/24	INIT.	DATE
REVIEWED BY: E. LYNCH			
SCALE:		REVISIONS	



-L5- Burlington Mills Road

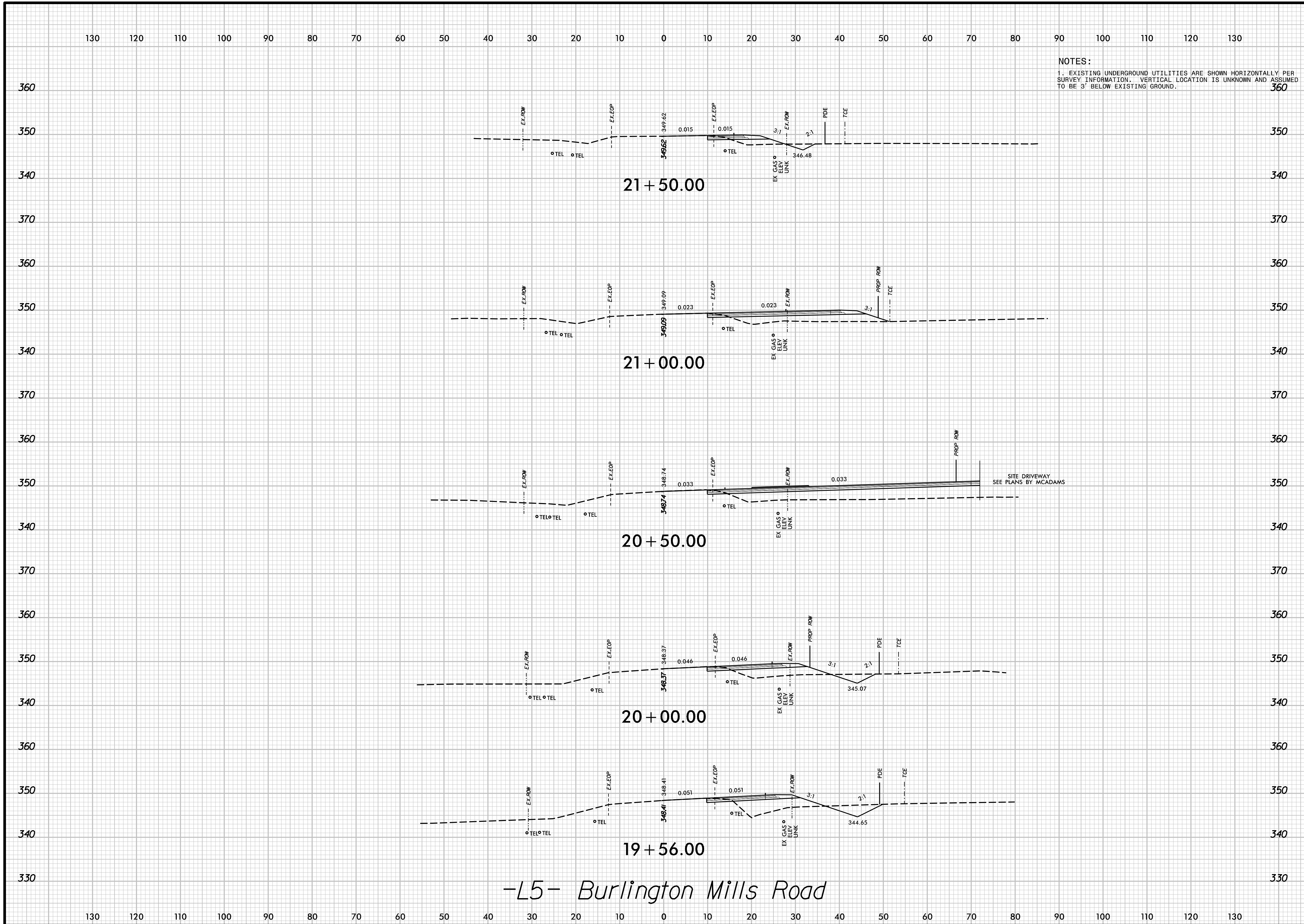
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PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	



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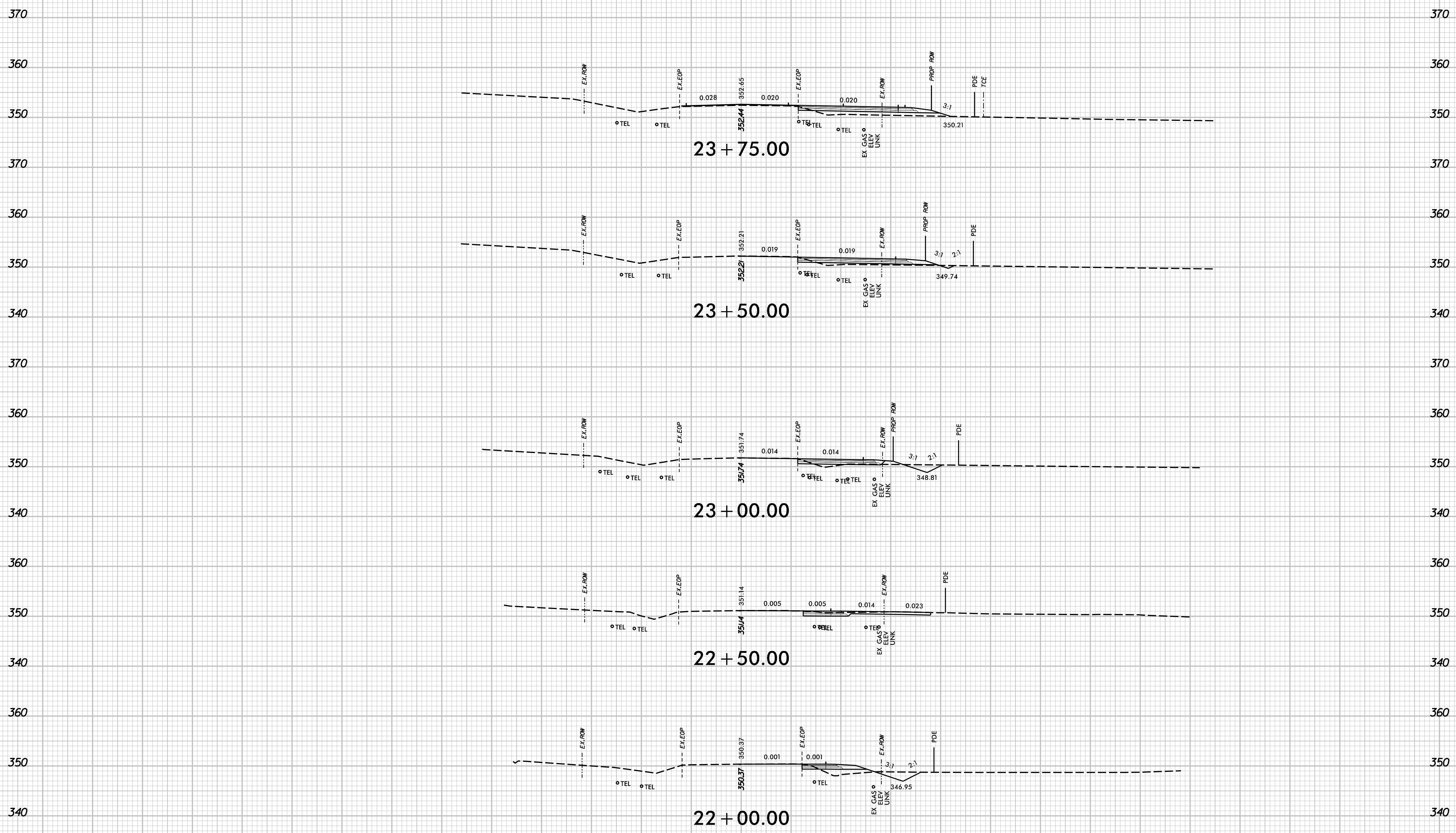
PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
SCALE:	REVISIONS	

