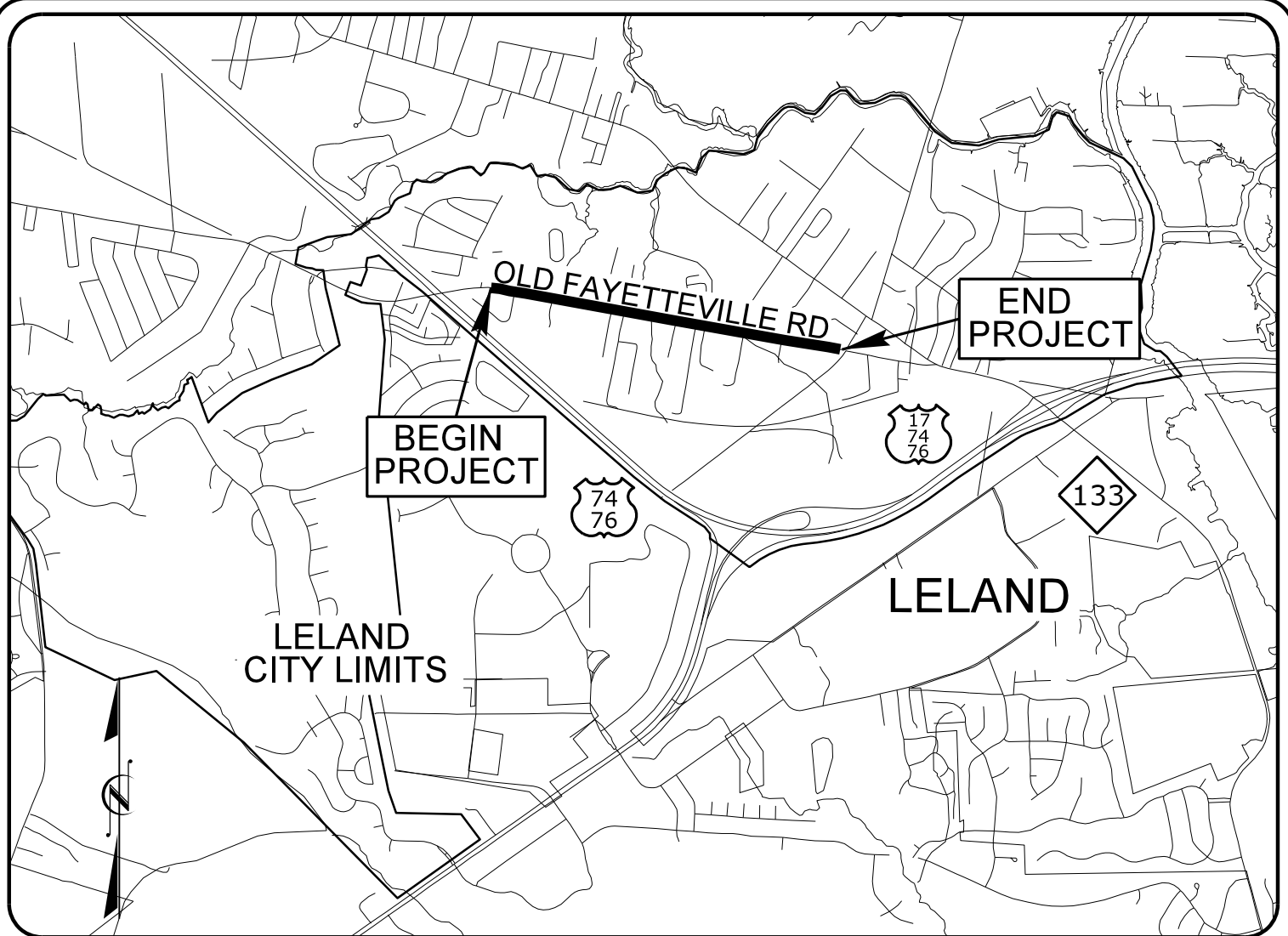


09.08/99

TIP PROJECT: U-5534D

CONTRACT:

See Sheet 1-A For Index of Sheets
See Sheet 1B For Conventional Symbols



VICINITY MAP
NOT TO SCALE

TOWN OF LELAND

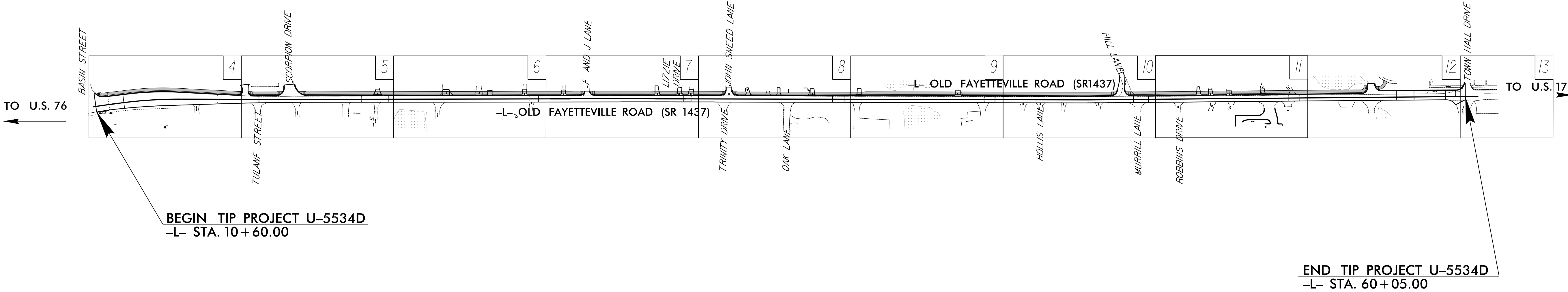
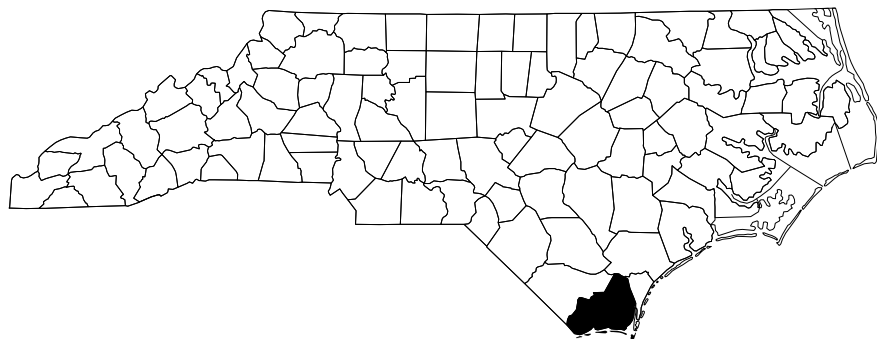
BRUNSWICK COUNTY

LOCATION: OLD FAYETTEVILLE ROAD, LELAND
BETWEEN US 74/76 AND SR TOWN HALL DR

TYPE OF WORK: GRADING, PAVING, WIDENING, CURB & GUTTER,
MULTI-USE PATH AND DRAINAGE



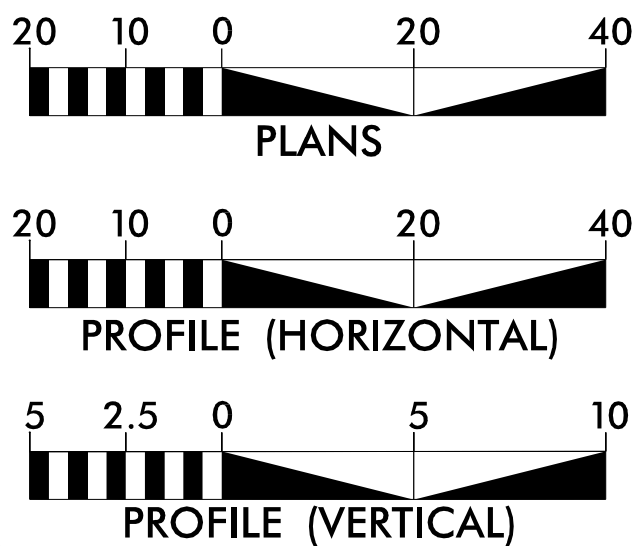
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5534D	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	



SUBMITTAL: 100%
DATE: JUNE 6, 2018

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2013 = 4400
FUNC CLASS = MAJOR COLLECTOR
DS = 50 MPH

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5534D = 0.937 MILES
TOTAL LENGTH OF TIP PROJECT U-5534D = 0.937 MILES

Prepared in the Office of:

AECOM

NC FIRM LICENSE No: F-0342
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

RIGHT OF WAY DATE:
OCTOBER 2017

LETTING DATE:
JUNE 20, 2018

LAURA C. FISHER, P.E.
PROJECT ENGINEER

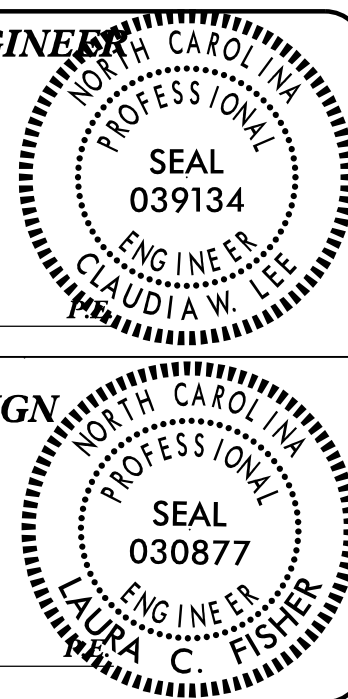
LISA JAMISON
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

Designed by:
Claudia W. Lee
72002678847416...
SIGNATURE: 6/14/2018

ROADWAY DESIGN
ENGINEER

Designed by:
Laura C. Fisher
555361420351436...
SIGNATURE: 6/14/2018



8/17/99

REVISIONS

6/14/2018
R:\Roadway\Proj\U5534D_Rdy_psh_01A.dgn
Lisa Jamison

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS
1B	CONVENTIONAL SYMBOLS
2A	TYPICAL SECTION
2B THROUGH 2C	SPECIAL DETAILS
3B-1	ROADWAY SUMMARY
3D-1 THROUGH 3D-2	DRAINAGE SUMMARY SHEETS
4 THROUGH 13	PLAN SHEET AND PROFILE SHEETS
TMP-1 THROUGH TMP-5	TRANSPORTATION MANAGEMENT PLAN
PMP-01 THROUGH PMP-06	PAVEMENT MARKING PLAN
X-1A THROUGH X-20	CROSS-SECTIONS

GENERAL NOTES: 2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SIDE ROADS:

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

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.

PROJECT REFERENCE NO.		SHEET NO.	
U5534D		1A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

EFF. 01-16-2018
REV.

2018 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, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE
DIVISION 2 – EARTHWORK
200.02 Method of Clearing – Method II

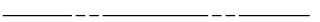
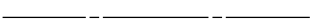
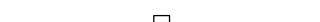
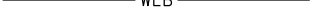
DIVISION 3 – PIPE CULVERTS
300.01 Method of Pipe Installation
310.10 Driveway Pipe Construction

DIVISION 6 – ASPHALT BASES AND PAVEMENTS
654.01 Pavement Repairs

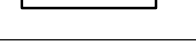
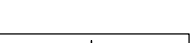
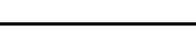
DIVISION 8 – INCIDENTALS
806.01 Concrete Right-of-Way Marker
806.02 Granite Right-of-Way Marker
840.01 Brick Catch Basin – 12" thru 54" Pipe
840.02 Concrete Catch Basin – 12" thru 54" Pipe
840.03 Frame, Grates and Hood – for Use on Standard Catch Basin
840.18 Concrete Grated Drop Inlet Type 'B' – 12" thru 36" Pipe
840.19 Concrete Grated Drop Inlet Type 'D' – 12" thru 36" Pipe
840.24 Frames and Narrow Slot Sag Grates
840.27 Brick Grated Drop Inlet Type 'B' – 12" thru 36" Pipe
840.28 Brick Grated Drop Inlet Type 'D' – 12" thru 36" Pipe
840.72 Pipe Collar
846.01 Concrete Curb, Gutter and Curb & Gutter
848.01 Concrete Sidewalk
848.02 Driveway Turnout – Radius Type
848.04 Street Turnout
848.05 Curb Ramp – Proposed Curb & Gutter
866.01 Chain Link Fence – 4', 5' and 6' High Fence
876.02 Guide for Rip Rap at Pipe Outlets
876.04 Drainage Ditches with Class 'B' Rip Rap

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

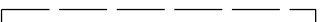
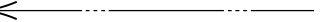
BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
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	
Buffer Zone 1	
Buffer Zone 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 Easment 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 R/W Marker	
New Control of Access Line with Concrete C/A 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	

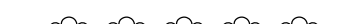
ROADS AND RELATED FEATURES:

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	

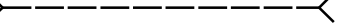
VEGETATION:

Single Tree	
Single Shrub	

*S.U.E. = Subsurface Utility Engineering

Hedge	
Woods Line	
Orchard	
Vineyard	

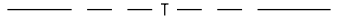
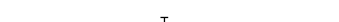
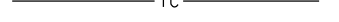
EXISTING STRUCTURES:

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	

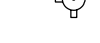
UTILITIES:

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.*)	

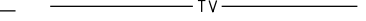
TELEPHONE:

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.*)	

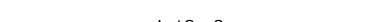
WATER:

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	

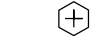
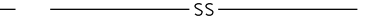
TV:

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.*)	

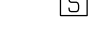
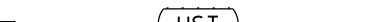
GAS:

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:

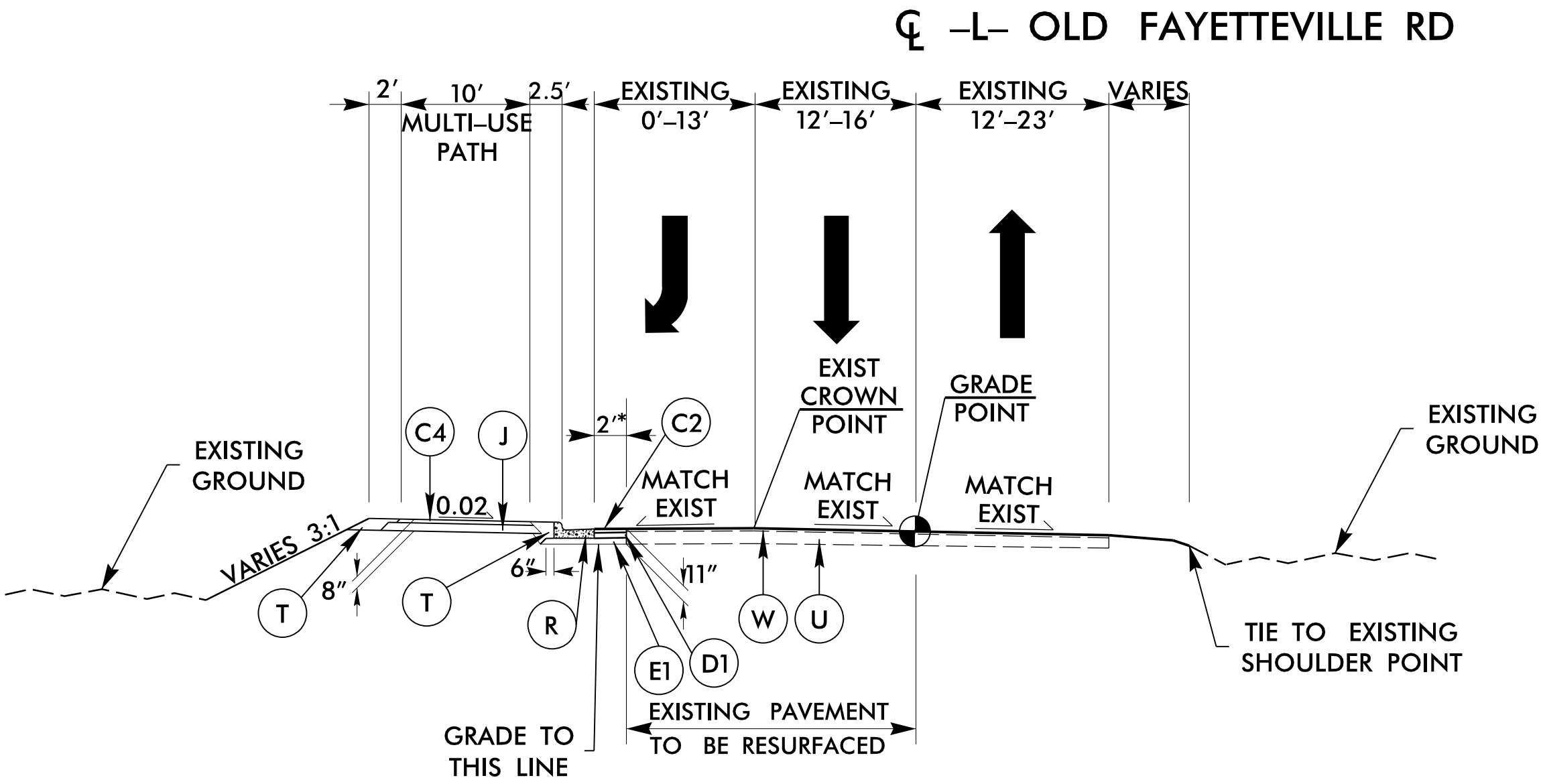
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	

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	
End of Information	

6/2/99

6/13/2018
B:\Roadway\N-Proj\U5534D_Rdy_tup.dgn
User:lamson

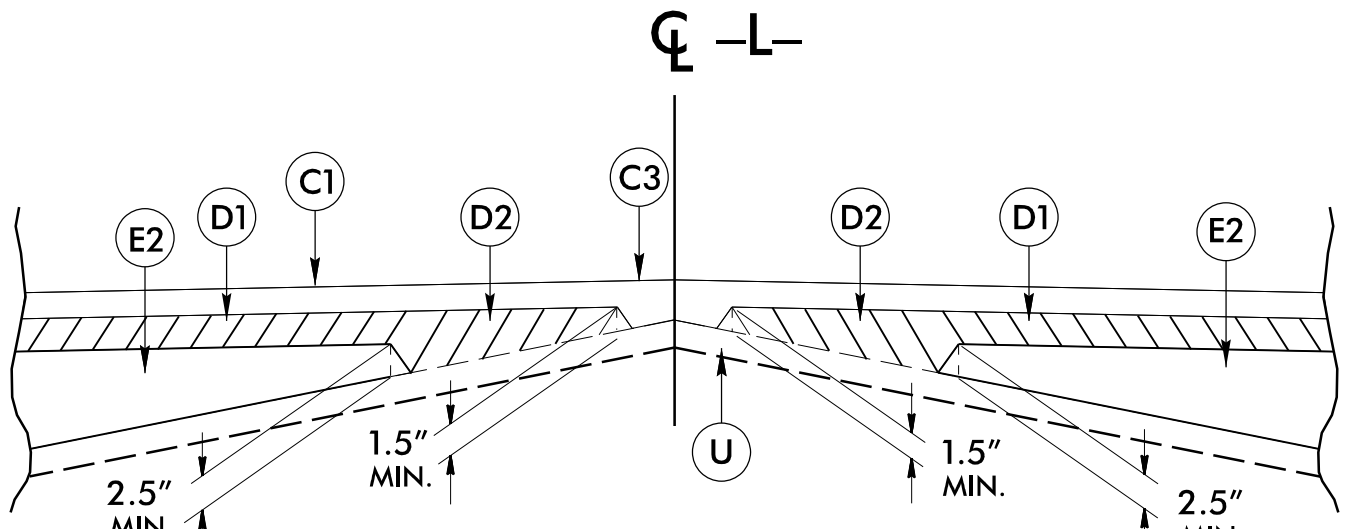
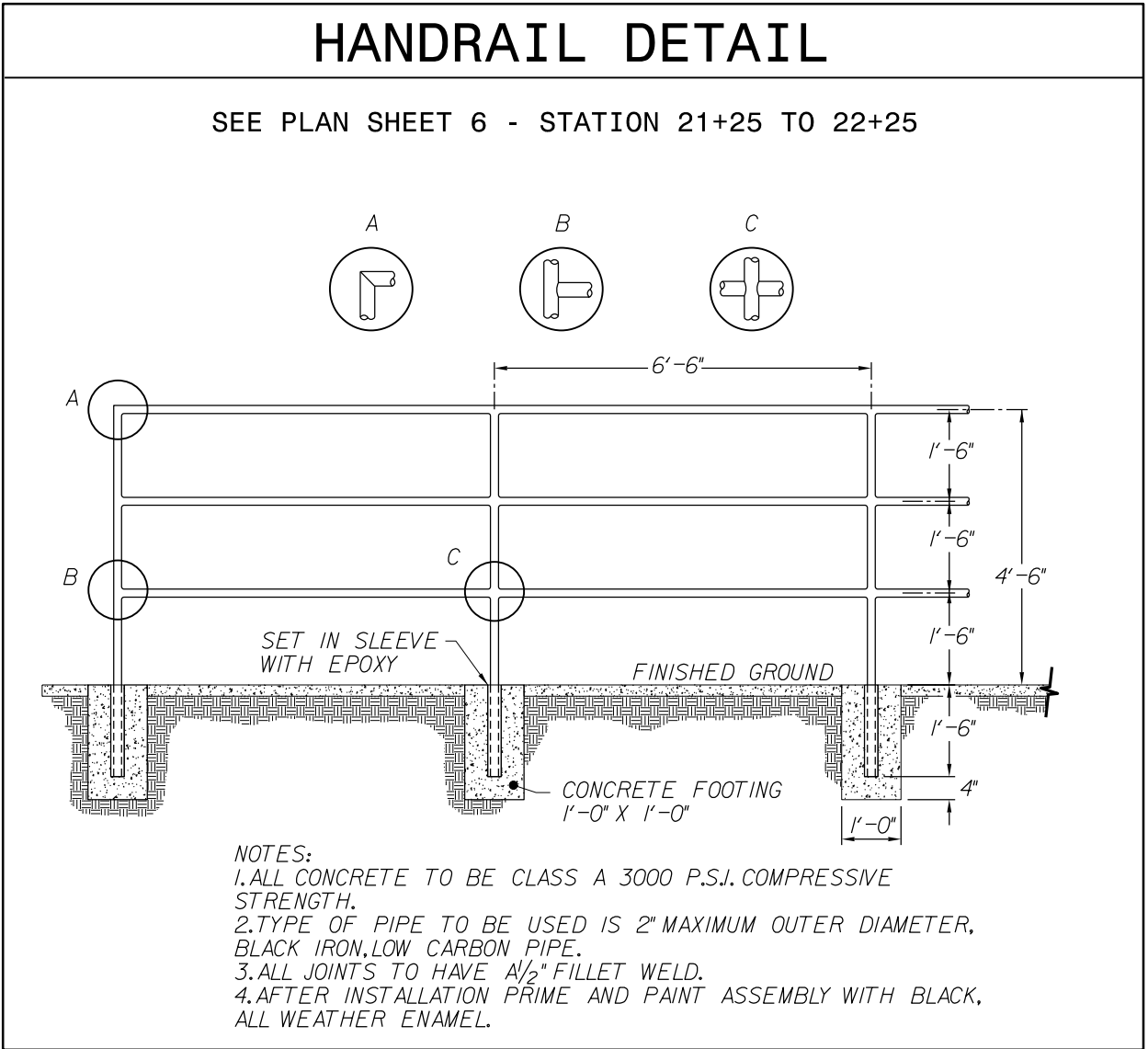


TYPICAL NO. 1

-L- STA. 10+60.00 TO 16+00.00

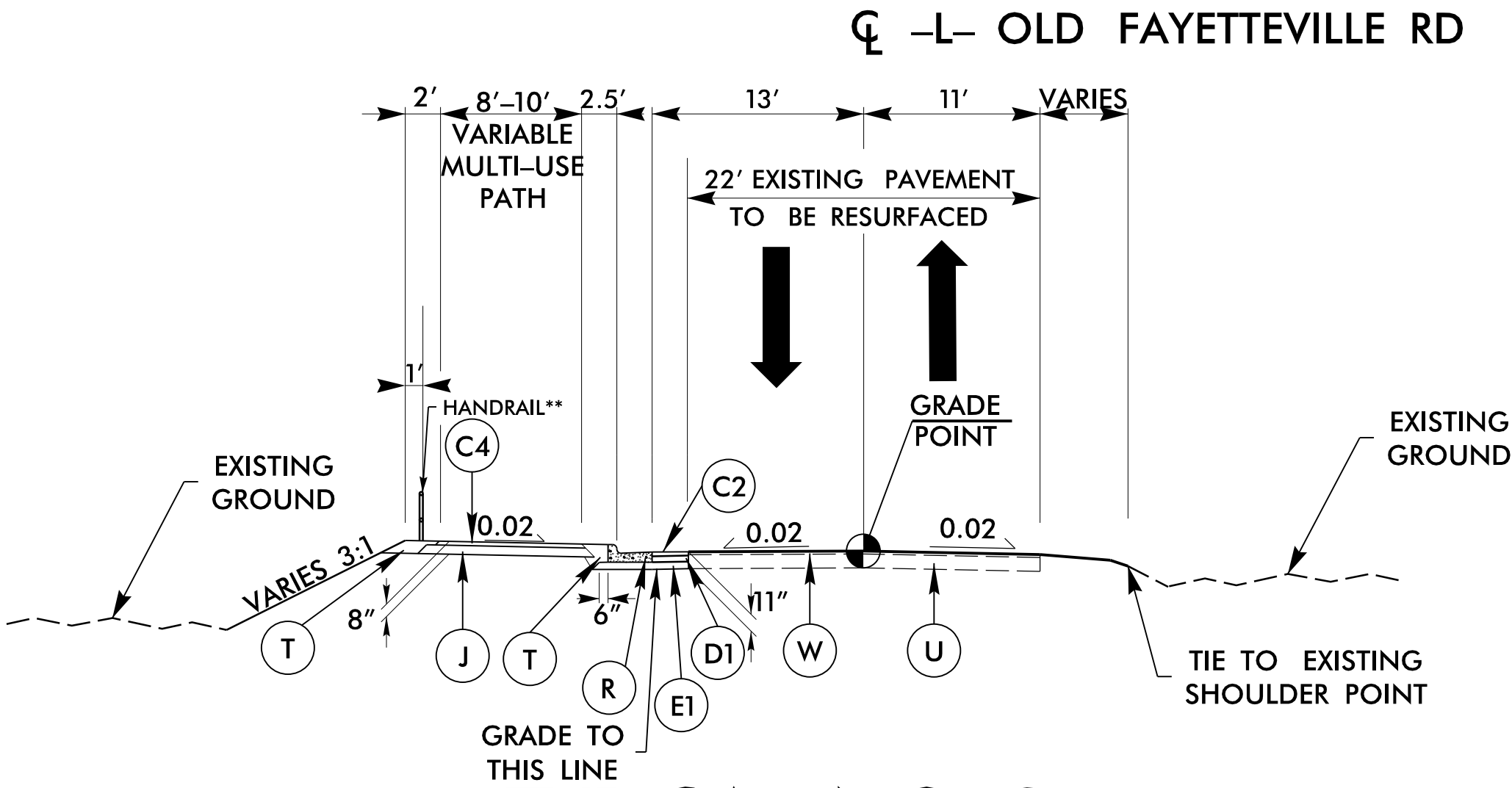
*SAWCUT 2' OF EXISTING PAVEMENT TO PLACE PROPOSED CURB AND GUTTER AT EXISTING EDGE OF PAVEMENT

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" 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 LIFTS.
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 2" IN DEPTH
C4	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD.
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 TO EXCEED 4" IN DEPTH
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.C, AT AN AVERAGE RATE OF 456 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 TO EXCEED 5.5" IN DEPTH
J	PROP. 6" AGGREGATE BASE COURSE
R	2'-6" CONCRETE CURB AND GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING).



W: DETAIL SHOWING METHOD OF WEDGING
USE THIS DETAIL IN CONJUNCTION WITH TYPICAL SECTIONS 1. 2. & 3

- NOTES:**
- 1) DRIVEWAY PAVEMENT: 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, 6" AGGREGATE BASE COURSE
 - 2) PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
 - 3) STREET TURNOUTS: MIN. 1.5" ASPHALT CONCRETE SURFACE COURSE S9.5C TO MATCH -L- PAVEMENT WITH WEDGEING OR WIDENING WHERE NEEDED

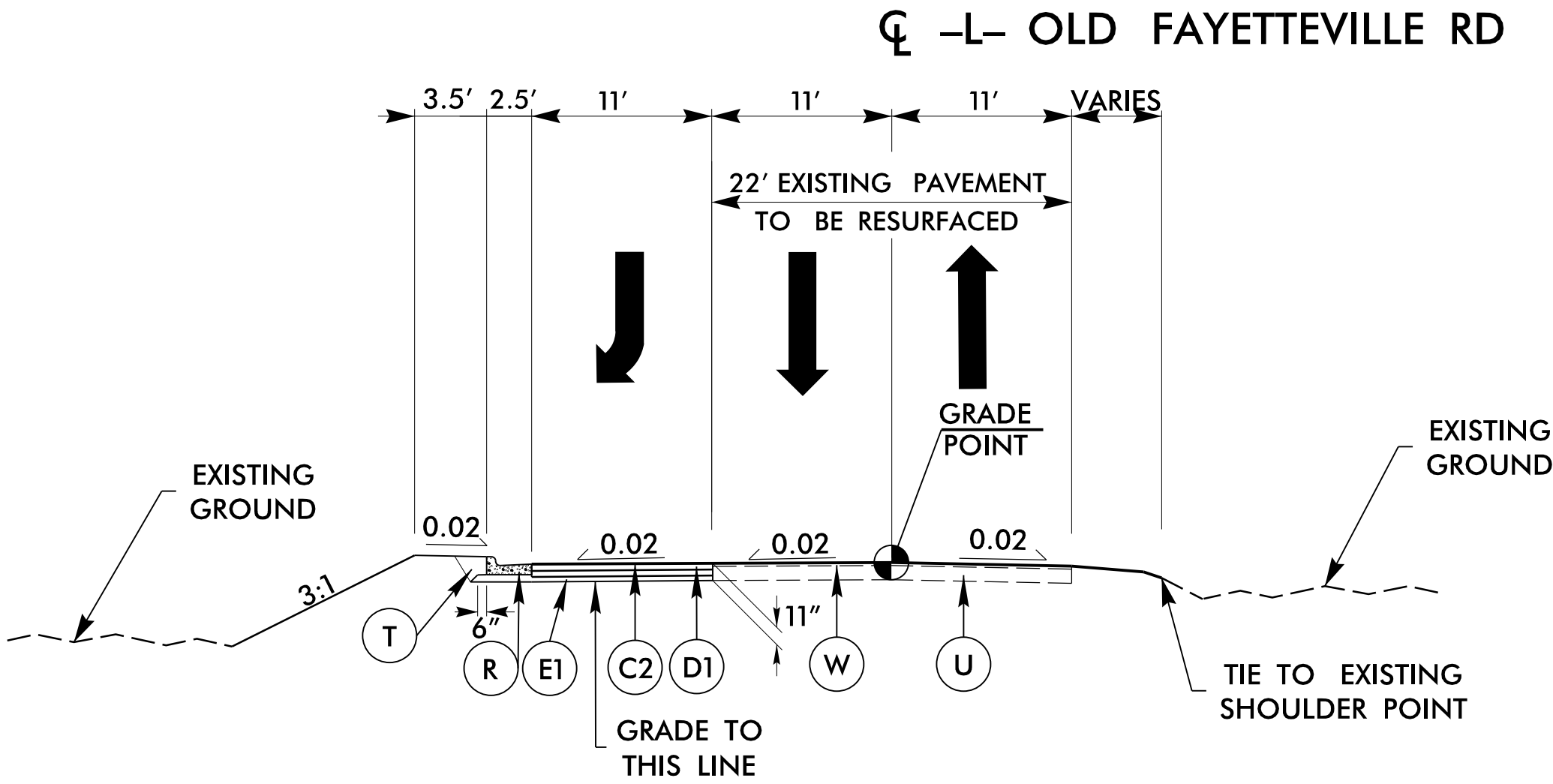


TYPICAL NO. 2

-L- STA. 16+00.00 TO STA. 56+53.70

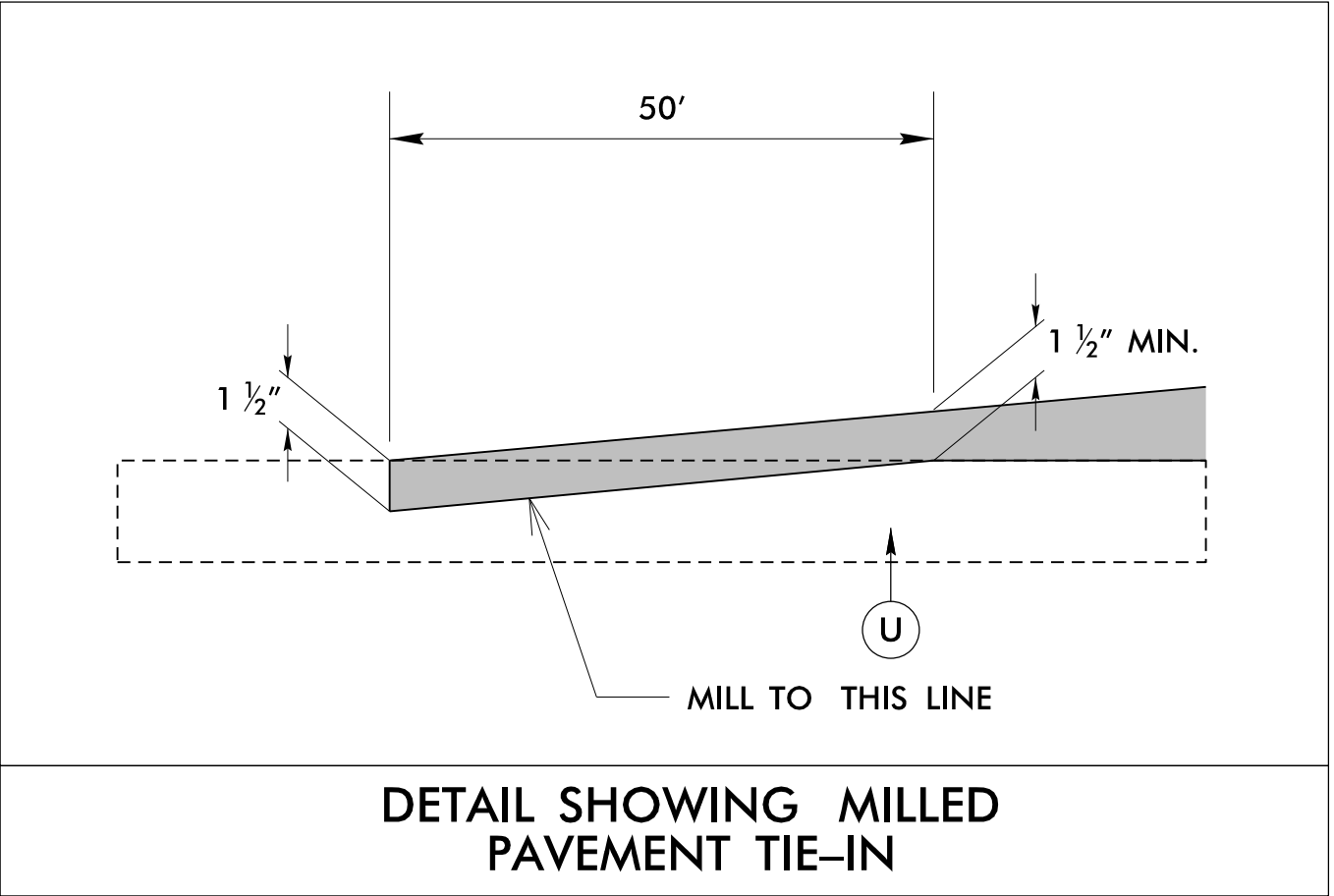
NOTE: FROM STA. 23+89 TO STA. 24+52
TIE LEFT SLOPE WITHIN EXISTING ROW

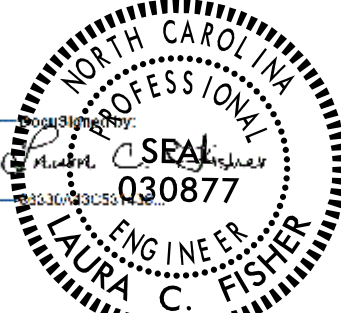
** PROPOSED HANDRAIL FROM
STA. 21+25 TO STA. 22+25

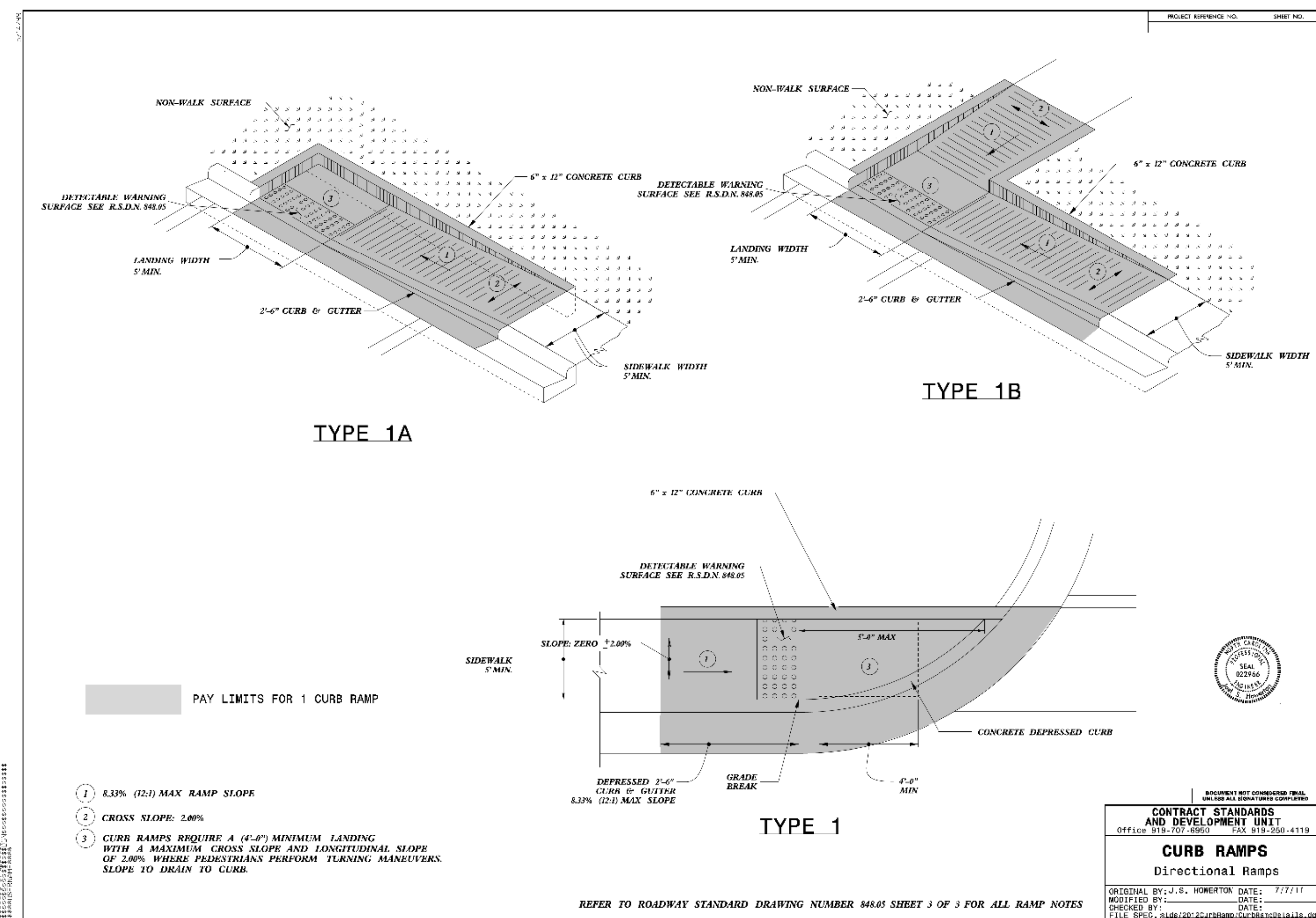
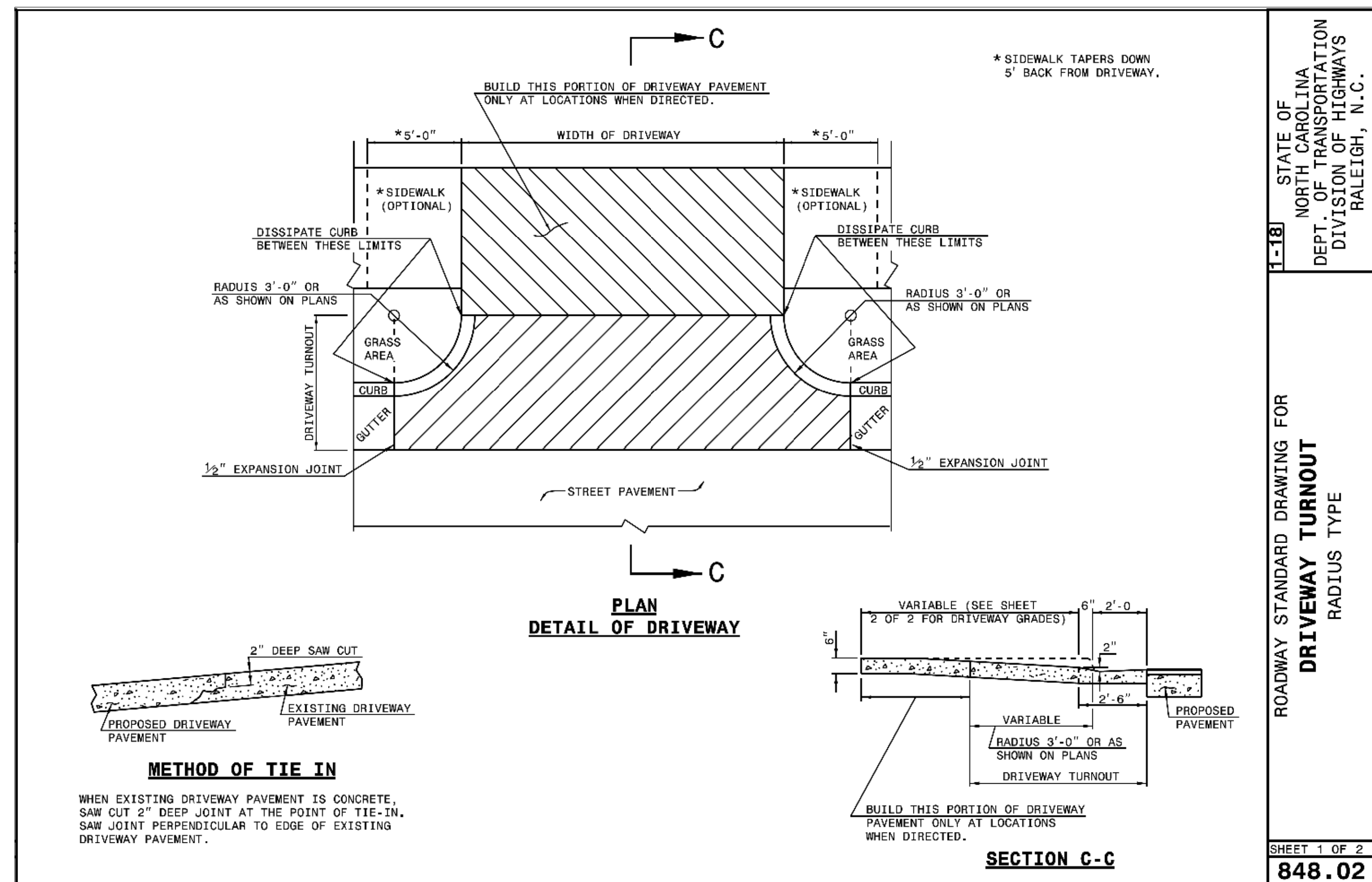


TYPICAL NO. 3

-L- STA. 56+53.70 TO STA. 60+05.00



PROJECT REFERENCE NO.		SHEET NO.
U5534D		2A
ROADWAY DESIGN ENGINEER		
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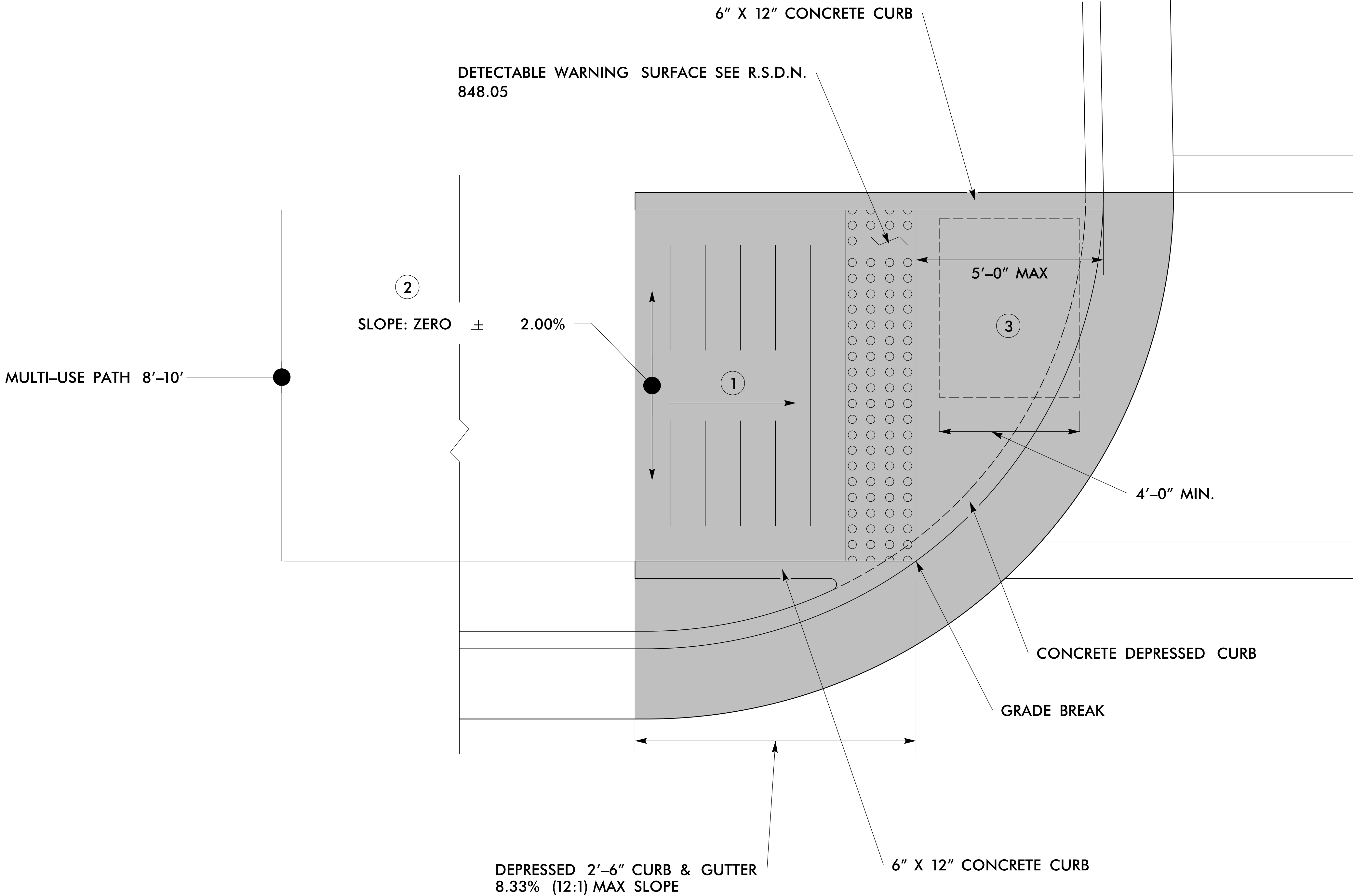
NOTE: USE TYPE 1A CURB RAMP AT BUS STOP

6/2/99

6/13/2018
B:\Roadway\Projects\U5534D_Rdy_tup.dgn
User: Jamison

 PAY LIMITS FOR 1 CONCRETE CURB RAMP

- ① 8.33% (12:1) MAX SLOPE
- ② CROSS SLOPE 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

PROJECT REFERENCE NO.		SHEET NO.
U5534D		2C
ROADWAY DESIGN ENGINEER		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

COMPUTED BY: K. Koivuniemi DATE: 1/9/2018
CHECKED BY: S. Turgeon DATE: 1/9/2018

PROJECT REFERENCE NO.
U-5534D

SHEET NO.
3B-1

3B-1

SUMMARY OF QUANTITIES

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- 10+60.00	-L- 60+05.00	1,019	6,868	5,850	
PROJECT TOTALS:		1,019	6,868	5,850	
LOSS DUE TO CLEARING & GRUBBING		-50		50	
PROJECT TOTALS:		969	6,868	5,900	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				295	
GRAND TOTALS:		969		6,195	
SAY:		970		6,200	

CONTINGENCY ITEMS PER NCDOT GEOTECHNICAL REPORT - DESIGN AND CONSTRUCTION RECOMMENDATIONS, DATED DECEMBER 15, 2016

Note: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

PAVEMENT REMOVAL SUMMARY

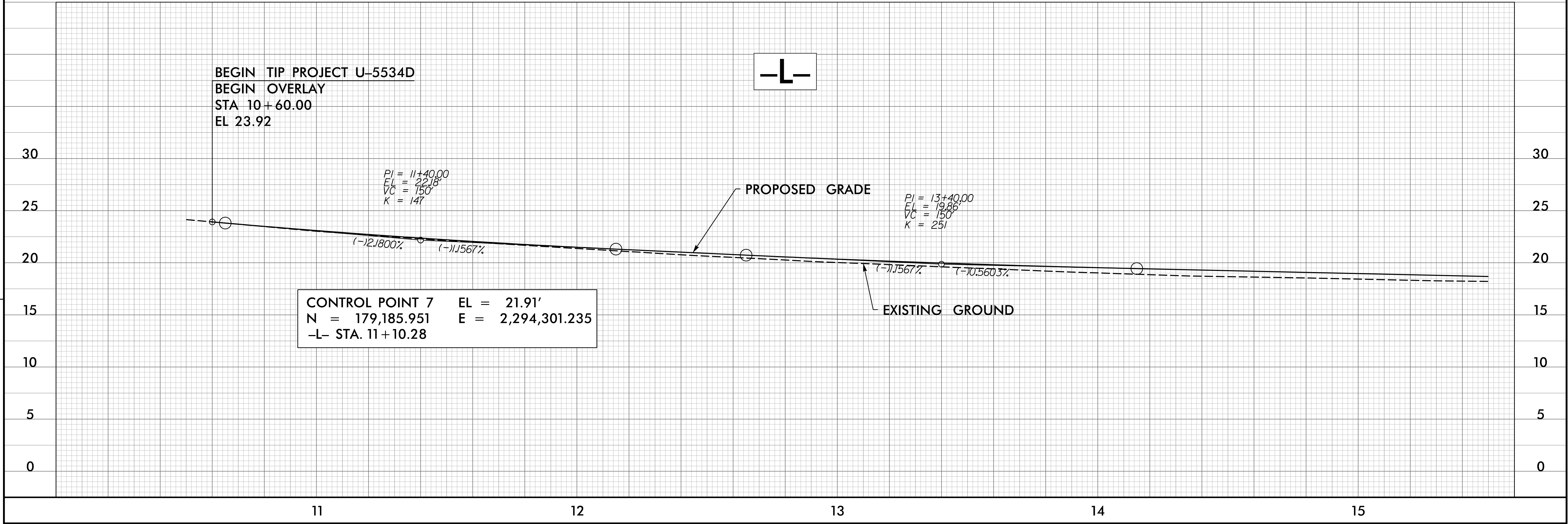
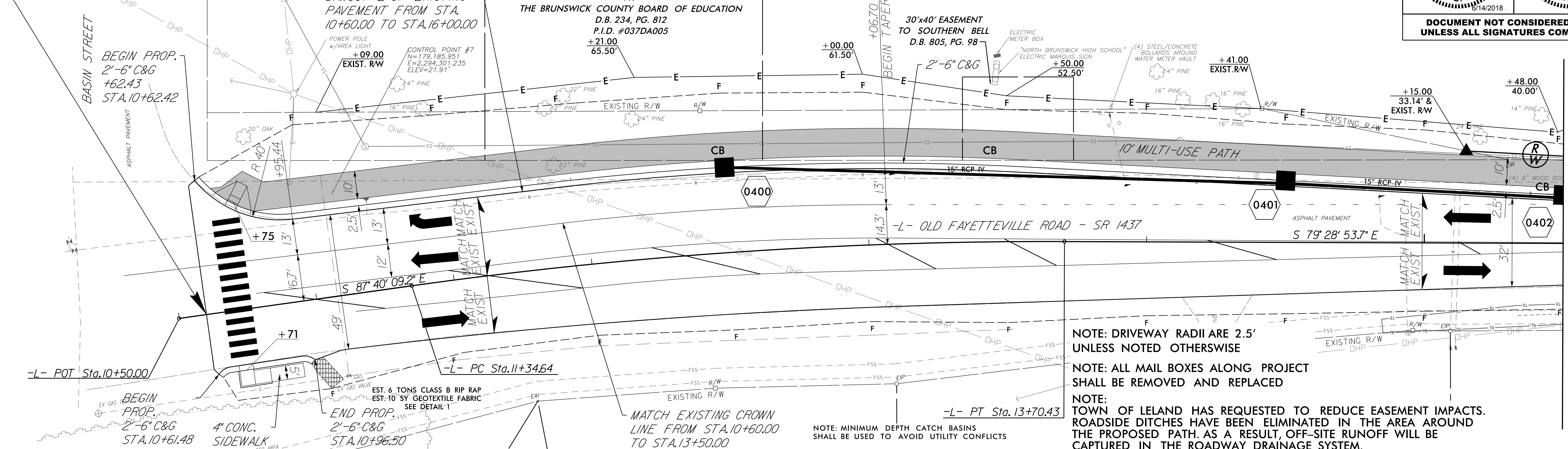
IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
L	10+60.00	15+75.00	LT	113.29			
		TOTAL:		113.29			
		SAY:		120			

8/17/99

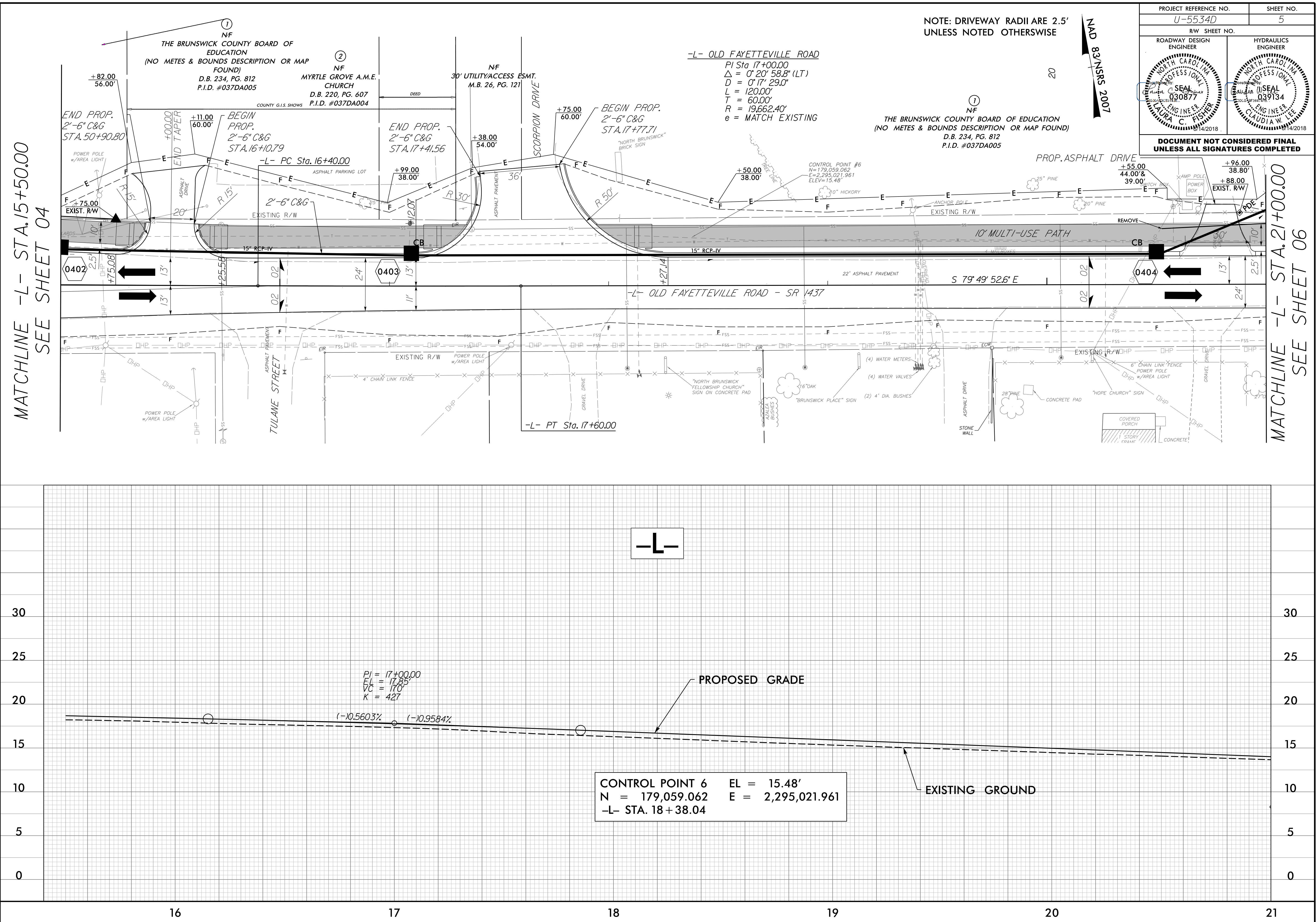
REVISIONS

BEGIN TIP PROJECT U-5534D
-L- Sta. 10+60.00



PROJECT REFERENCE NO.		SHEET NO.
U-5534D		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

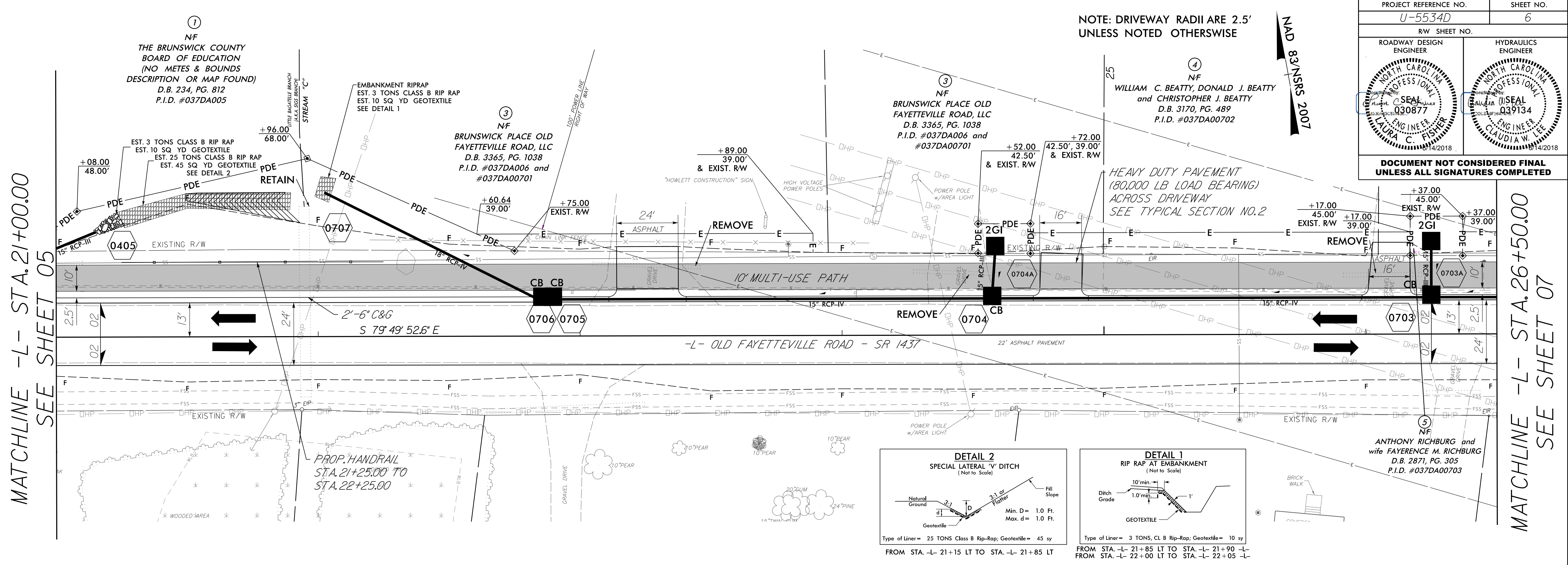
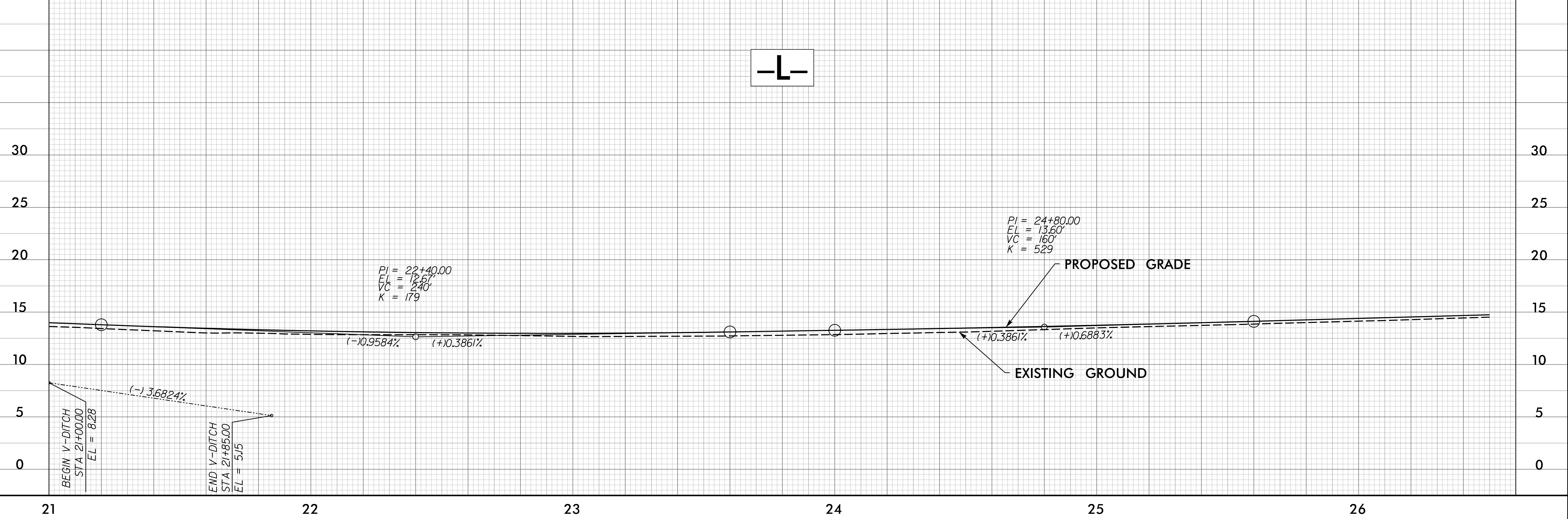
MATCHLINE -L- STA. 15+50.00
SEE SHEET 05



8/17/99

MATCHLINE -L- STA.21+00.00
SEE SHEET 05

8/13/2018
R:\Roadway\Proj\U5534D_Rdy_psh_06.dgn
User: jason



PROJECT REFERENCE NO. U-5534D		SHEET NO. 6	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

MATCHLINE -L- STA.26+50.00
SEE SHEET 07

MATCHLINE -L- STA. 26+50.00
SEE SHEET 06

PC Sta. 27+02.26

5 NF
ANTHONY RICHBURG and wife FAYERENCE M. RICHBURG
D.B. 2871, PG. 305
P.I.D. #037DA00703

6 NF
FREELAND MOORE and wife JOSEPHINE MOORE
D.B. 72, PG. 147
P.I.D. #037DA00704

7 NF
CLAYTON A. MOORE and wife MARY LOU MOORE
D.B. 2227, PG. 869
P.I.D. #037DA00706

7 NF
CLAYTON A. MOORE and wife MARY LOU MOORE
D.B. 2227, PG. 869
P.I.D. #037DA00706

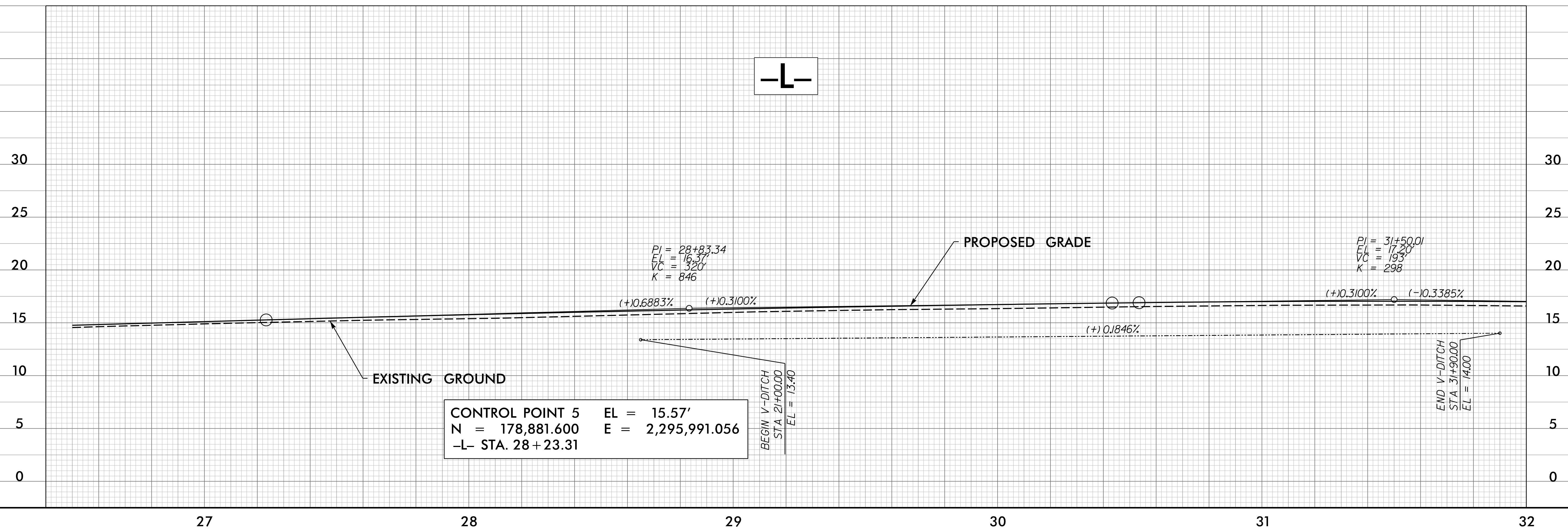
8 NF
KENNETH L. SNEED
D.B. 1136, PG. 1200
P.I.D. #037DA0101

9 NF
BILLY LEE BRADLEY
D.B. 1305, PG. 1112
P.I.D. #037DA0111

DETAIL 3
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

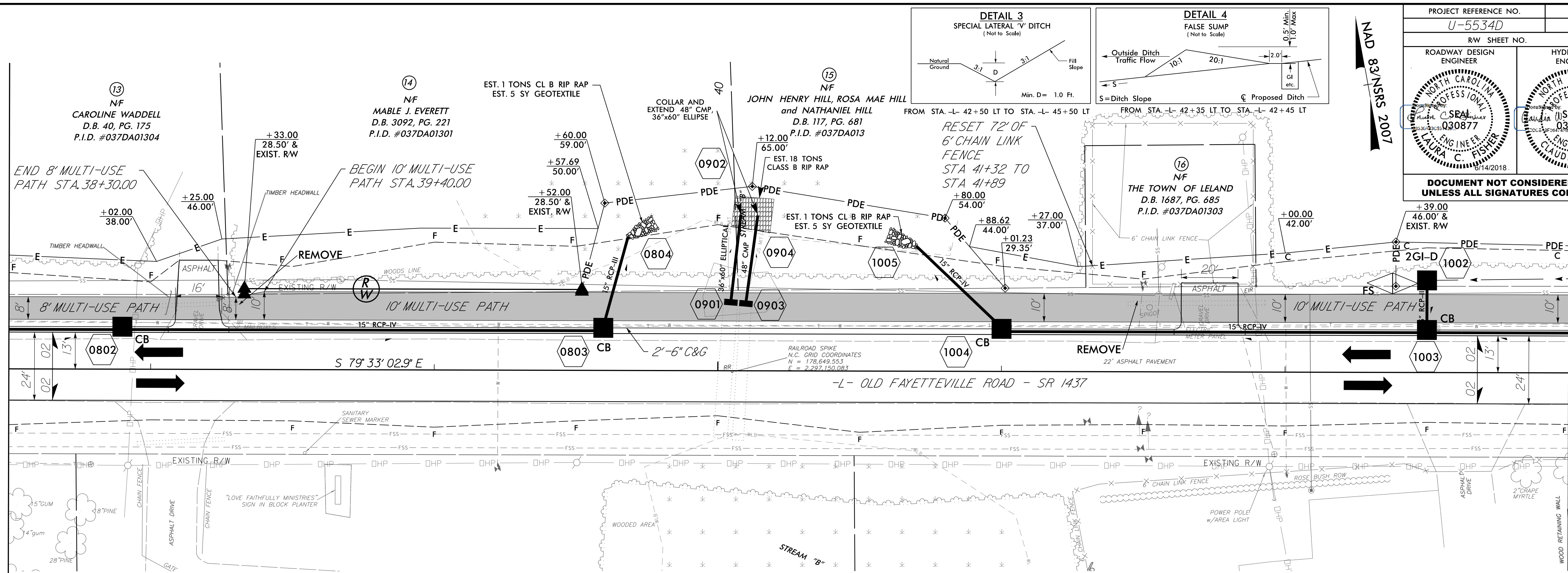
FROM STA. -L- 28+65 LT TO STA. -L- 31+90 LT

MATCHLINE -L- STA. 32+00.00
SEE SHEET 08

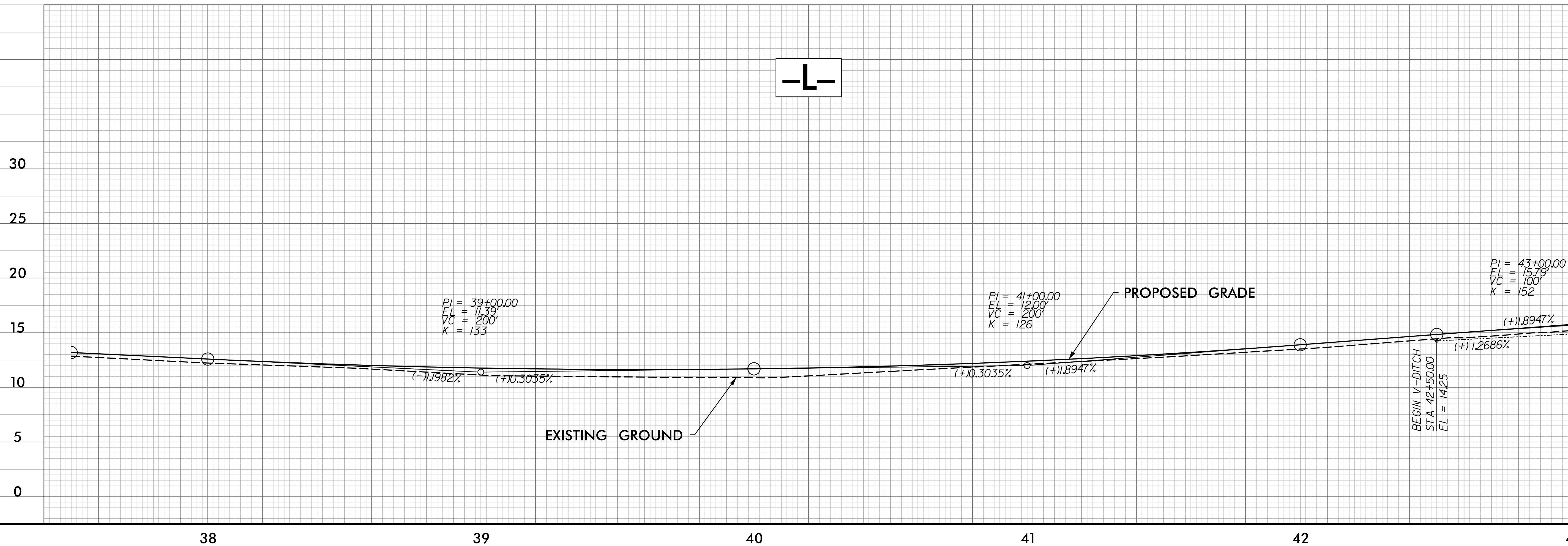




MATCHLINE -L- STA. 37+50.00
SEE SHEET 08



NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE



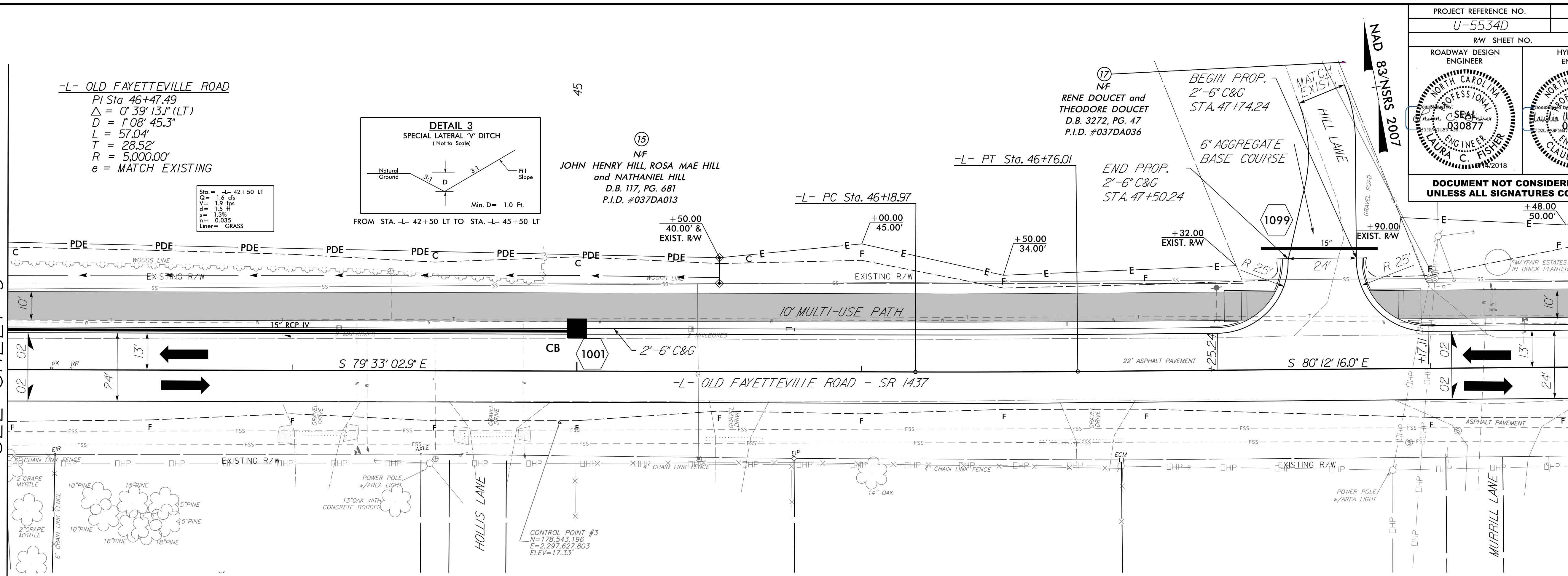
6/14/2018
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Lisa Jamison

8/17/99

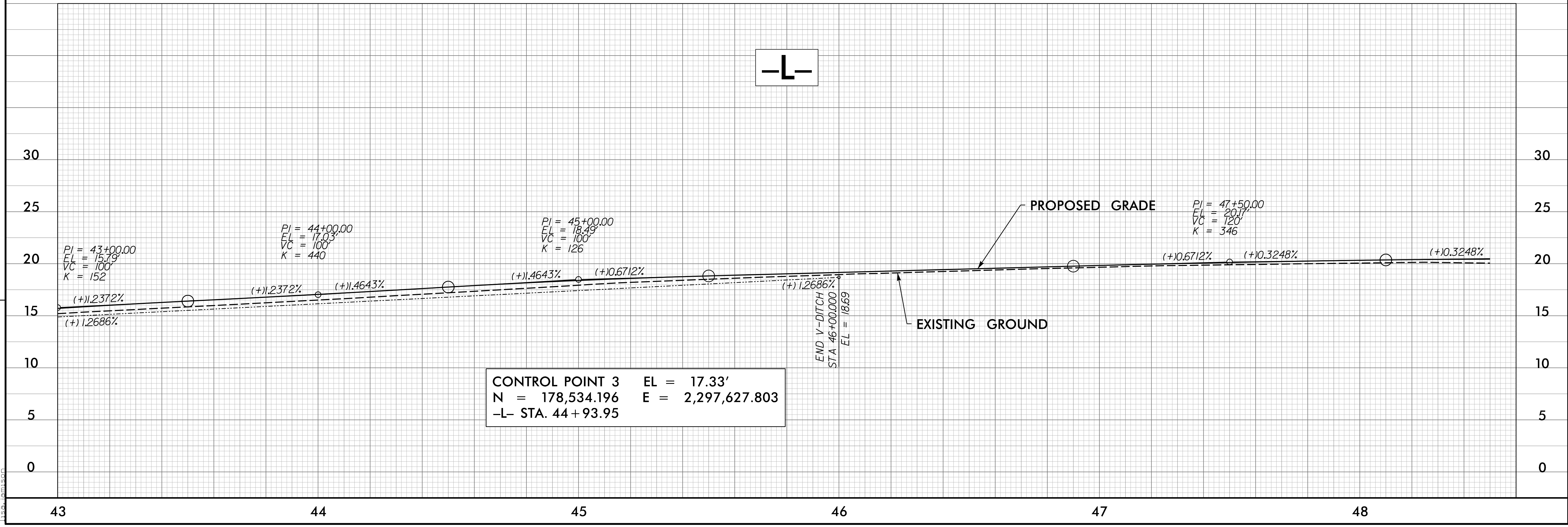
REVISIONS

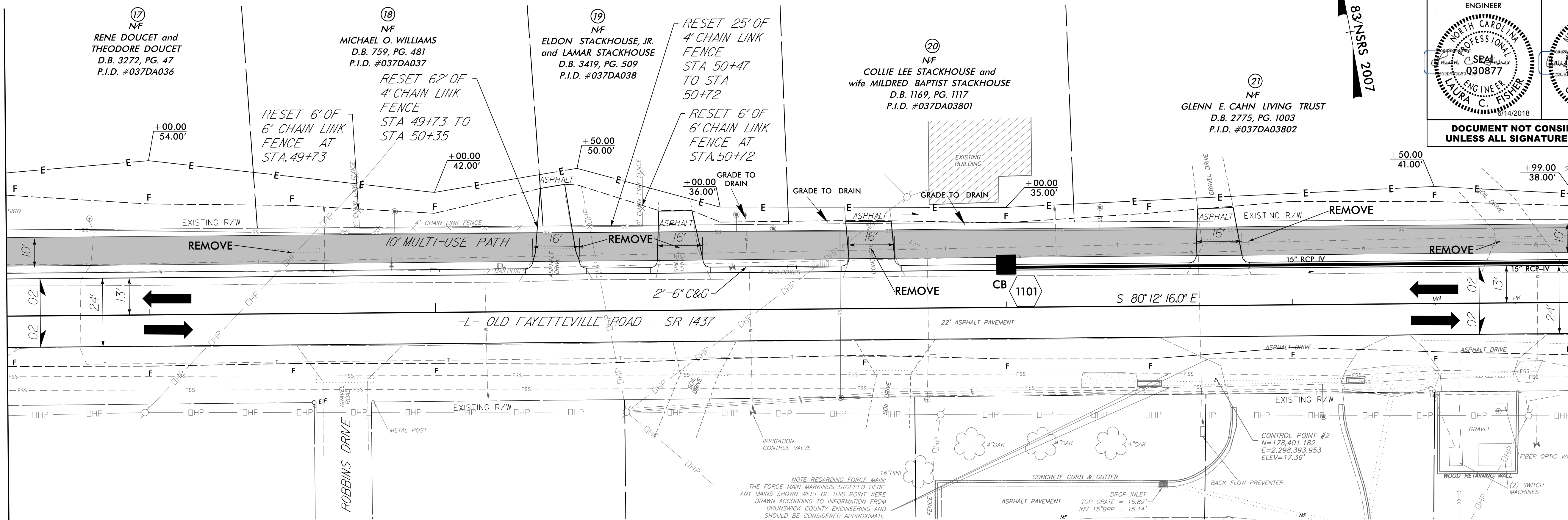
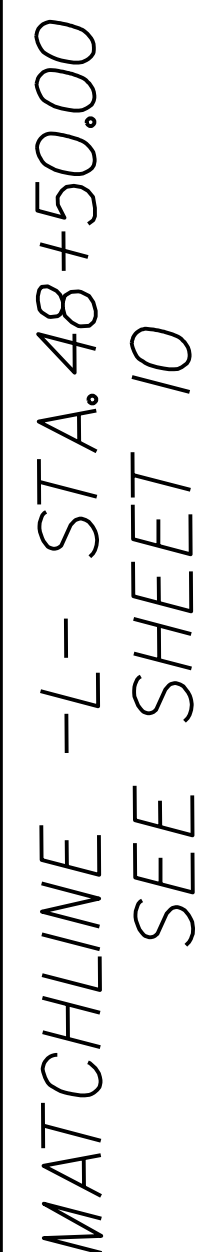
6/13/2018
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MATCHLINE -L- STA. 43+00.00
SEE SHEET 9

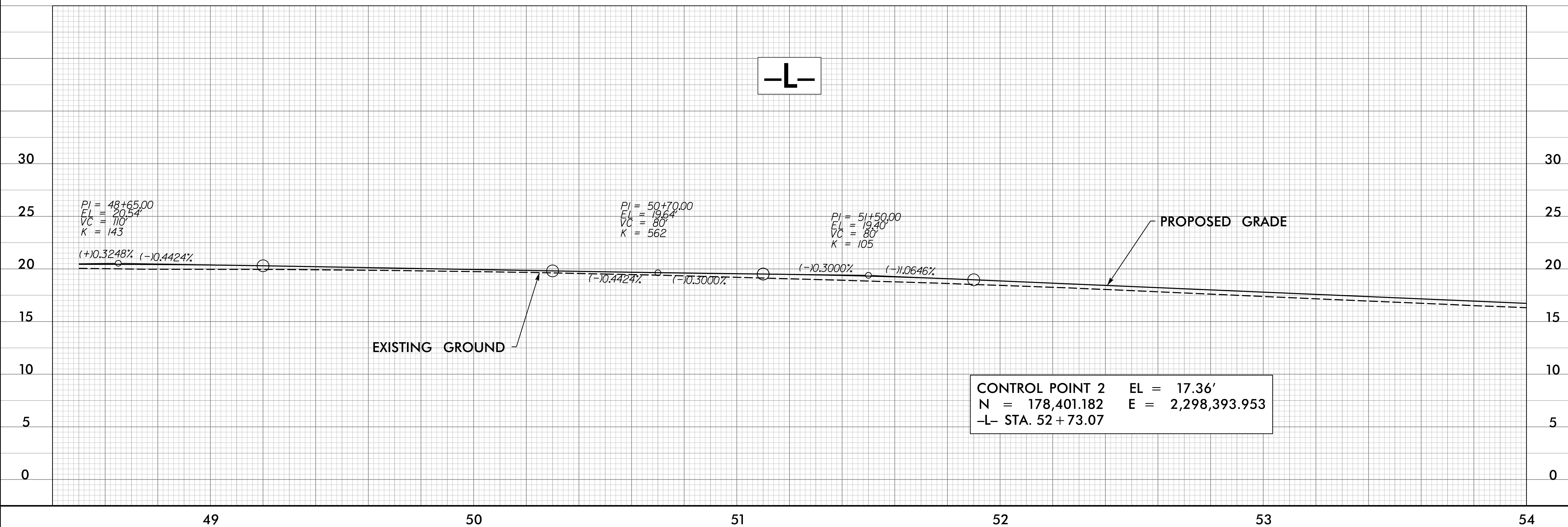


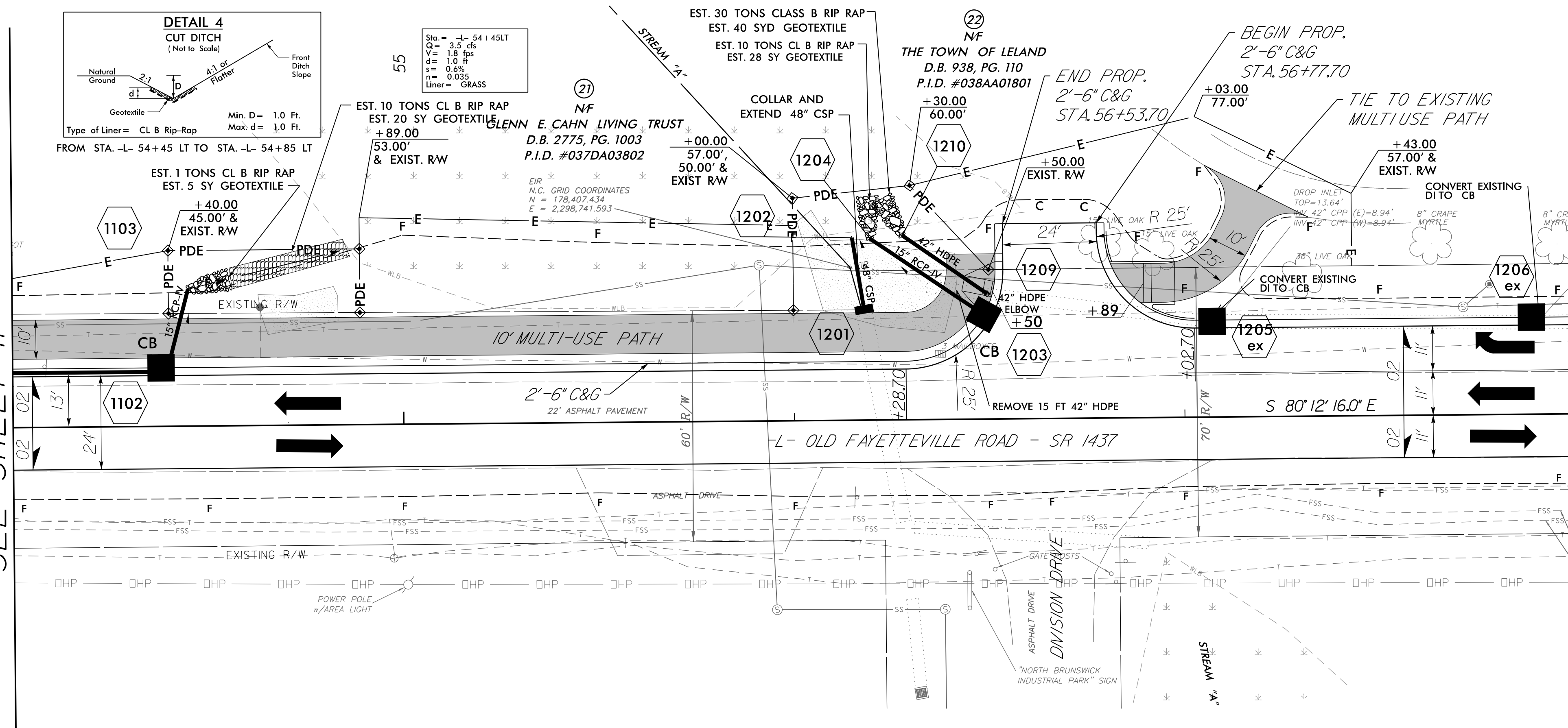
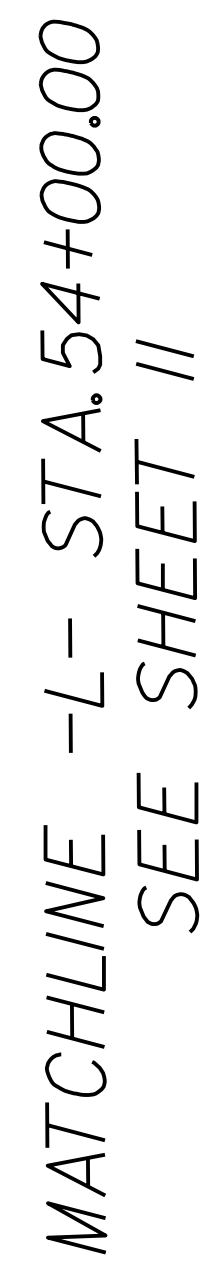
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SEE SHEET 11



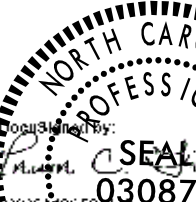


NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

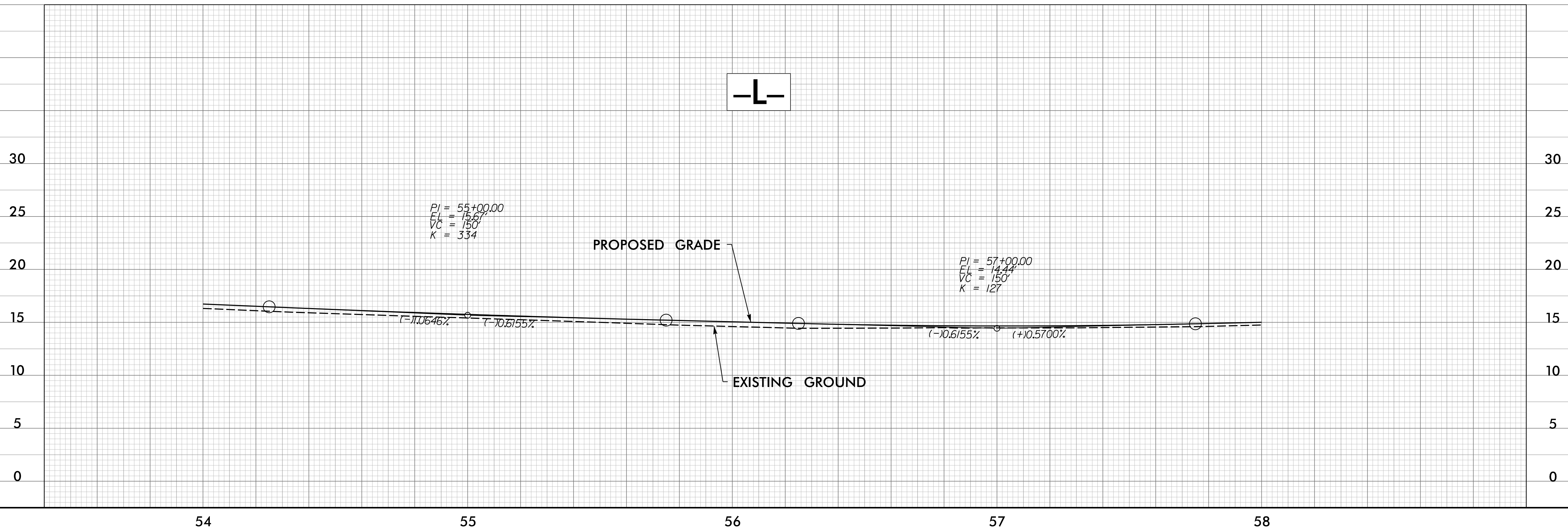




NAD 83/NSRS 2007

PROJECT REFERENCE NO.	SHEET NO.
<i>U-5534D</i>	<i>12</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
12/31/2018	12/31/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