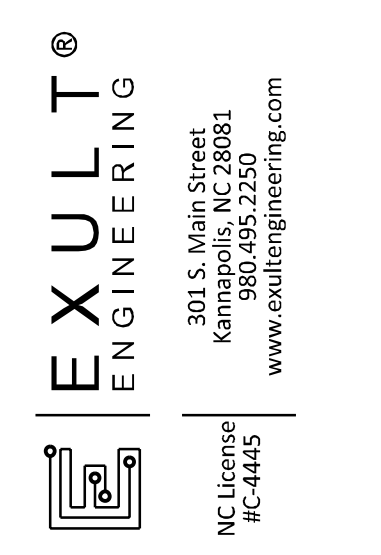
130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

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-L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

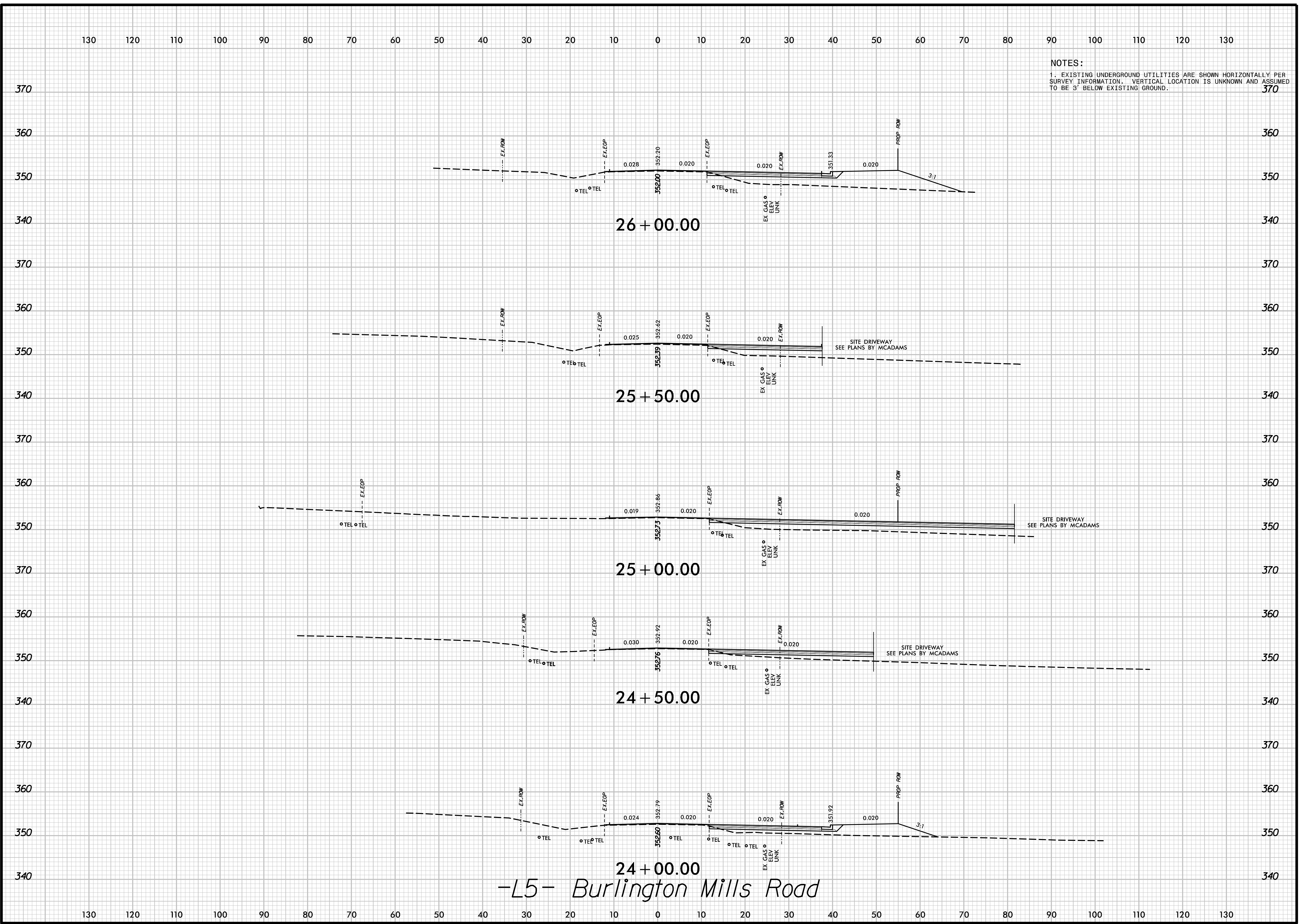


PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

NOTES:
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-L5- Burlington Mills Road



PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

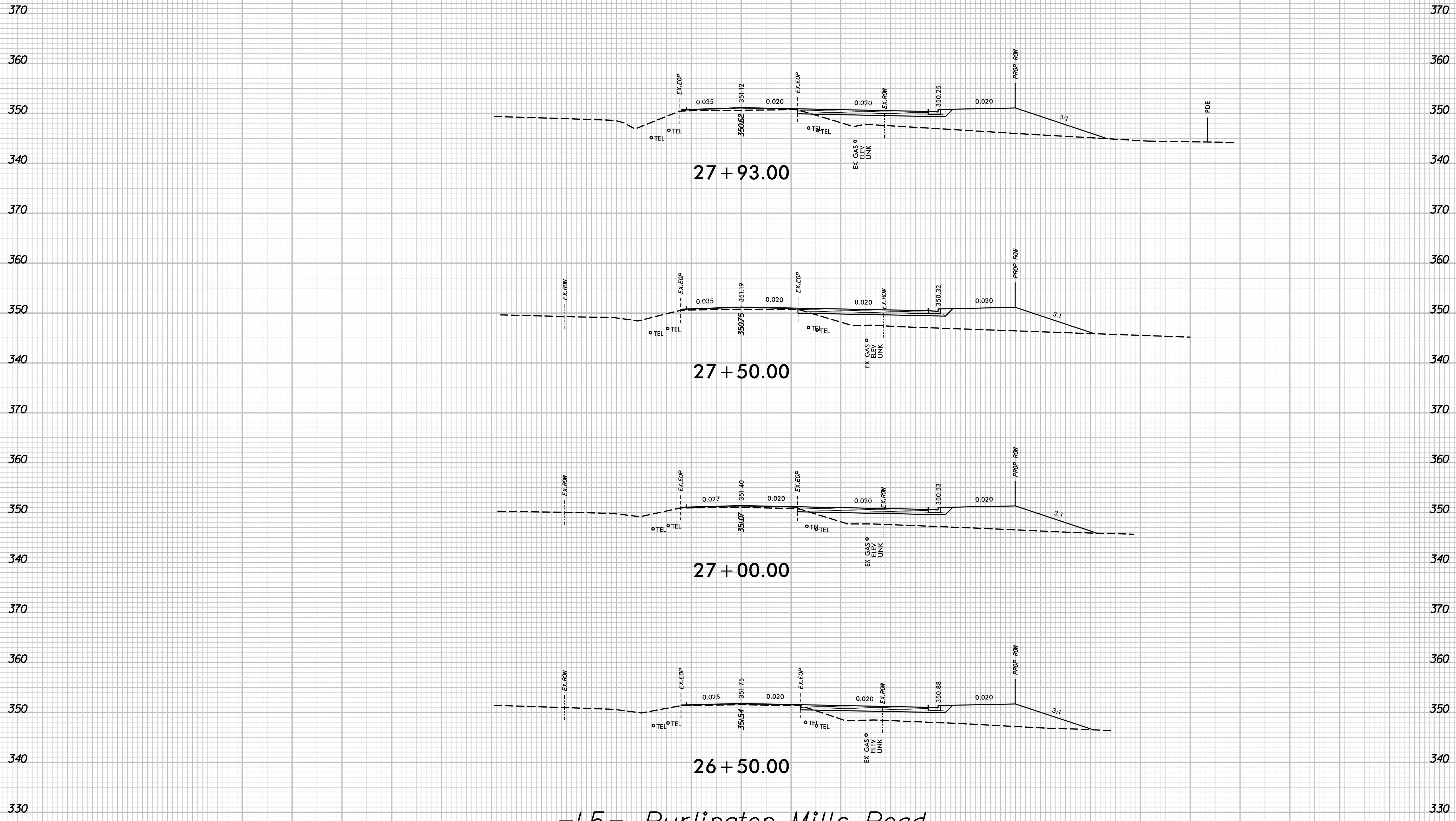
ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