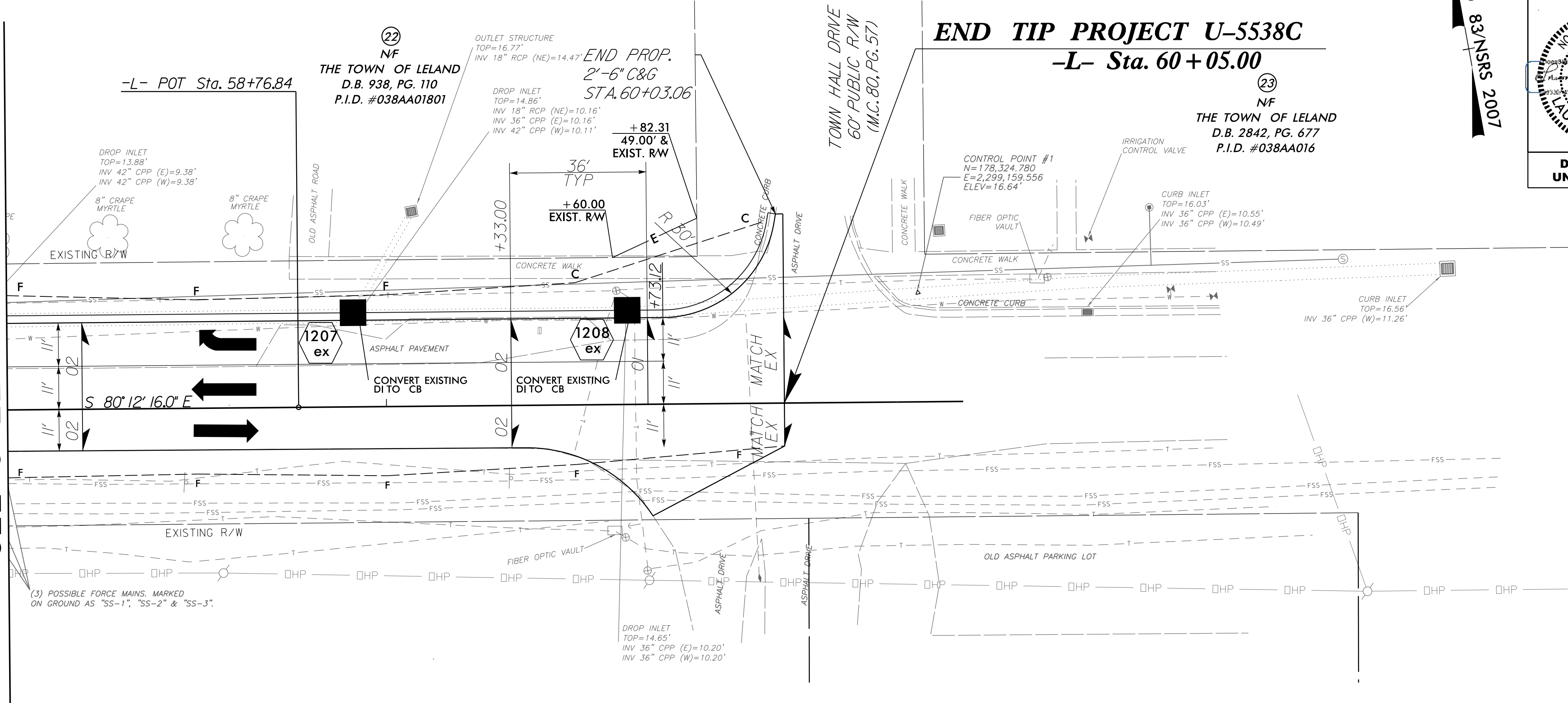


8/17/99

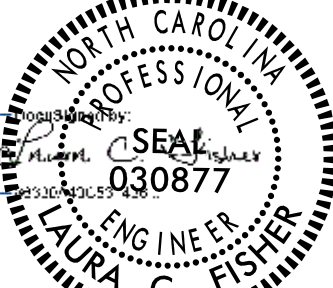
REVISIONS

6/13/2018
R:\Roadway\Proj\U5534D_Rdy_psh_13.dgn
Lisa Lamson

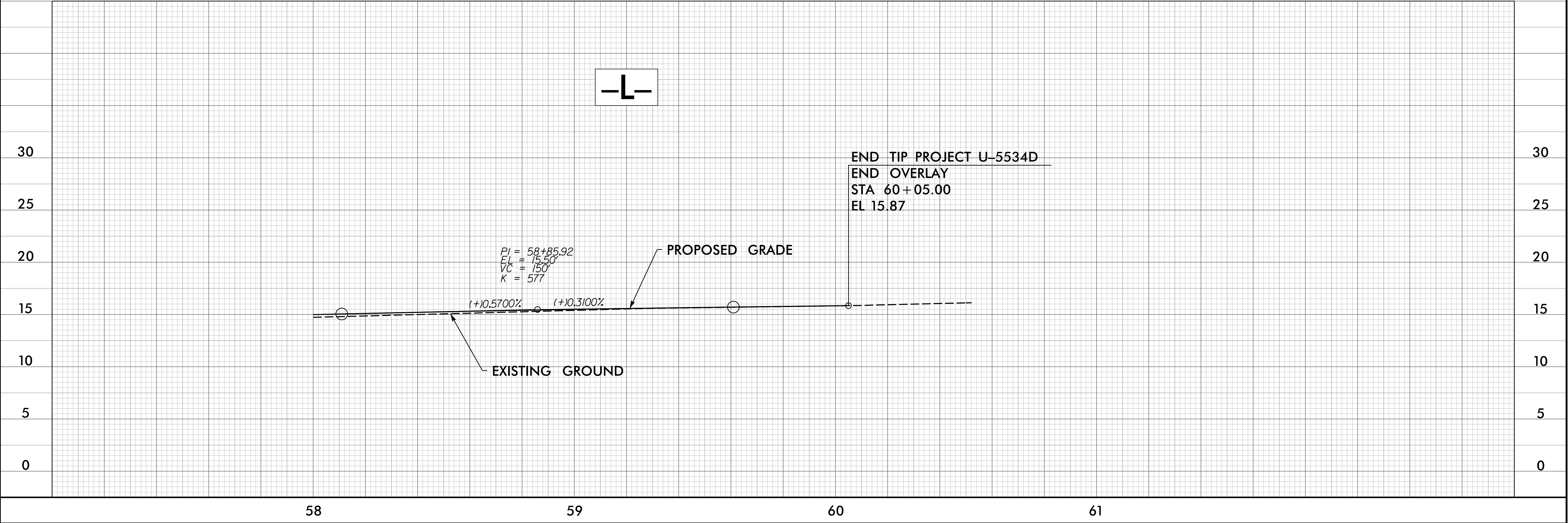
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SEE SHEET 12



NAD 83 NSRS 2007

PROJECT REFERENCE NO.		SHEET NO.	
U-5534D		13	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

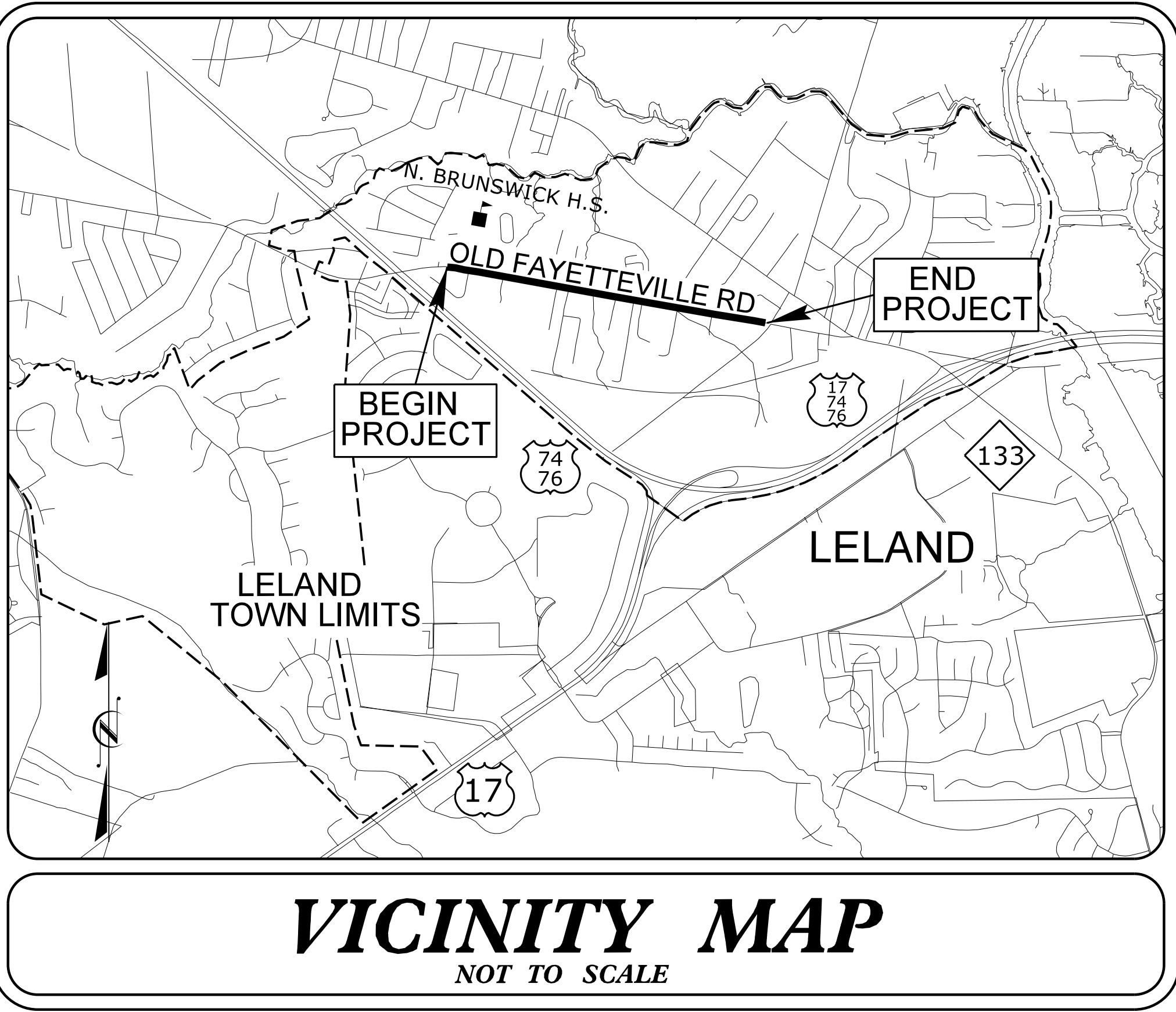
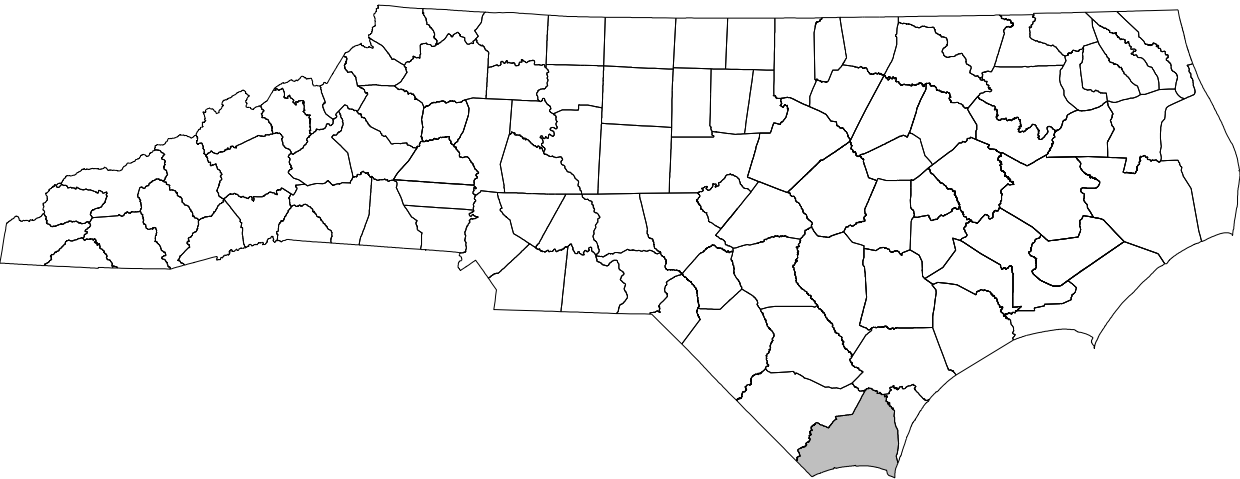


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BRUNSWICK COUNTY

TOWN OF LELAND



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-3	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-5	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL

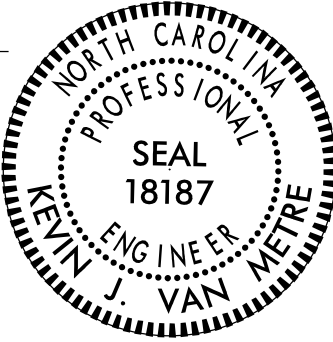
01/11/18 DATE SUBMITTED
SUBMITTAL:

- ☐ STAGING CONCEPT
☐ MIDPOINT
☐ PRE-FINAL
☒ FINAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

APPROVED: *Kevin VanMetre*
DATE: 6/15/2018

SEAL

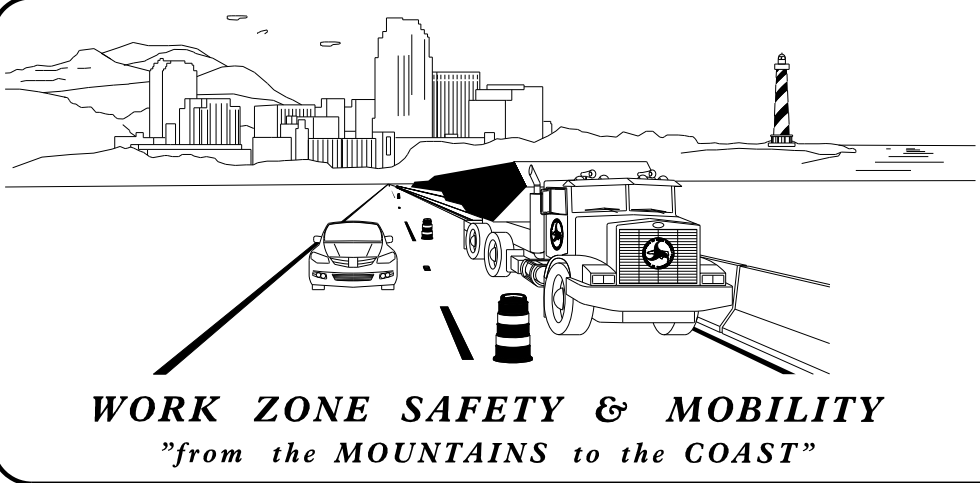


SHEET NO.

TMP-1

U-5534D

TIP PROJECT:



PLANS PREPARED BY:

KEVIN VAN METRE, P.E.

DAN SCHEEL, E.I.

NCDOT CONTACTS:

STEVE KITE, P.E.
PROJECT ENGINEER



ROADWAY STANDARD DRAWINGS

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

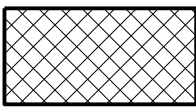
STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  TEMP. SHORING (LOCATION PURPOSES ONLY)

 WORK AREA

 REMOVAL

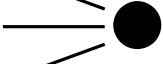
SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

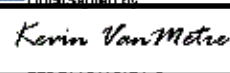
-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

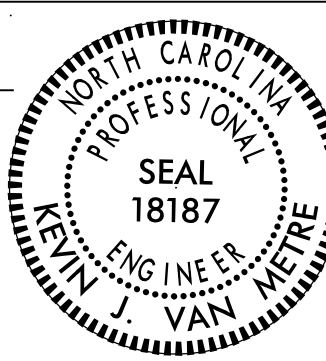
PAVEMENT MARKING SYMBOLS

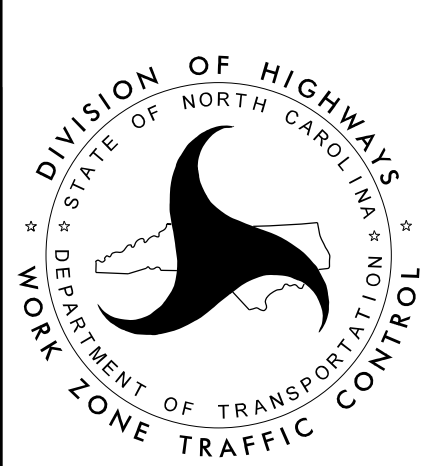
-  PAVEMENT MARKING SYMBOLS

APPROVED: 

DATE: 6/15/2018

SEAL





ROADWAY STANDARD
DRAWINGS & LEGEND

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJ. REFERENCE NO.	SHEET NO.
U-5534D	TMP-1B

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESired OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
OLD FAYETTEVILLE RD (SR 1437)	MON. - FRI. 6:30 A.M. TO 8:30 A.M.
	MON. - FRI. 1:30 P.M. TO 3:30 P.M.
	(SEE LOCAL NOTE S)

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

OLD FAYETTEVILLE RD (SR 1437)

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY
THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE
INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER
INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

LANE AND SHOULDER CLOSURE REQUIREMENTS (CONT.)

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

F) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

G) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH
POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

H) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 150' IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

I) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

J) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

K) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

L) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 150' IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

M) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

N) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

0) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

LOCAL NOTES

P) CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

Q) CONES OR SKINNY DRUMS MAY BE USED IN LIEU OF DRUMS.

R) CONTRACTOR SHALL NOT EXCEED MORE THAN 2,000' OF LANE CLOSURE AT ONE TIME UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

S) COORDINATE WITH SCHOOL OFFICIALS AT NORTH BRUNSWICK HIGH SCHOOL SO THERE ARE NO CLOSURES DURING THE HOURS OF HIGH SCHOOL BUS TRAFFIC OR SPECIAL SCHOOL EVENTS.

T) ONE LANE-TWO WAY OPERATIONS RESTRICTED TO DAYLIGHT HOURS.

PHASING

PHASE I

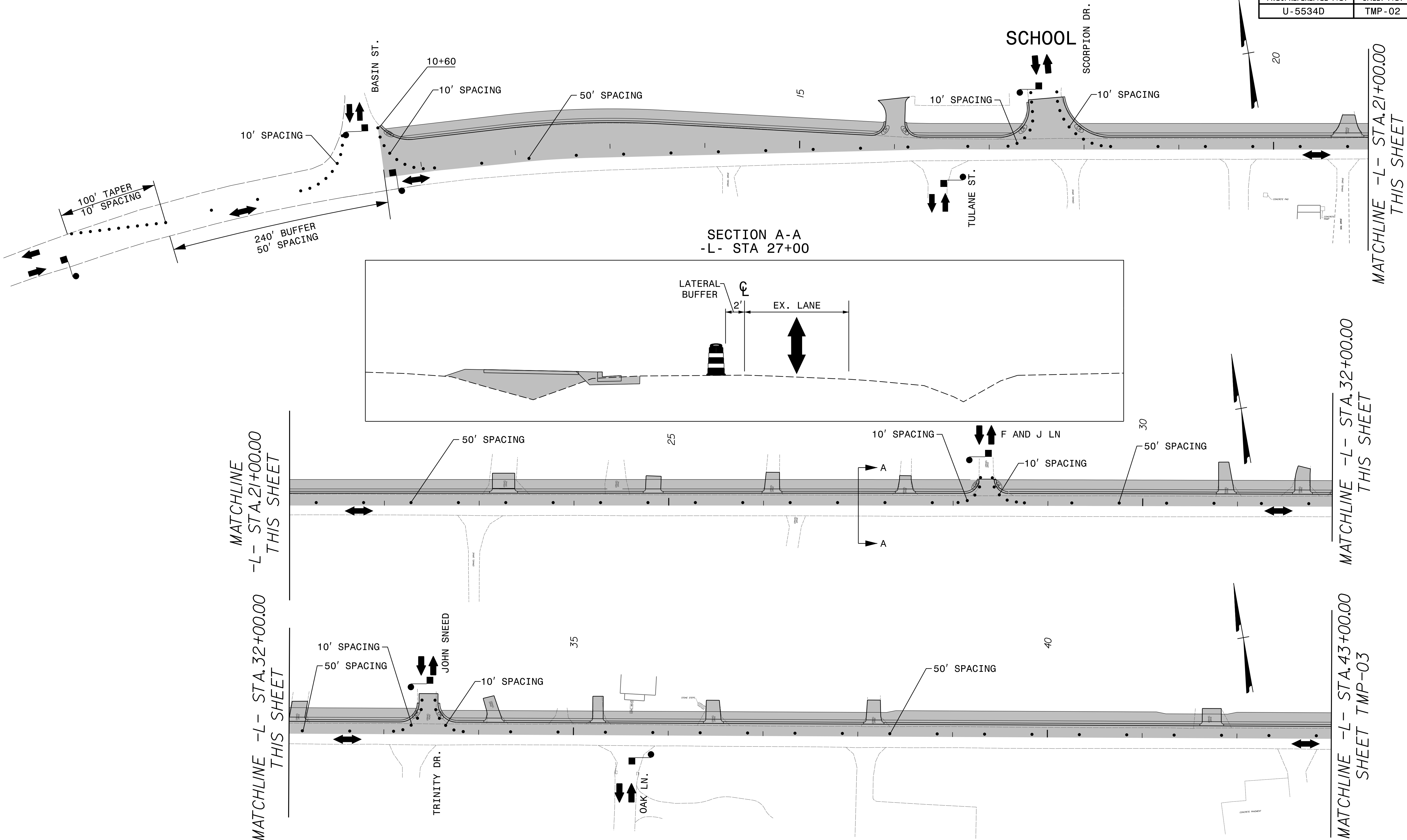
- 1) PRIOR TO ANY CONSTRUCTION INSTALL ADVANCE WARNING SIGNS USING RSD. 1101.01 SHEET 3 OF 3 AND RSD. 1101.02 SHEET 1 OF 14
- 2) USING RSD 1101.02 SHEET 1 OF 14. BUILD NARROW WIDENING, CURB AND GUTTER, AND MULTI-USE PATH FROM STA 10+60 LT TO 60+05 LT. WEDGE AND WIDEN UP INCLUDING THE FINAL SURFACE COURSE. (SEE NOTE R.)

PHASE II

- 1) USING RSD 1101.02 SHEET 1 OF 14. PLACE FINAL SURFACE COURSE AND GRADE EXISTING SHOULDER TO MATCH FINISHED PAVEMENT FROM STA 10+60 RT TO 60+05 RT. (SEE NOTE R.) PLACE FINAL PAVEMENT MARKINGS. OPEN TO FINAL 2-WAY 2-LANE TRAFFIC.

6/13/2018
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isa jamison

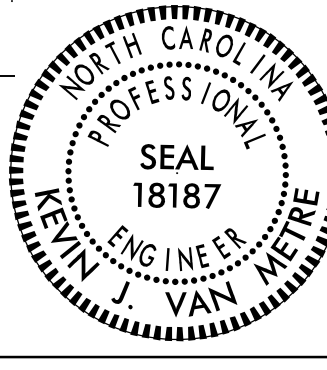
PROJ. REFERENCE NO.	SHEET NO.
U - 5534D	TMP - 02



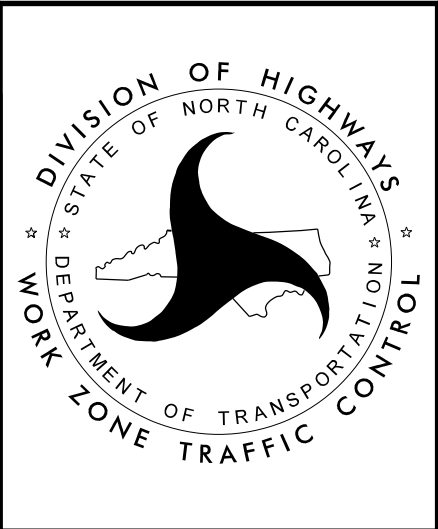
NOTE: ENTIRE NORTH SIDE NOT TO BE CONSTRUCTED AT SAME TIME.
SEE NOTE R.

APPROVED: 
DATE: 6/15/2018

SEAL



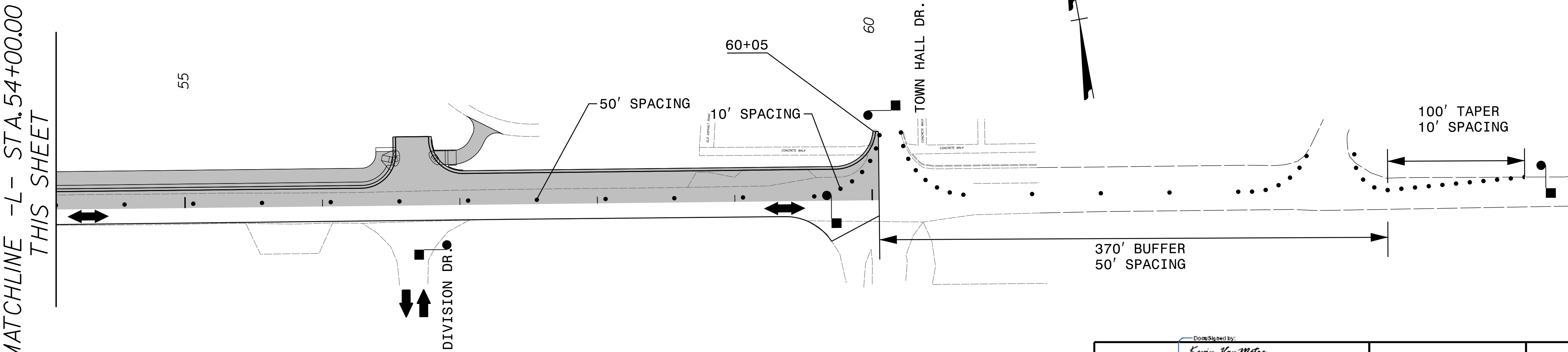
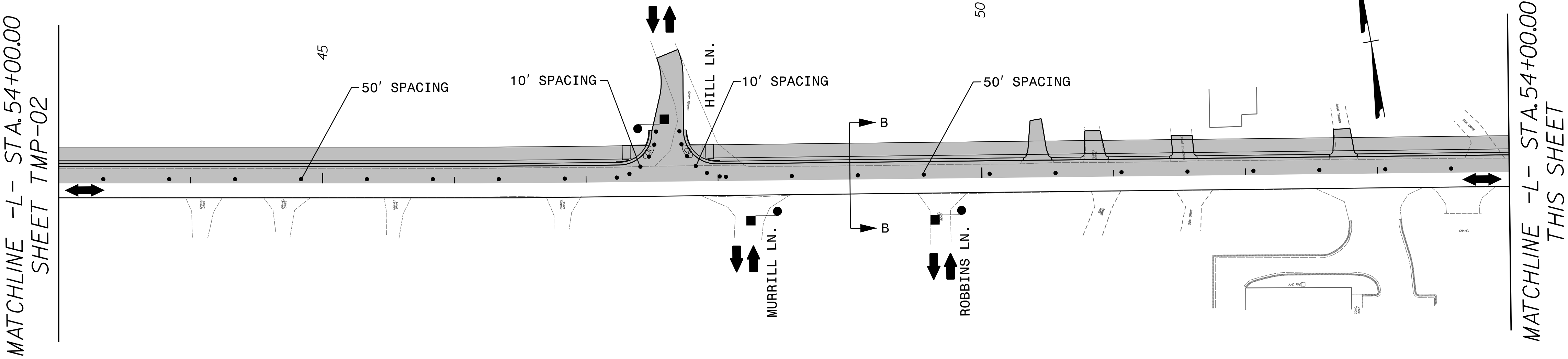
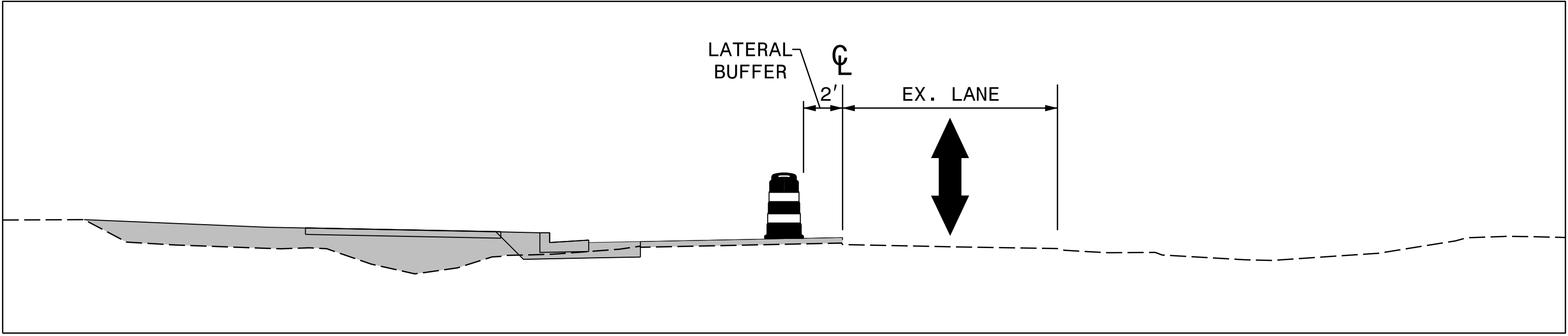
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PHASE I
DETAIL

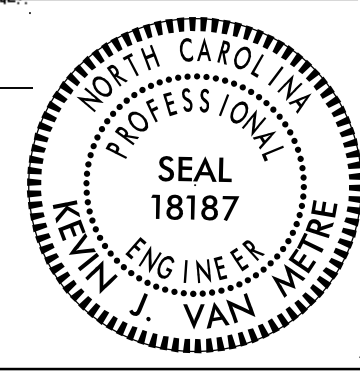
PROJ. REFERENCE NO.	SHEET NO.
U - 5534D	TMP - 03

SECTION B-B
-L- STA 49+00

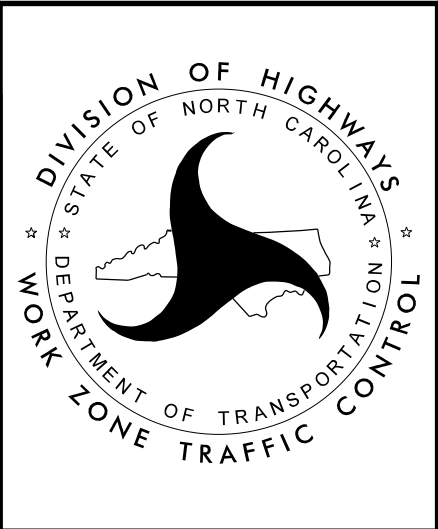


NOTE: ENTIRE NORTH SIDE NOT TO BE CONSTRUCTED AT SAME TIME.
SEE NOTE R.

APPROVED: 
DATE: 6/15/2018

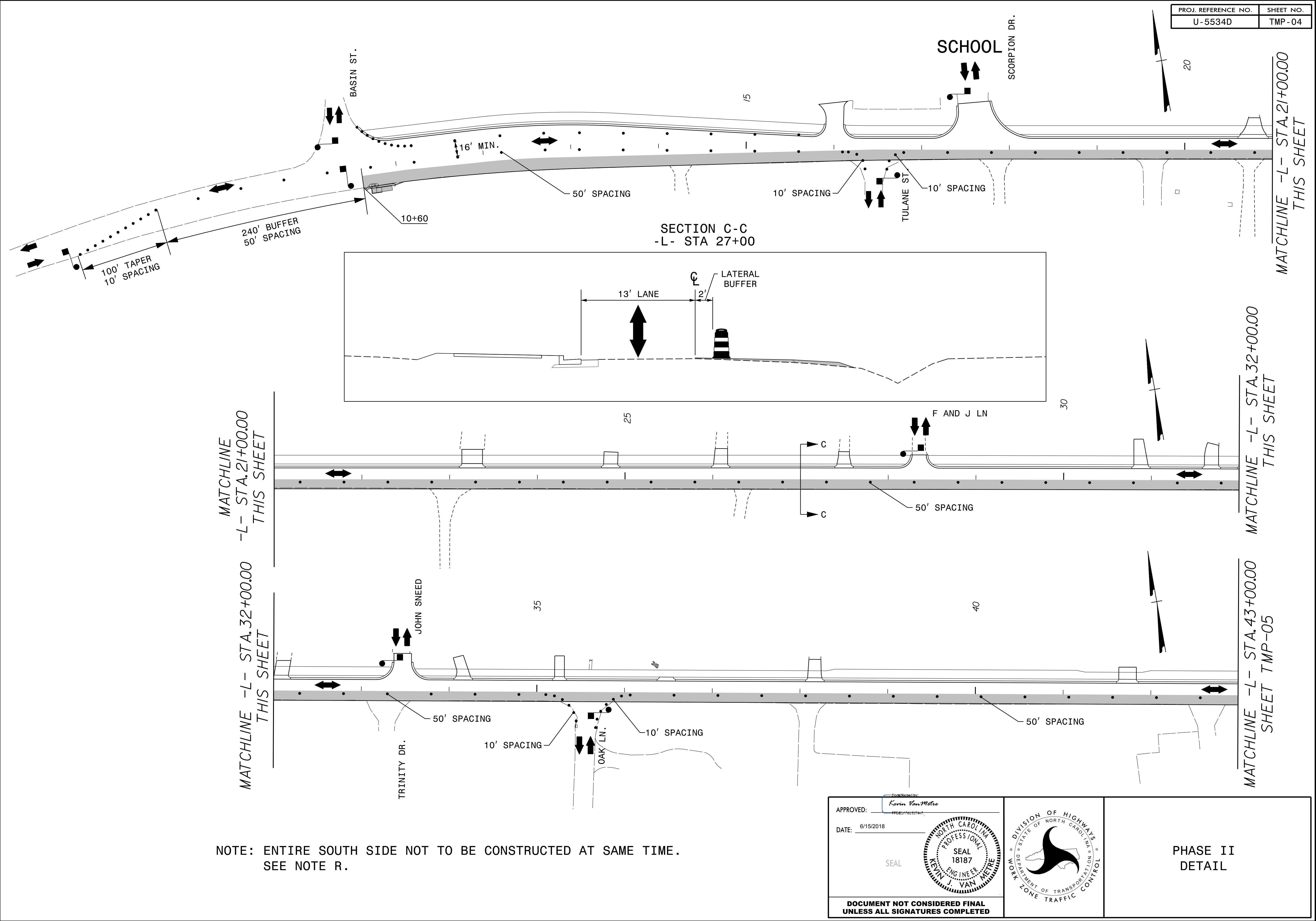
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DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



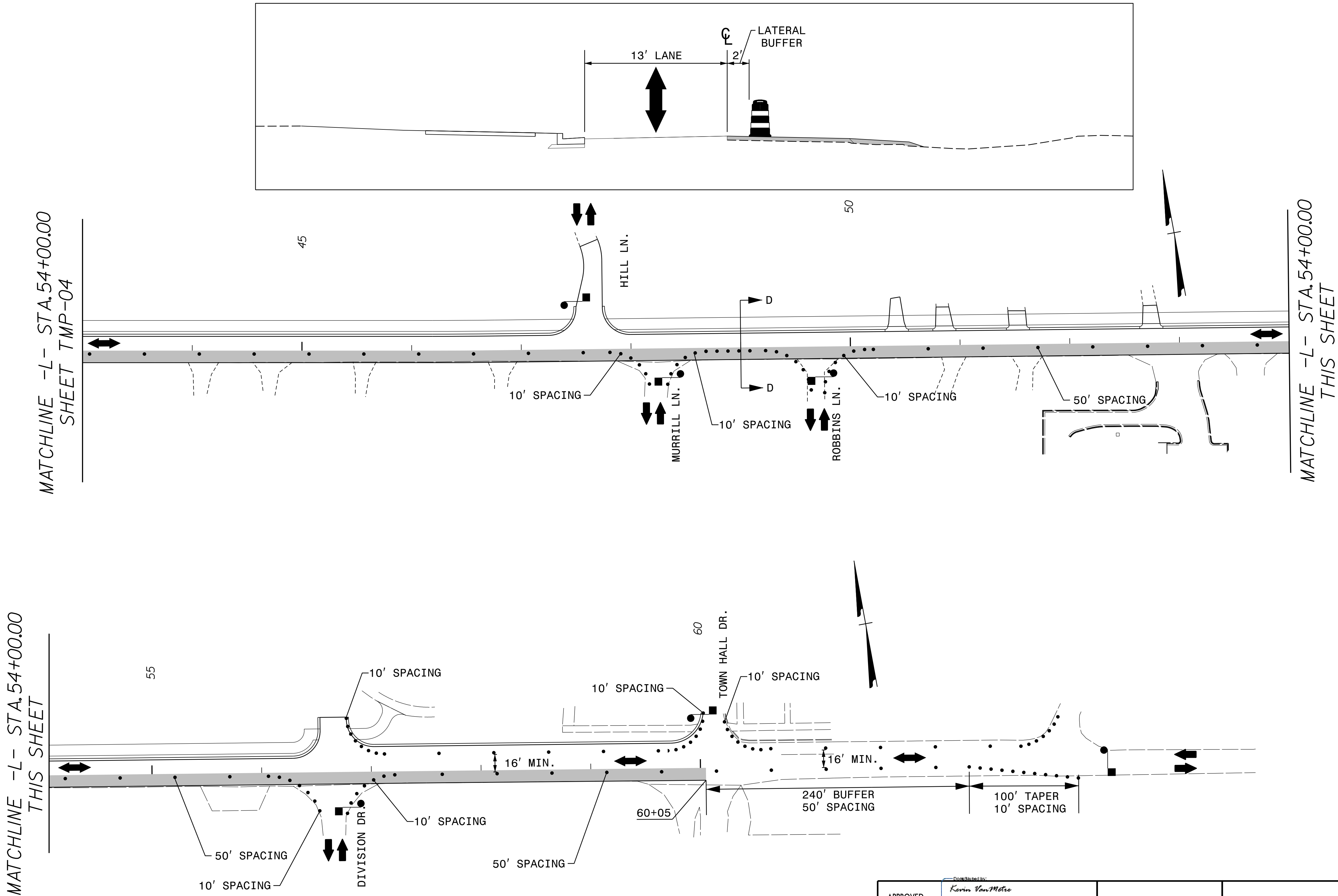
PHASE I
DETAIL

6/13/2018
R:\Traffic\TrafficControl\TC_TMP_PSH_04.dgn
lisa.jamison



PROJ. REFERENCE NO.	SHEET NO.
U-5534D	TMP-05

SECTION D-D
-L- STA 49+00

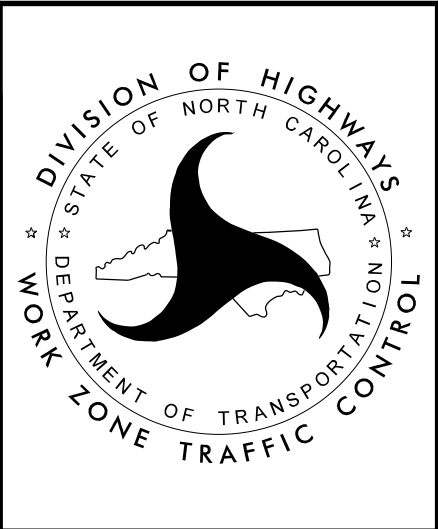


NOTE: ENTIRE SOUTH SIDE NOT TO BE CONSTRUCTED AT SAME TIME.
SEE NOTE R.

APPROVED: *Karin VanMetre*
DATE: 6/15/2018

SEAL

SEAL
18187
K. VAN METRE
ENGINEER



PHASE II
DETAIL

03/18/20
P:\Norrisville\U-5534D_OLD_FAYETTEVILLE.RD\900_Work\910_CAD\70_NCDOT_TIP\Traffic\NMP\U5534D_TC_PMP_01.dgn
elizabeth

CONTRACT:

T.I.P.: U-5534D

TOWN OF LELAND

PAVEMENT MARKING & SIGNING PLAN
BRUNSWICK COUNTY

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2 THRU 6	PAVEMENT MARKING DETAIL

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.50	MOUNTING OF TYPE 'D','E' AND 'F' SIGNS ON 'U' CHANNEL POST
910.20	SIGNING SCHOOL ZONE WITH MARKED CROSSWALK WHERE SPEED REDUCTION IS REQUIRED
1145.01	TYPE III BARRICADE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE OF LANE DIVIDED LINES, PER STANDARD DRAWINGS, AS FOLLOWS:

ROAD NAME	MARKING	MARKER
OLD FAYETTEVILLE ROAD	THERMOPLASTIC	RAISED
SCORPION DRIVE	THERMOPLASTIC	RAISED

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

F) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

G) SEE ROADWAY PLANS FOR ALTERNATIVE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
T2	WHITE STOPBAR (24" 90 MIL)
T3	WHITE CROSSWALK LINE (24" 90 MIL)
T8	2 FT. - 6 FT./SP WHITE MINISKIP (4" 90 MIL)
TA	WHITE EDGELINE (4" 90 MIL)
TD	3 FT. - 9 FT./SP WHITE MINISKIP (4" 90 MIL)
TE	WHITE SOLID LANE LINE (4" 90 MIL)
TF	10 FT. YELLOW SKIP (4" 90 MIL)
TH	YELLOW SINGLE CENTER (4" 90 MIL)
TI	YELLOW DOUBLE CENTER (4" 90 MIL)
TU	WHITE DIAGONAL (12" 90 MIL)
TV	YELLOW DIAGONAL (12" 90 MIL)
UA	LEFT TURN ARROW (90 MIL)
UB	RIGHT TURN ARROW (90 MIL)
UI	ALPHANUMERIC CHAR. (90 MIL)

400 QUANTITY REQUIRED <u>1</u> STOP 36" x 36" R1-1 ONE 'U' POST PER SIGN	401 QUANTITY REQUIRED <u>3</u> STOP 30" x 30" R1-1 ONE 'U' POST PER SIGN	402 QUANTITY REQUIRED <u>1</u> END SCHOOL ZONE 24" x 30" S5-2 ONE 'U' POST PER SIGN	403 QUANTITY REQUIRED <u>1</u> SCHOOL 36" x 36" S1-1 24" x 8" S4-3P ONE 'U' POST PER SIGN	404 QUANTITY REQUIRED <u>1</u> SPEED LIMIT 45 24" x 30" R2-1 ONE 'U' POST PER SIGN
---	---	--	---	---

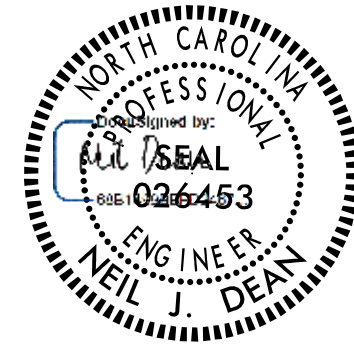
PLAN PREPARED BY: AECOM

NEIL J. DEAN, P.E. SIGNING & DELINEATION STANDARDS ENGINEER

TRAVIS L. HEPLER SIGNING & DELINEATION PROJECT DESIGN ENGINEER

AECOM

NC FIRM LICENSE No: F-0342
701 Corporate Center Drive,
Suite 475 Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

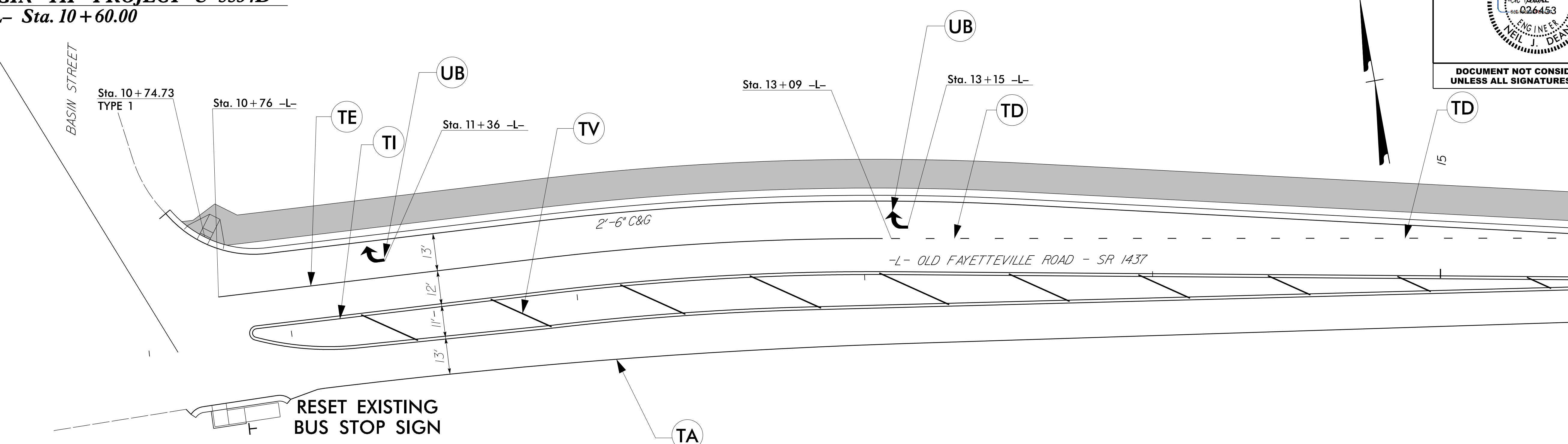


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

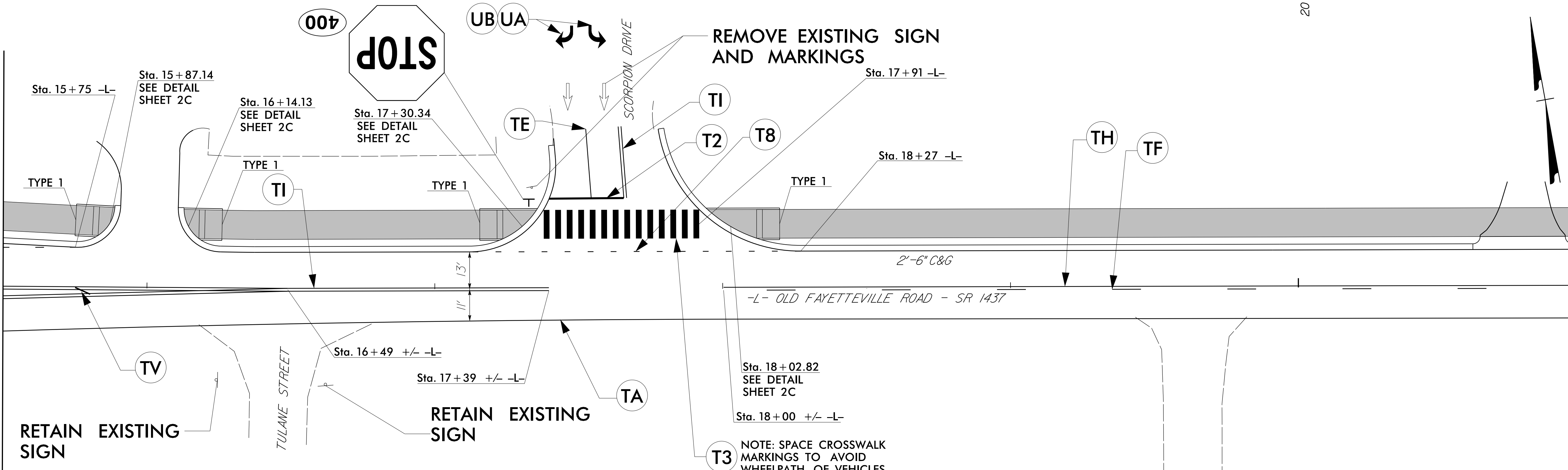
NOTE: BEGIN RESURFACING AND PAVEMENT MARKING REPLACEMENT IN-KIND AT BRIDGE WITH TIE-IN MILLING AT BRIDGE SLAB

BEGIN TIP PROJECT U-5534D
-L- Sta. 10 + 60.00

MATCH LINE STA 15 + 50
SEE THIS SHEET



MATCH LINE STA 15 + 50
SEE THIS SHEET



TIP NO.	SHEET NO.
U-5534D	PMP-2
APPROVED: _____	
DATE: 3/19/2020	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCH LINE STA 15 + 50
SEE THIS SHEET

MATCH LINE STA 21 + 00
SEE SHEET PMP-3

PAVEMENT MARKING DETAIL

TIP NO.
U - 5534D

SHEET NO.
PMP - 3

APPROVED: _____
DATE: 3/19/2020

SEAL

NORTH CAROLINA

REGISTERED PROFESSIONAL

NEIL J. DEAN

ENGINEER

026453

SEAL

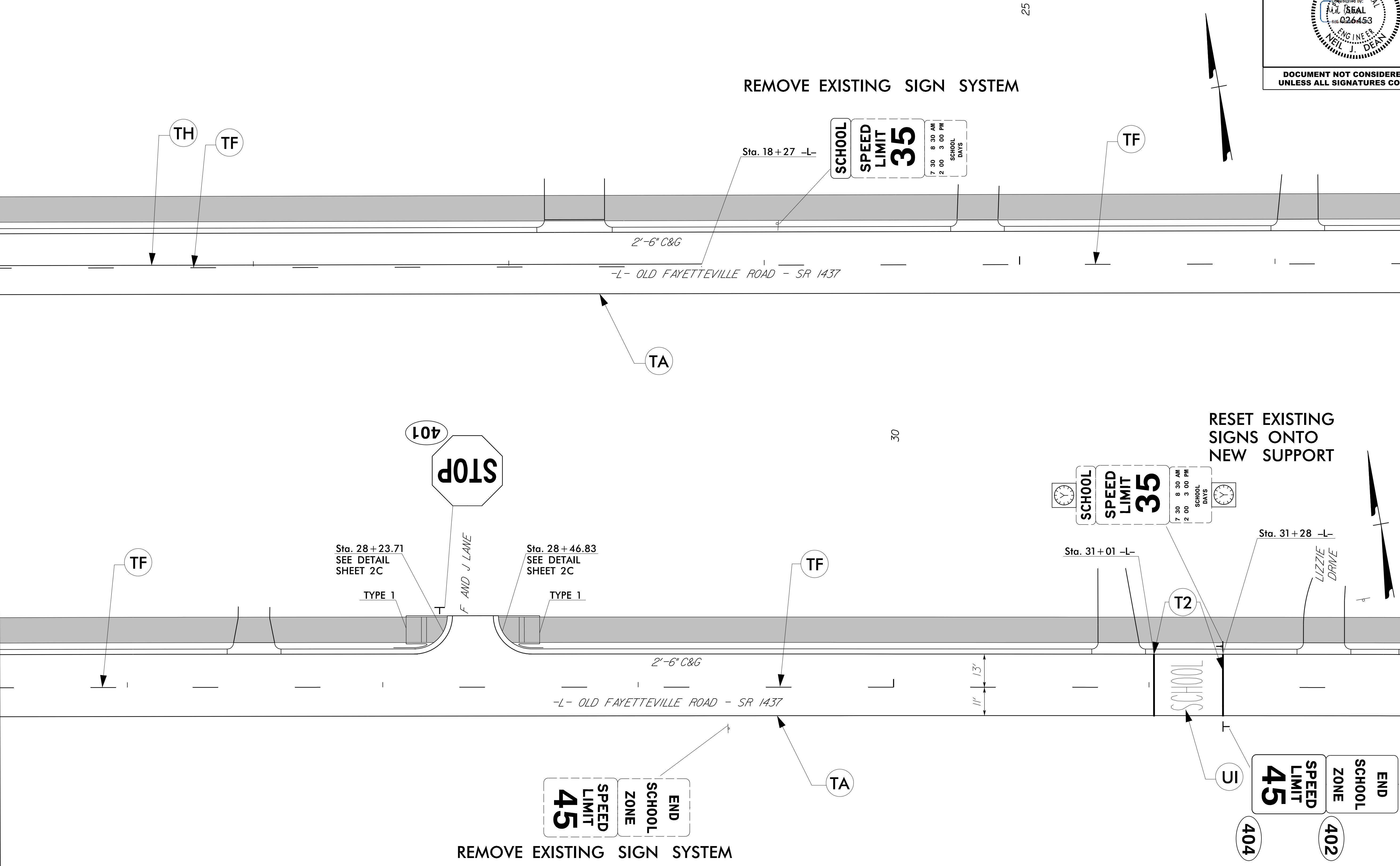
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

MATCH LINE STA 21+00
SEE SHEET PMP-2

MATCH LINE STA 26+50
SEE THIS SHEET

MATCH LINE STA 26+50
SEE THIS SHEET

MATCH LINE STA 32+00
SEE SHEET PMP-4



PAVEMENT MARKING DETAIL

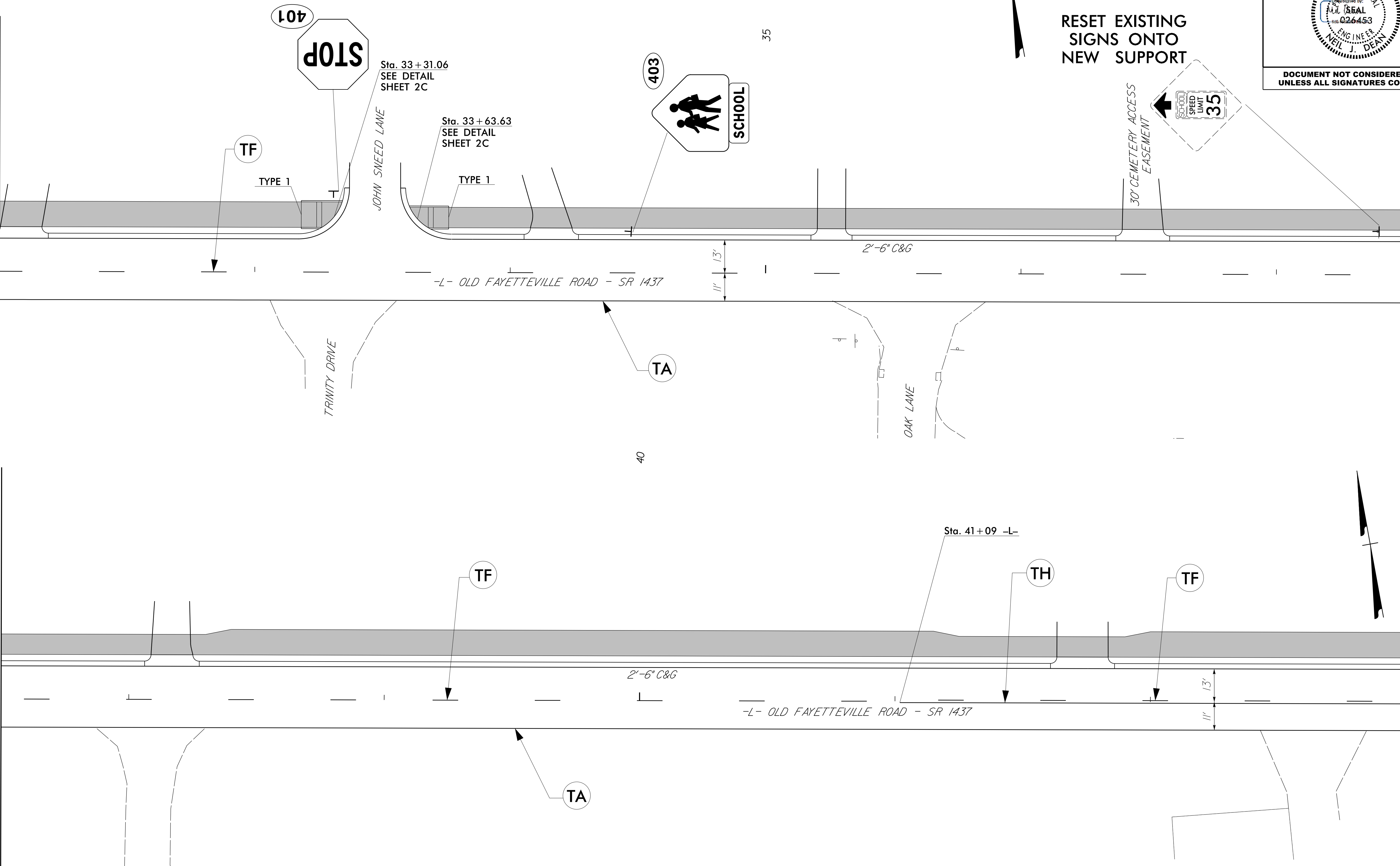
TIP NO.	SHEET NO.
U-5534D	PMP-4
APPROVED: _____	
DATE: 3/19/2020	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCH LINE STA 32+00
SEE SHEET PMP-3

MATCH LINE STA 37+50
SEE THIS SHEET

MATCH LINE STA 37+50
SEE THIS SHEET

MATCH LINE STA 43+00
SEE SHEET PMP-5

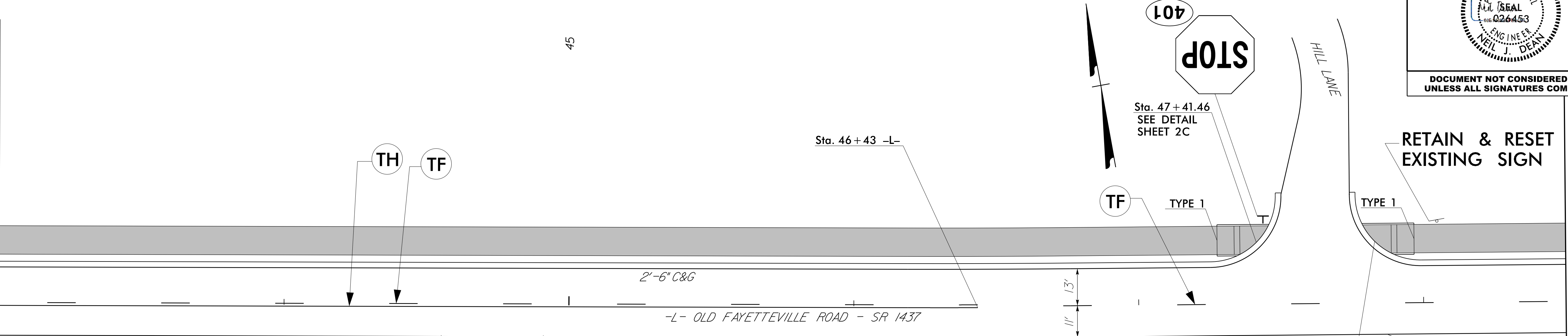


RESET EXISTING
SIGNS ONTO
NEW SUPPORT

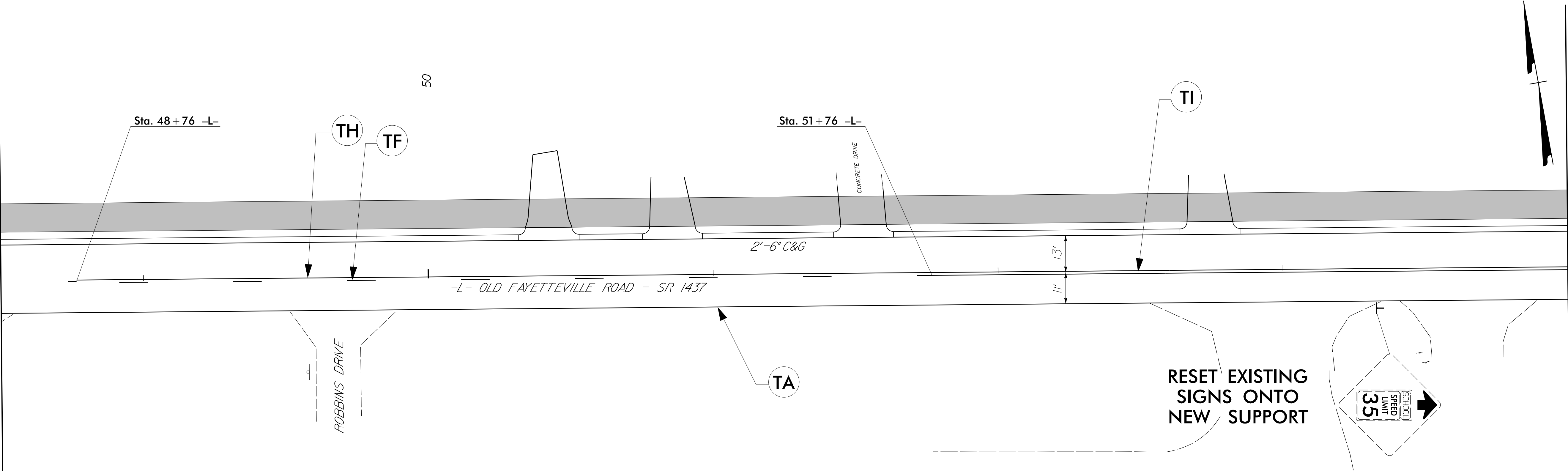
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
U-5534D	PMP-5
APPROVED: _____	
DATE: 3/19/2020	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCH LINE STA 43 + 00
SEE SHEET PMP-4



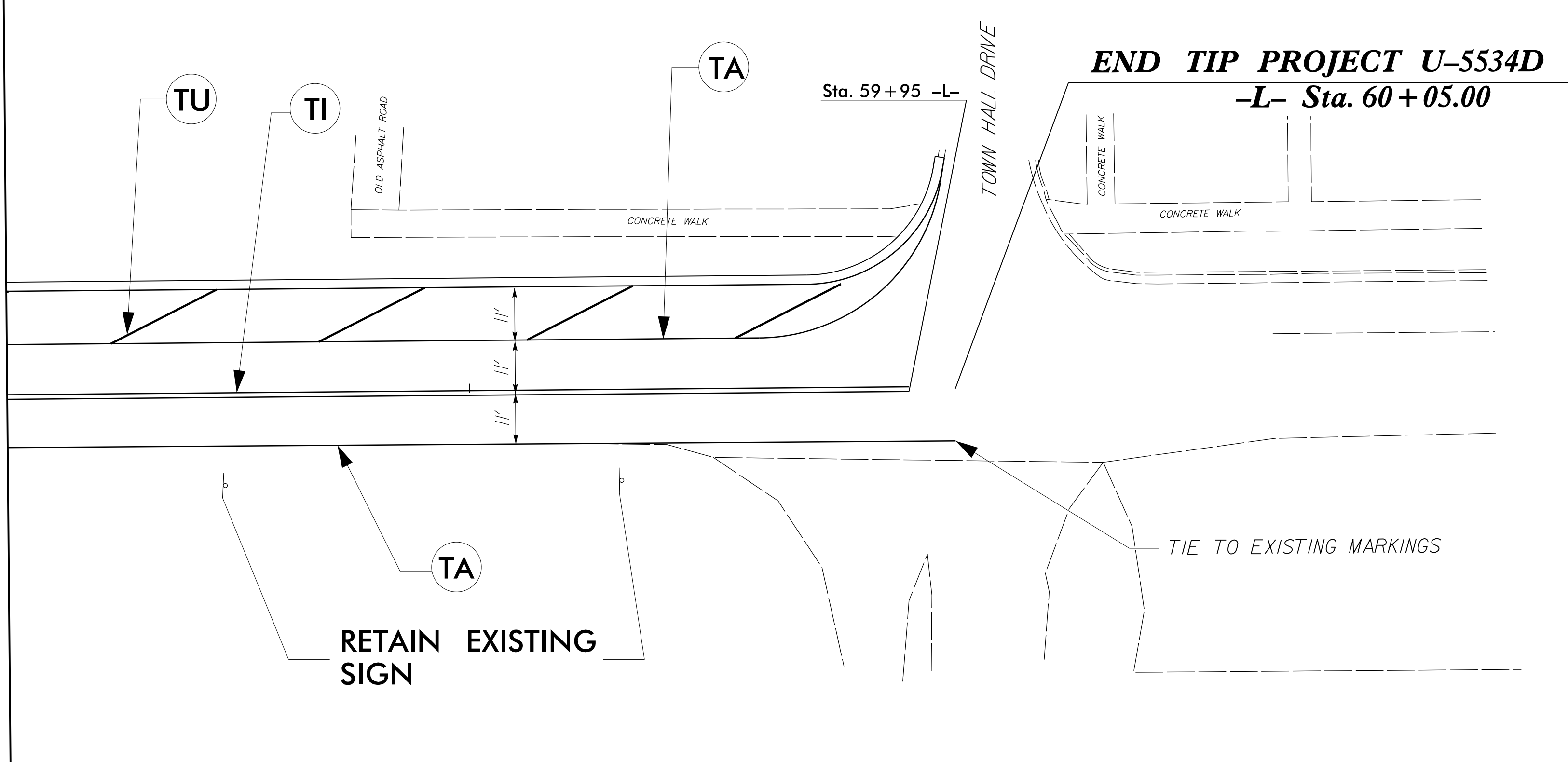
MATCH LINE STA 48 + 50
SEE THIS SHEET



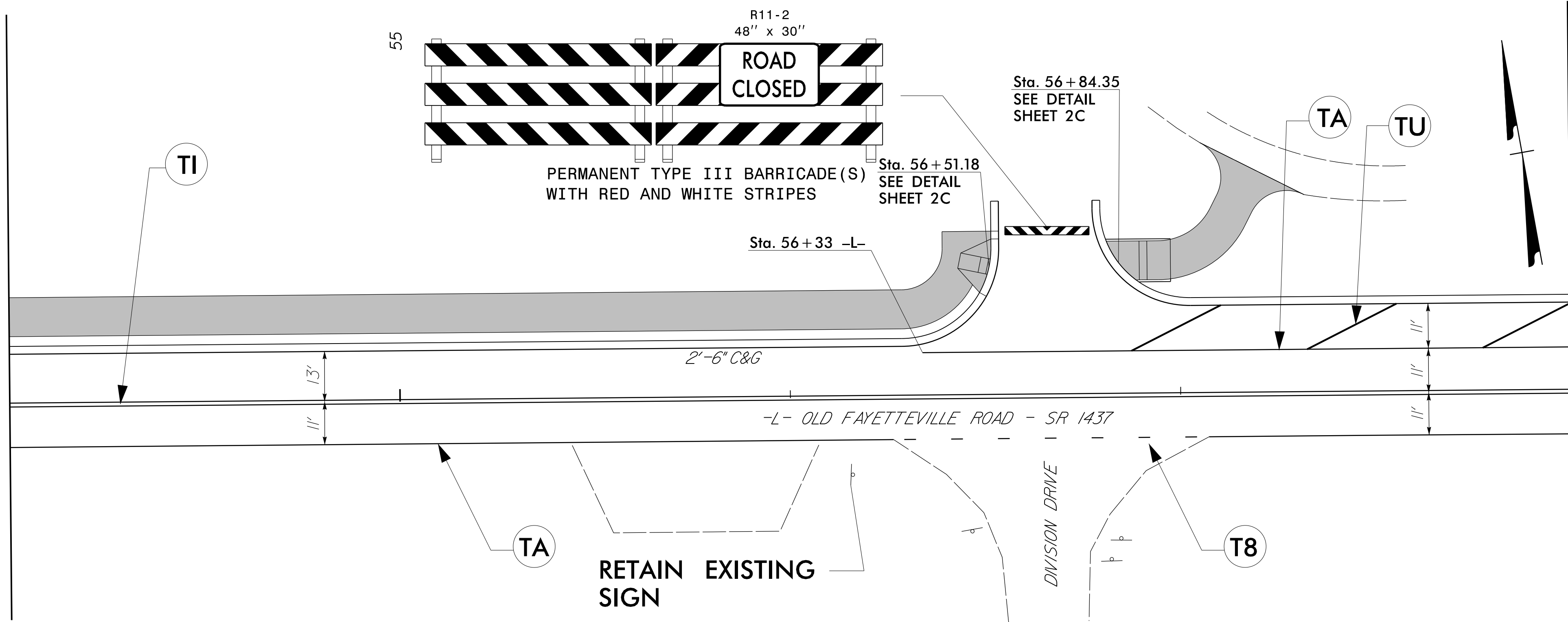
PAVEMENT MARKING DETAIL

03/18/20
P:\Worrrisville\Jobs\U-5534D_OLD_FAYETTEVILLE_RD\900_Wor-K\910_CAD\TO_NCDOT_TIP\Trafic\PMU\U5534D_TC_PMP_06.dgn
elizabeth.hunter

MATCH LINE STA 58 + 00
SEE THIS SHEET



MATCH LINE STA 54 + 00
SEE SHEET PMP-5



MATCH LINE STA 58 + 00
SEE THIS SHEET

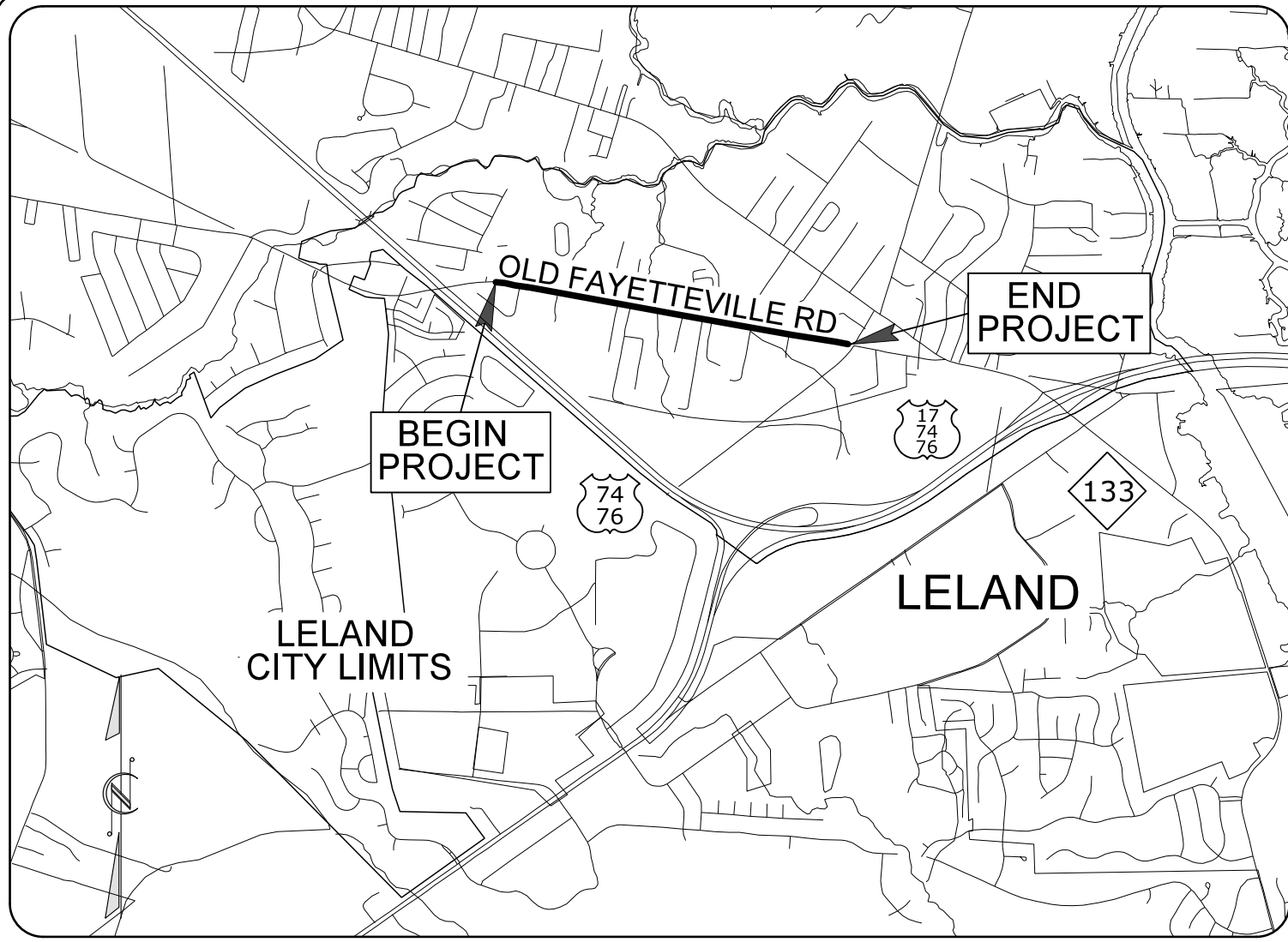
TIP NO.	SHEET NO.
U - 5534D	PMP - 6
APPROVED: _____	
DATE: 3/19/2020	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PAVEMENT MARKING DETAIL

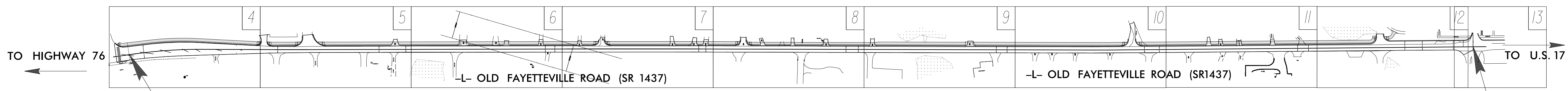
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TIP PROJECT: U-5534D
CONTRACT:

See Sheet 1-A For Index of Sheets
See Sheet 1B For Conventional Symbols

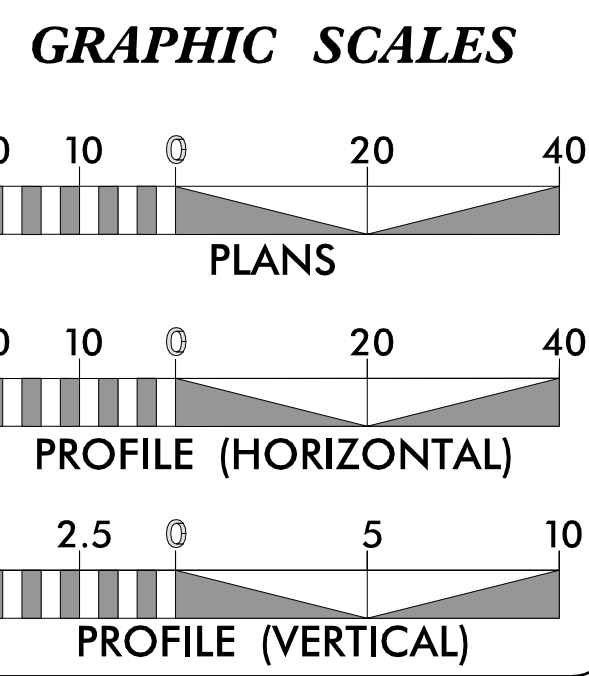


VICINITY MAP
NOT TO SCALE



BEGIN TIP PROJECT U-5534D
-L- STA. 11+09.00

END TIP PROJECT U-5534D
-L- STA. 60+05.00



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared in the Office of:
AECOM
Firm License No. F-0342
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
(919) 854-6200 (919) 854-6259 (Fax)

Designed by:
RENE REMY CPESC, CPSWQ 3125
NAME LEVEL III CERTIFICATION NO.

Reviewed in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Reviewed by:
MARK STALEY, CPESC, CPSWQ

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

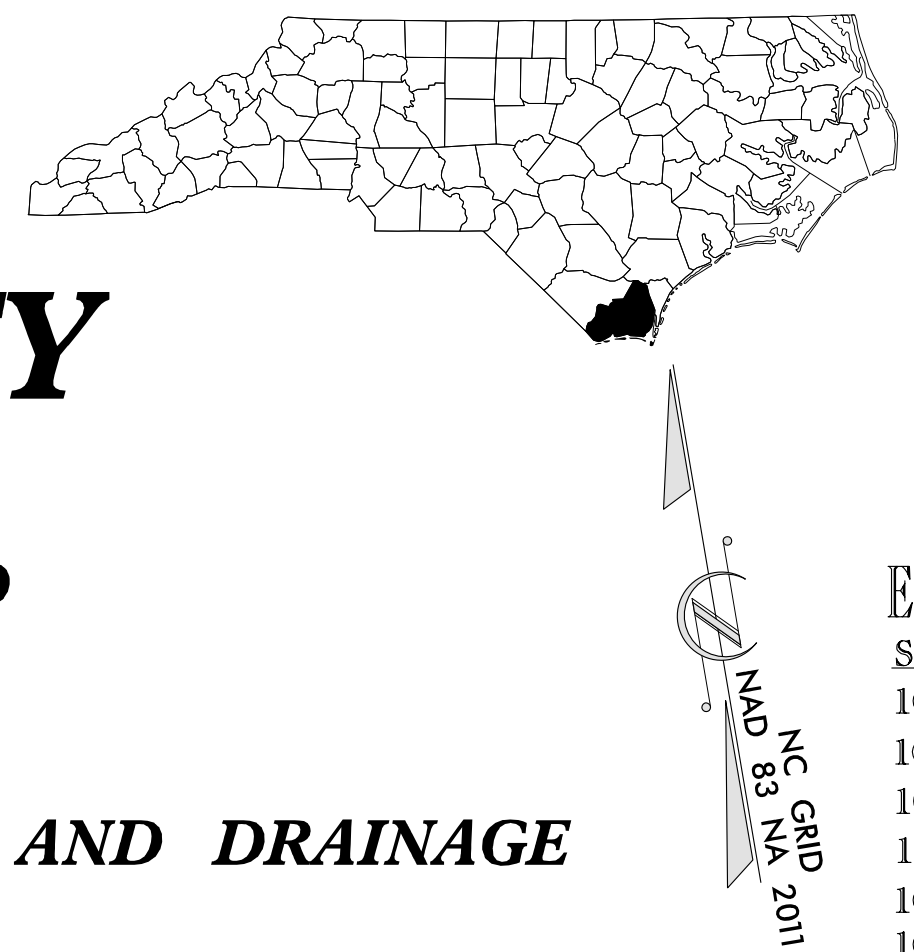


TOWN OF LELAND

BRUNSWICK COUNTY

LOCATION: OLD FAYETTEVILLE ROAD, LELAND
BETWEEN US 74/76 AND SR TOWN HALL DR

TYPE OF WORK: GRADING, PAVING, WIDENING, AND DRAINAGE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5534D	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TD
1606.01	Special Sediment Control Fence	TD
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	TD
1633.01	Temporary Rock Silt Check Type-A	TD
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TD
1633.02	Temporary Rock Silt Check Type-B	TD
	Wattle / Coir Fiber Wattle	TD
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	TD
1634.01	Temporary Rock Sediment Dam Type-A	TD
1634.02	Temporary Rock Sediment Dam Type-B	TD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	TD
1635.02	Rock Pipe Inlet Sediment Trap Type-B	TD

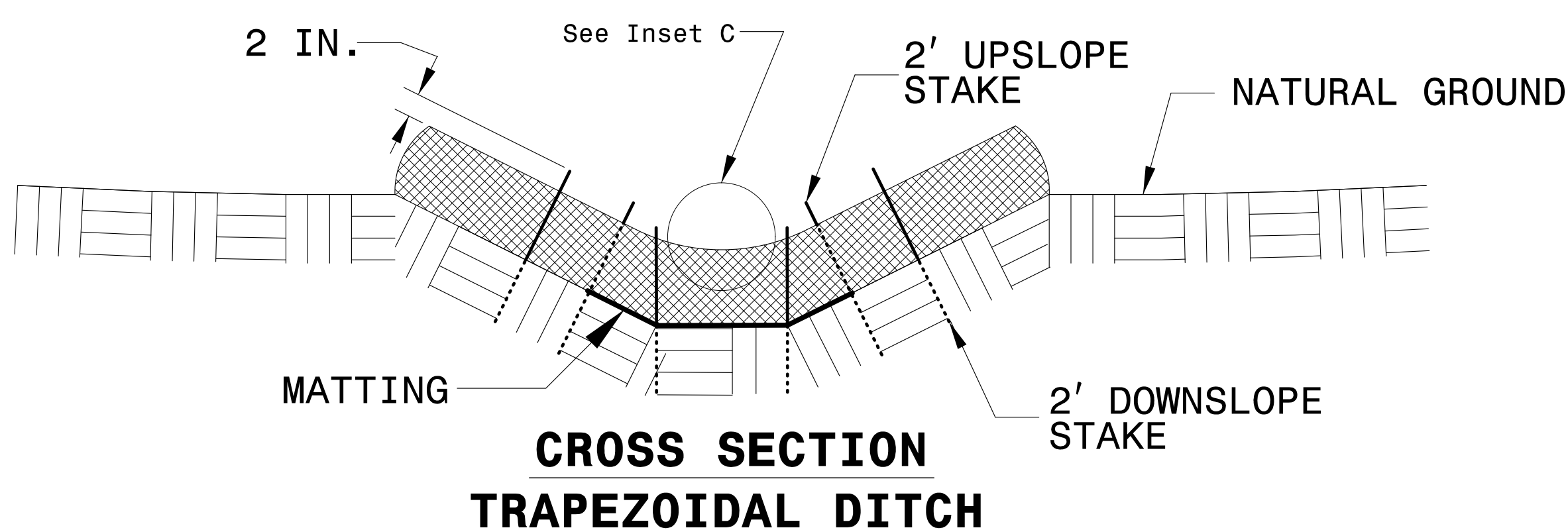
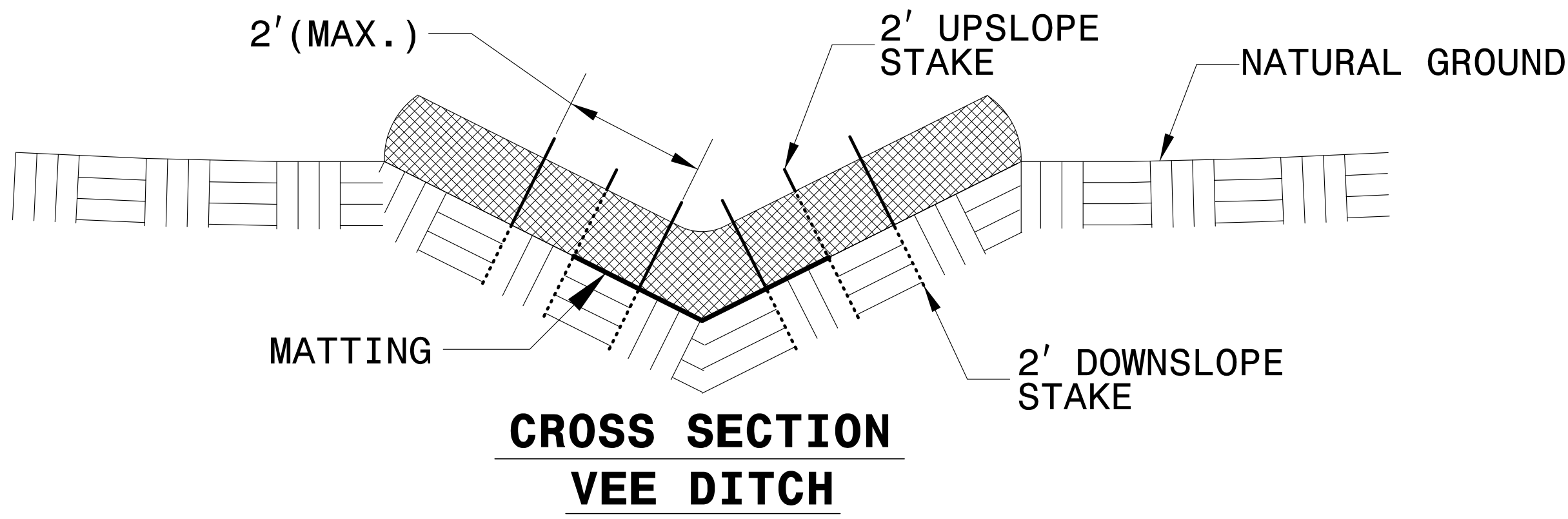
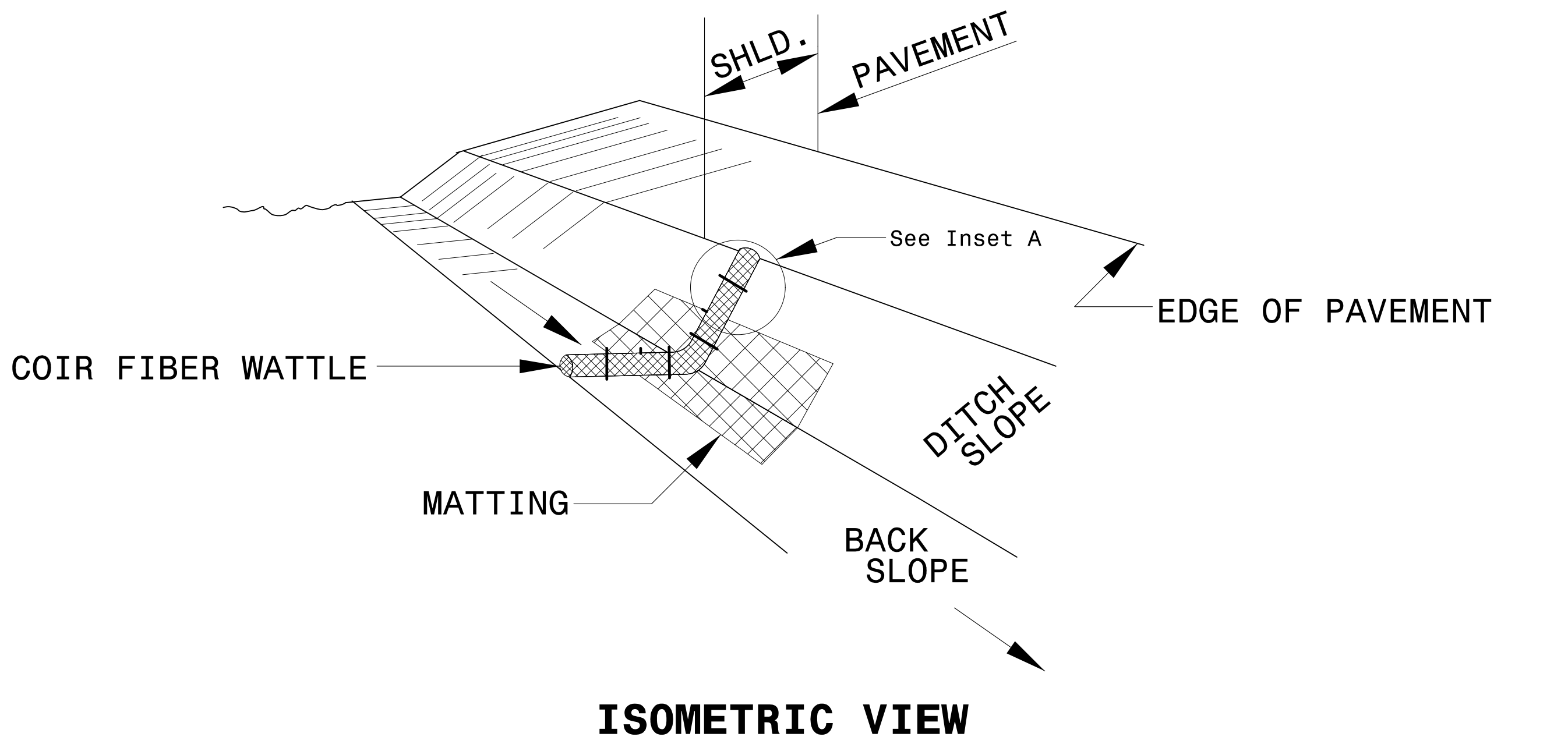
1632.01 Rock Inlet Sediment Trap:

1632.01	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

PROJECT REFERENCE NO.	SHEET NO.
U5534D	EC-02
RW SHEET NO.	
Prepared in the Office of: AECOM	
NC FIRM LICENSE No F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)	



NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

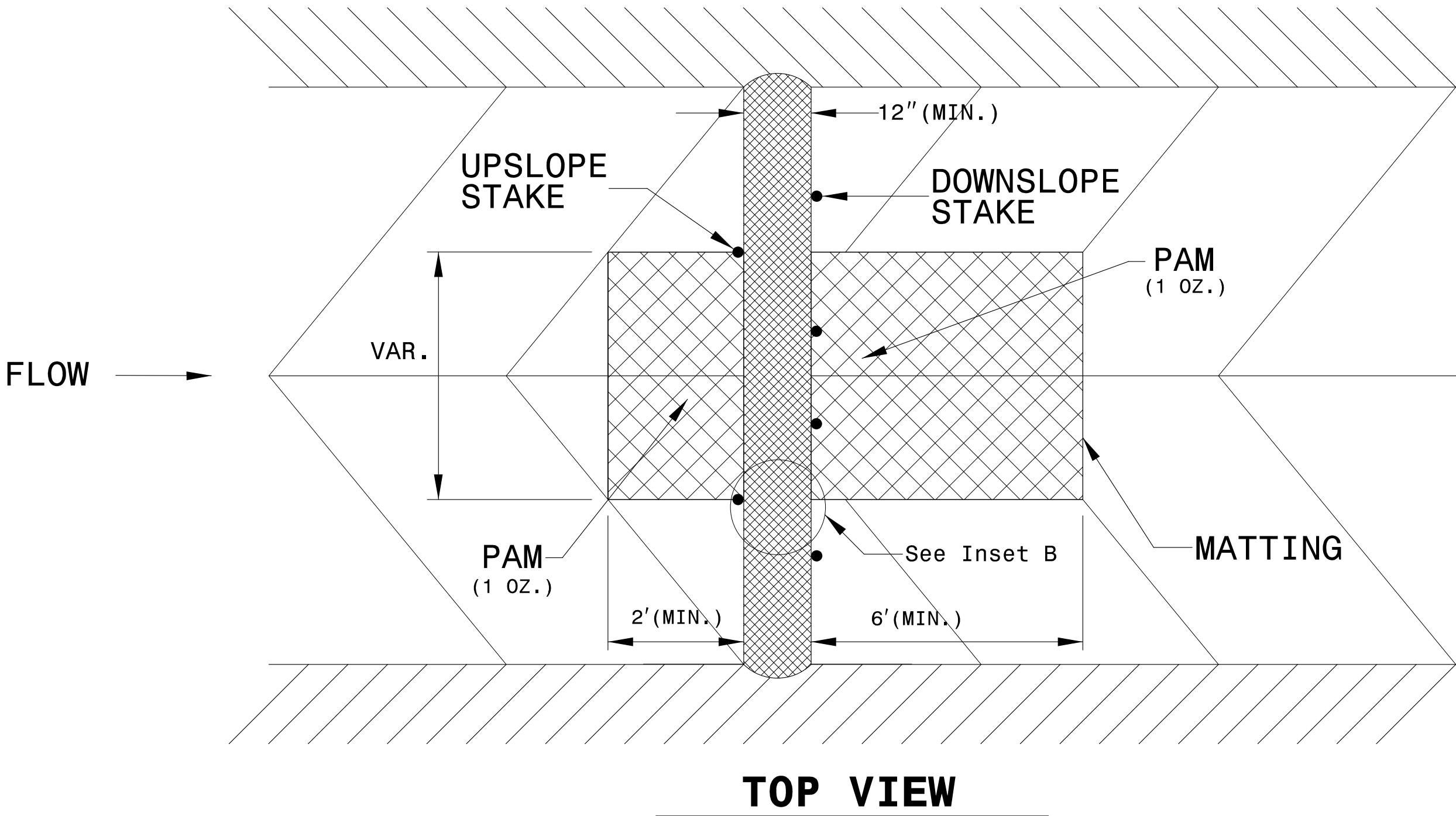
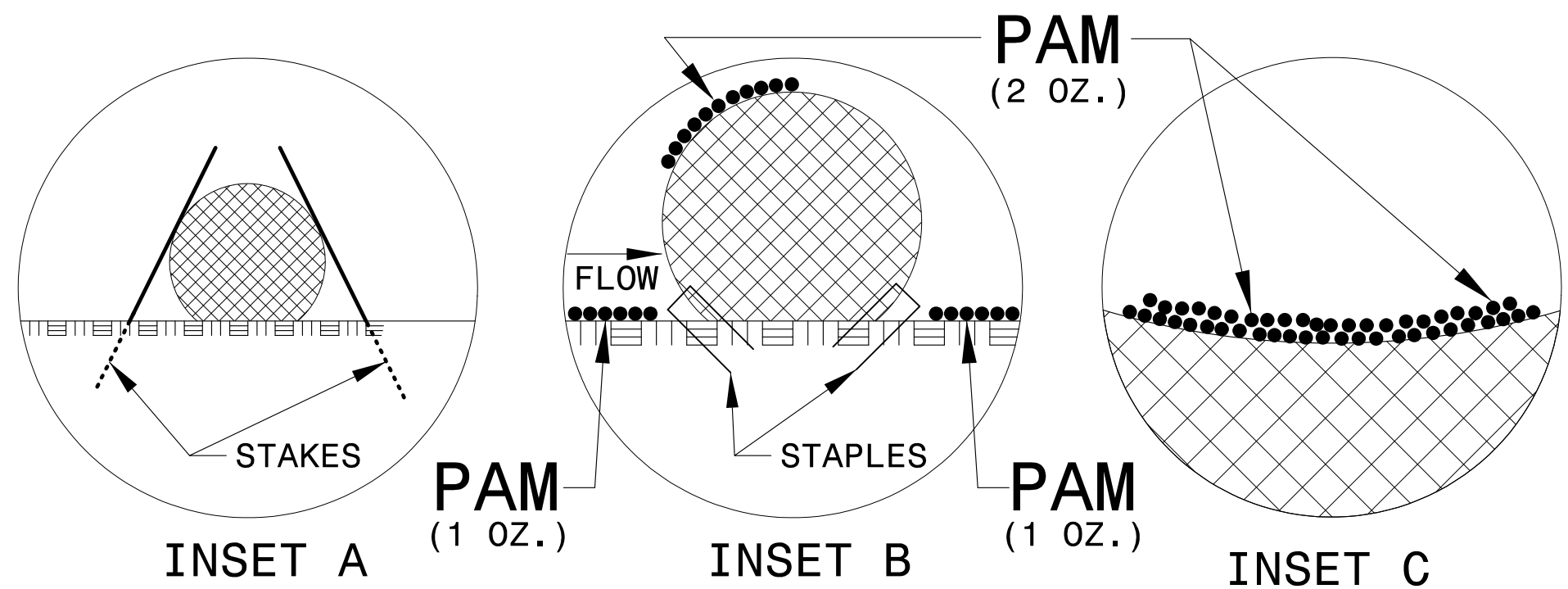
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

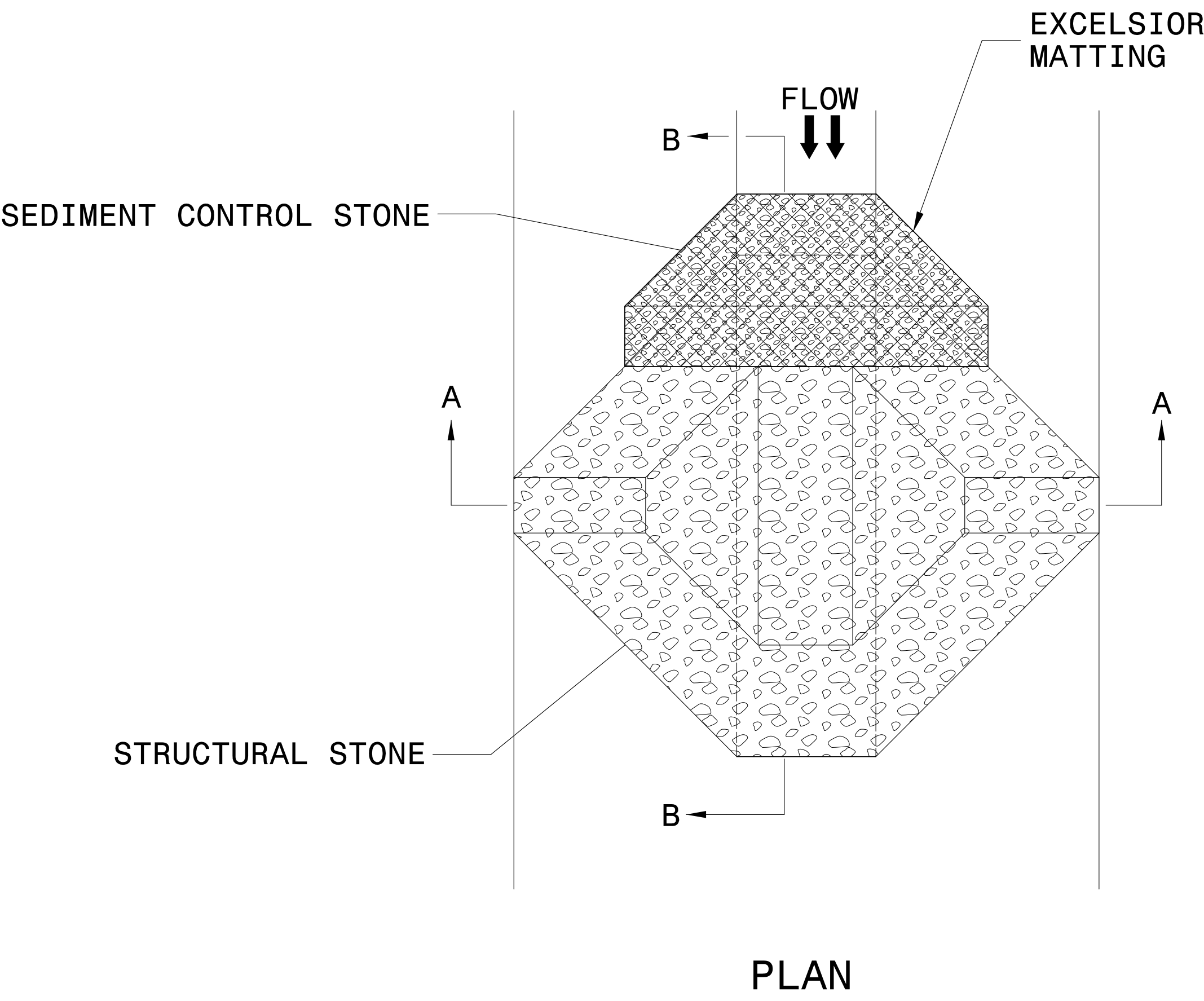
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