SHEET NO.
 X-32

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

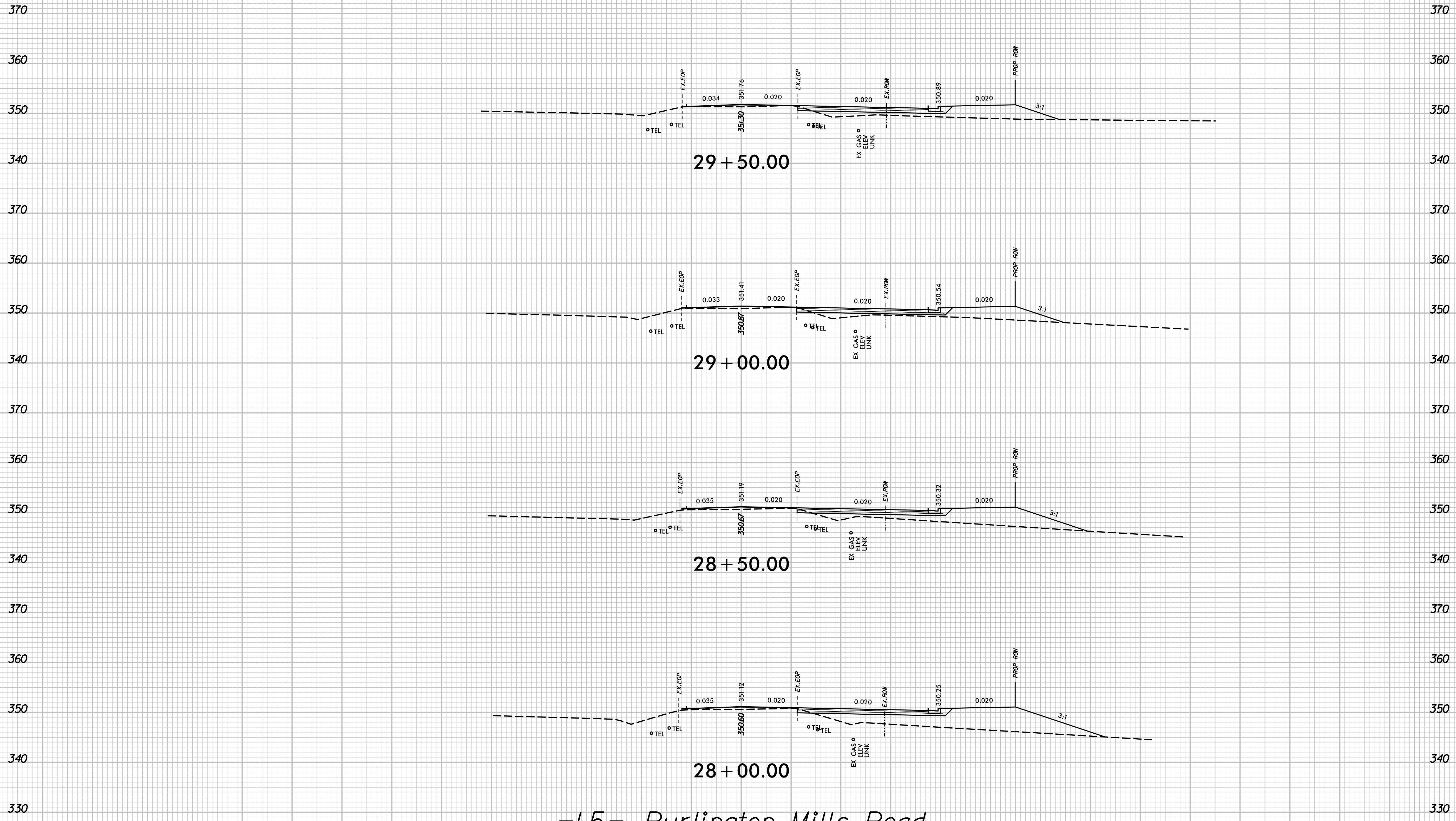
ROADWAY
CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
DATE: 04/30/24	REVISIONS	
SCALE:	REVISIONS	

SHEET NO.
X-33

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
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-L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

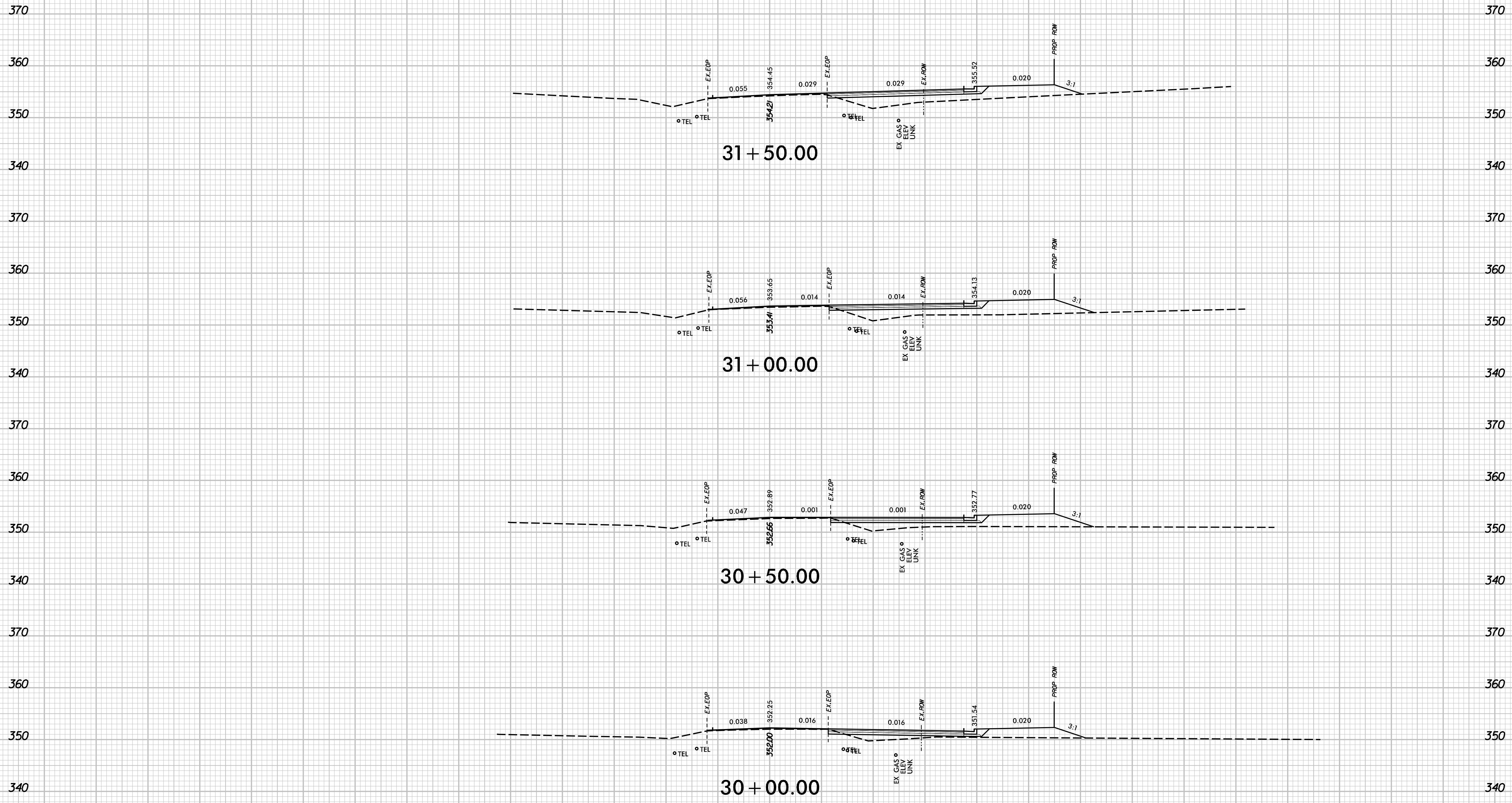
ROADWAY
CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
SCALE:	REVISIONS	

SHEET NO.
X-34

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
SCALE:	REVISIONS	

SHEET NO.
 X-35

370 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 370

360 360

350 350

340 340

370 370

360 360

350 350

340 340

370 370

360 360

350 350

340 340

370 370

360 360

350 350

340 340

370 370

360 360

350 350

340 340

370 370

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
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33 + 50.00

33 + 15.00

33 + 00.00

32 + 50.00

32 + 00.00

-L5- Burlington Mills Road

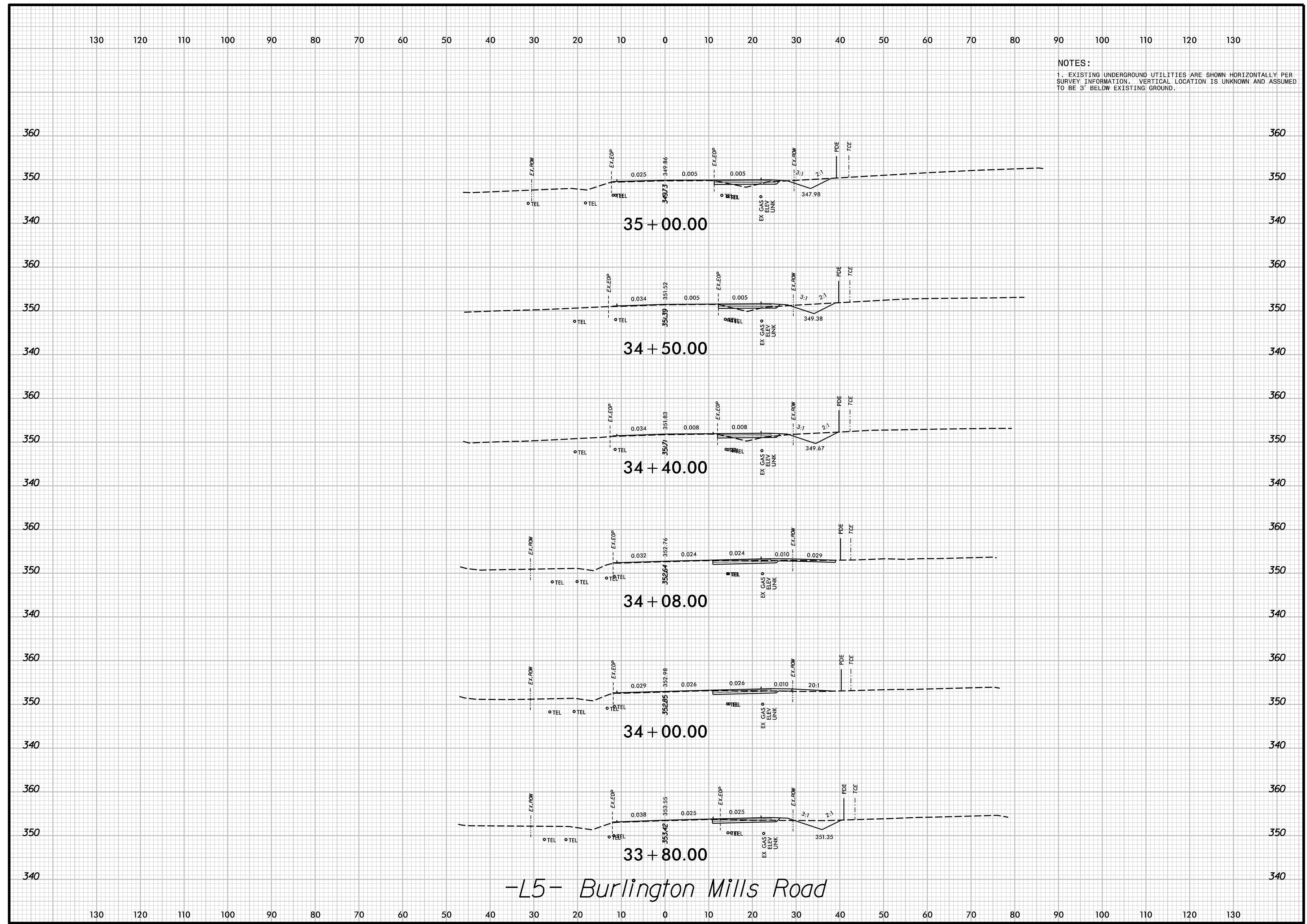


PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