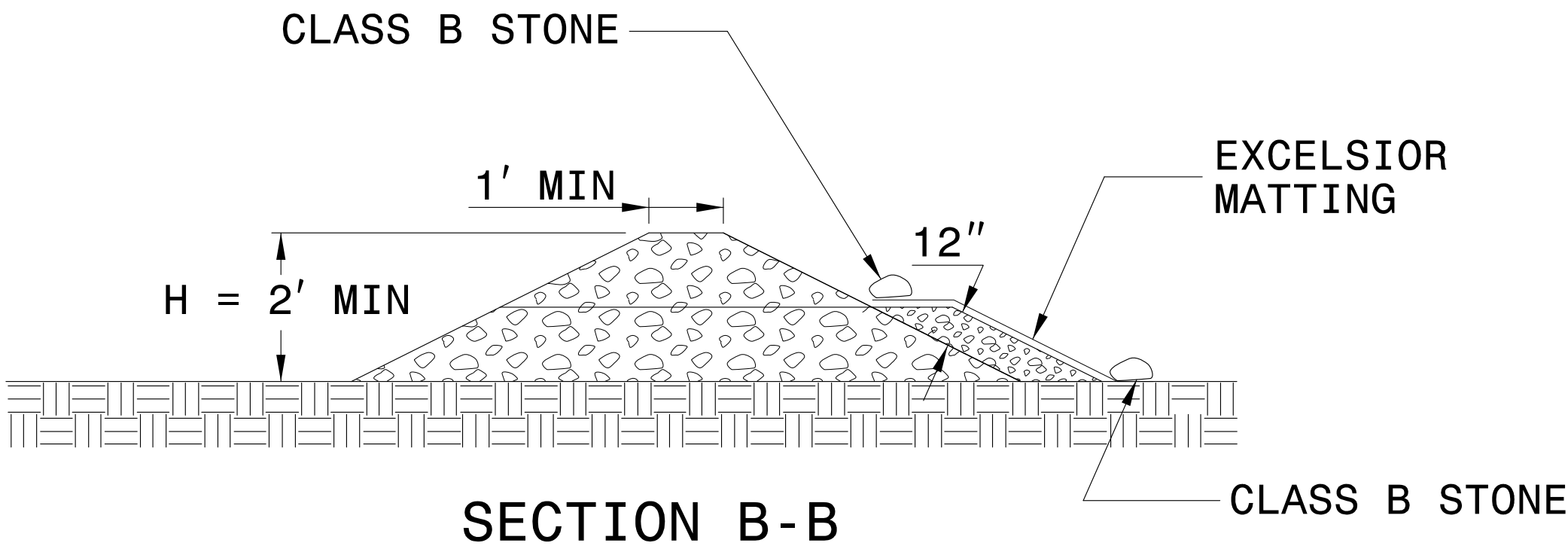
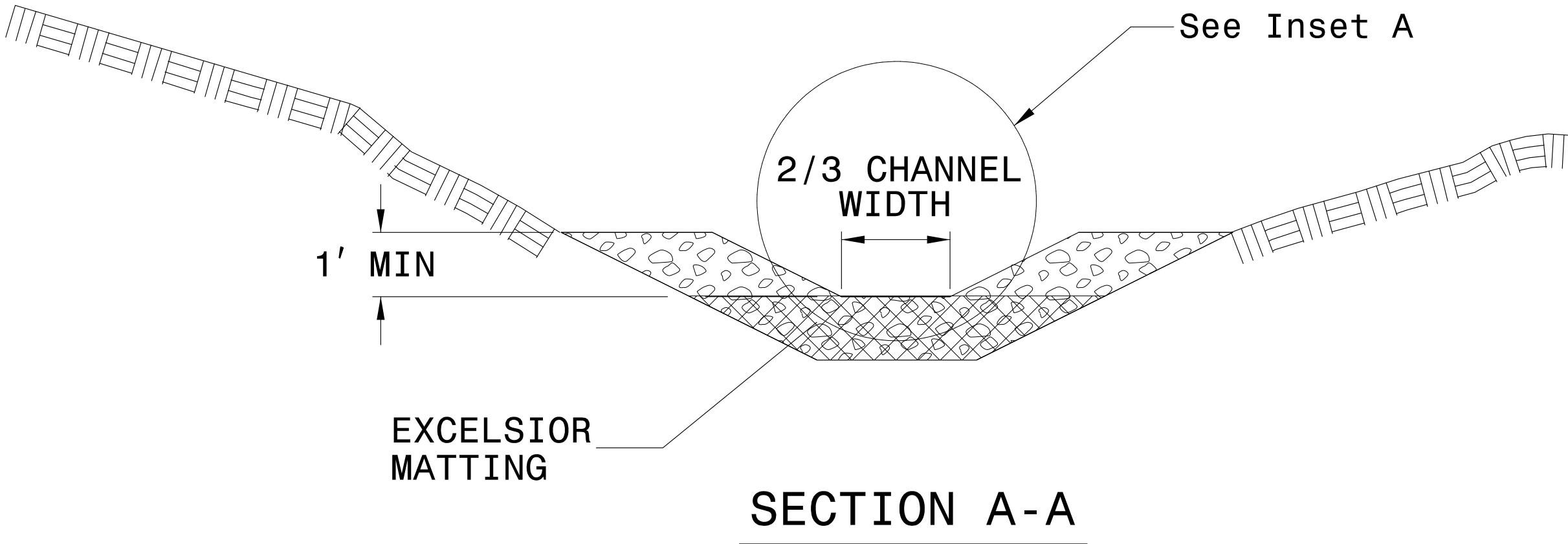
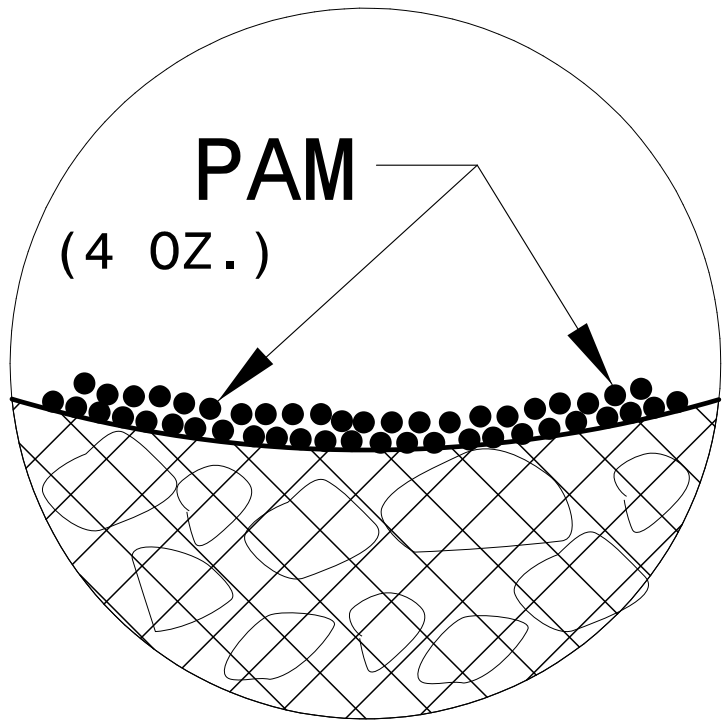
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

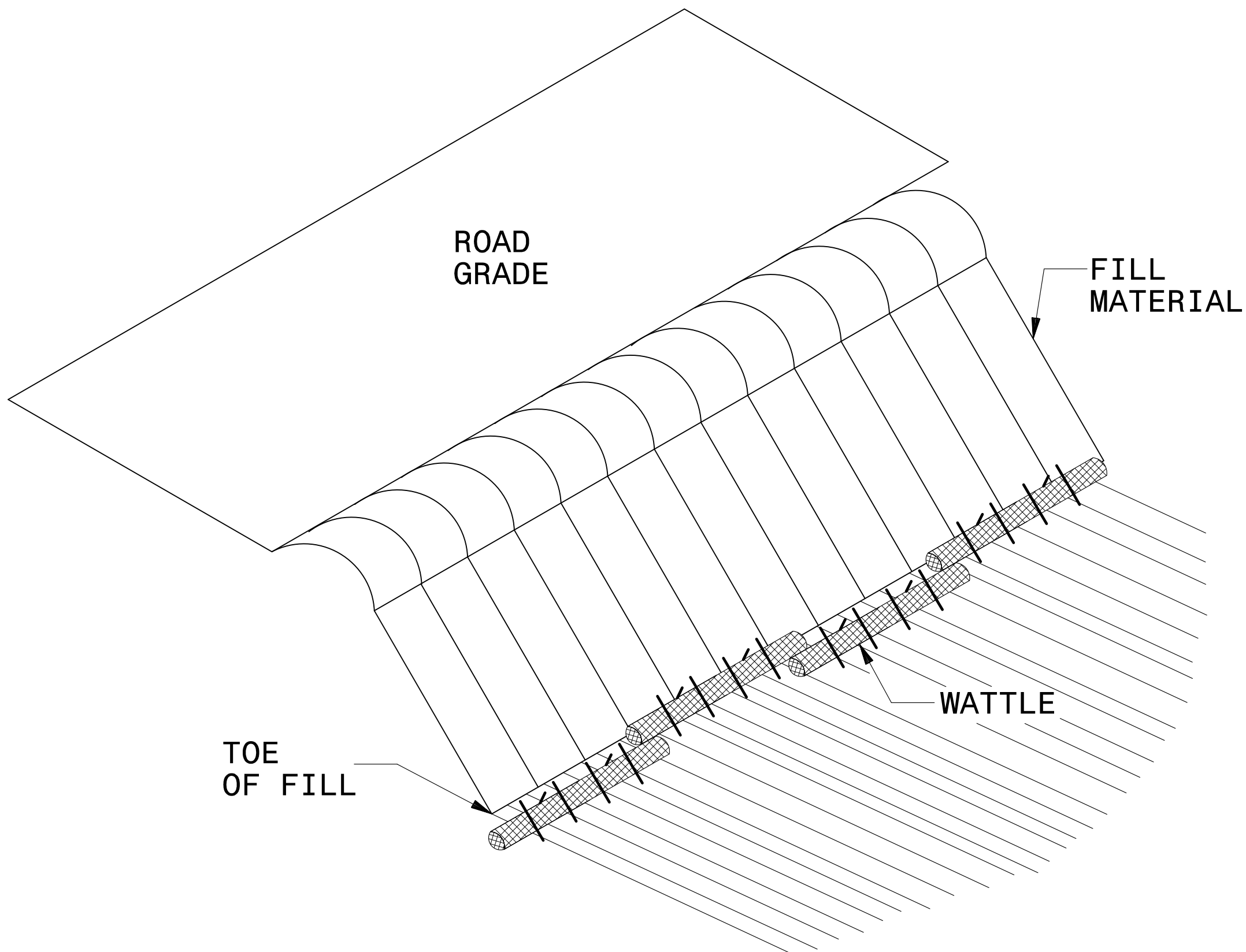


- NOTES:**
- INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.
 - USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.
 - INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.

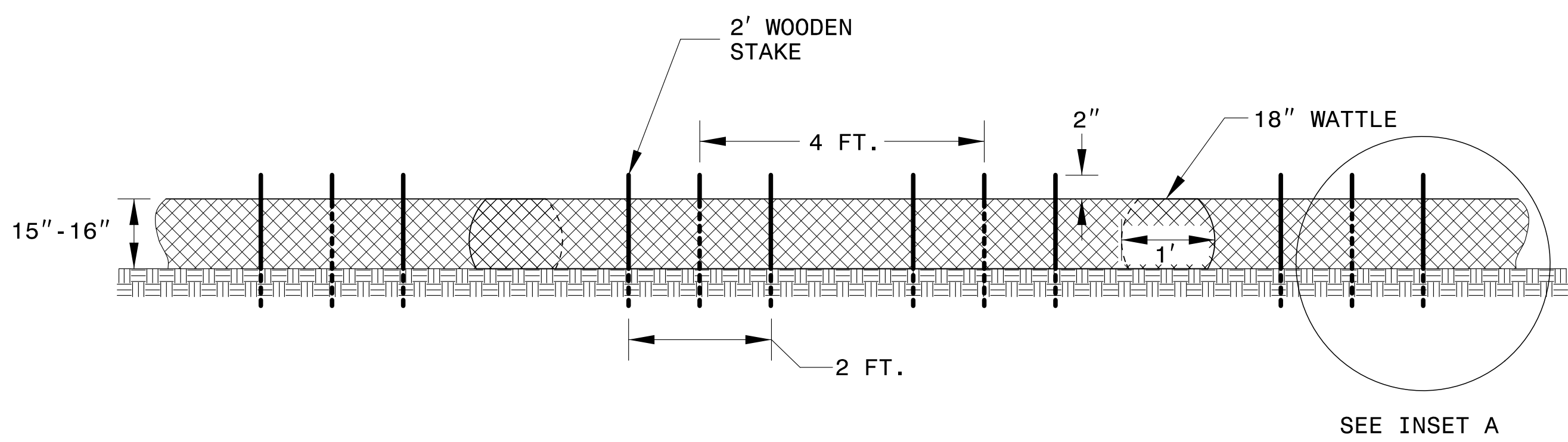


NOT TO SCALE

COIR FIBER WATTLE BARRIER DETAIL

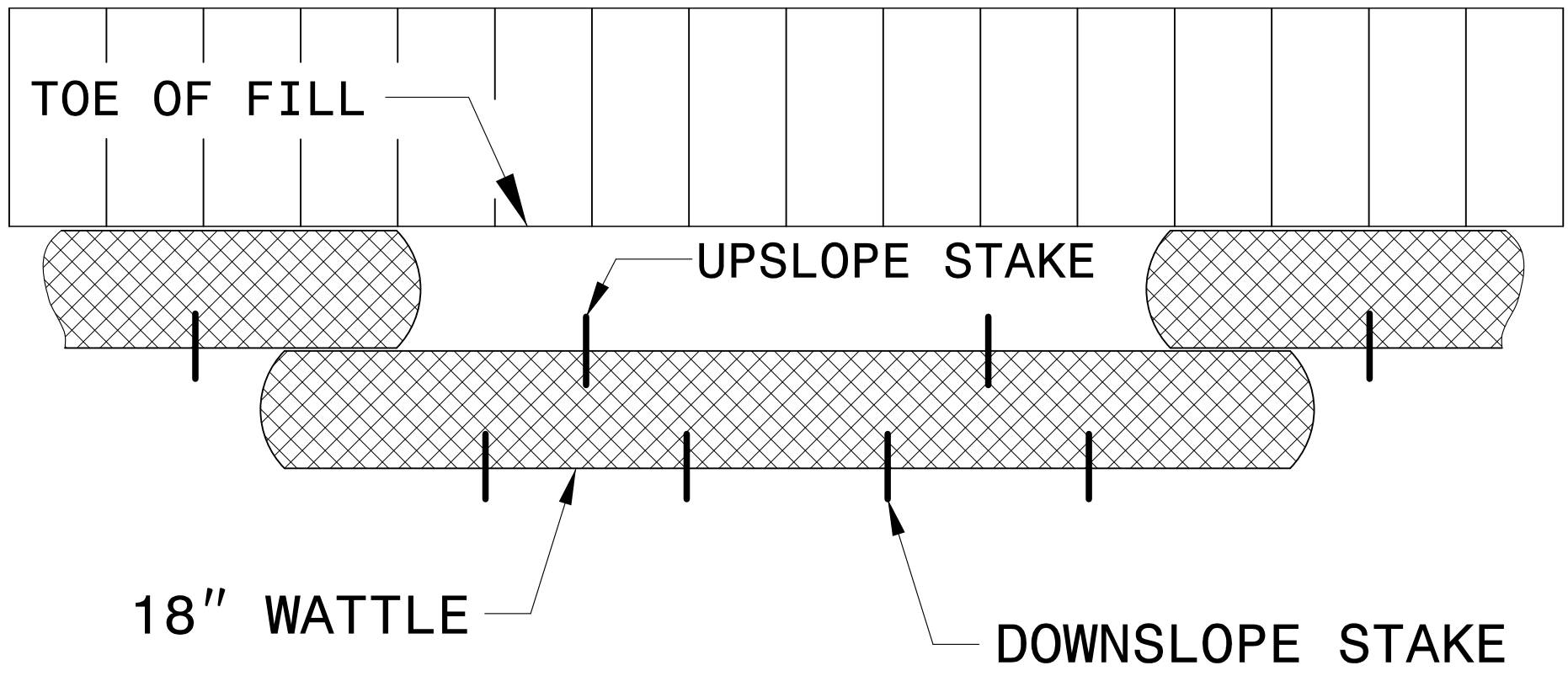
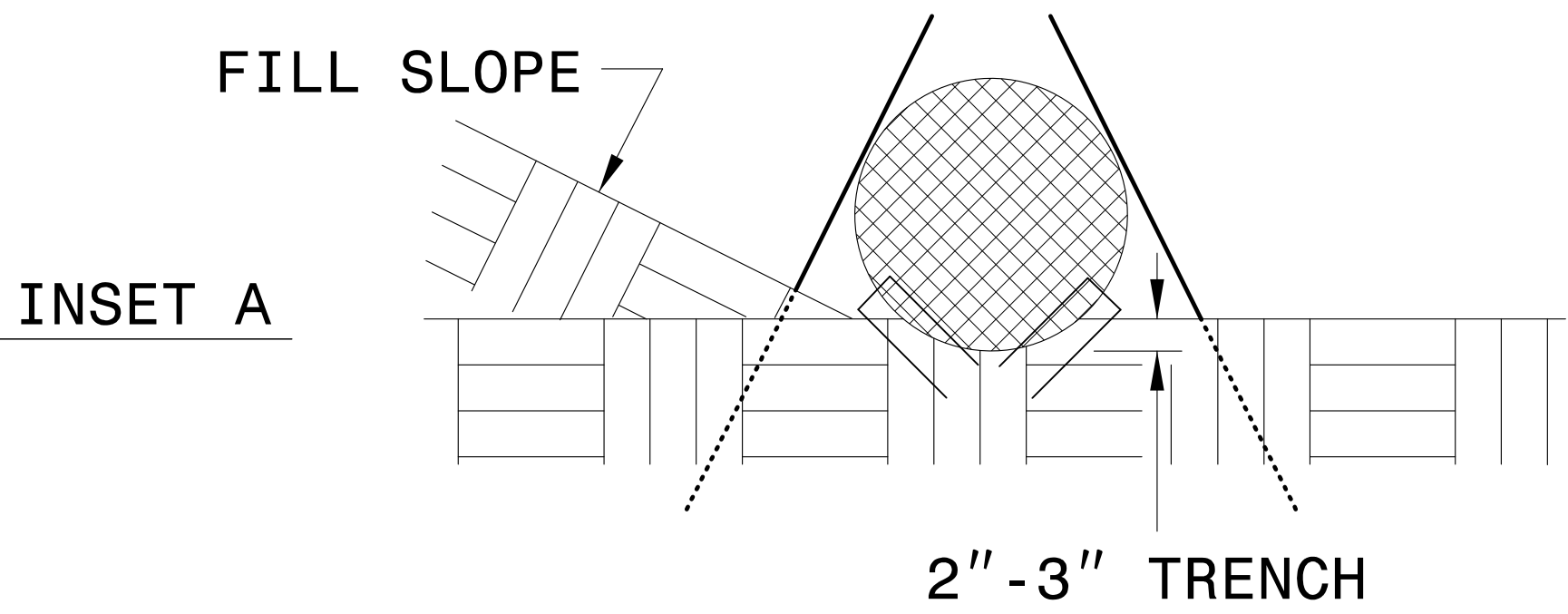


ISOMETRIC VIEW



FRONT VIEW

- NOTES:
- USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) WATTLE AND LENGTH OF 10 FT.
 - EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.
 - DO NOT PLACE WATTLES ON TOE OF SLOPE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.



TOP VIEW

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
U5534D	EC-03
R/W SHEET NO.	
Prepared in the Office of:	NC FIRM LICENSE No.F-0342 701 Corporate Center, Driv., Suite 475 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259(FAX)

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

MATTING FOR EROSION CONTROL

[illegible][illegible]

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

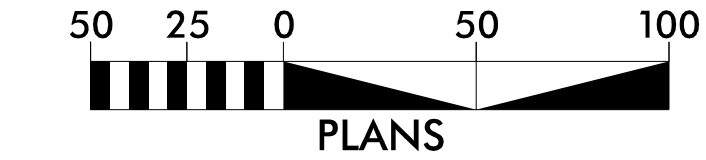
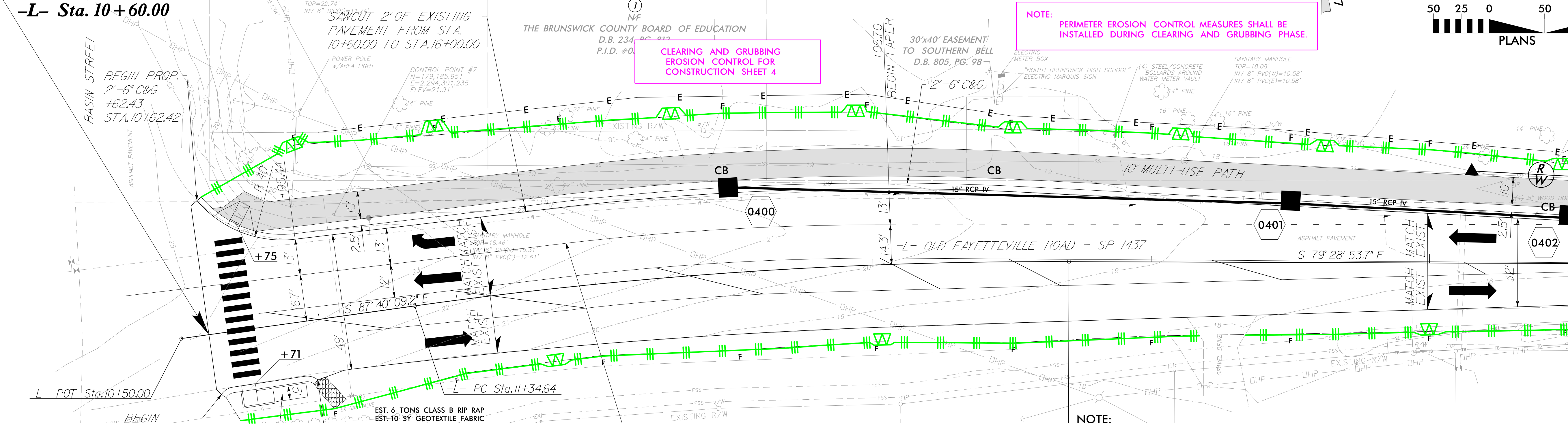
SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

8/17/99

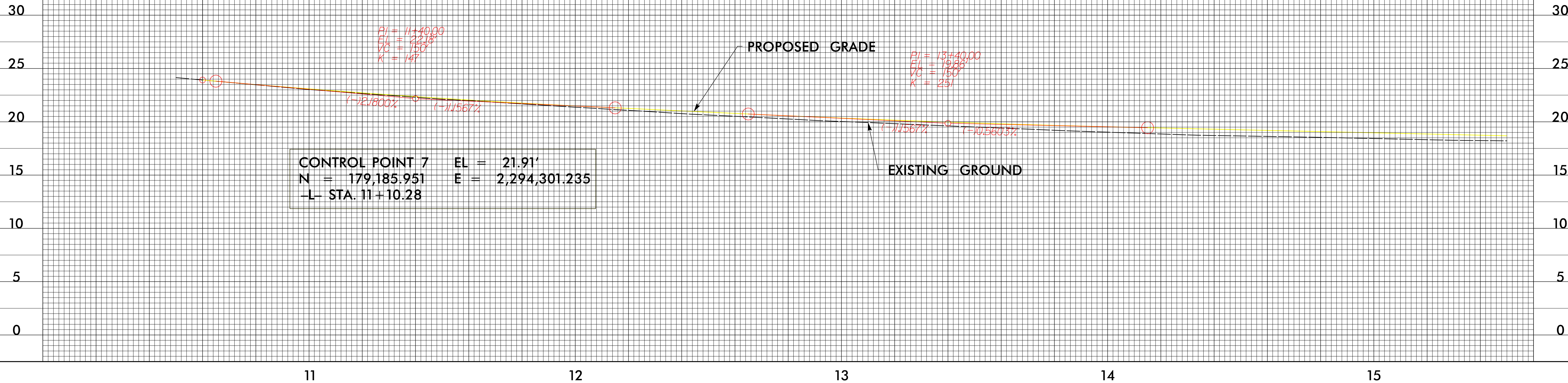
BEGIN TIP PROJECT U-5534D

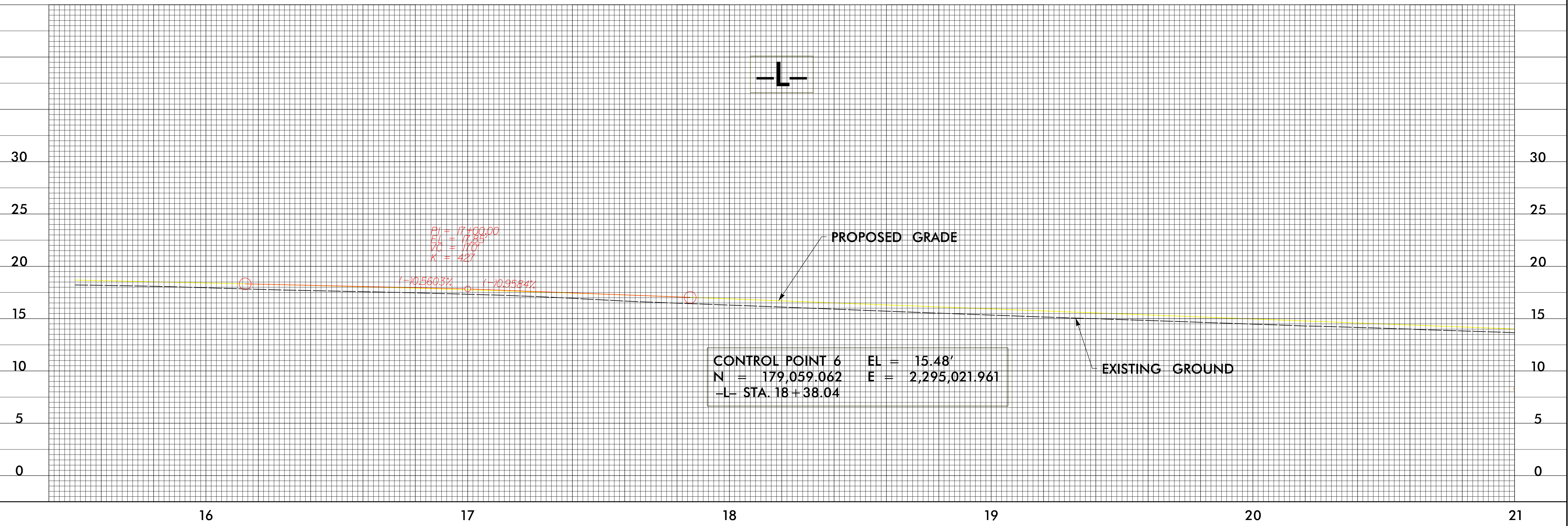
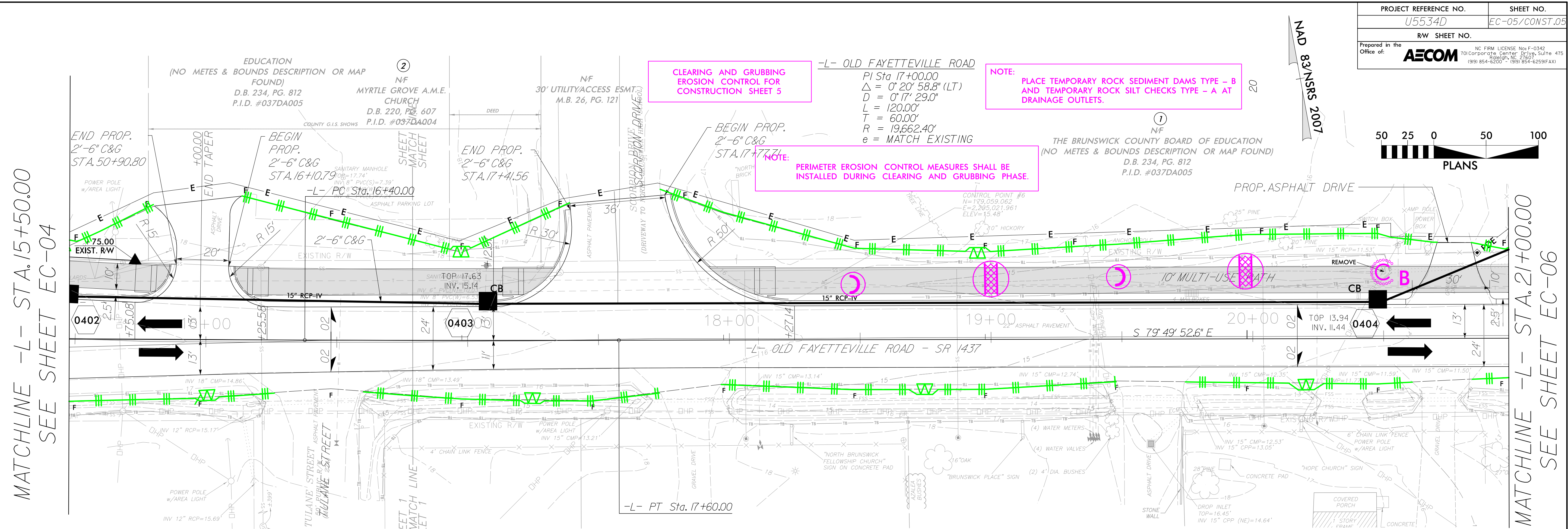
-L- Sta. 10+60.00

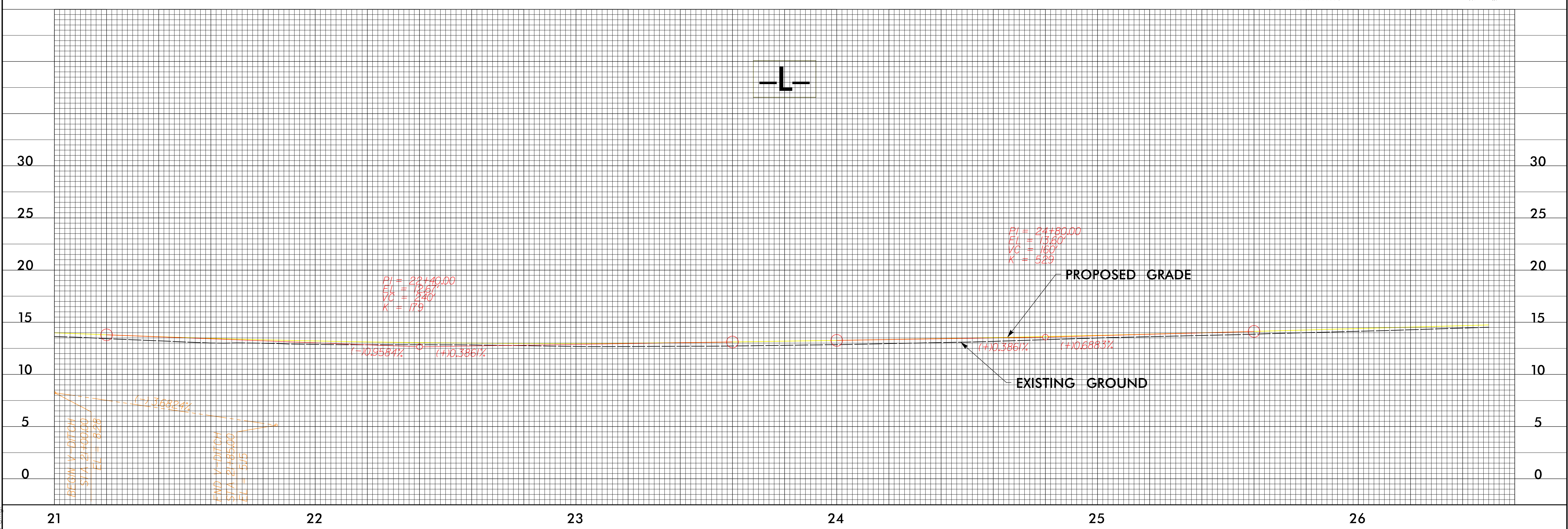
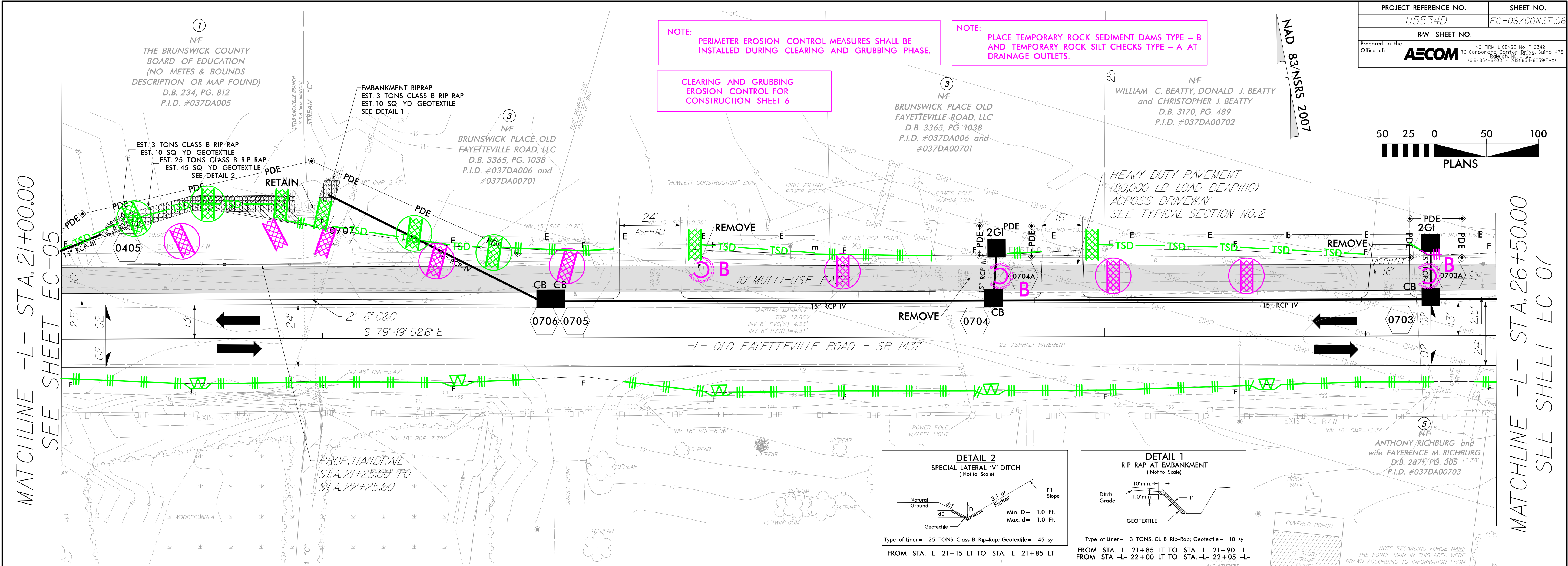


MATCHLINE -L- STA. 15+50.00
SEE SHEET EC-05

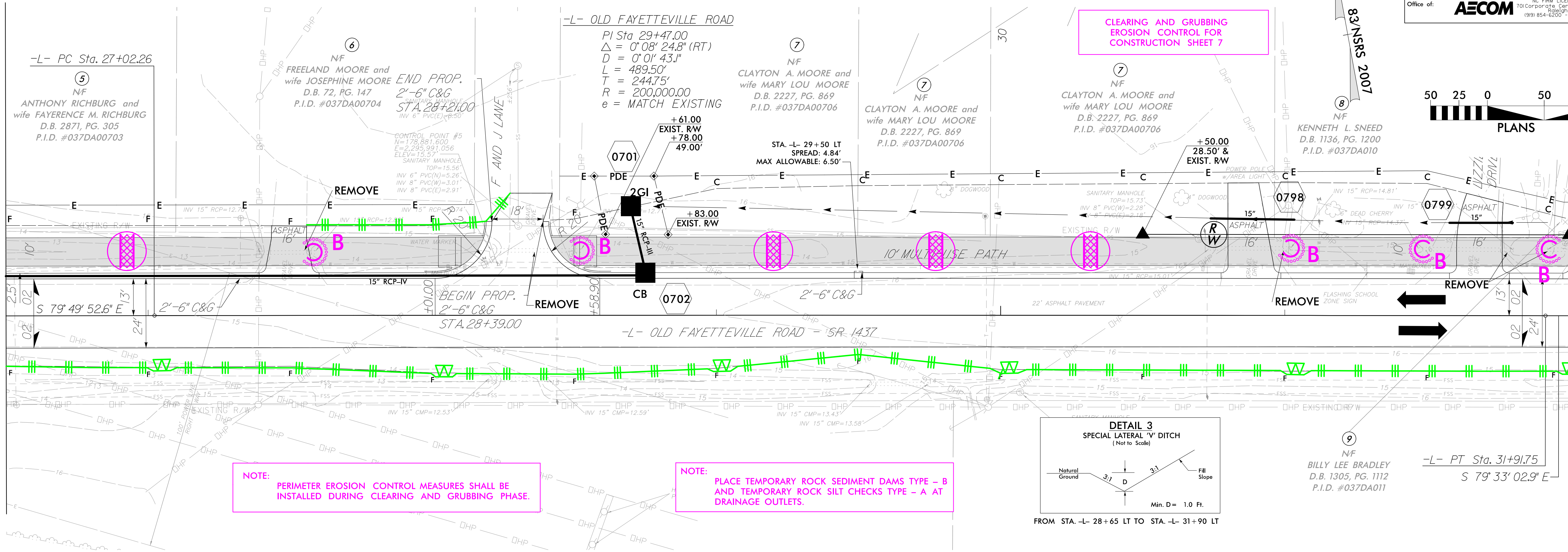
BEGIN TIP PROJECT U-5534D
BEGIN OVERLAY
STA 10+60.00
EL 23.92



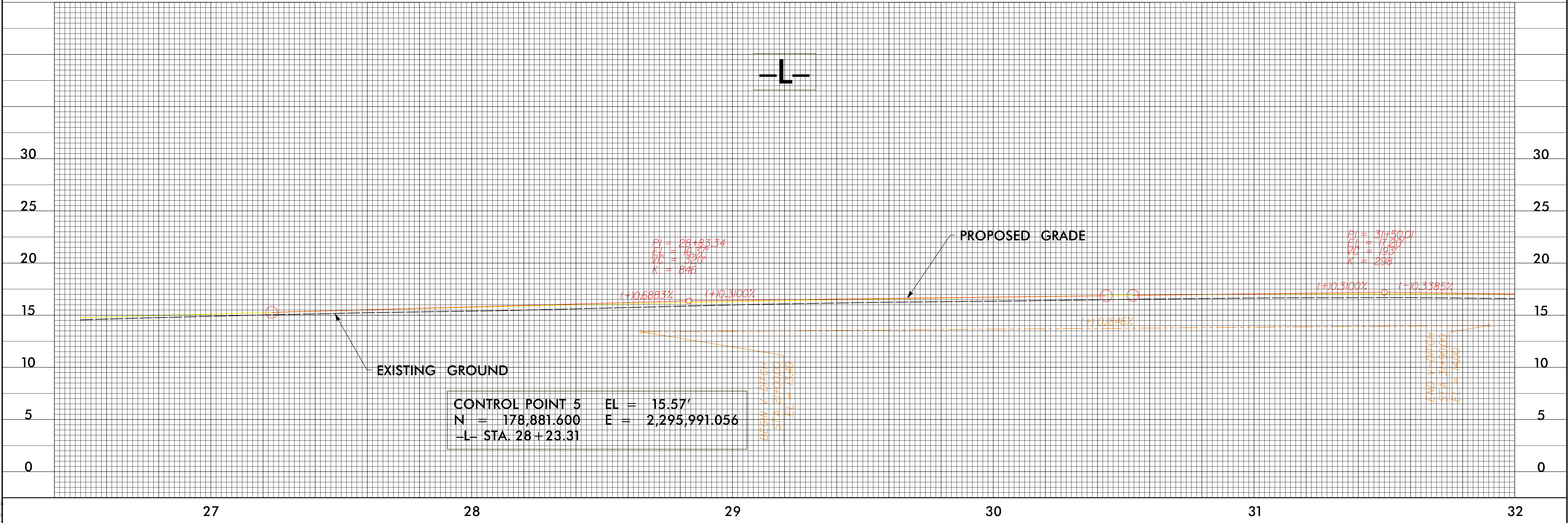




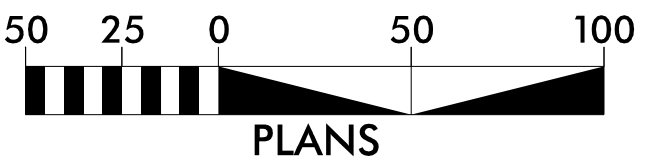
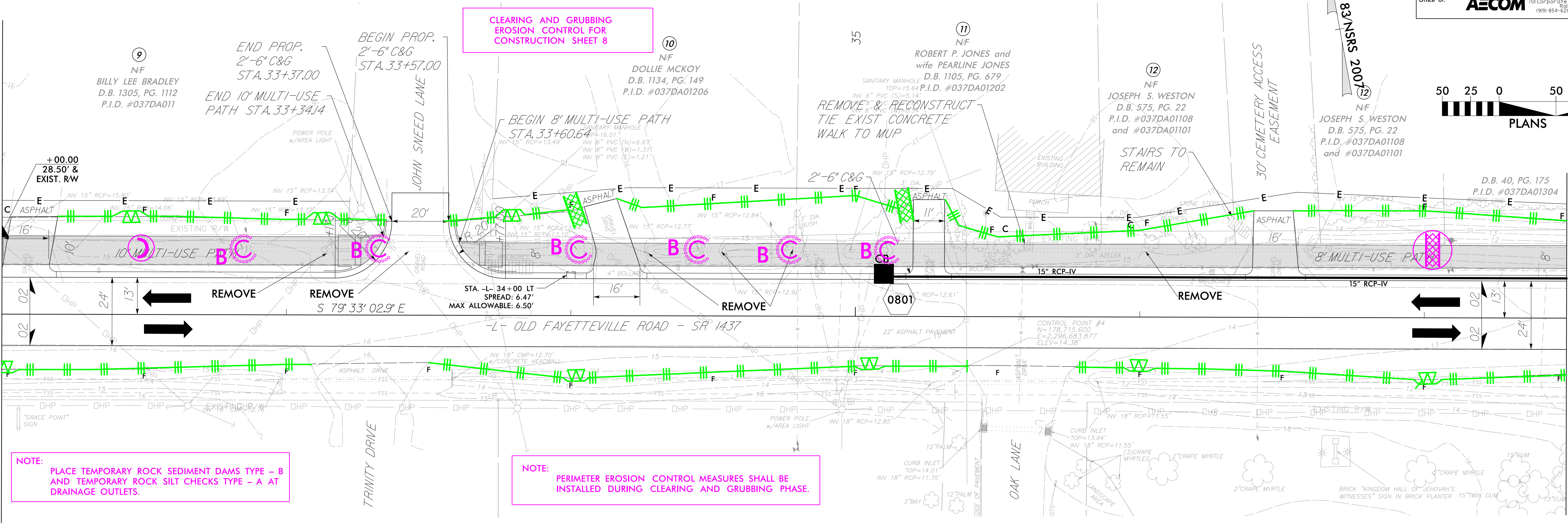
MATCHLINE -L- STA. 26+50.00
SEE SHEET EC-06



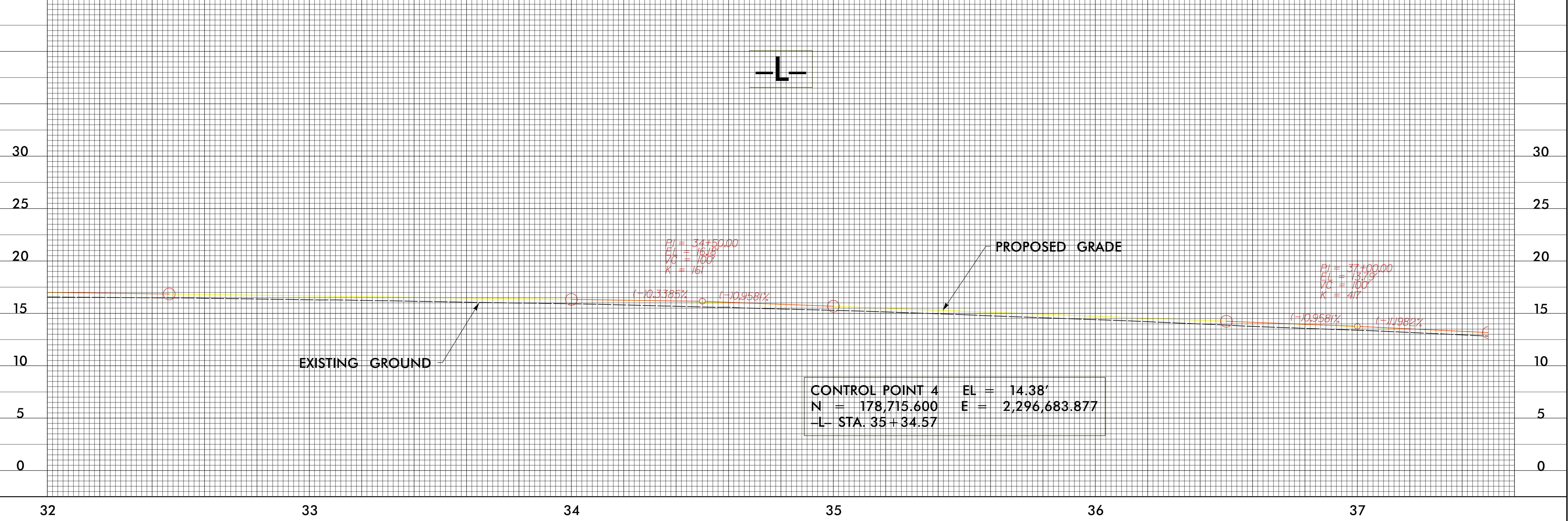
MATCHLINE -L- STA. 32+00.00
SEE SHEET EC-08