SHEET NO.
X-36



NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

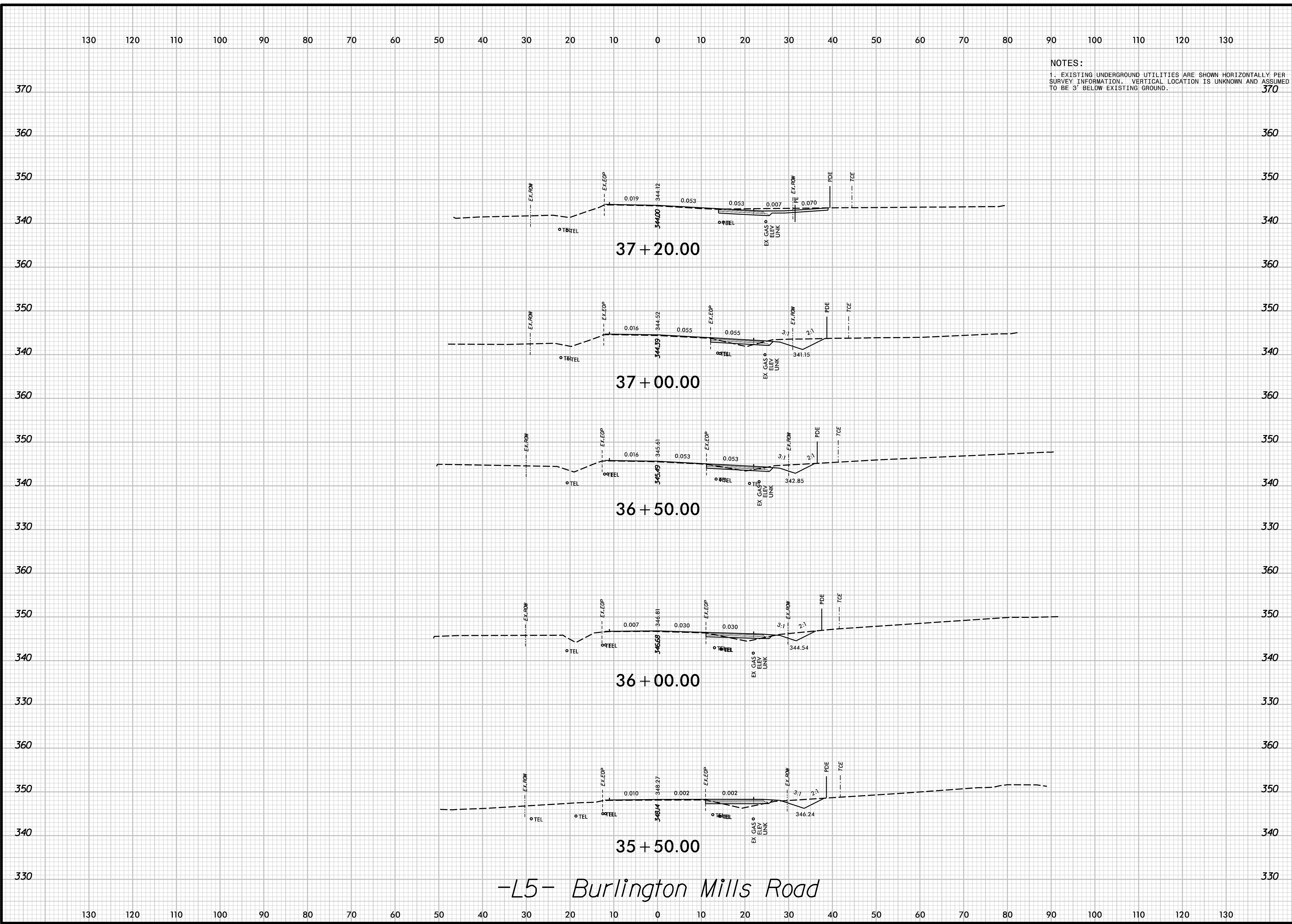
-L5- Burlington Mills Road

**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

**ROADWAY
 CROSS SECTIONS**

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
DATE: 04/30/24	REVISIONS	
SCALE:	SHEET NO.	

NOTES:
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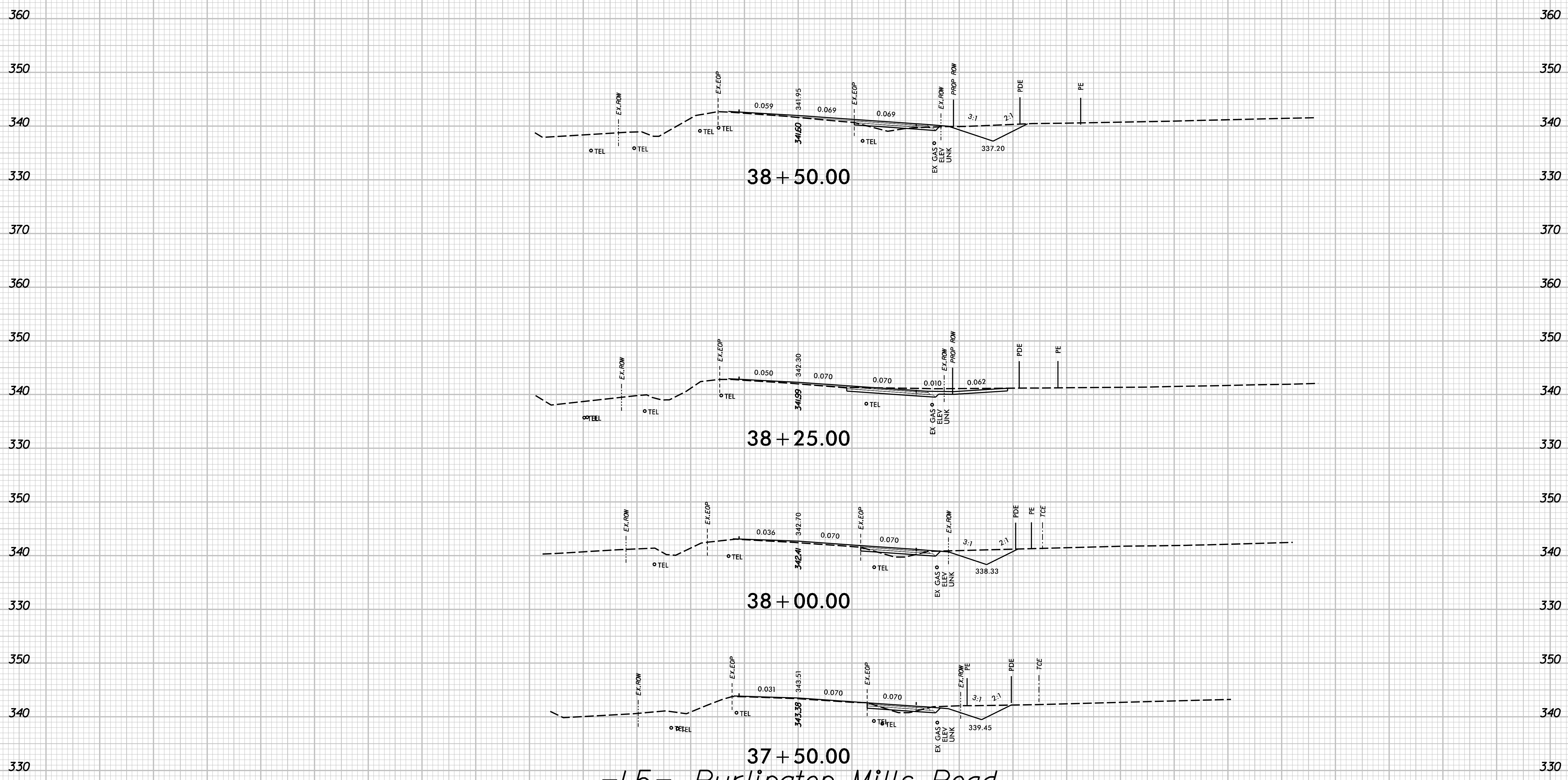


-L5- Burlington Mills Road

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
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37+50.00
 -L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