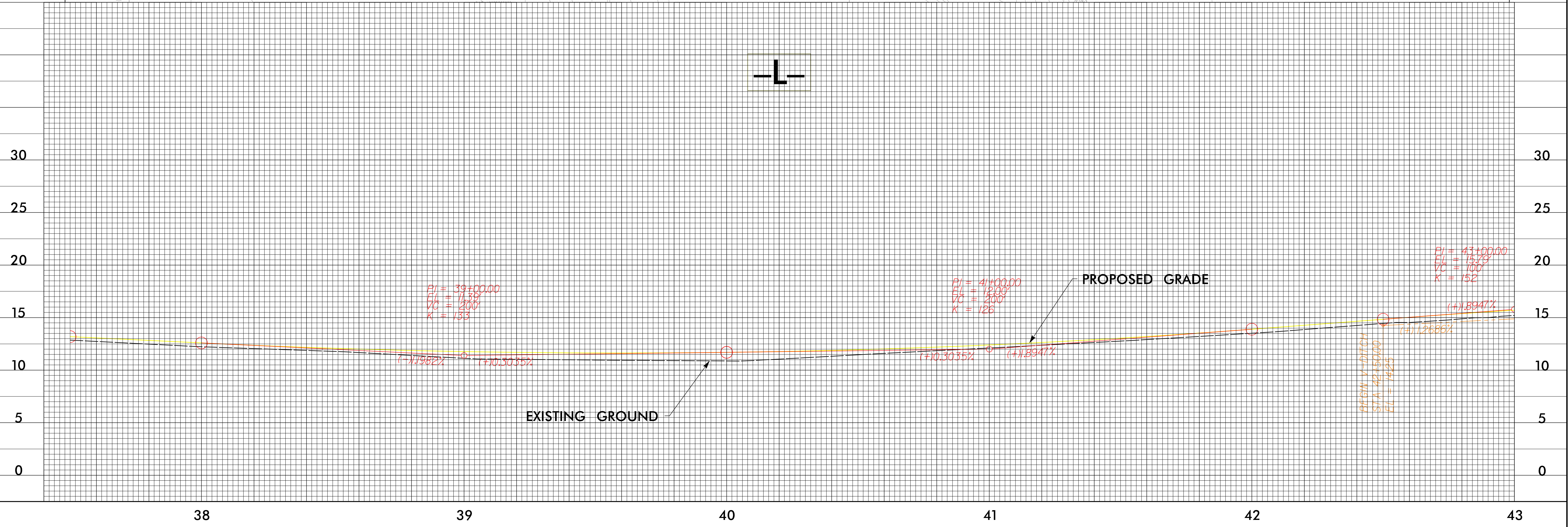
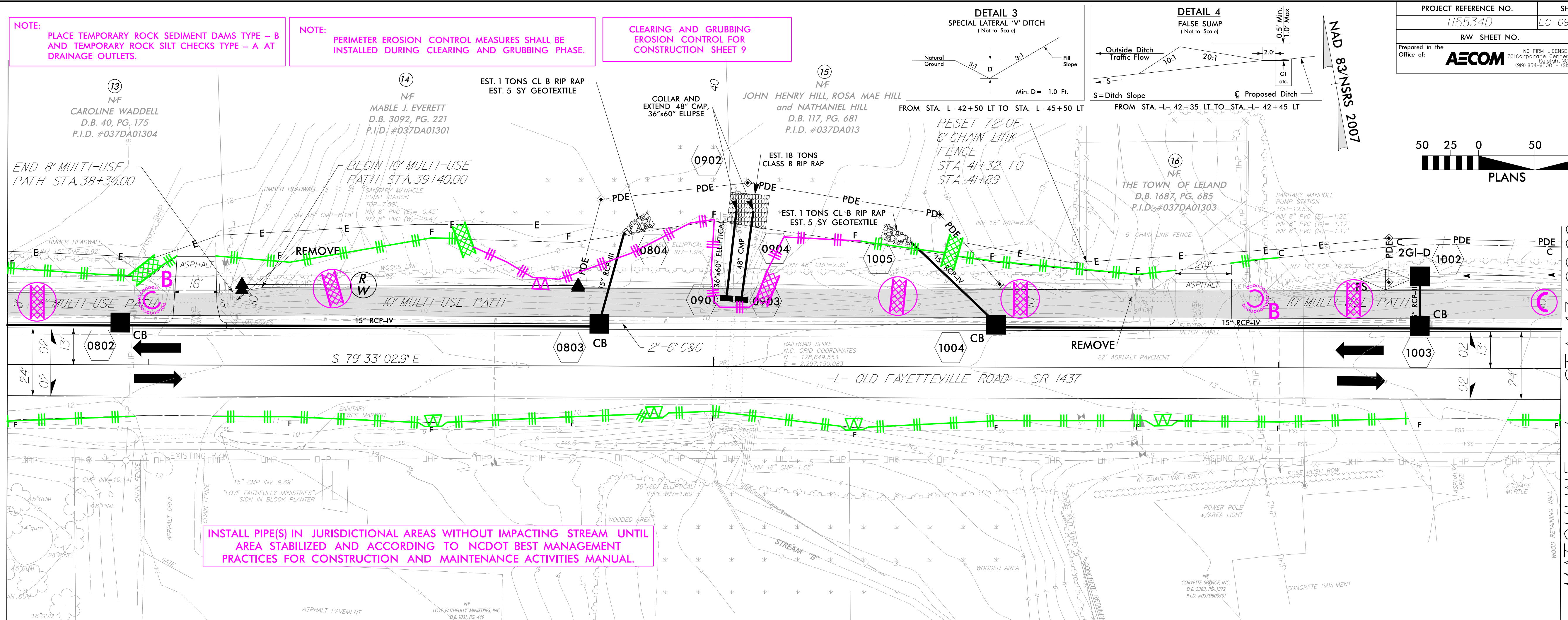
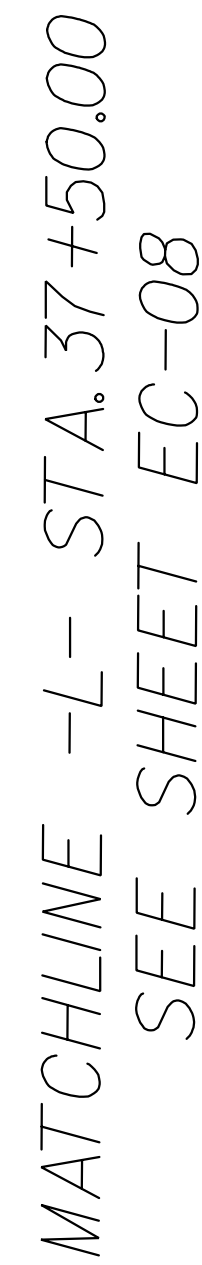
MATCHLINE -L- STA. 32+00.00
SEE SHEET EC-07

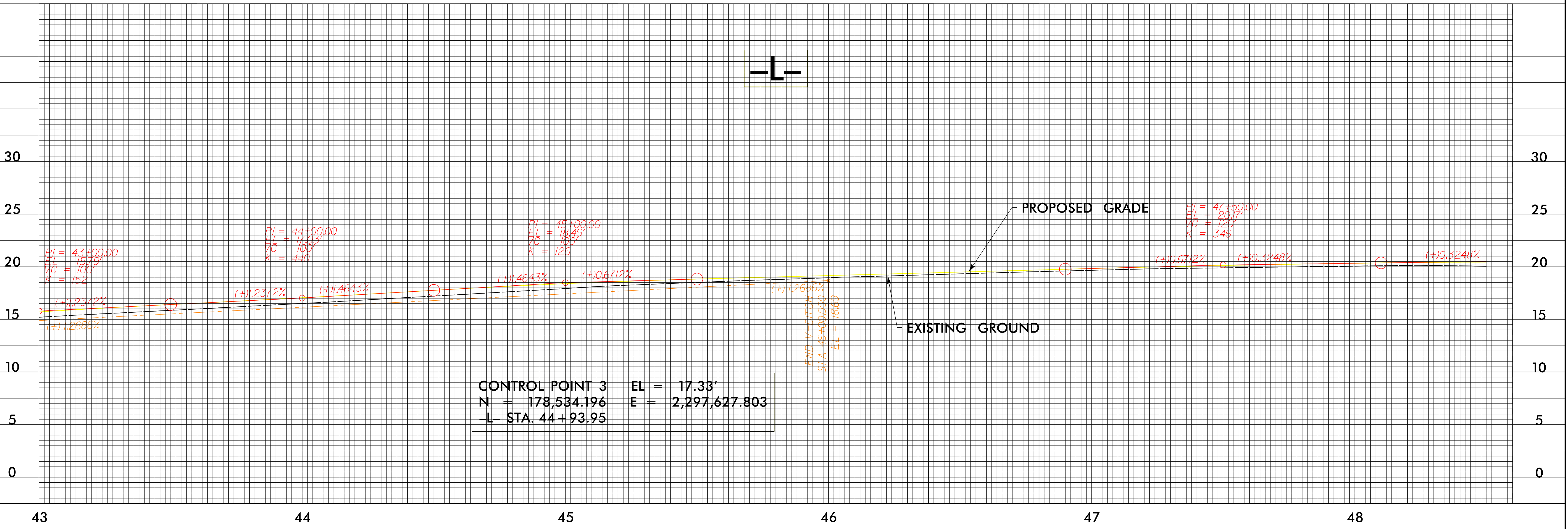
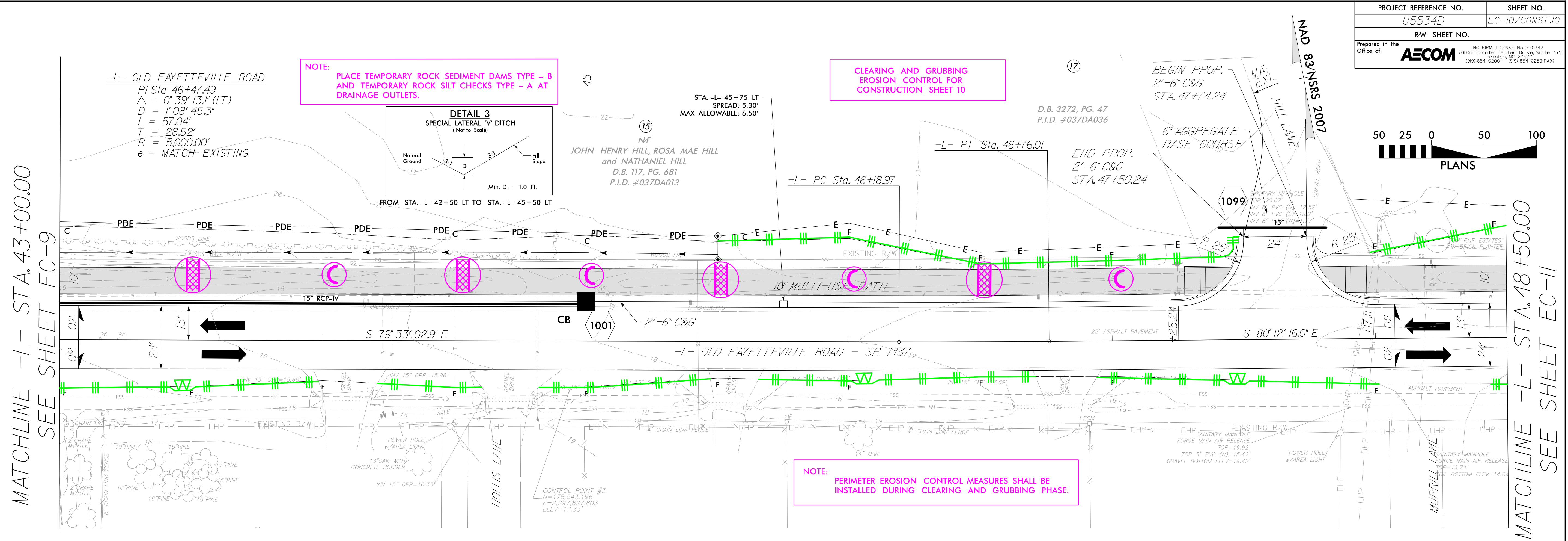


MATCHLINE -L- STA. 37+50.00
SEE SHEET EC-09

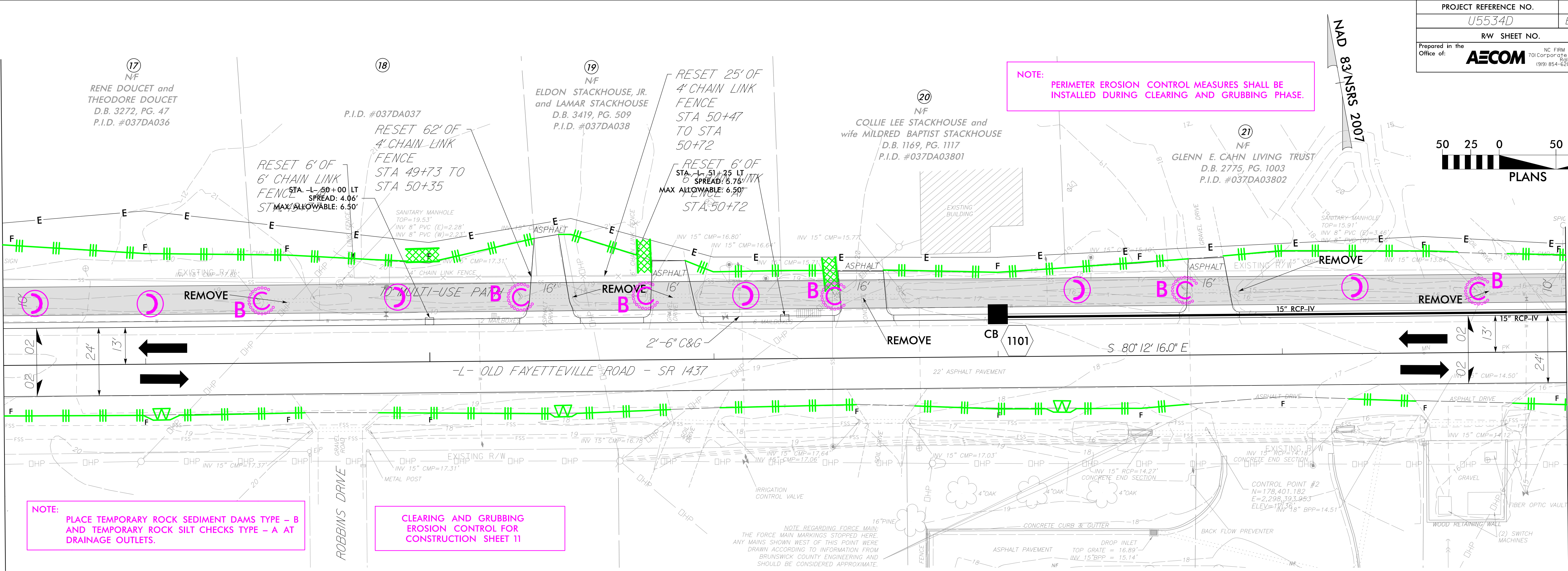


PROJECT REFERENCE NO.	SHEET NO.
U5534D	EC-09/CONST.09
RW SHEET NO.	
Prepared in the Office of:	NC FIRM LICENSE No.F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 ~ (919) 854-6259(FAX)

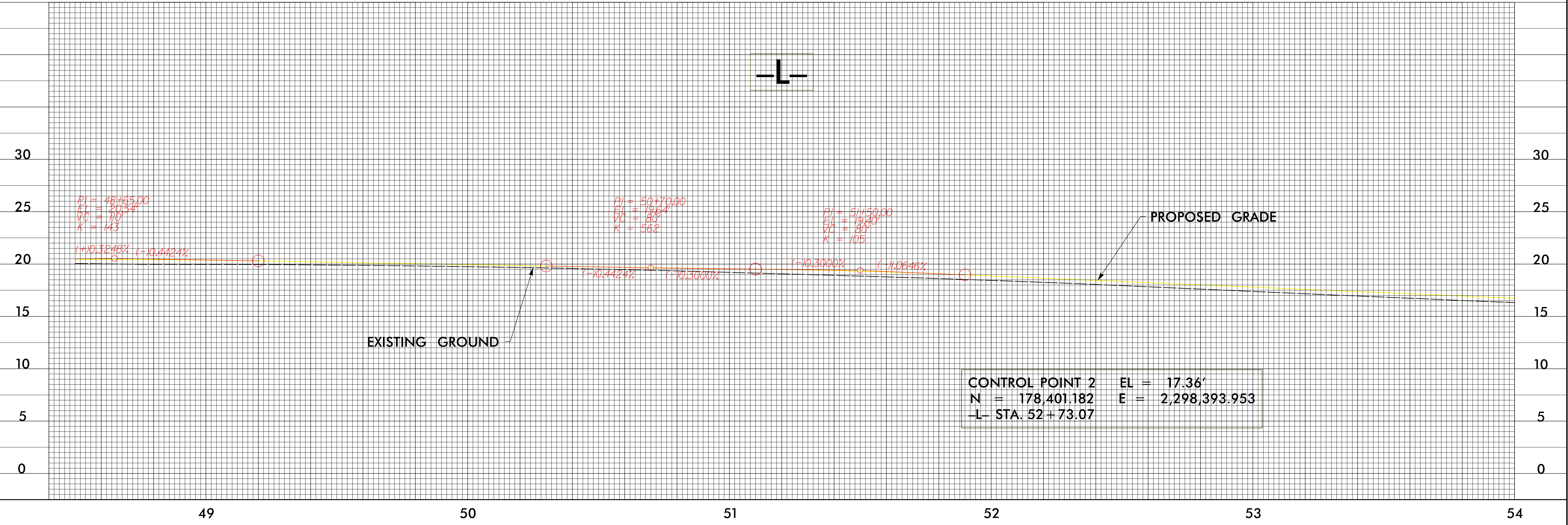




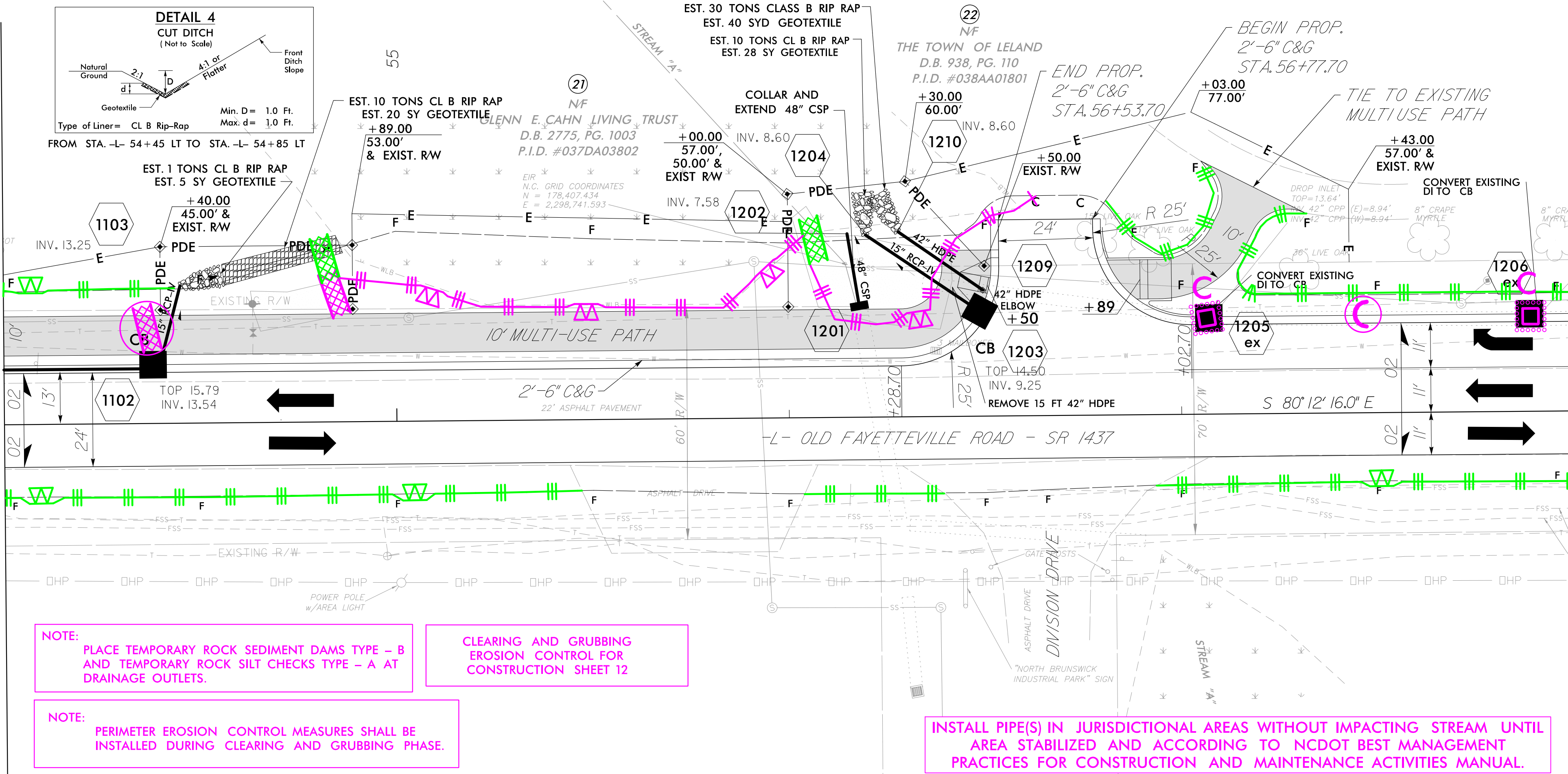
MATCHLINE -L- STA. 48+50.00
SEE SHEET EC-10



MATCHLINE -L- STA. 54+00.00
SEE SHEET EC-12

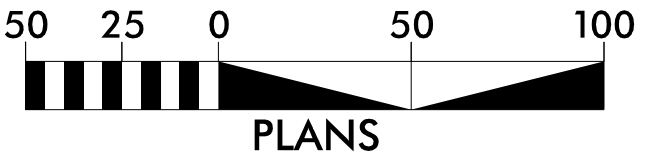


MATCHLINE -L- STA.54+00.00
SEE SHEET EC-11

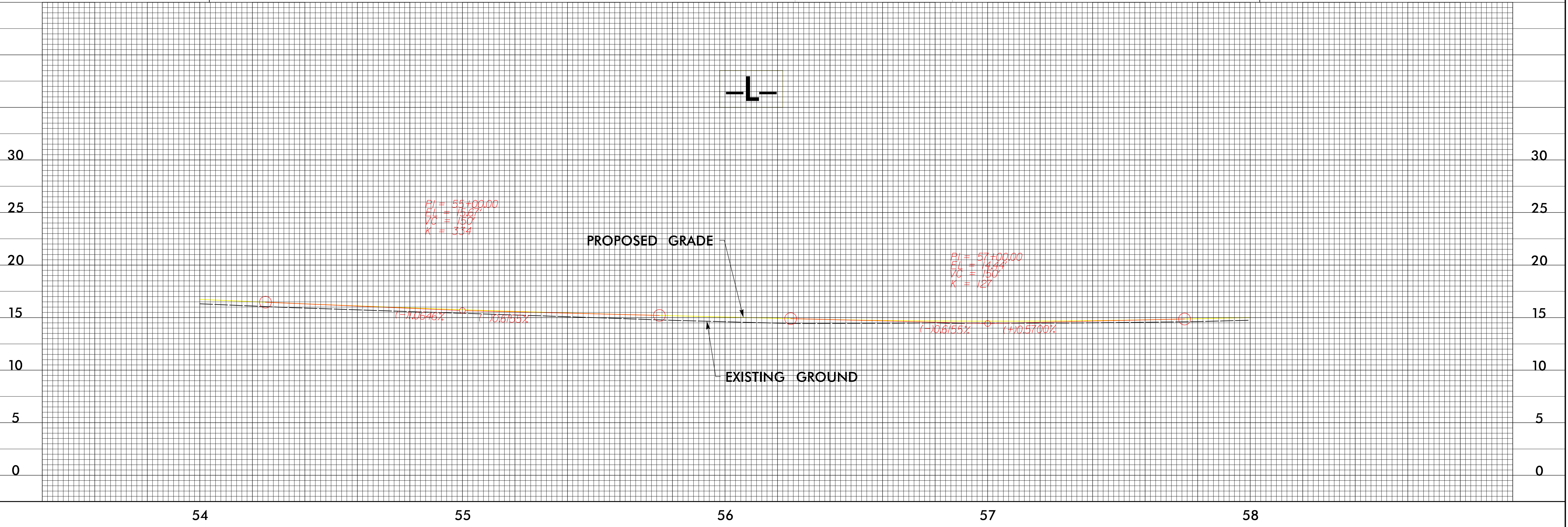


MATCHLINE -L- STA.58+00.00
SEE SHEET EC-13

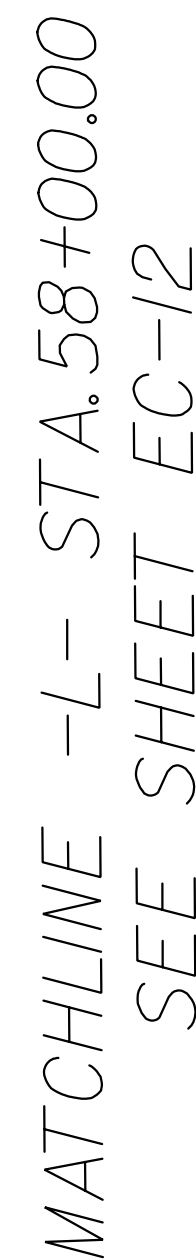
NAD 83 NSRS 2007



PROJECT REFERENCE NO.	SHEET NO.
U5534D	EC-12/CONST.12
RW SHEET NO.	
AECOM	
Prepared in the Office of: NC FIRM LICENSE: Not F-0342 T01 Corporate Center Drive, Suite 475 Raleigh, NC 27601 (919) 854-6200 / (919) 854-6259 (FAX)	



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13



8/17/99

BEGIN TIP PROJECT U-5534D

-L- Sta. 10+60.00

BEGIN PROP.
2'-6" C&G
+62.43
STA. 10+62.42

-L- POT Sta. 10+50.00

BEGIN

THE BRUNSWICK COUNTY BOARD OF EDUCATION
D.B. 234, PG. 812
P.I.D. #037DA005

SAWCUT 2' OF EXISTING
PAVEMENT FROM STA.
10+60.00 TO STA. 16+00.00

CONTROL POINT #7
N=179,185.951
E=2,294,301.235
ELEV=21.91

SANITARY MANHOLE
TOP=18.46'
INV. 6" DIA. 15.31'
12" PVC(E)=12.61'

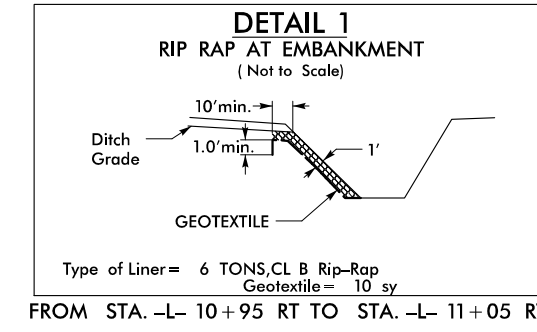
EST. 6 TONS CLASS B RIP RAP
EST. 10' SY GEOTEXTILE FABRIC

-L- OLD FAYETTEVILLE ROAD

PI Sta 12+52.73
 $\Delta = 8' 11" 15.5" (RT)$
 $D = 3' 28' 20.9"$
 $L = 235.79'$
 $T = 118.09'$
 $R = 1,650.00'$
 $e = MATCH EXISTING$

①
NF

THE BRUNSWICK COUNTY BOARD OF EDUCATION
D.B. 234, PG. 812
P.I.D. #037DA005



THE BRUNSWICK COUNTY BOARD OF EDUCATION
(NO METES & BOUNDS DESCRIPTION OR MAP FOUND)
D.B. 234, PG. 812
P.I.D. #037DA005

NAD 83 NRS 2007



MATCHLINE -L- STA. 15+50.00
SEE SHEET EC-15

BEGIN TIP PROJECT U-5534D
BEGIN OVERLAY
STA 10+60.00
EL 23.92

PROPOSED GRADE

PI= 13+40.00
EL = 19.88'
VC = 150'
K = 251

EXISTING GROUND

CONTROL POINT 7 EL = 21.91'
N = 179,185.951 E = 2,294,301.235
-L- STA. 11+10.28

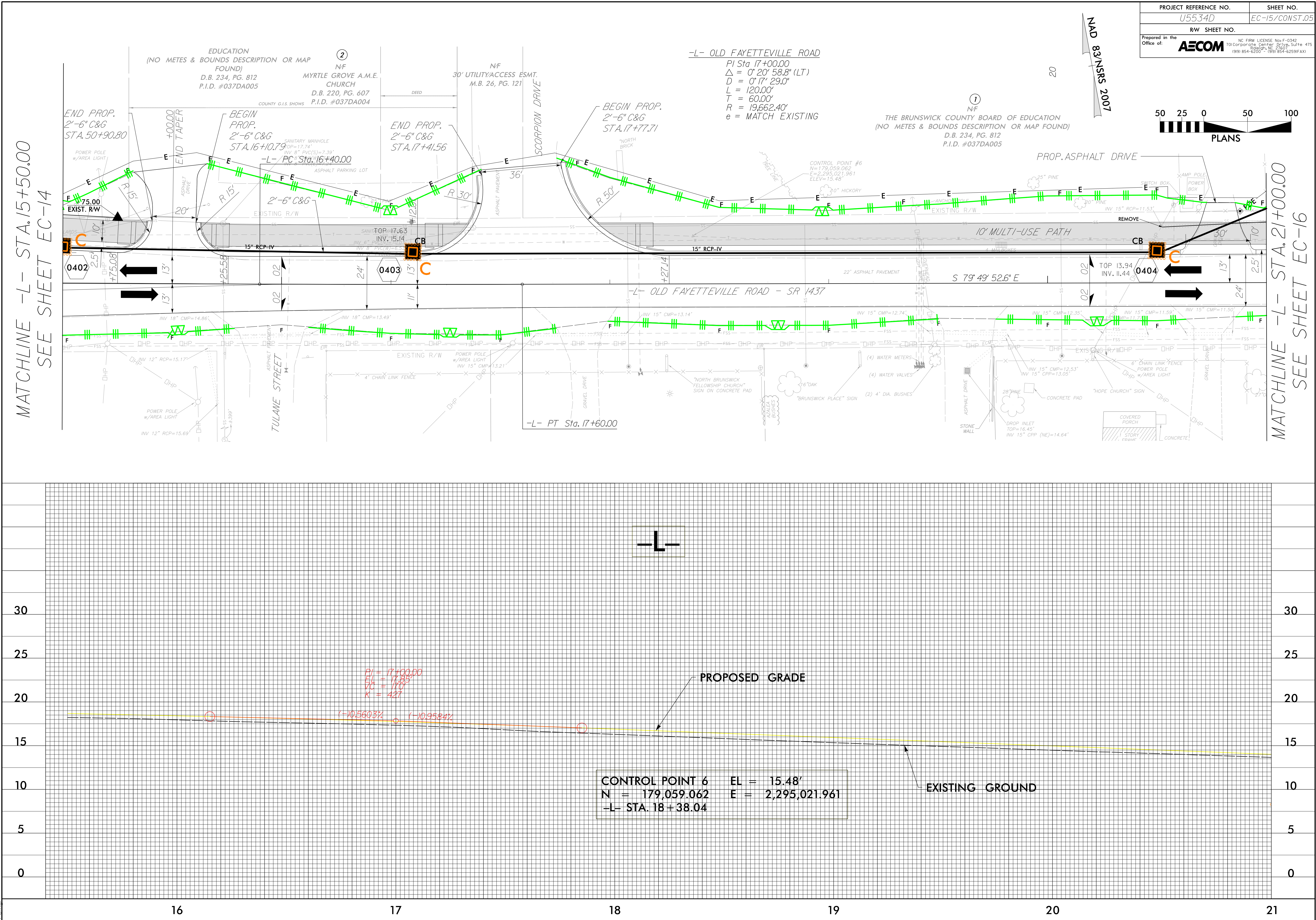
PI = 11+40.00
EL = 22.18'
VC = 150'
K = 147

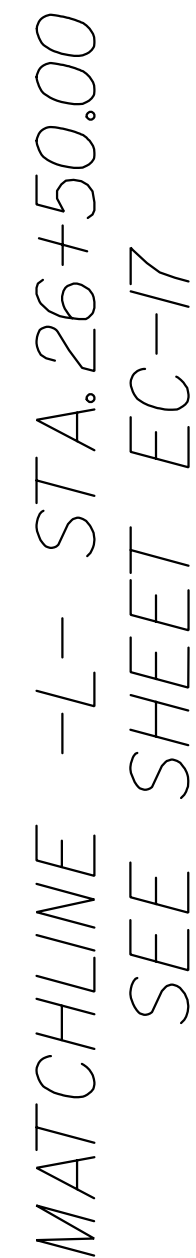
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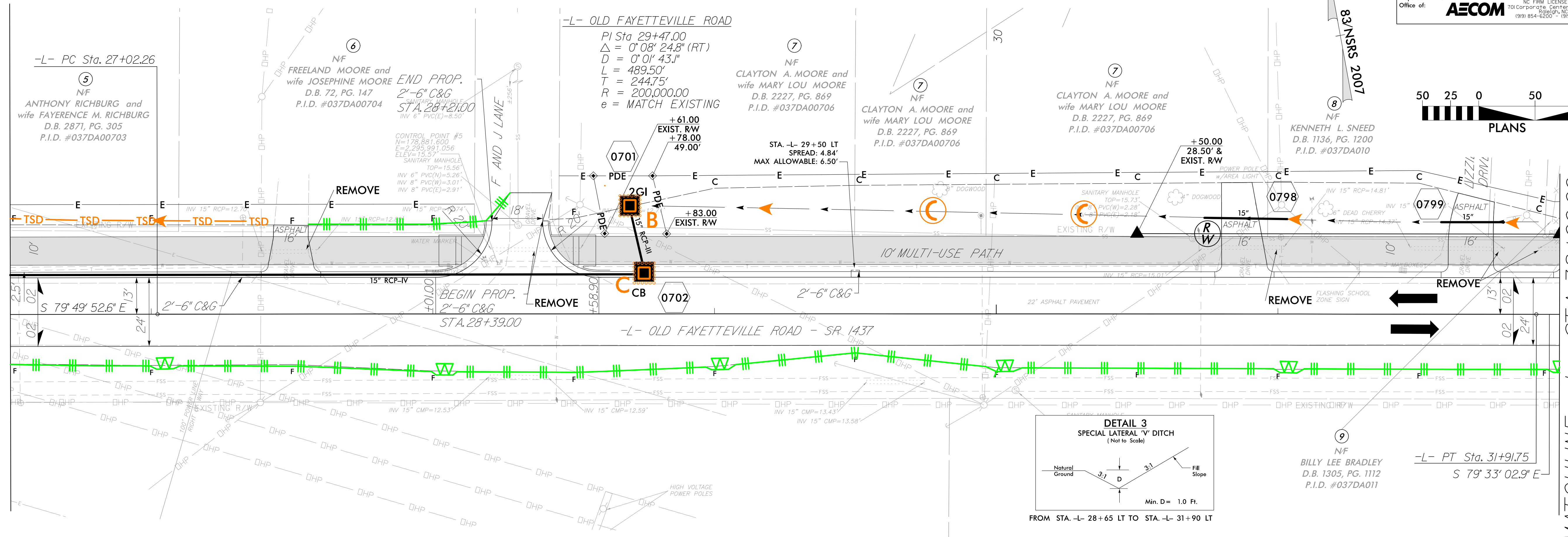
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8/17/99

I:\09\53 AM
R:\Environmental\Design\U5534D_REU_EC.15.dgn



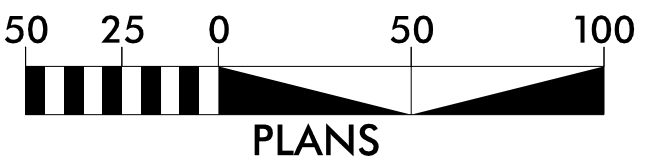
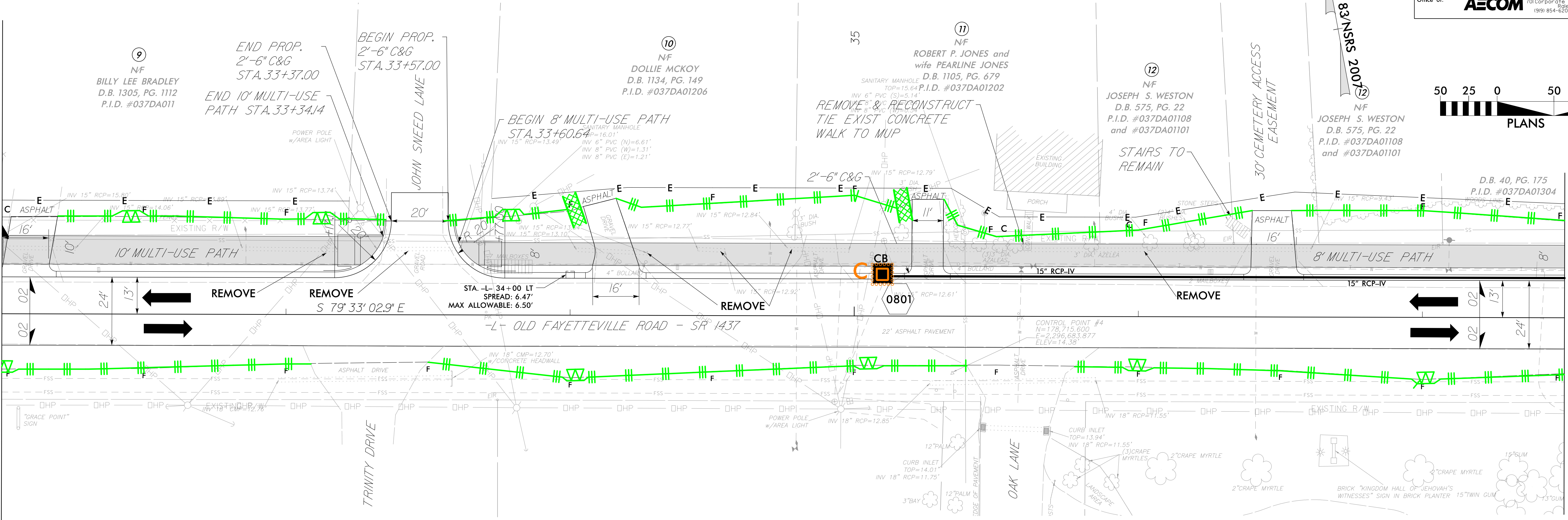




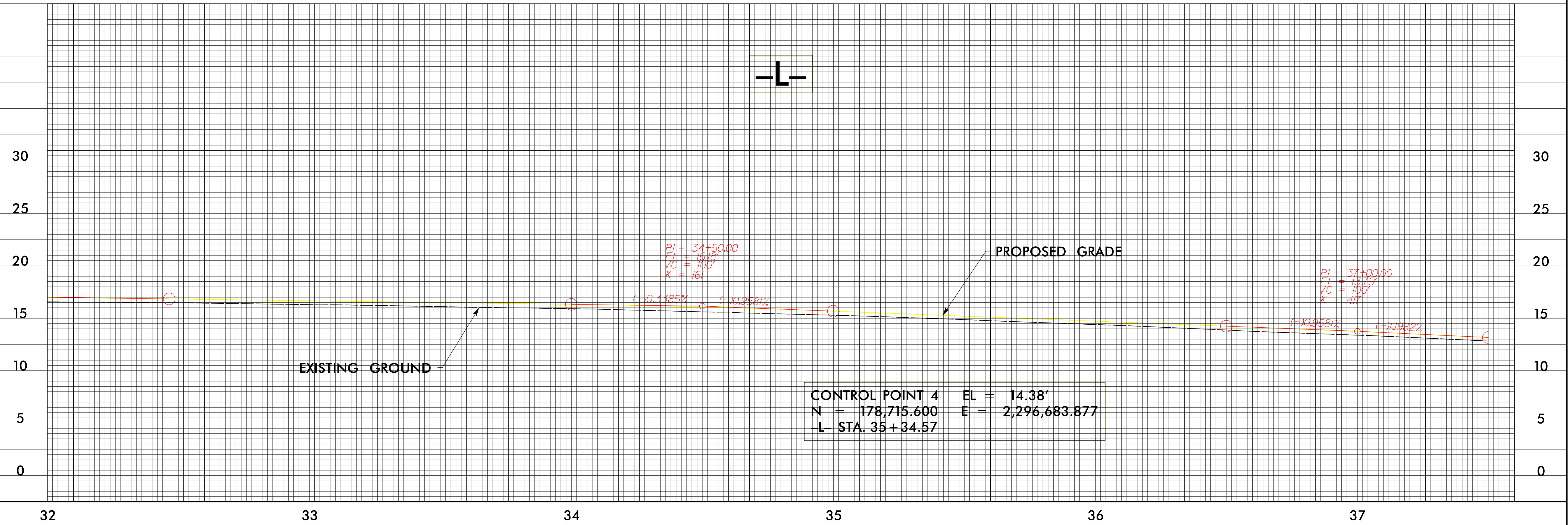
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U5534D	EC-18/CONST.08
RW SHEET NO.	
Prepared in the Office of: AECOM	
NC FIRM LICENSE No. F-0342 T01 Corporate Center Drive, Suite 475 Raleigh, NC 27601 (919) 854-6200 / (919) 854-6259 (FAX)	

MATCHLINE -L- STA. 32+00.00
SEE SHEET EC-17



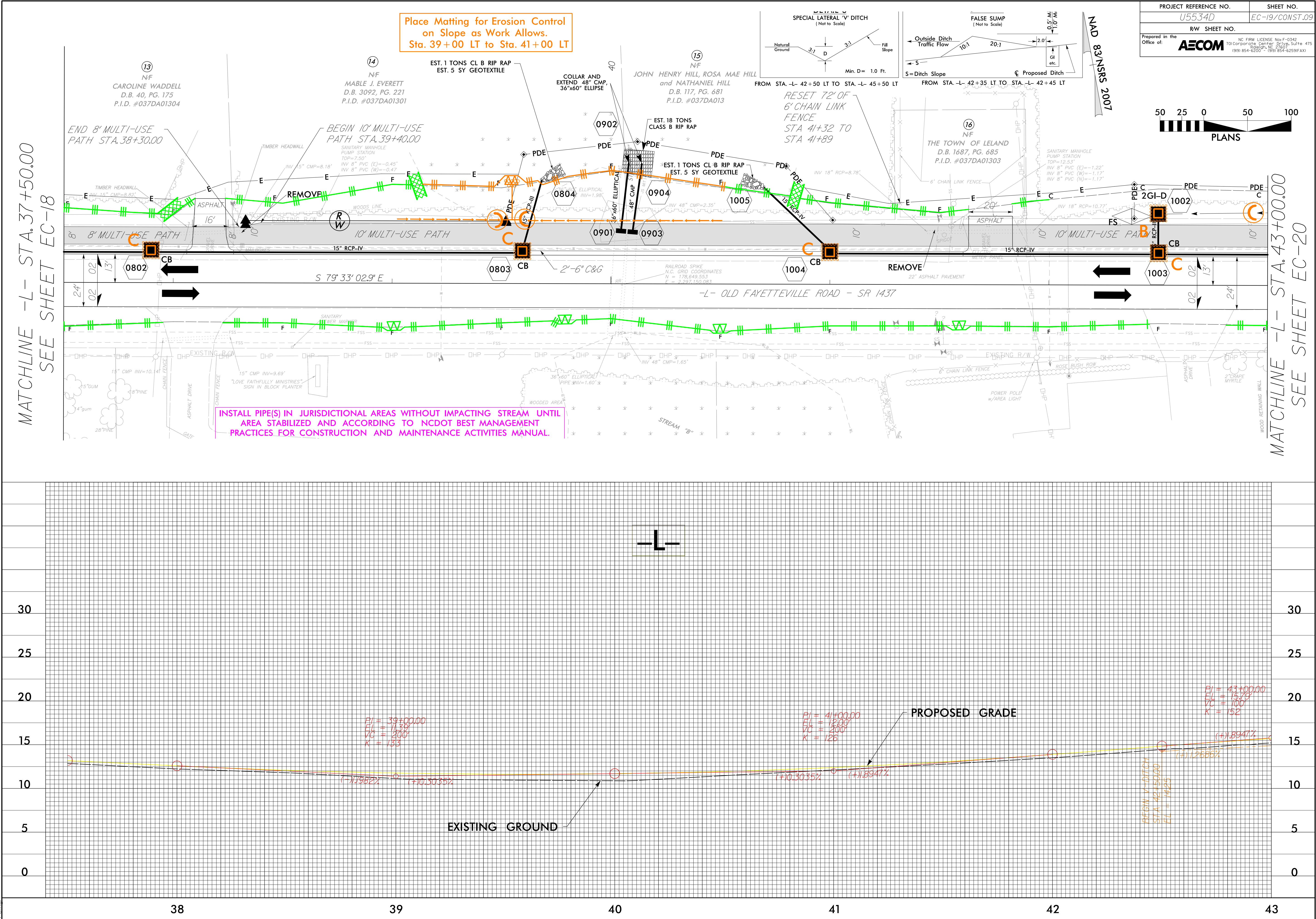
MATCHLINE -L- STA. 37+50.00
SEE SHEET EC-19



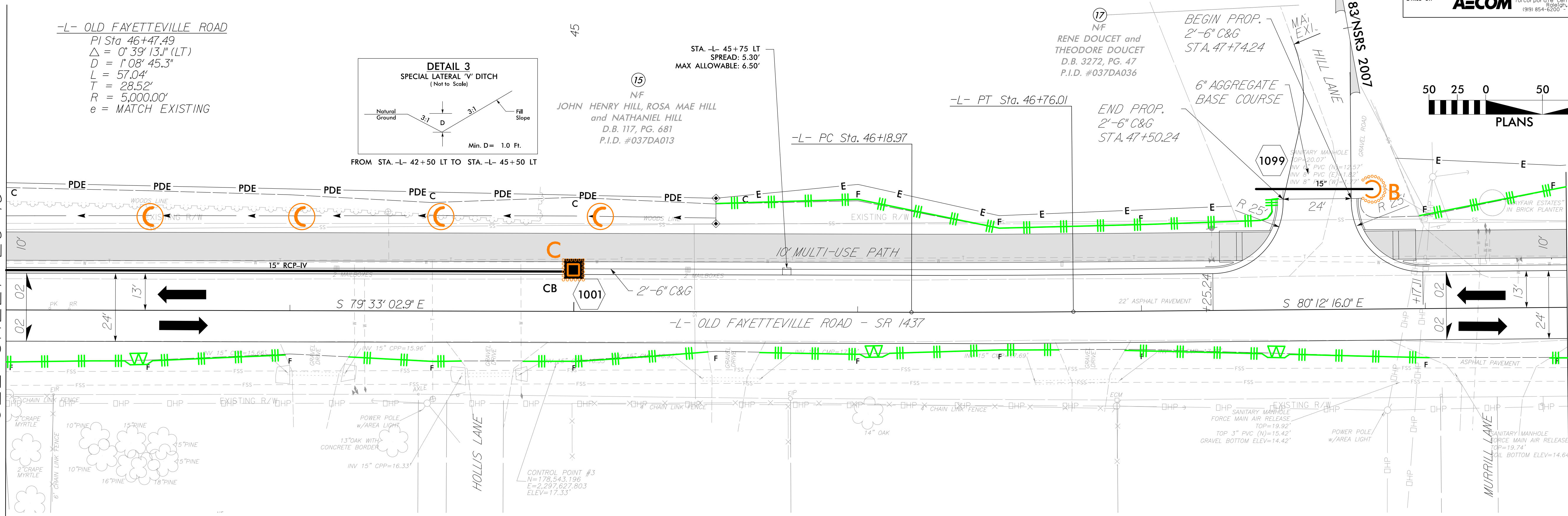
CONTROL POINT 4
N = 178,715.600
-L- STA. 35+34.57
EL = 14.38'
E = 2,296,683.877

8/17/99

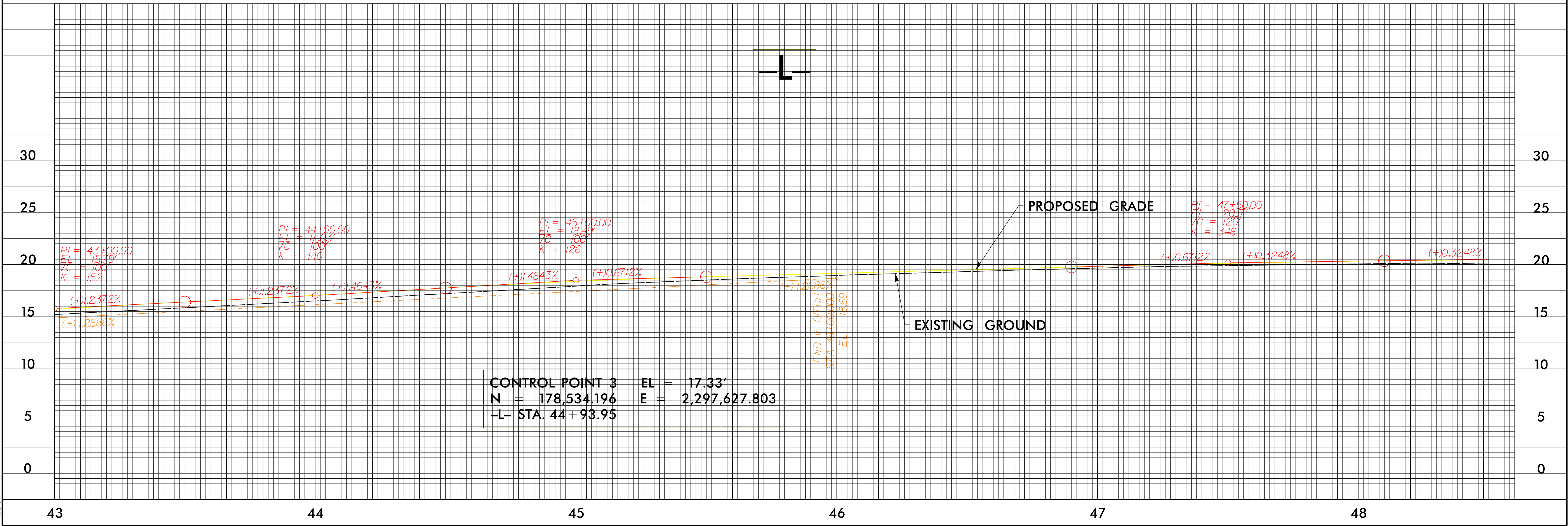
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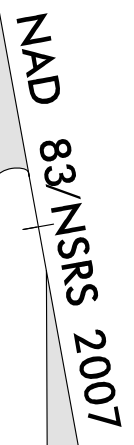
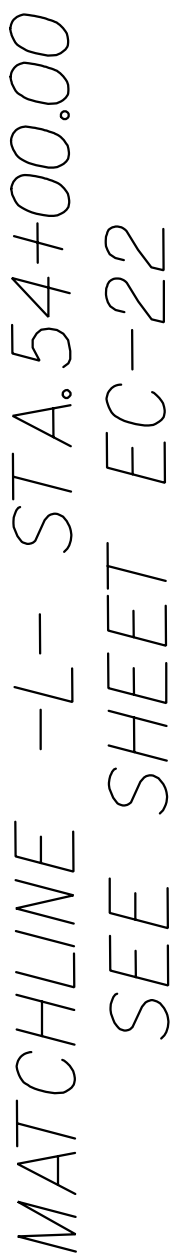


MATCHLINE -L- STA.43+00.00
SEE SHEET EC-19

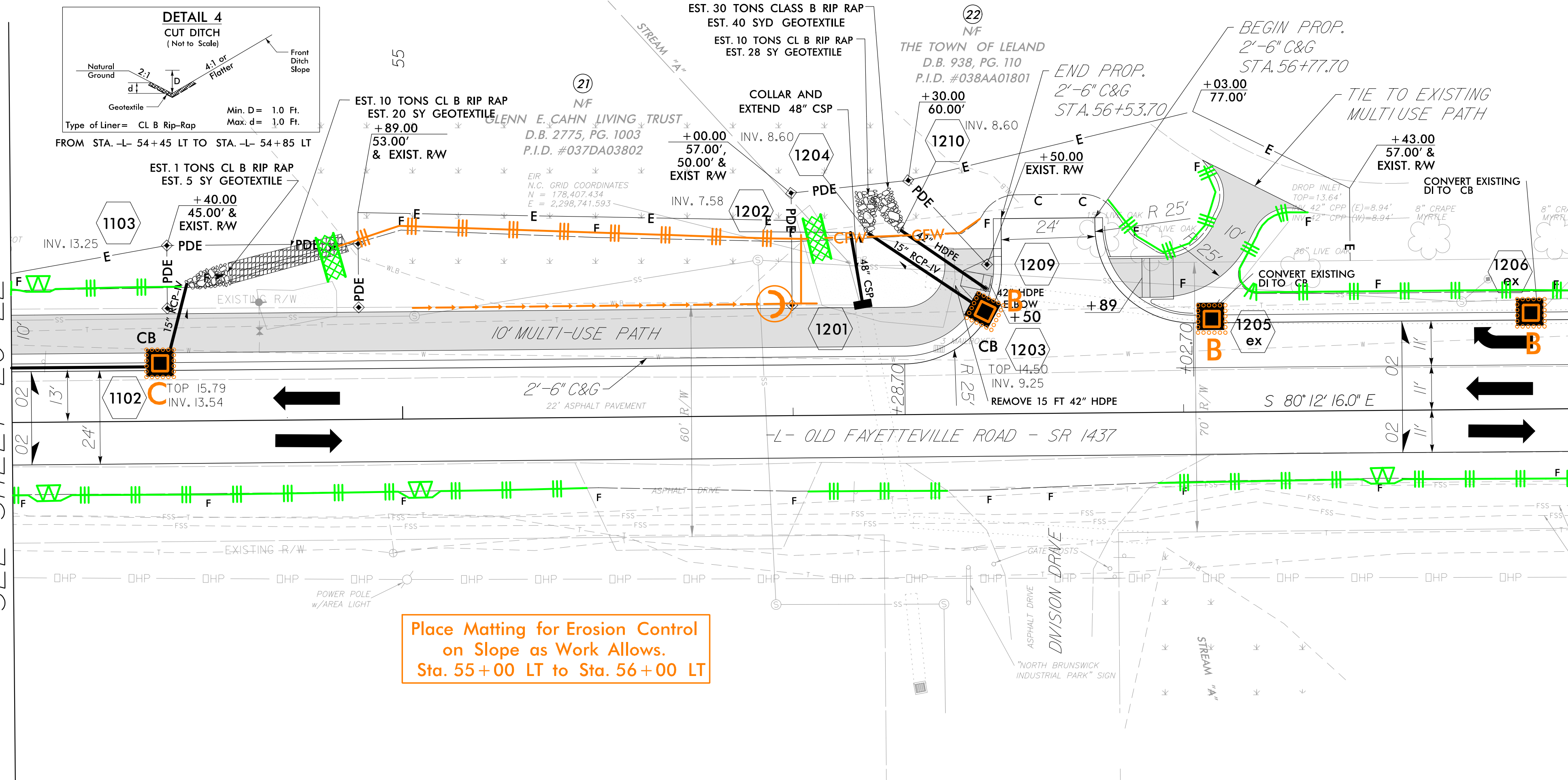


MATCHLINE -L- STA.48+50.00
SEE SHEET EC-21



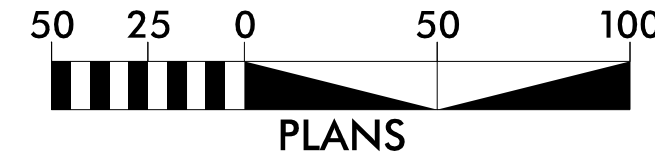


MATCHLINE -L- STA.54+00.00
SEE SHEET EC-22

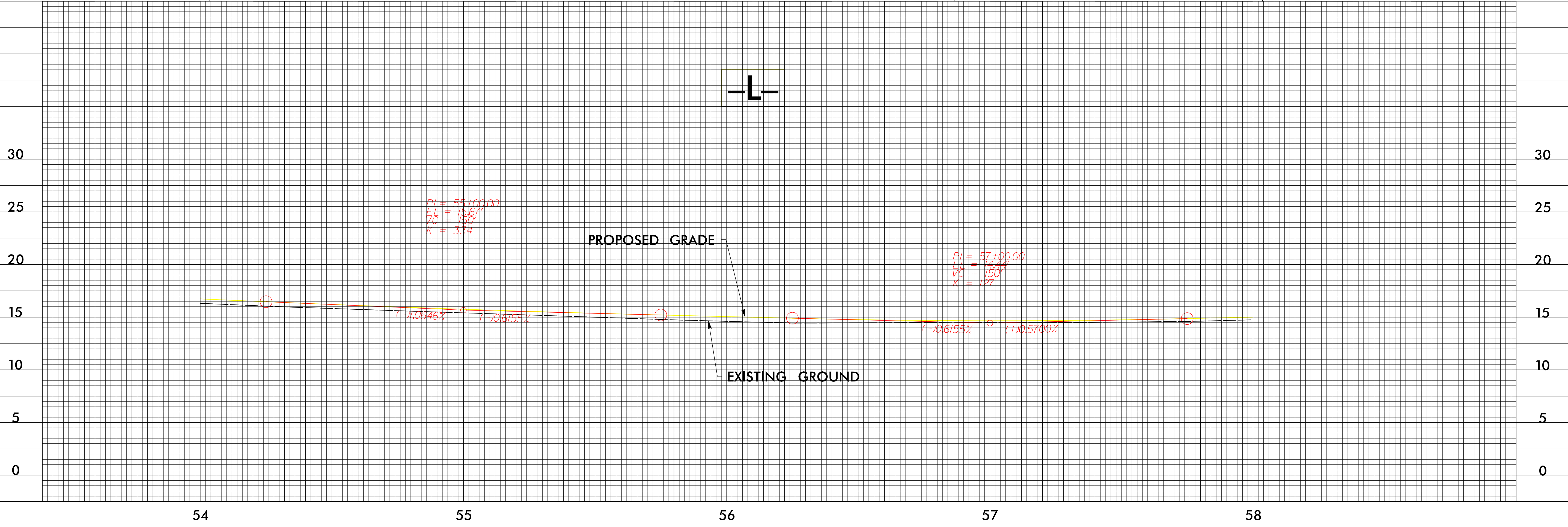


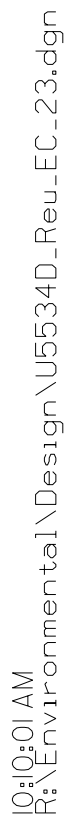
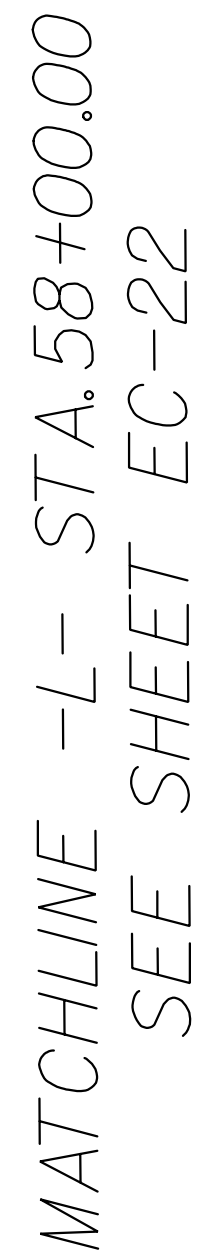
MATCHLINE -L- STA.58+00.00
SEE SHEET EC-23

NAD 83/NSRS 2007

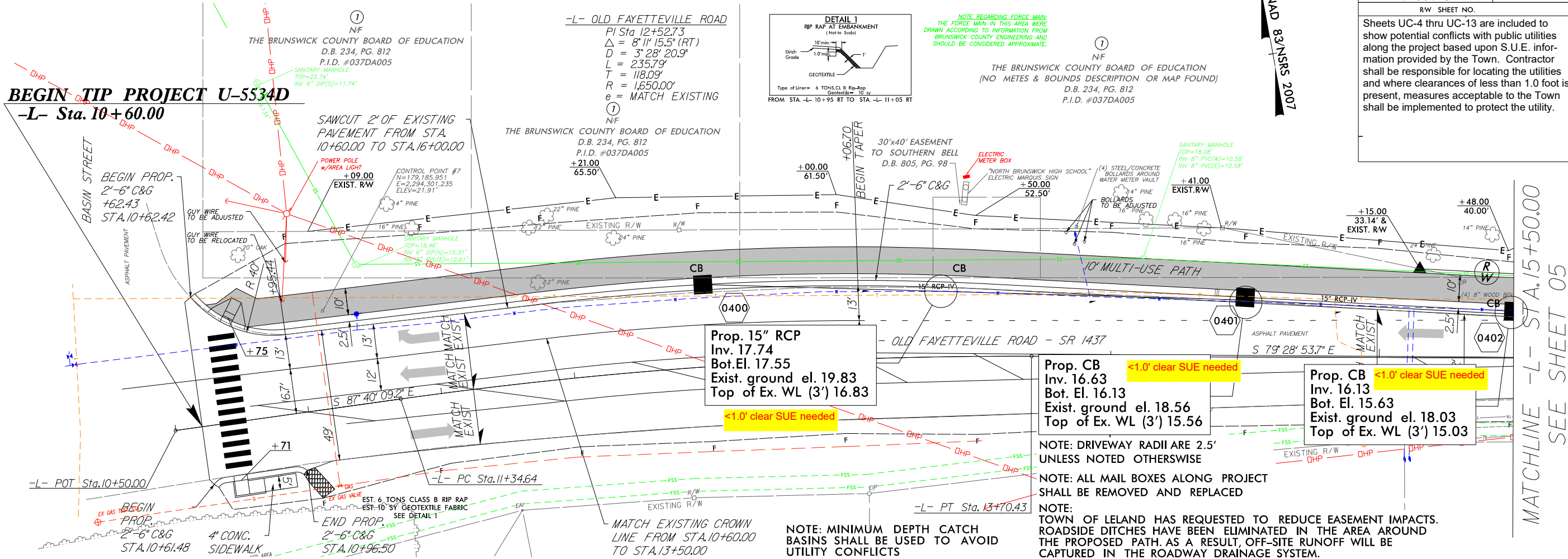


PROJECT REFERENCE NO.	SHEET NO.
U5534D	EC-22/CONST.2
RW SHEET NO.	
AECOM	
Prepared in the Office of: AECOM	
NC FIRM LICENSE: Not F-0342 TOL Corporate Center, Suite 475 Raleigh, NC 27601 (919) 854-6200 / (919) 854-6259 (FAX)	



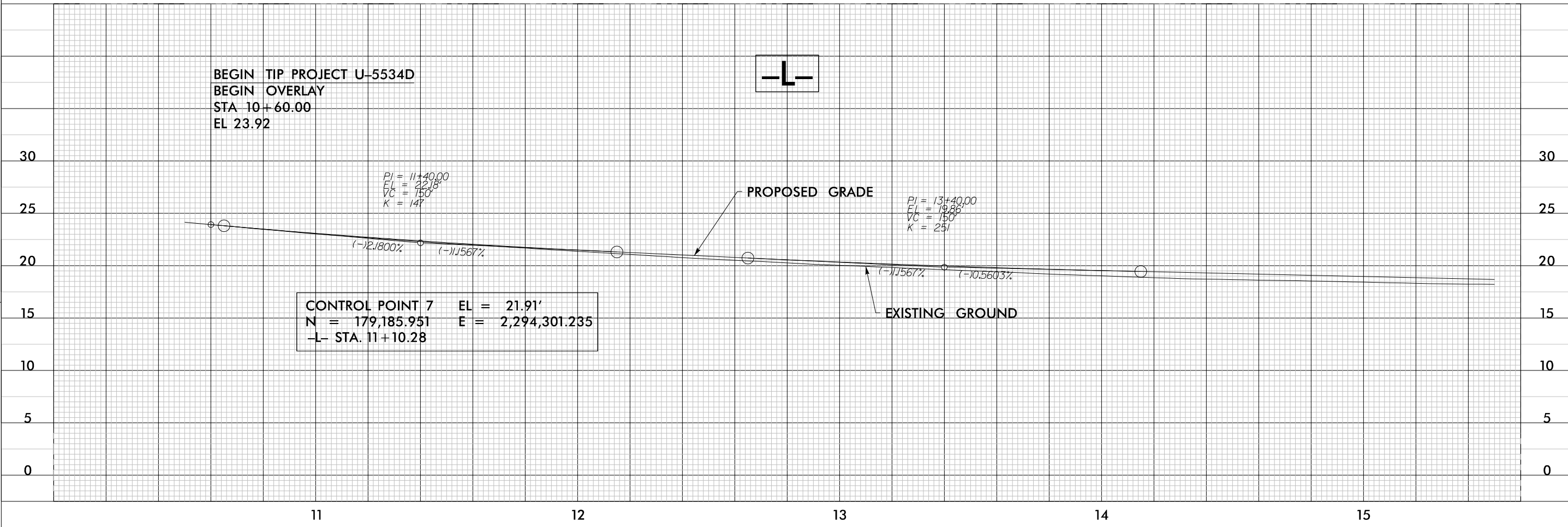


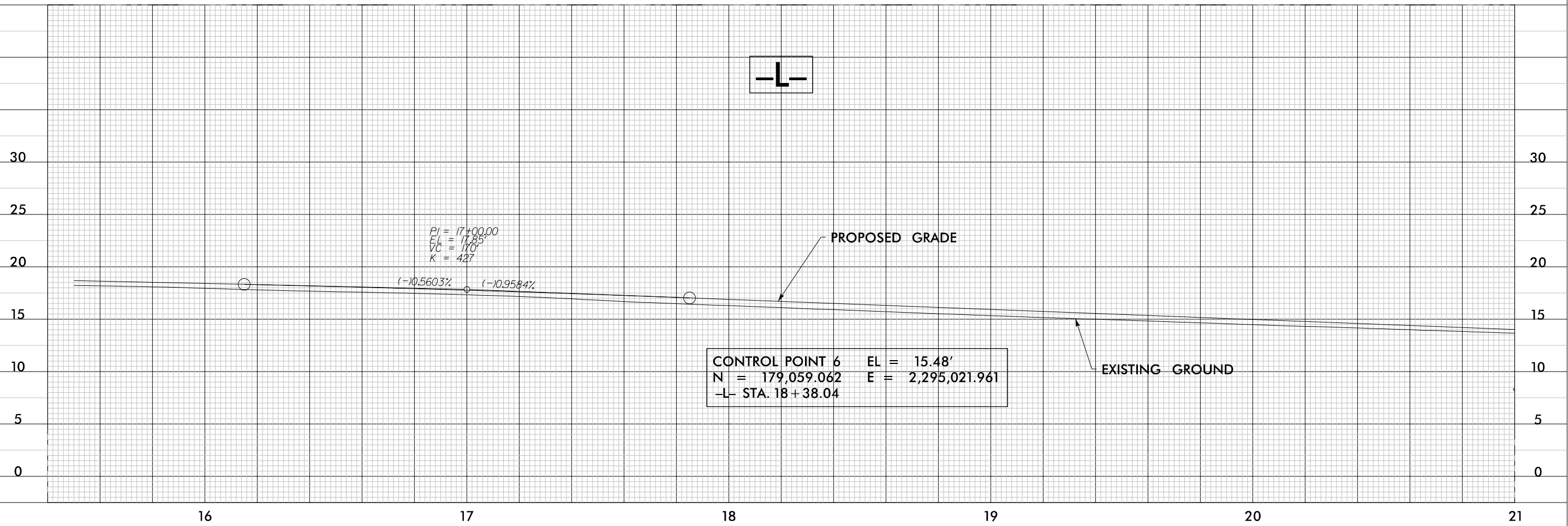
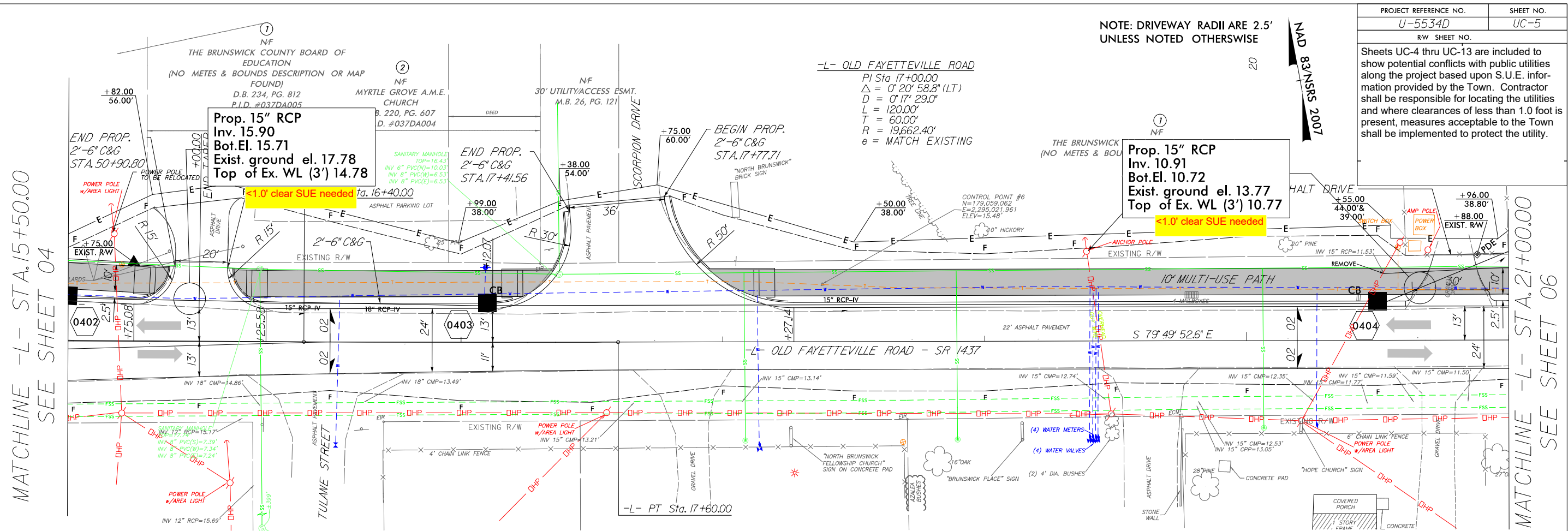
BEGIN TIP PROJECT U-5534D
-L- Sta. 10+60.00

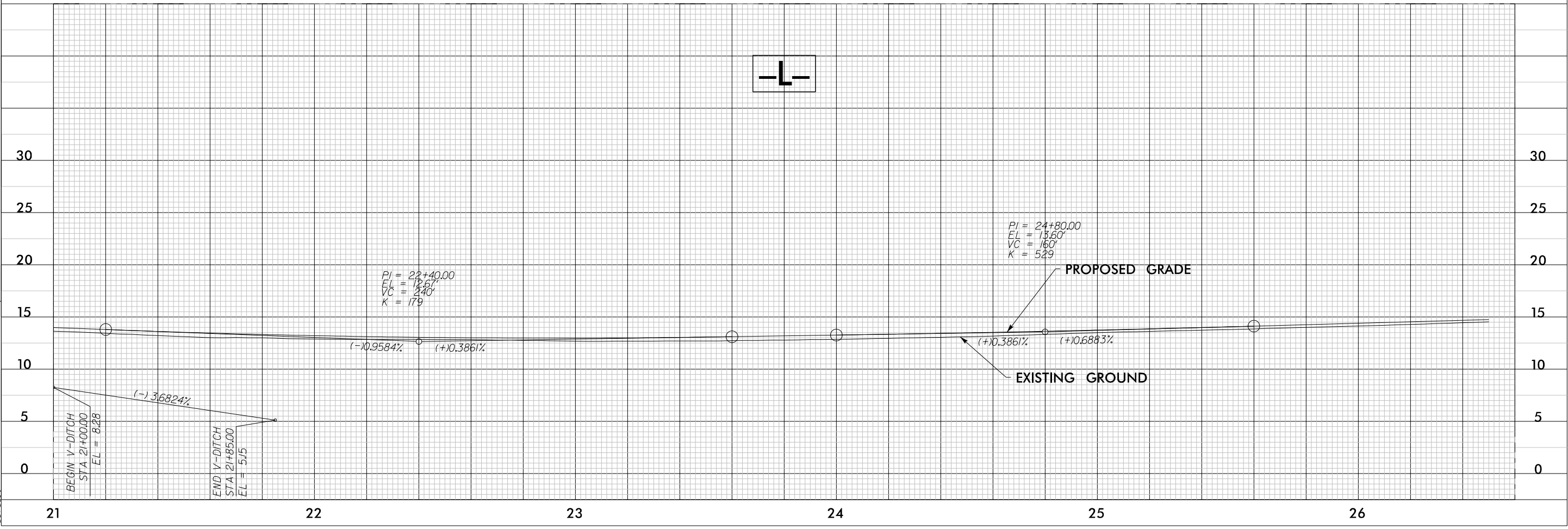
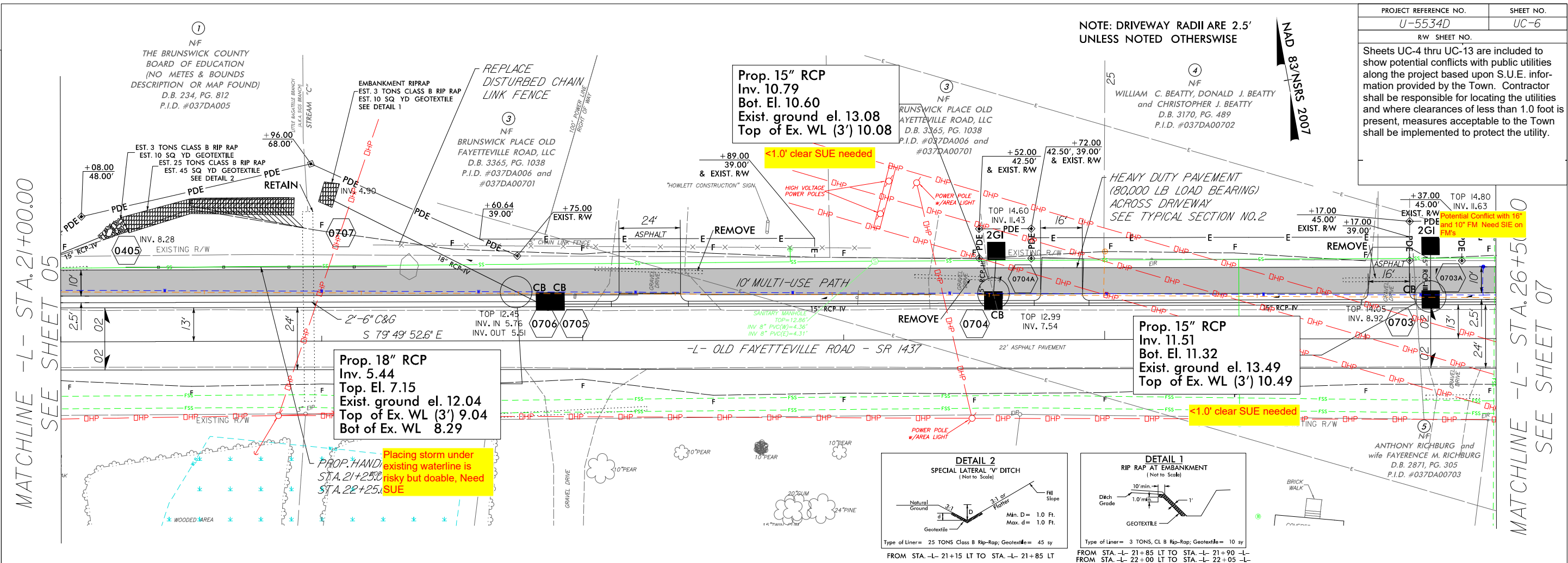


MATCHLINE -L- STA. 15+50.00
SEE SHEET 05

PROJECT REFERENCE NO.	SHEET NO.
U-5534D	UC-4
RW SHEET NO.	
Sheets UC-4 thru UC-13 are included to show potential conflicts with public utilities along the project based upon S.U.E. information provided by the Town. Contractor shall be responsible for locating the utilities and where clearances of less than 1.0 foot is present, measures acceptable to the Town shall be implemented to protect the utility.	

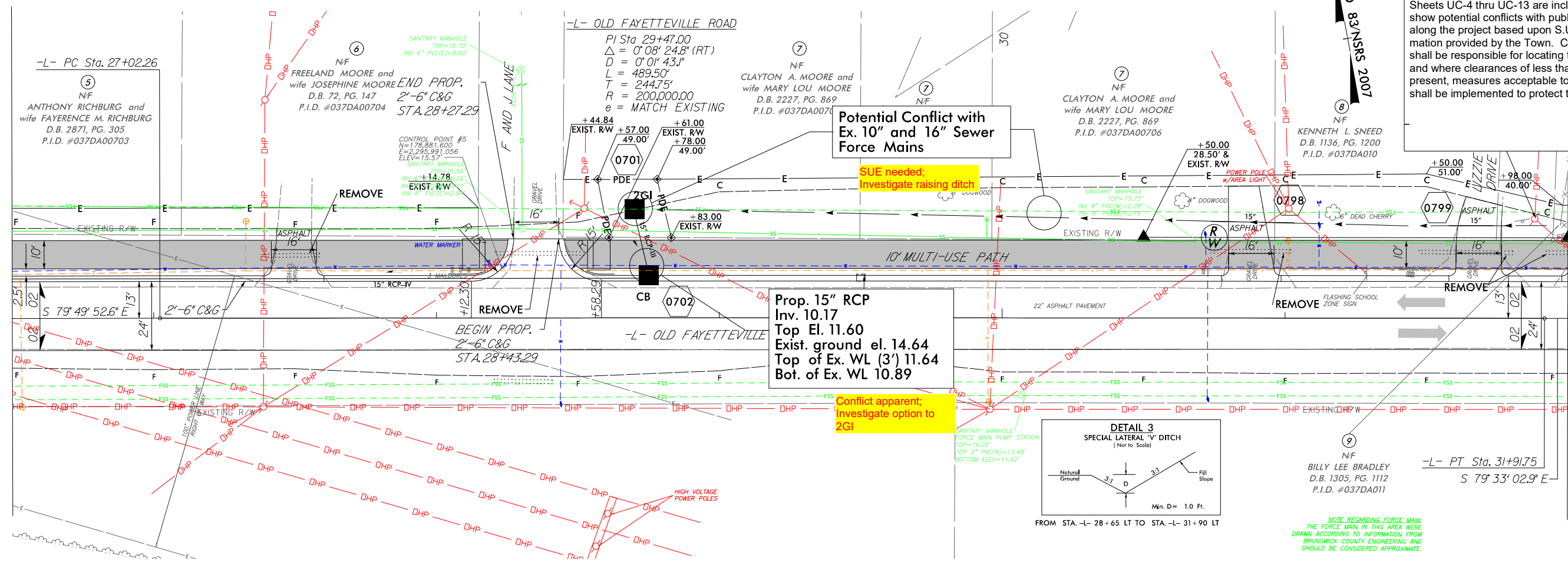






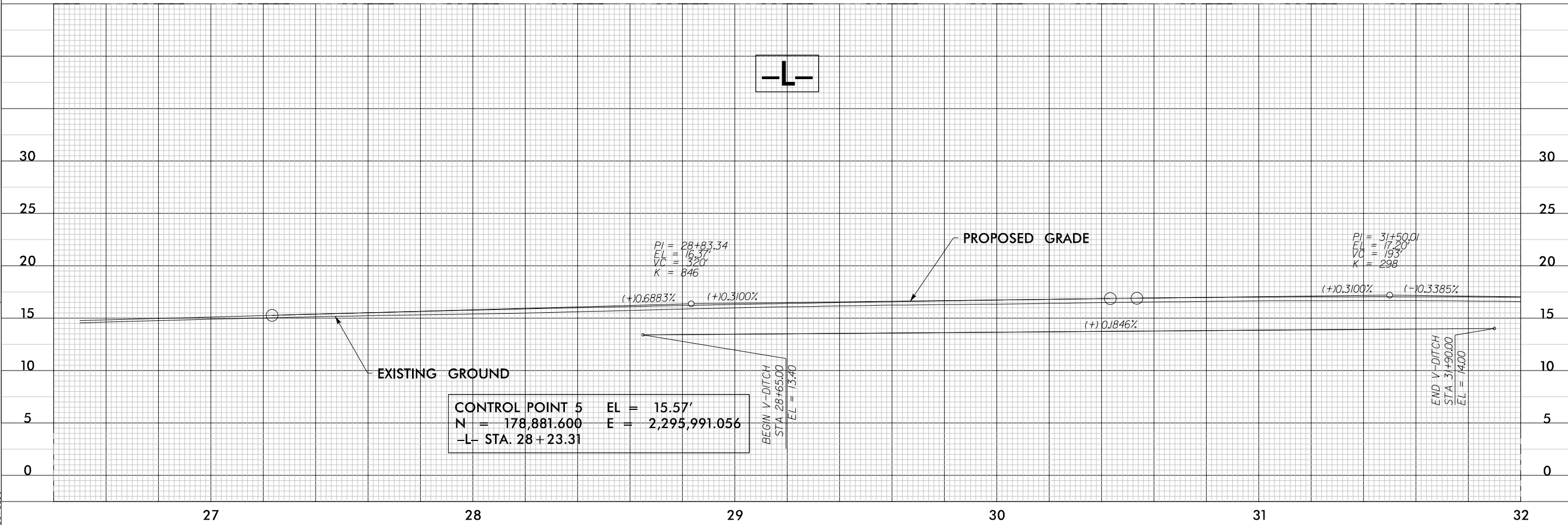
—

NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE



MATCHLINE -L- STA. 26+50.00
SEE SHEET 06

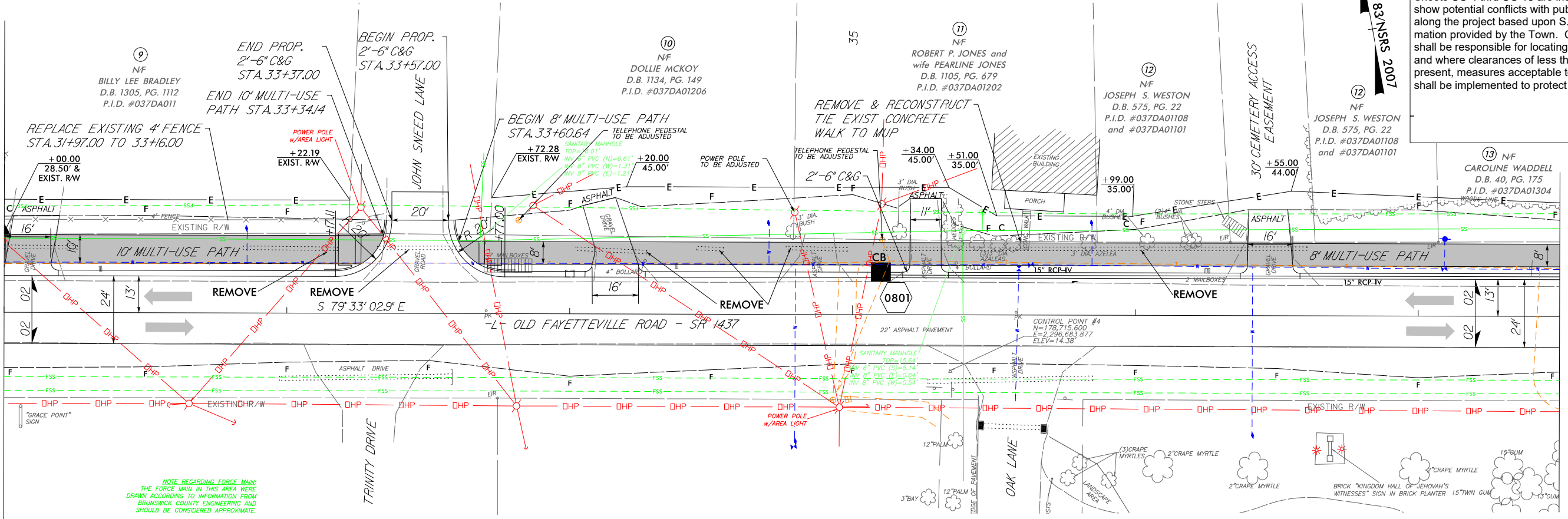
MATCHLINE -L- STA. 32+00.00
SEE SHEET 08



REVISIONS

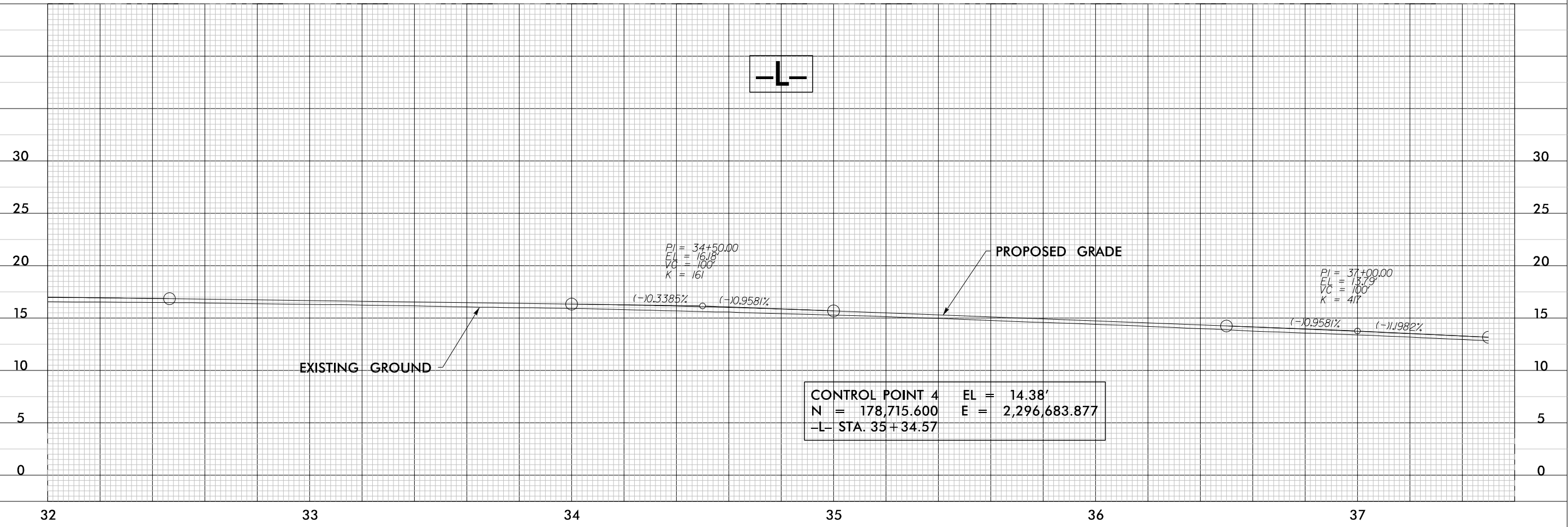
5:28:44 PM C:\Users\jvillalva\Jobs\N\5534D_0LD.FAYETTEVILLE.RD\900.Work\910.CAD\70.NCDDT_TIP\Roadway\Proj\U5534D_uc_psh_07.dgn default	8/17/99
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MATCHLINE -L- STA.32+00.00
SEE SHEET 07

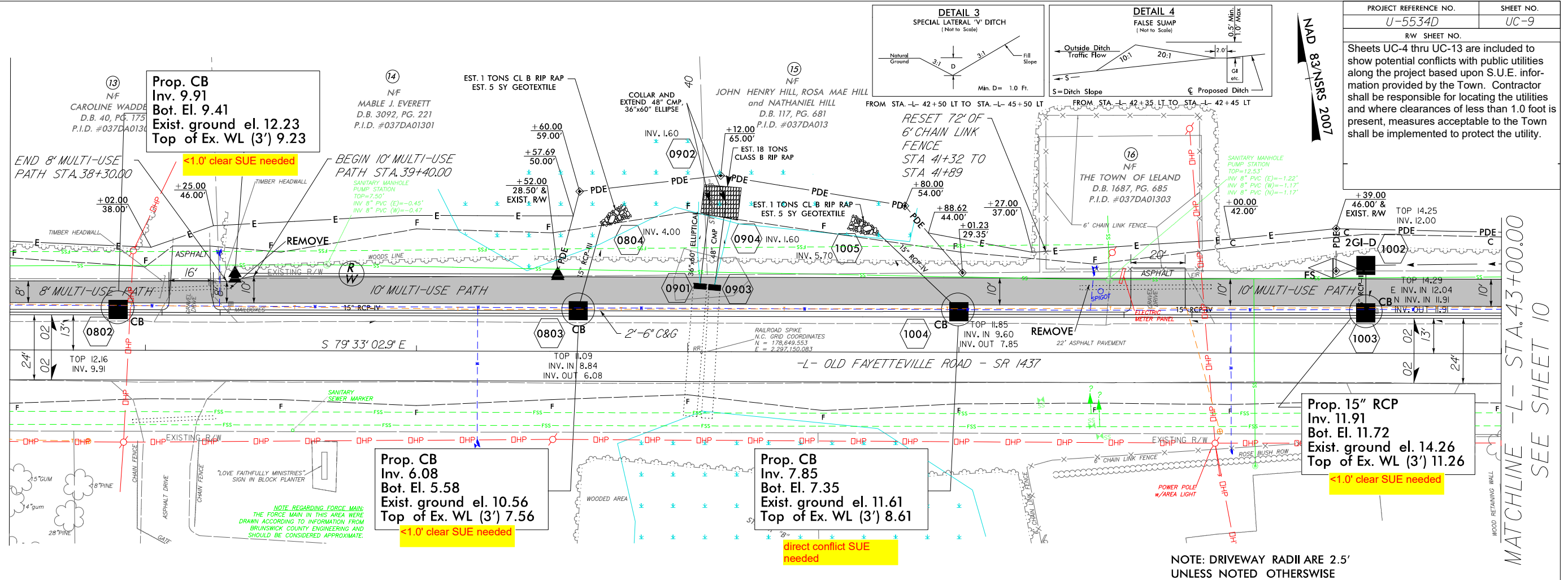


MATCHLINE -L- STA.37+50.00
SEE SHEET 09

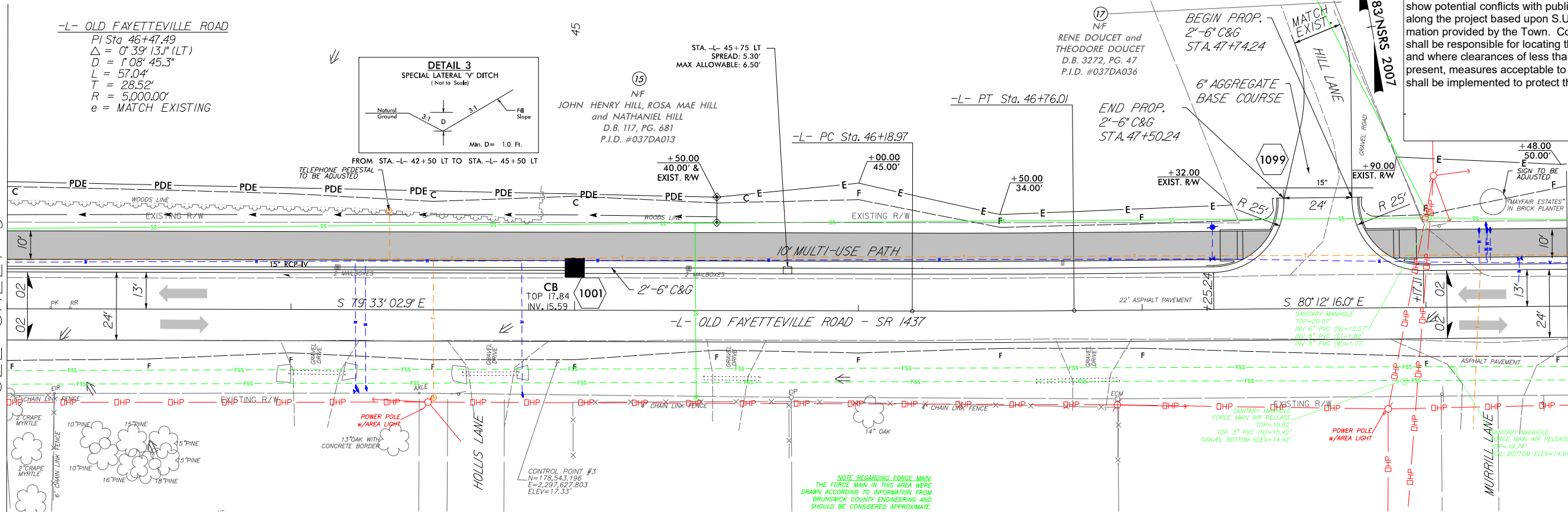
PROJECT REFERENCE NO.	SHEET NO.
U-5534D	UC-8
RW SHEET NO.	
Sheets UC-4 thru UC-13 are included to show potential conflicts with public utilities along the project based upon S.U.E. information provided by the Town. Contractor shall be responsible for locating the utilities and where clearances of less than 1.0 foot is present, measures acceptable to the Town shall be implemented to protect the utility.	