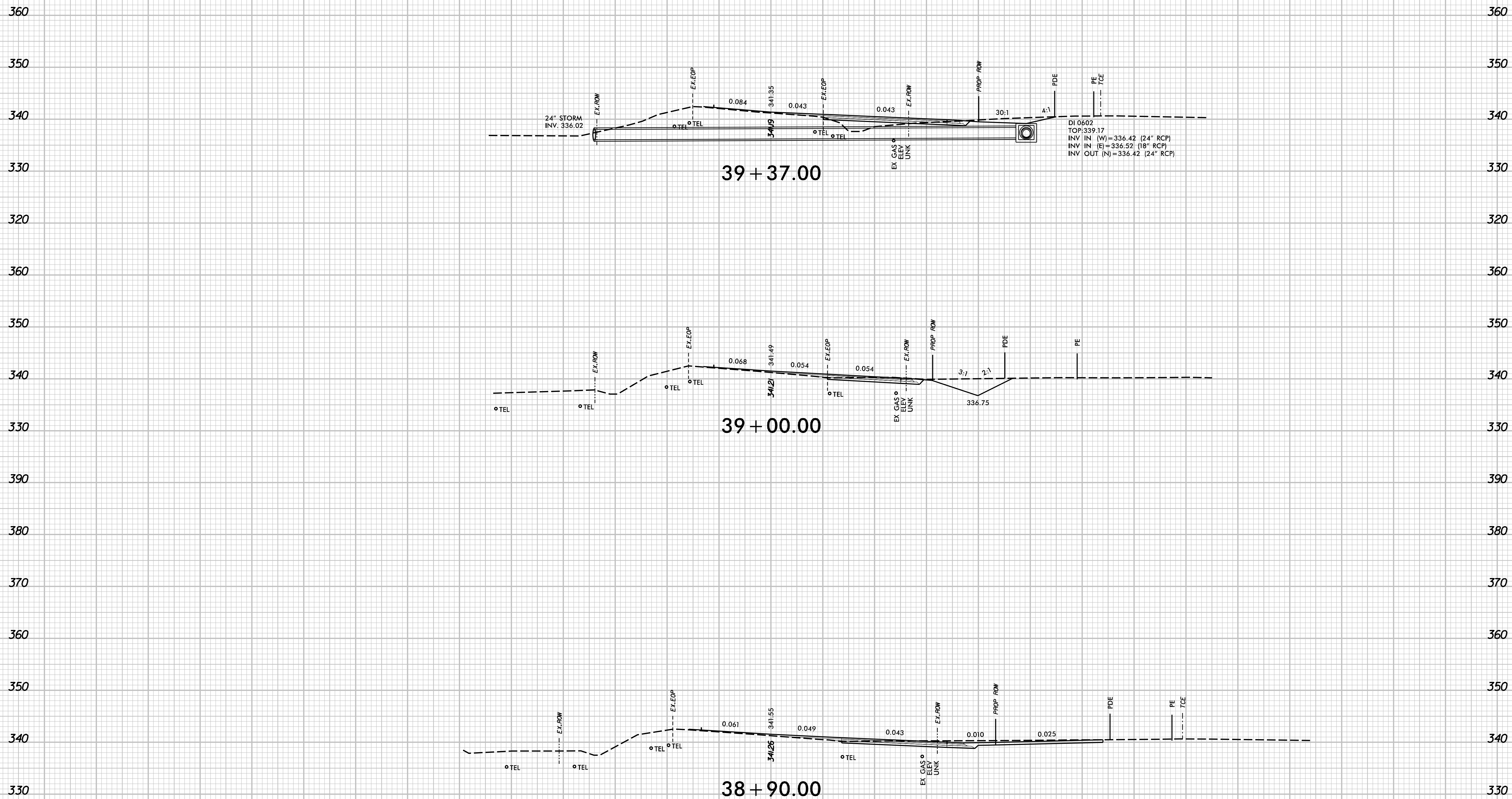
DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH	INIT.	DATE
SCALE:	REVISIONS	

SHEET NO.
 X-39

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:

1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.



-L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



PEARCE FARM
ROADWAY IMPROVEMENTS
ROLESVILLE, NORTH CAROLINA

ROADWAY
CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

SHEET NO.

X-40

360 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 360

350 350

340 340

330 330

360 360

350 350

340 340

330 330

360 360

350 350

340 340

330 330

360 360

350 350

340 340

330 330

350 350

340 340

330 330

360 360

350 350

340 340

330 330

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
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41 + 50.00

41 + 00.00

40 + 50.00

40 + 00.00

39 + 50.00

-L5- Burlington Mills Road



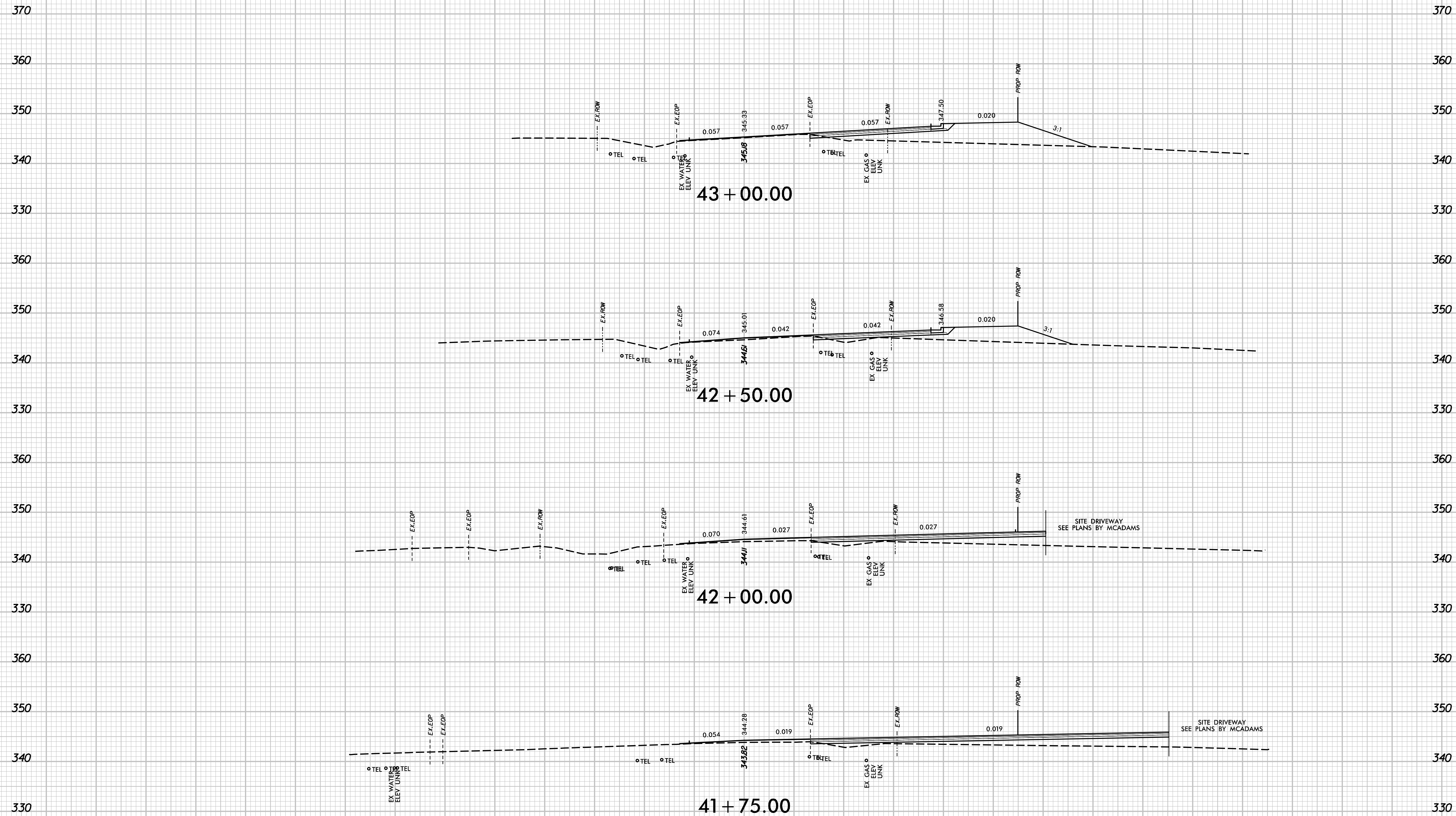
PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	DATE: 04/30/24	REVISIONS	INIT.	DATE
REVIEWED BY: E. LYNCH				

SHEET NO.
 X-41

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



NOTES:
 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

-L5- Burlington Mills Road



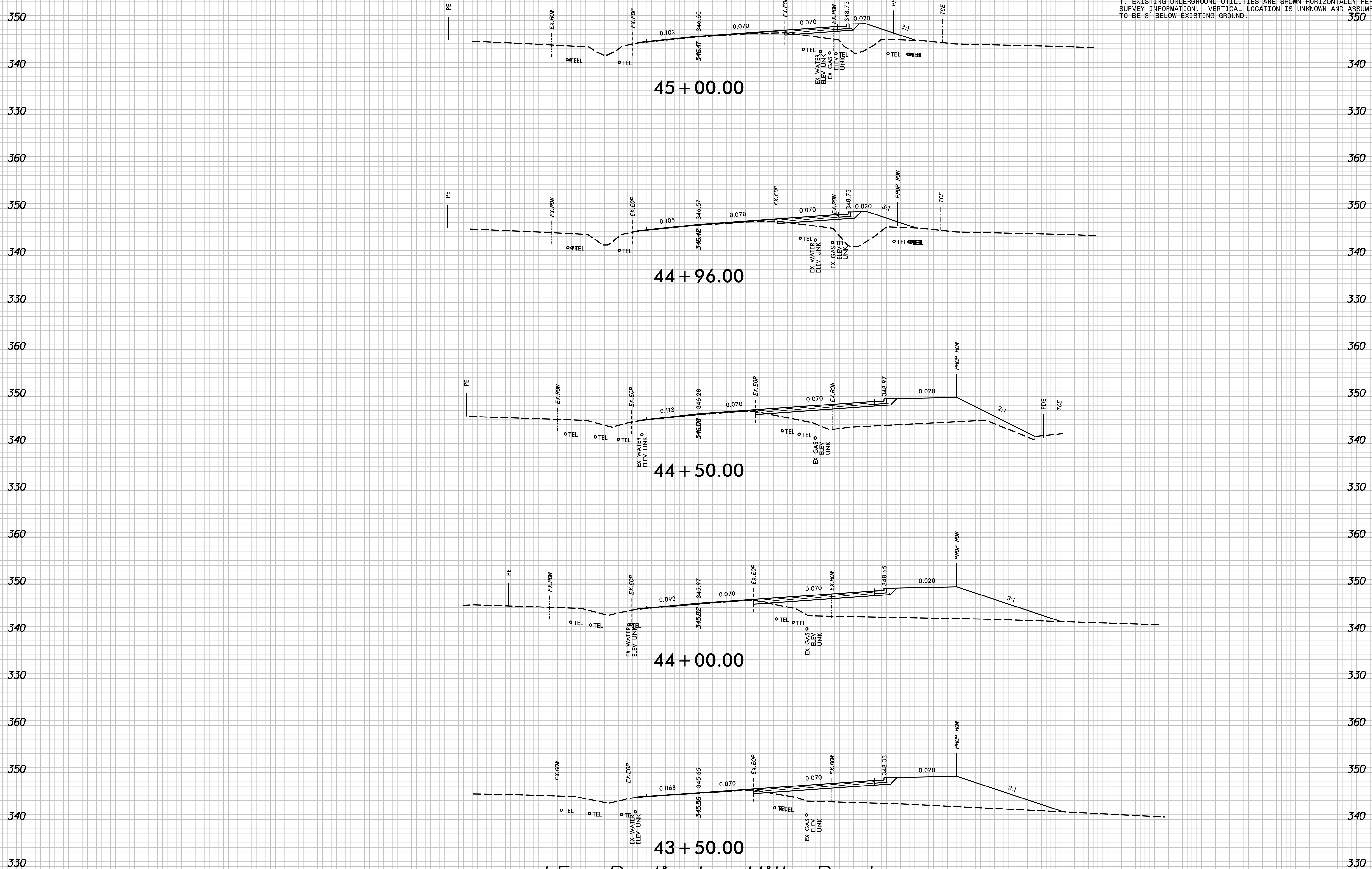
PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

ROADWAY
 CROSS SECTIONS

DESIGNED BY: G. BOYLE	INIT.	DATE
REVIEWED BY: E. LYNCH		
DATE: 04/30/24		
SCALE:	REVISIONS	

SHEET NO.
X-42

360 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 360

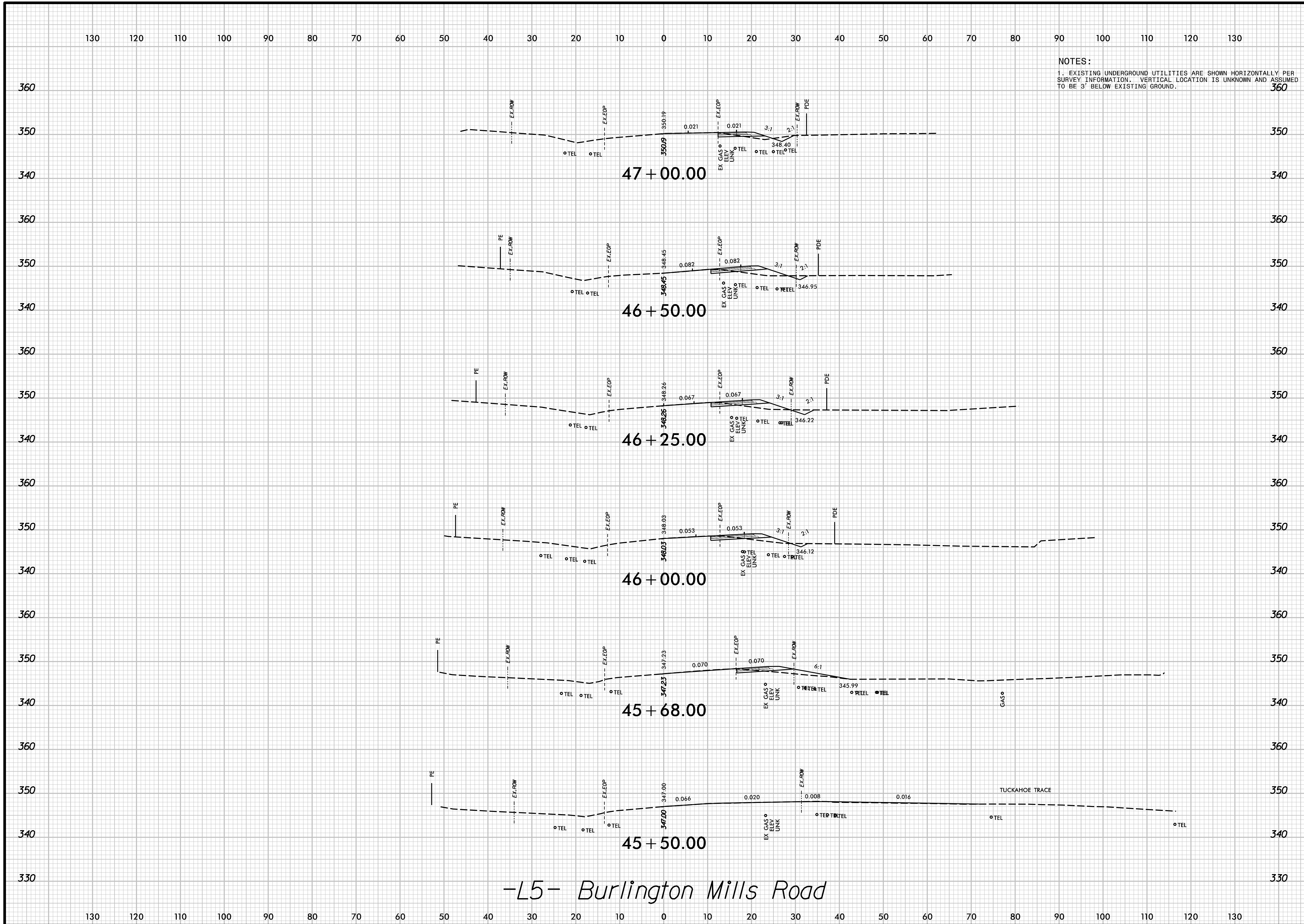


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 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN HORIZONTALLY PER SURVEY INFORMATION. VERTICAL LOCATION IS UNKNOWN AND ASSUMED TO BE 3' BELOW EXISTING GROUND.

-L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

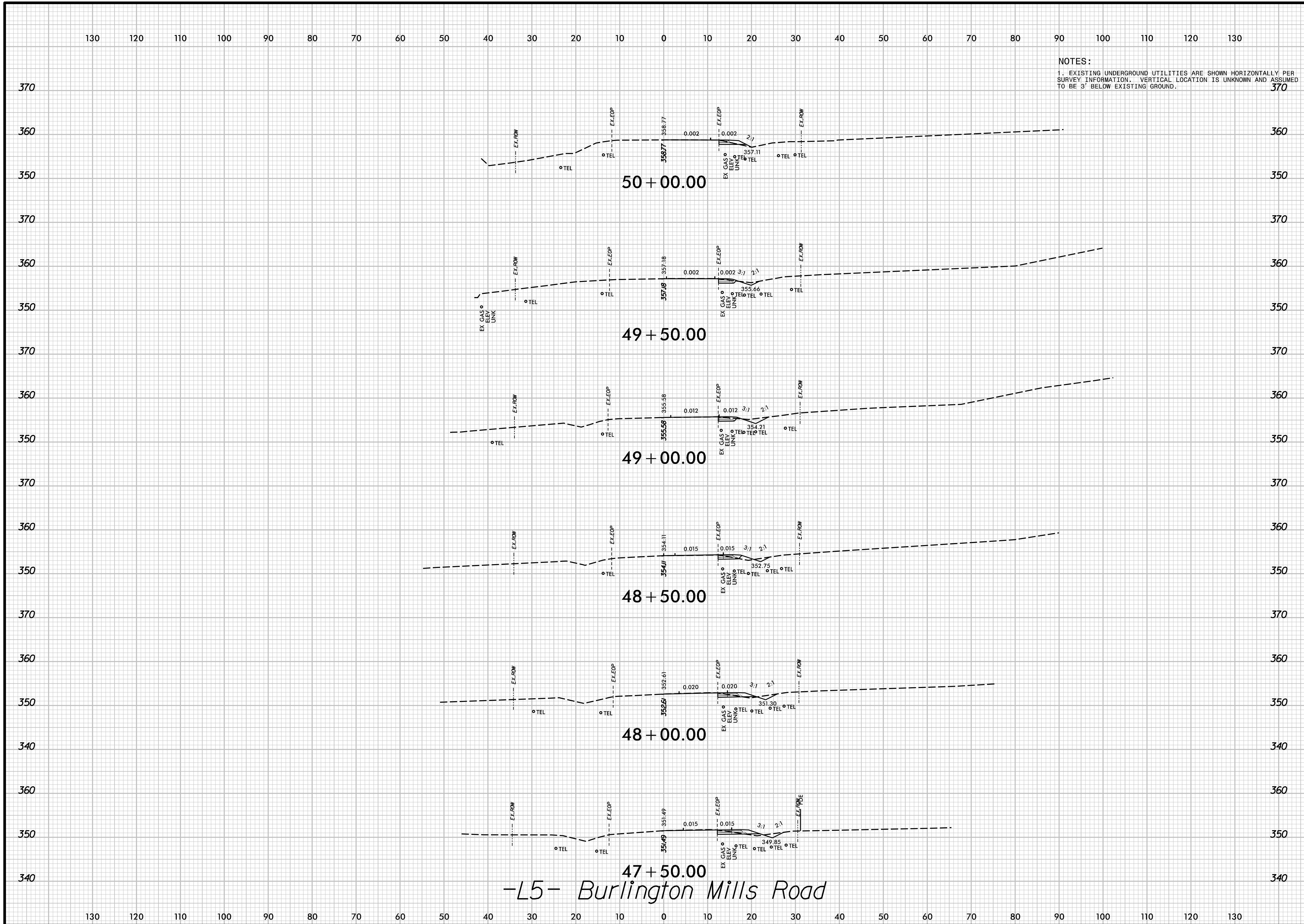
DESIGNED BY: G. BOYLE	INIT.	DATE
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-L5- Burlington Mills Road

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**PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA**

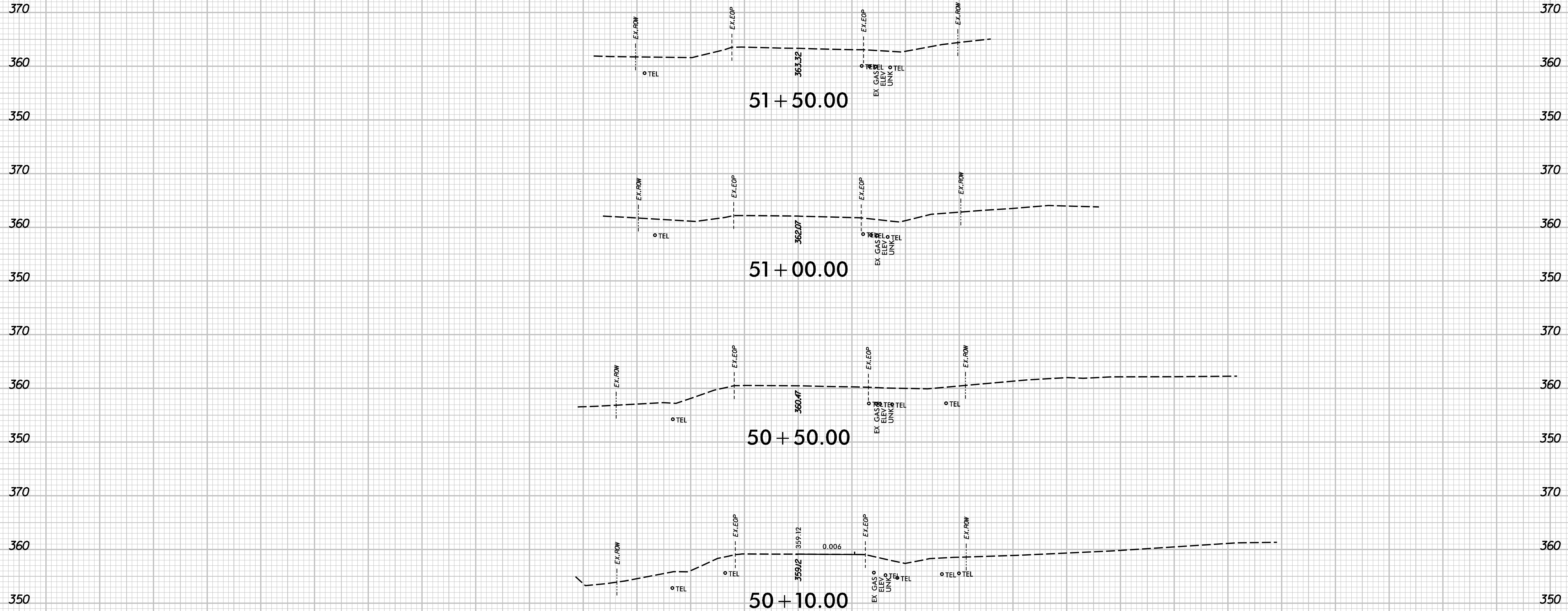
**ROADWAY
 CROSS SECTIONS**

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-L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

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-L5- Burlington Mills Road

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



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 Kannapolis, NC 28081
 www.exultengineering.com

PEARCE FARM
 ROADWAY IMPROVEMENTS
 ROLESVILLE, NORTH CAROLINA

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SCALE:		

SHEET NO.

X-46