MATCHLINE -L- STA. 37+50.00
SEE SHEET 08

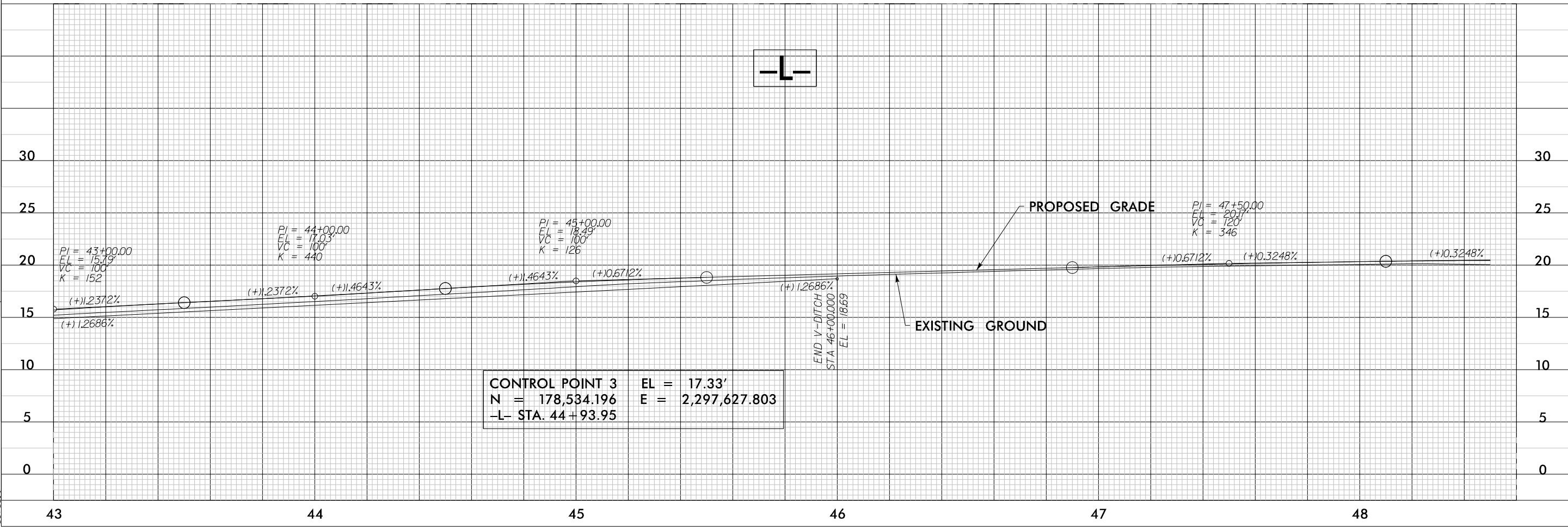


MATCHLINE -L- STA. 43+00.00
SEE SHEET 9



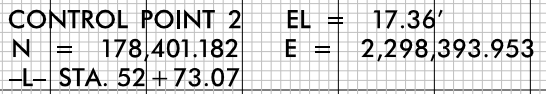
MATCHLINE -L- STA. 48+50.00
SEE SHEET 11

NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE



CONTROL POINT 3
N = 178,534.196
E = 2,297,627.803
-L- STA. 44+93.95

REVISIONS

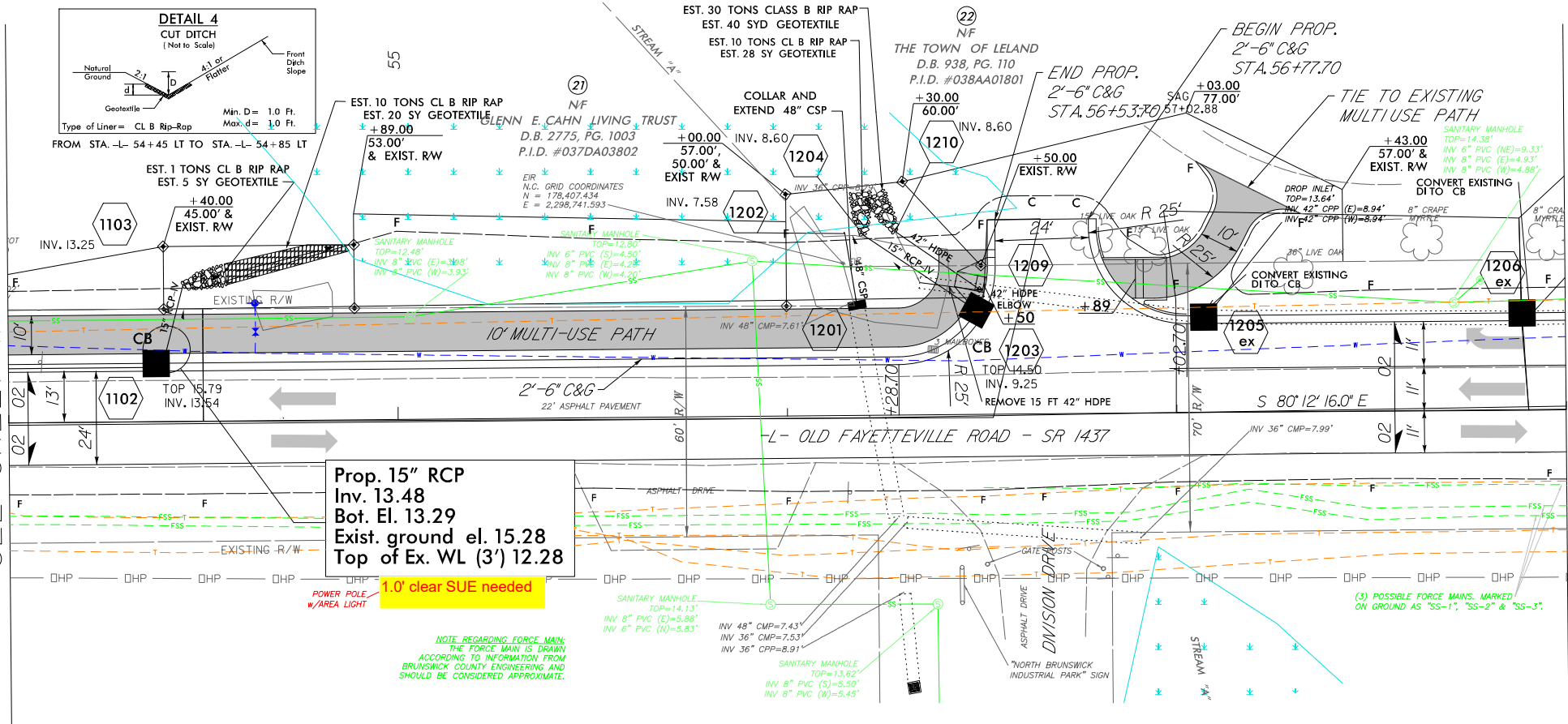


REVISIONS

8/17/99

5:35:56 PM
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MATCHLINE -L- STA.54+00.00
SEE SHEET 11

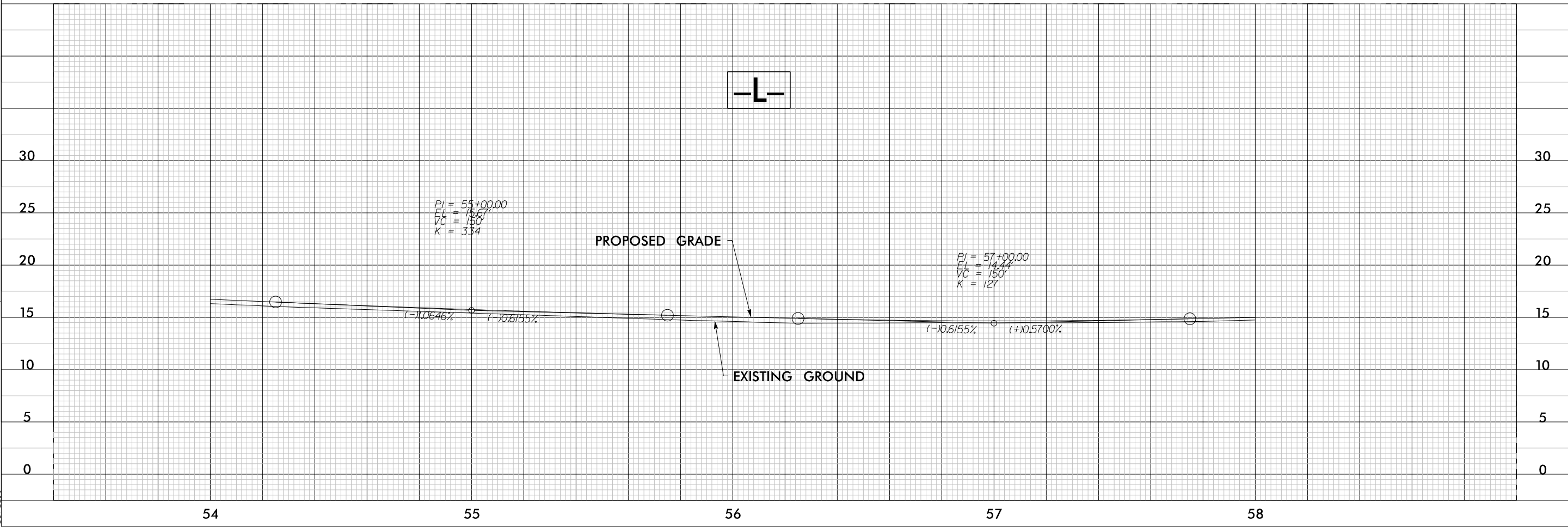


MATCHLINE -L- STA.58+00.00
SEE SHEET 13

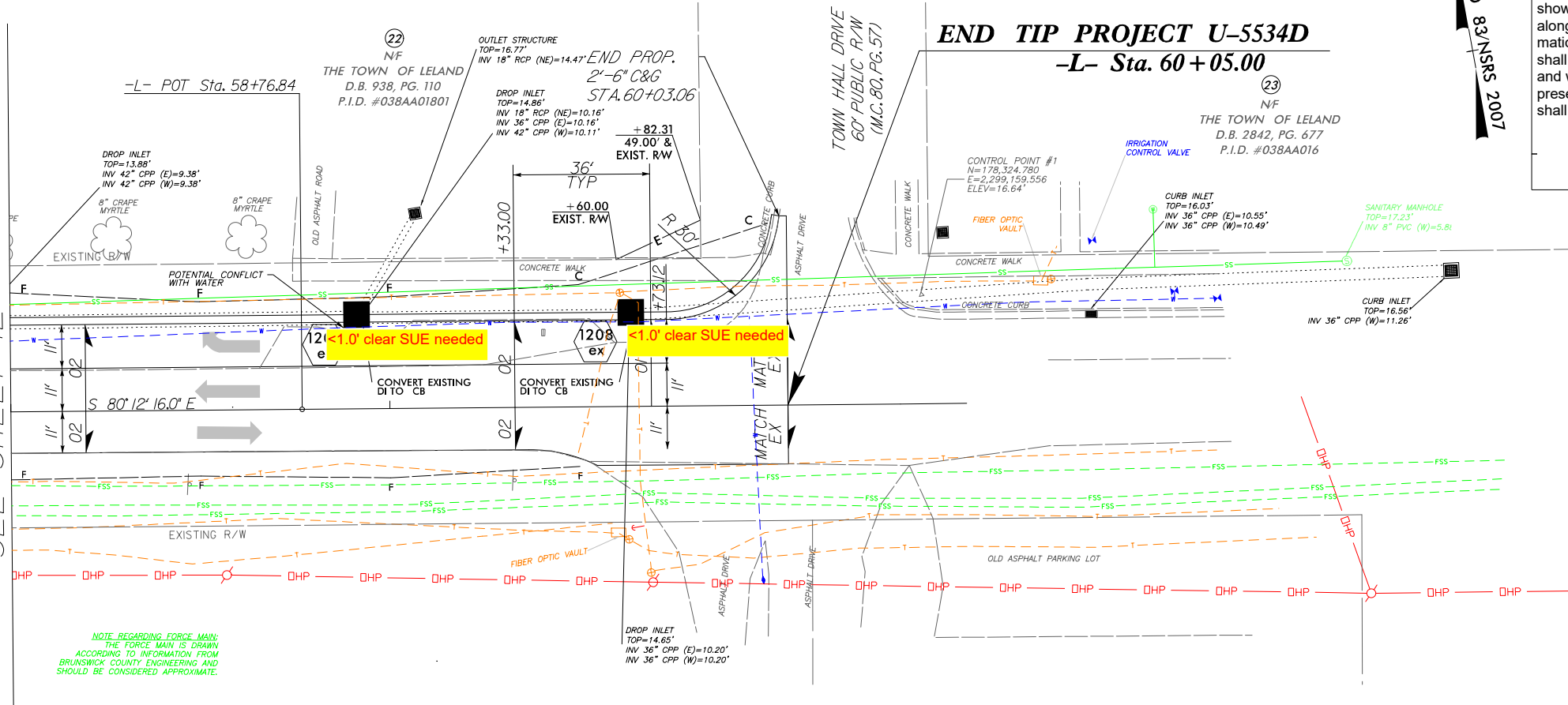
NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
U-5534D	UC-12
R/W SHEET NO.	
Sheets UC-4 thru UC-13 are included to show potential conflicts with public utilities along the project based upon S.U.E. information provided by the Town. Contractor shall be responsible for locating the utilities and where clearances of less than 1.0 foot is present, measures acceptable to the Town shall be implemented to protect the utility.	

NAD 83/NSRS 2007

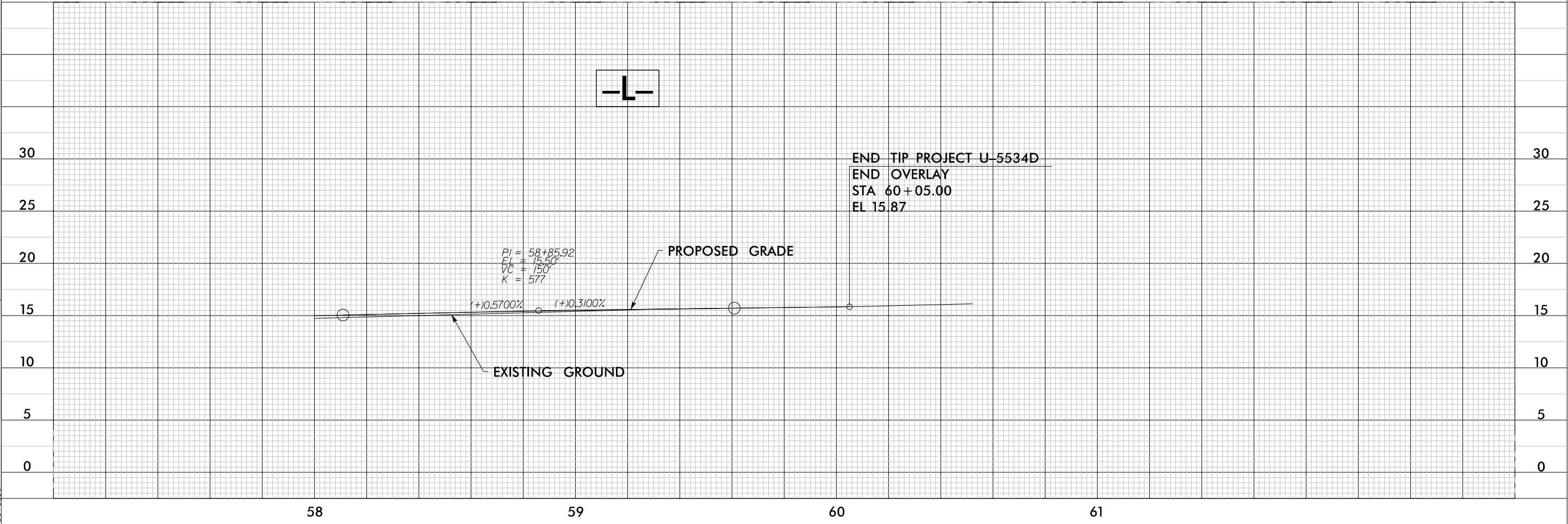


MATCHLINE -L- STA. 58+00.00
SEE SHEET 12



PROJECT REFERENCE NO.	SHEET NO.
U-5534D	UC-13
RW SHEET NO.	
Sheets UC-4 thru UC-13 are included to show potential conflicts with public utilities along the project based upon S.U.E. information provided by the Town. Contractor shall be responsible for locating the utilities and where clearances of less than 1.0 foot is present, measures acceptable to the Town shall be implemented to protect the utility.	

NAD 83 N/SRS 2007

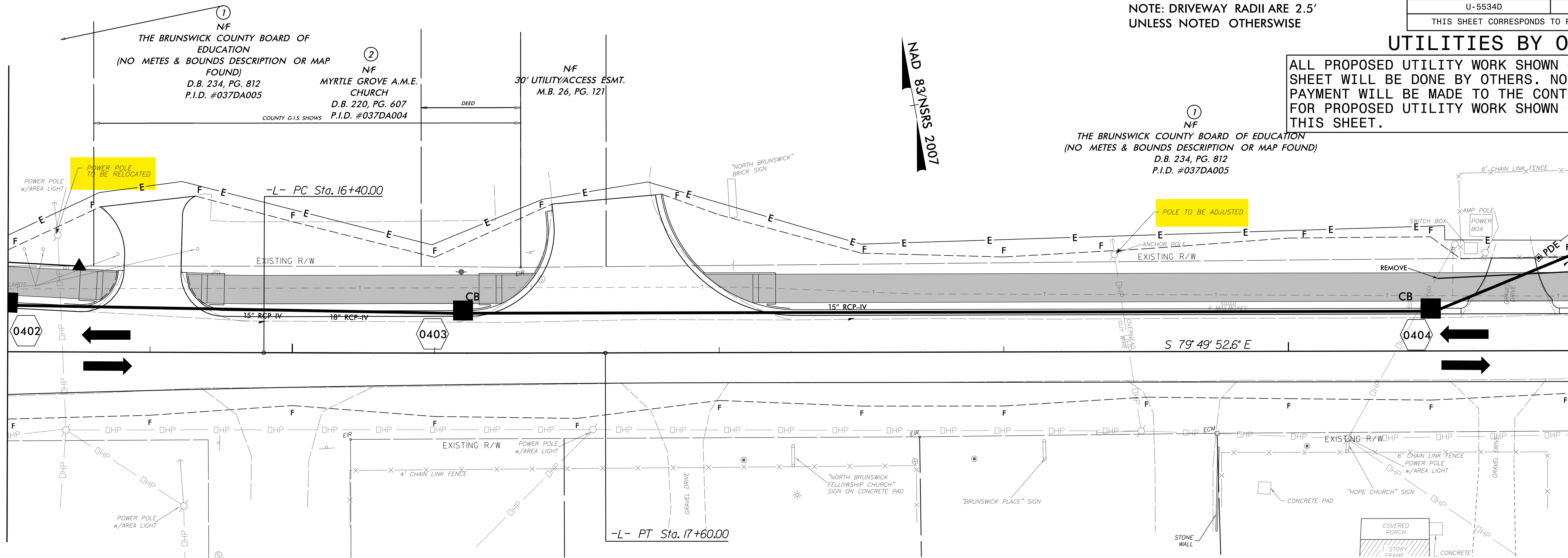


NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

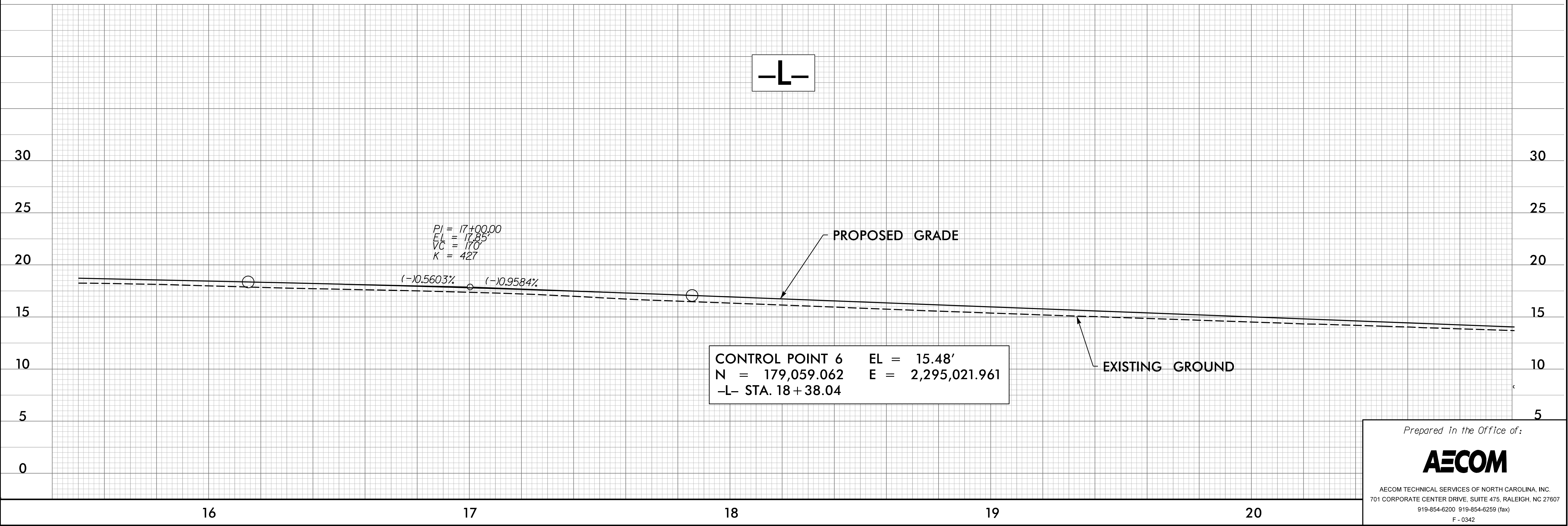
UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

MATCHLINE -L- STA.15+50.00
SEE SHEET 04



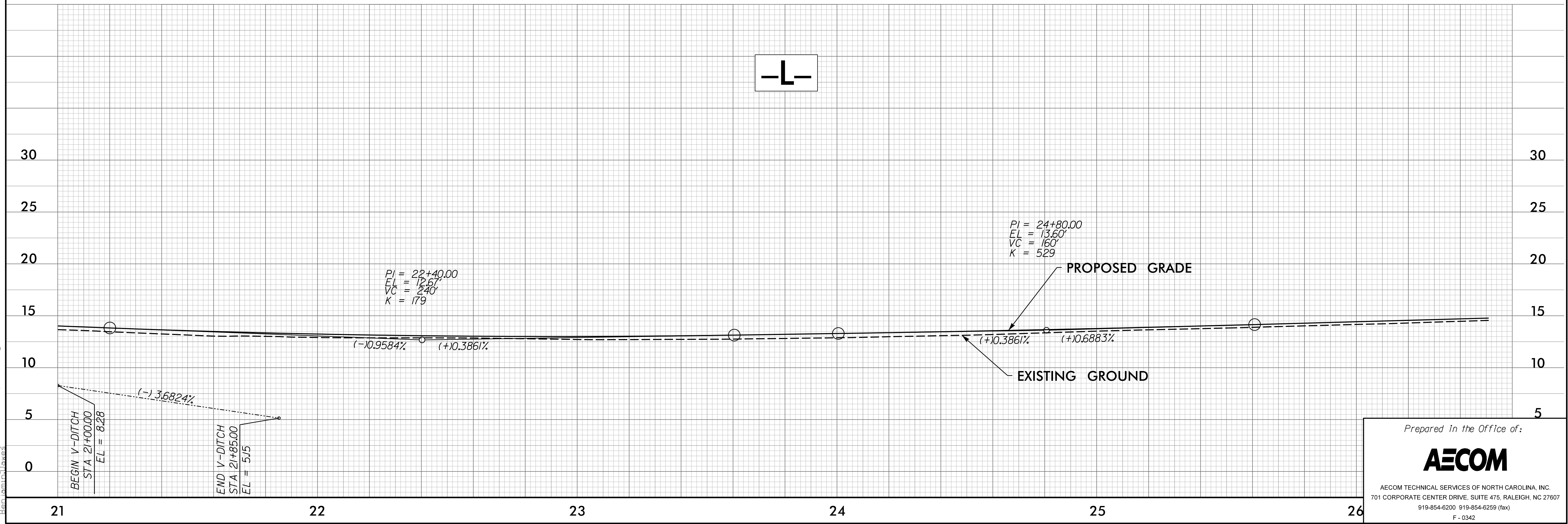
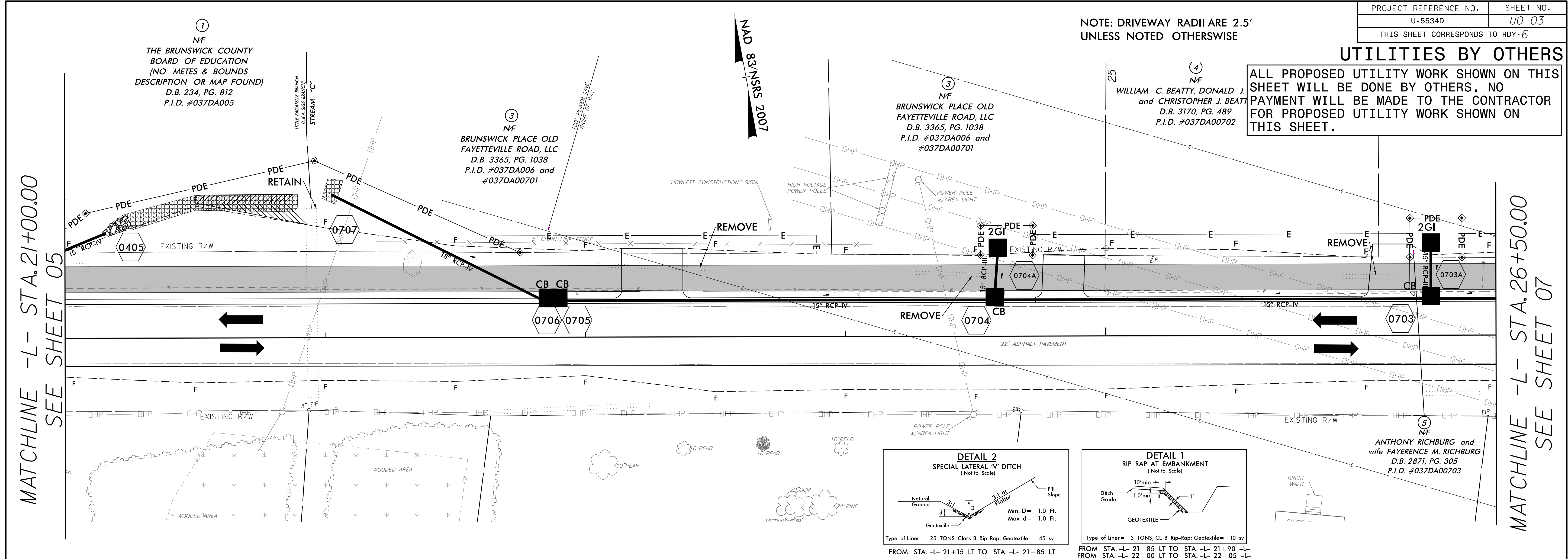
MATCHLINE -L- STA.21+00.00
SEE SHEET 06



UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

NOTE: DRIVEWAY RADII ARE 2.5' UNLESS NOTED OTHERWISE



Prepared in the Office of:

AECOM

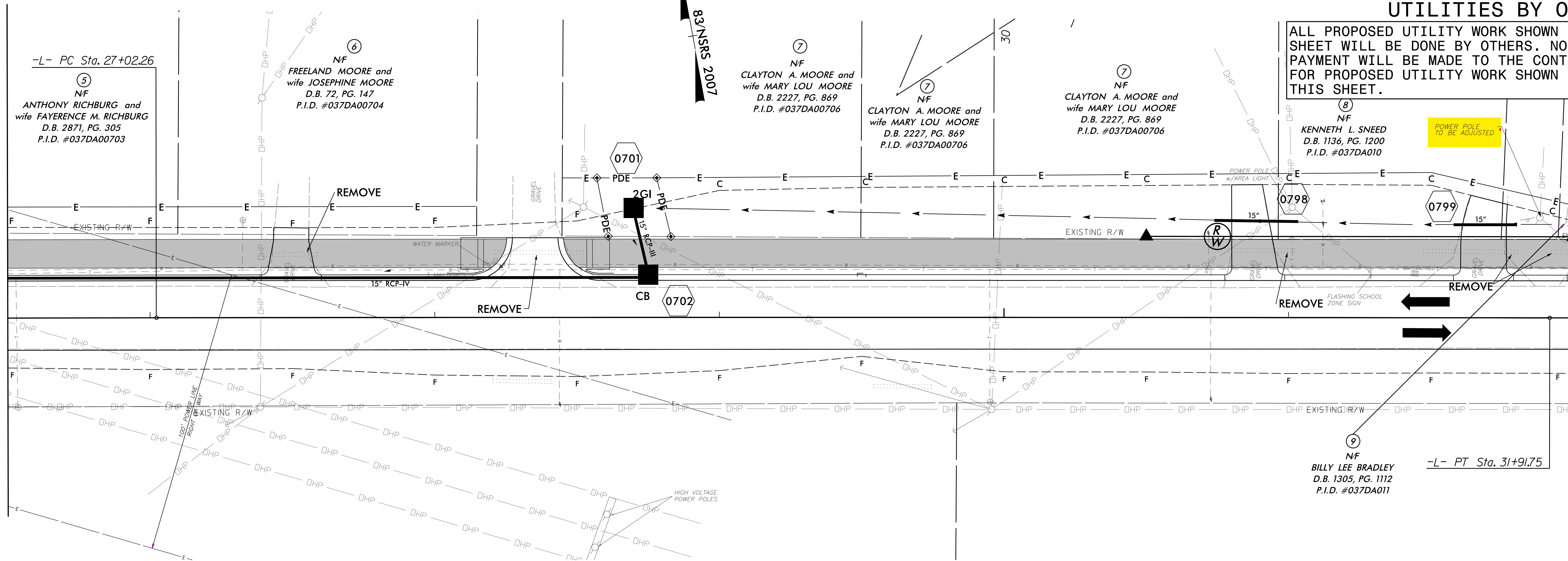
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

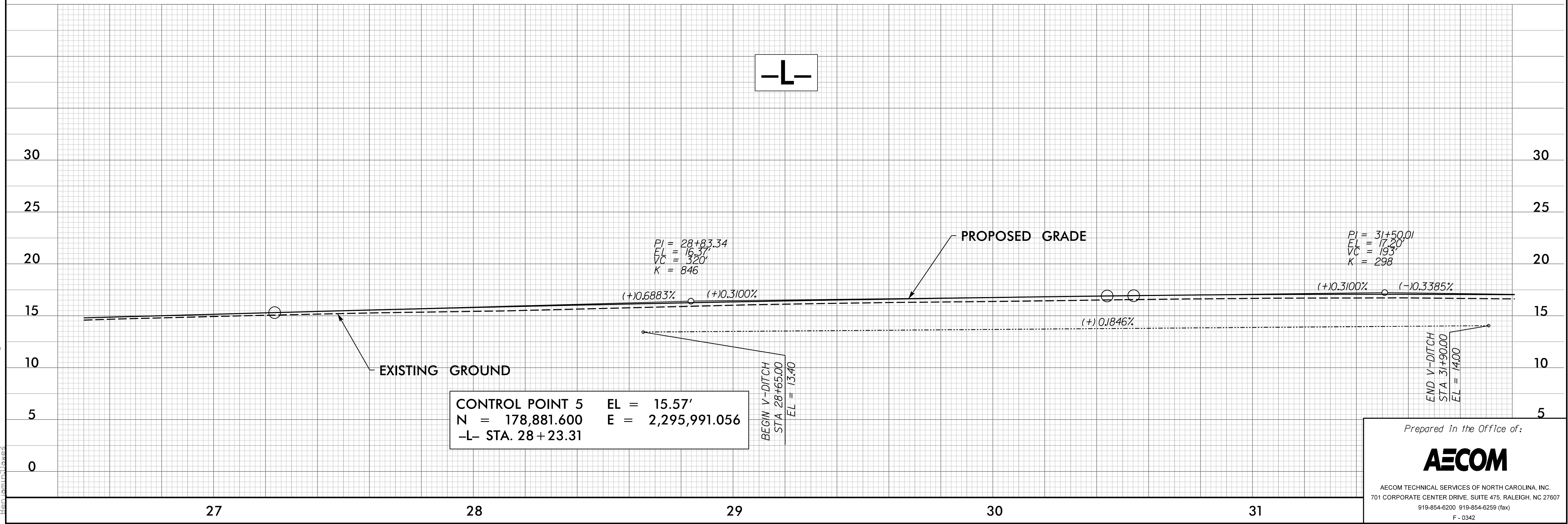
UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

MATCHLINE -L- STA.26+50.00
SEE SHEET 06



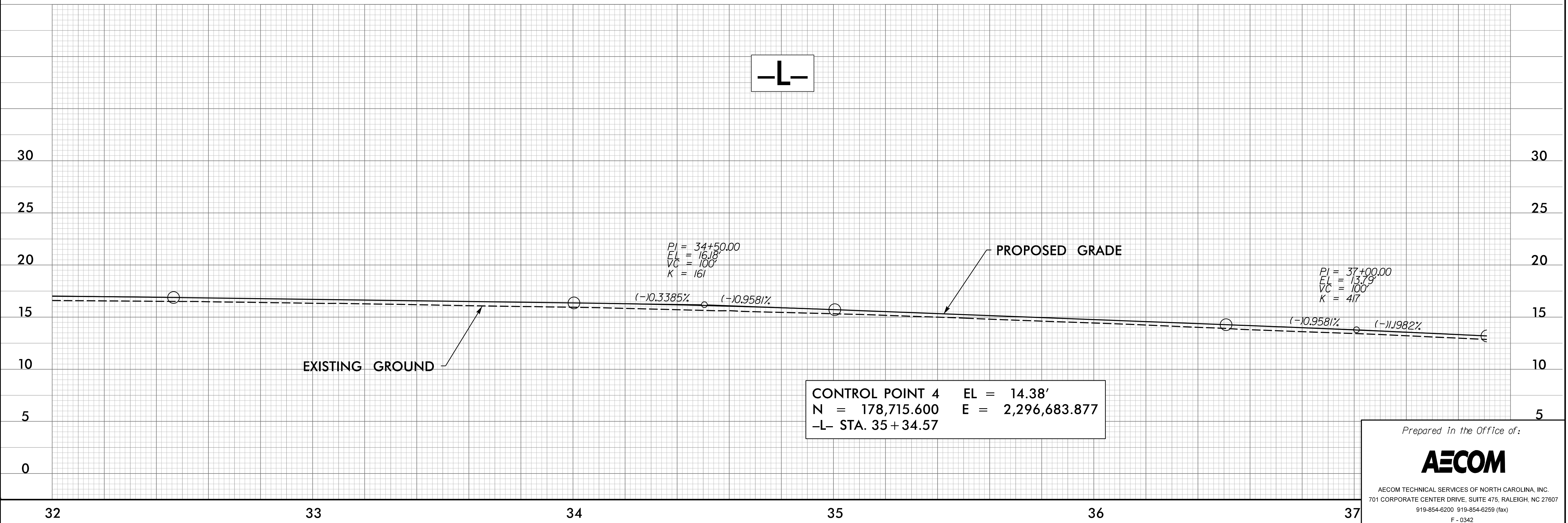
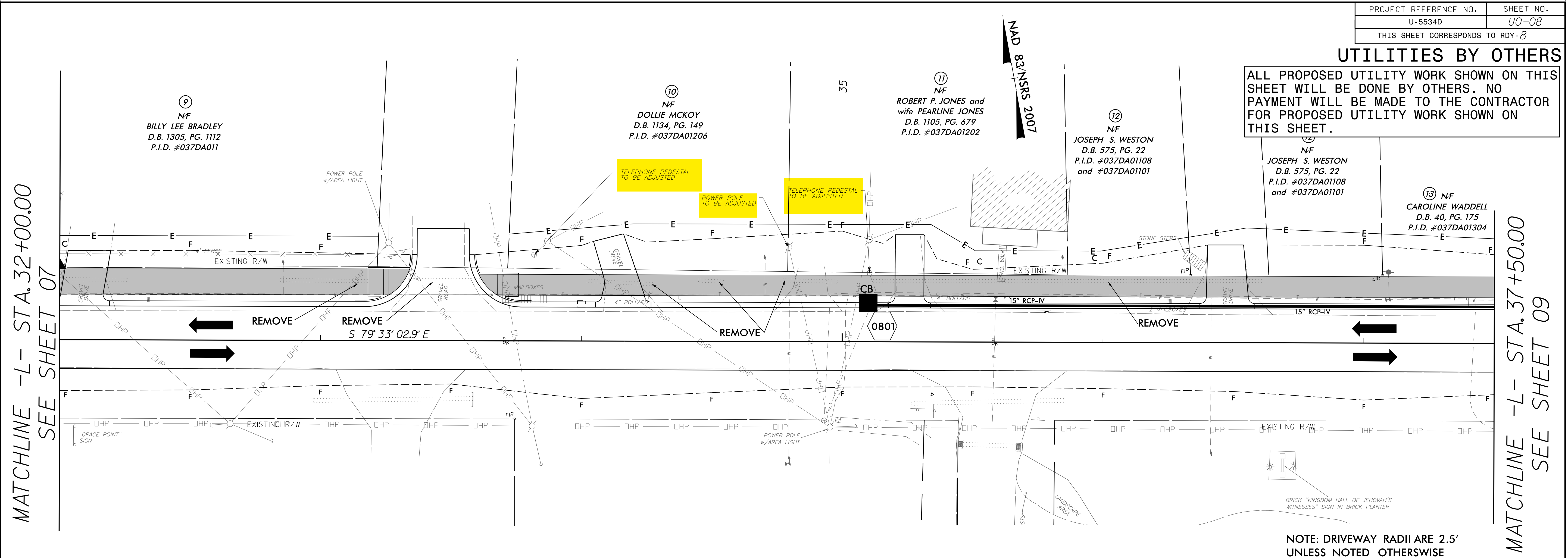
MATCHLINE -L- STA.32+00.00
SEE SHEET 08



6/19/2018
R:\Projects\U5534D\uo.psh_07.dgn
Ben Jones

UTILITIES BY OTHERS

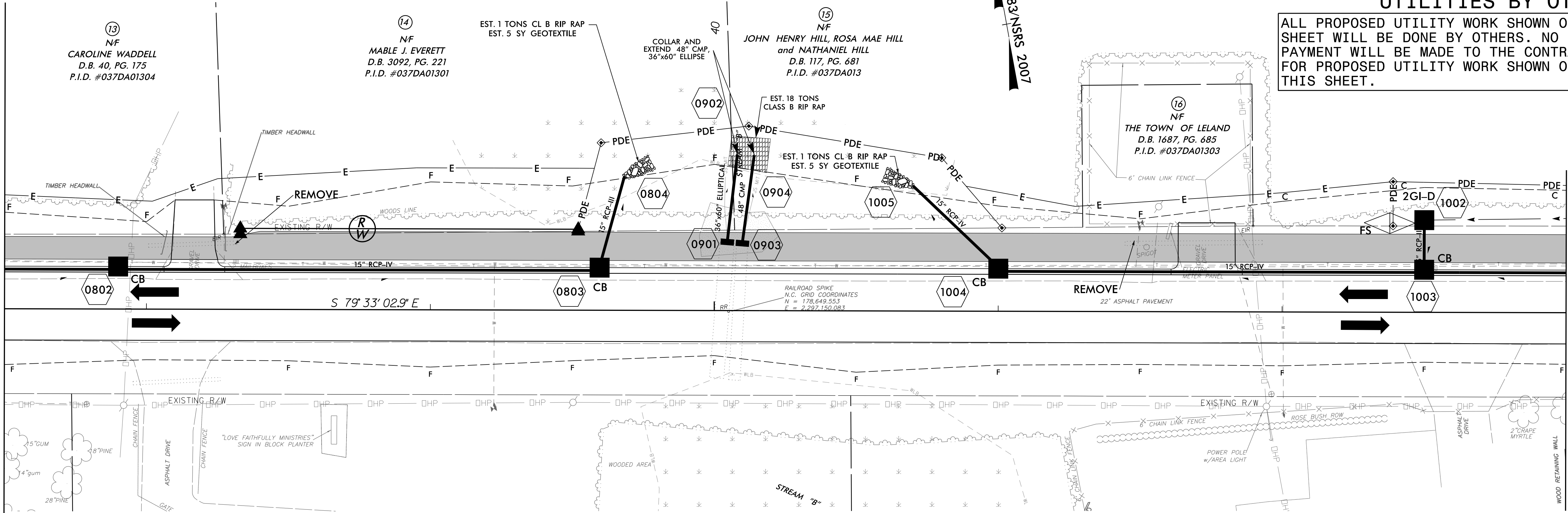
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UTILITIES BY OTHERS

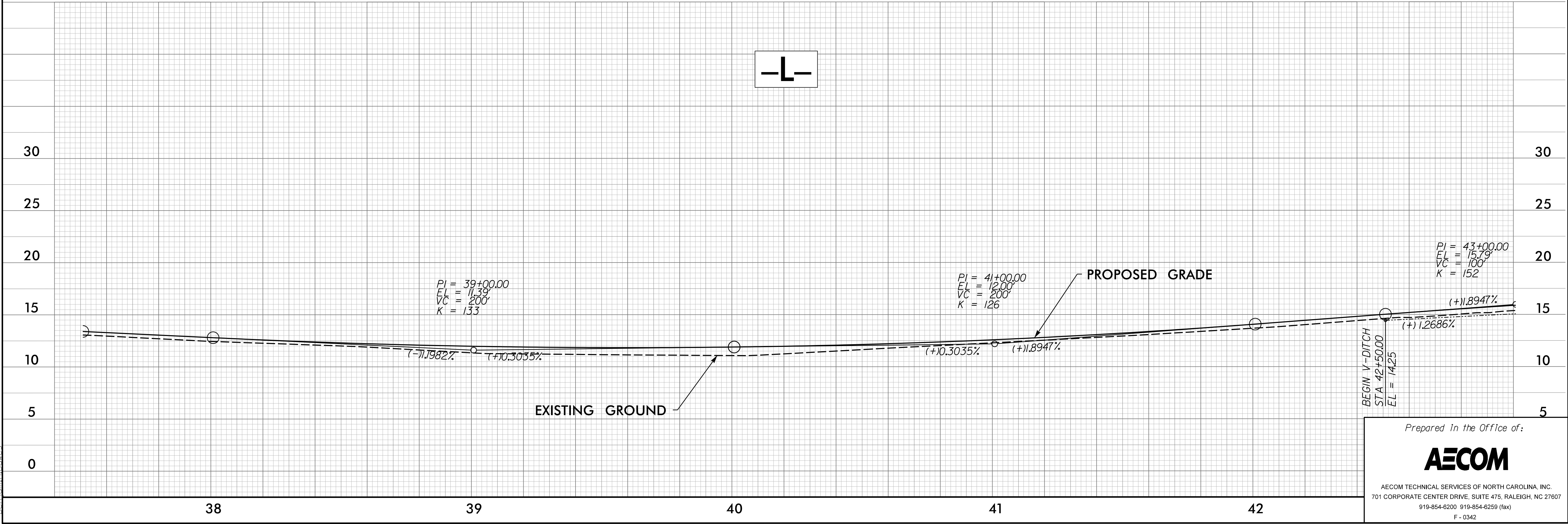
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MATCHLINE -L- STA. 37+50.00
SEE SHEET 08



MATCHLINE -L- STA. 43+00.00
SEE SHEET 10

NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

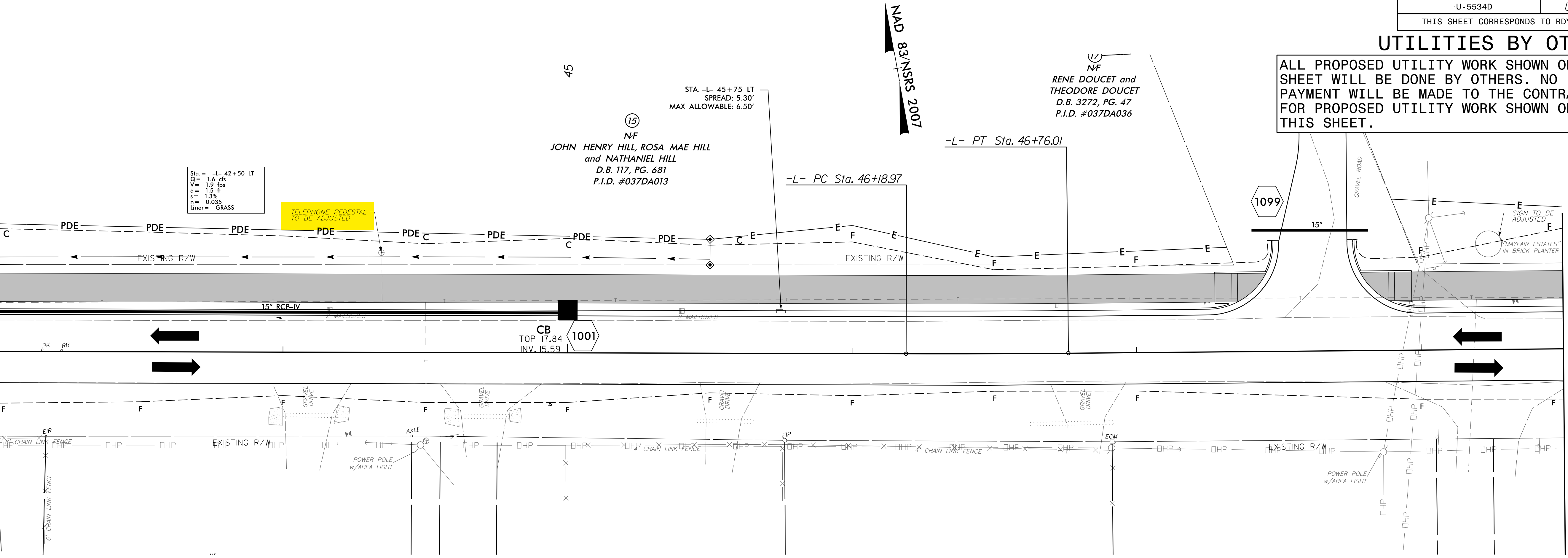


6/19/2019
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Ben Jones

UTILITIES BY OTHERS

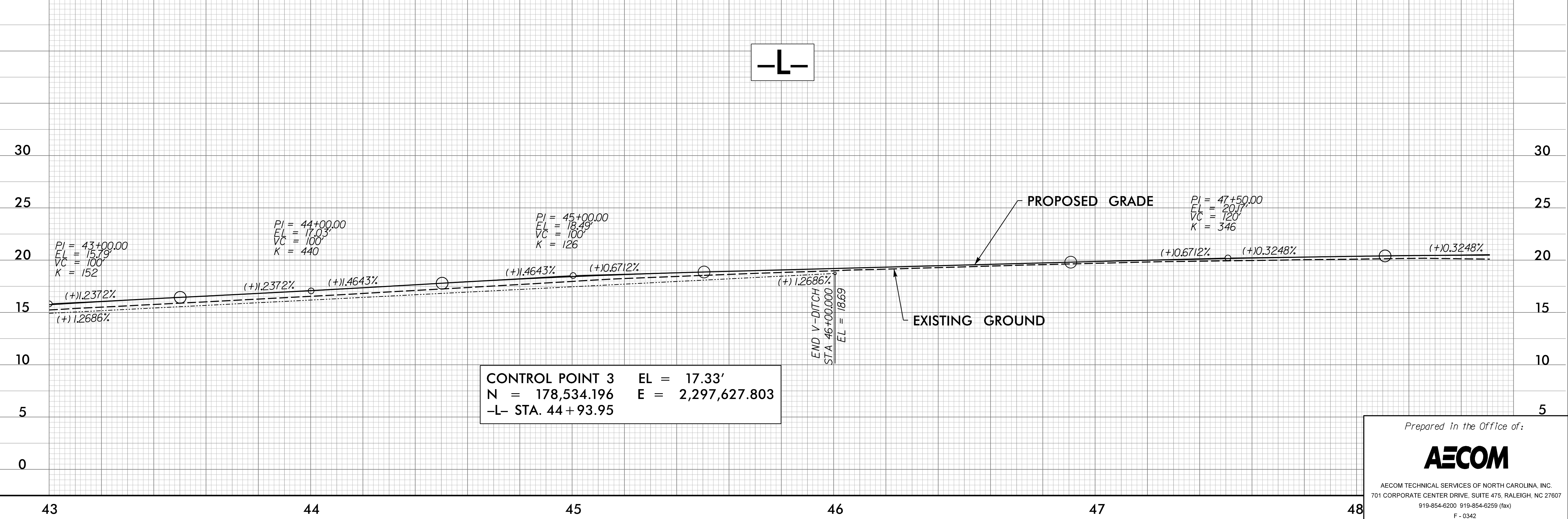
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MATCHLINE -L- STA. 43+00.00
SEE SHEET 9



MATCHLINE -L- STA. 48+50.00
SEE SHEET 11

NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

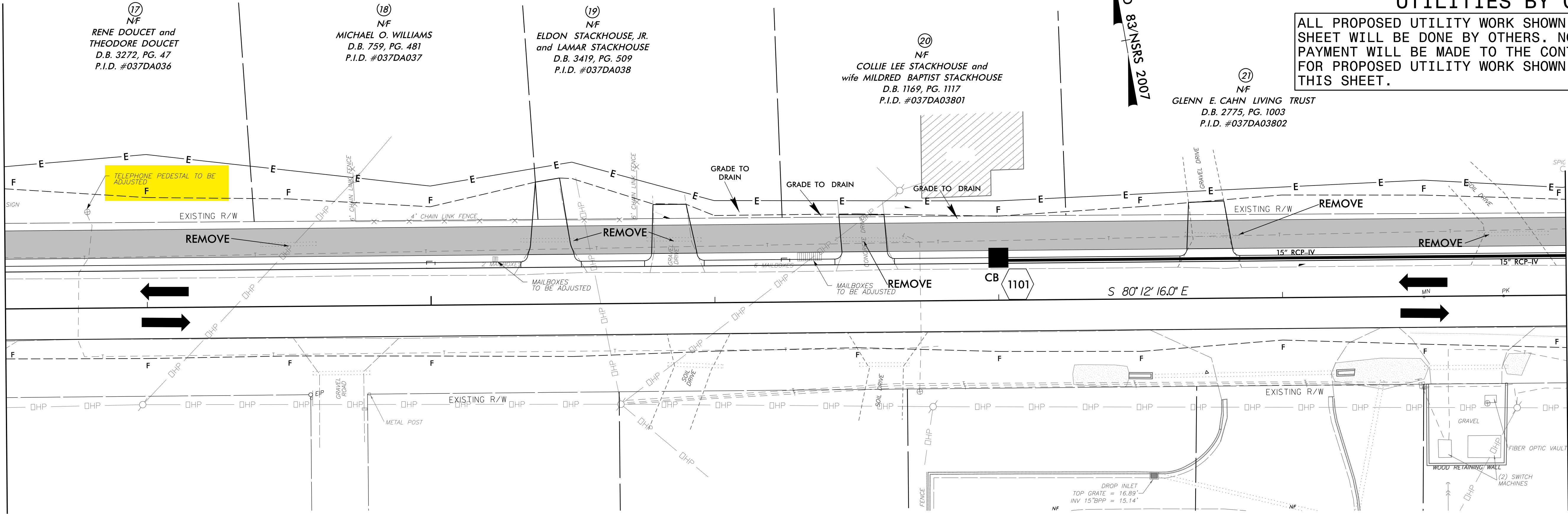


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Ben Jones

UTILITIES BY OTHERS

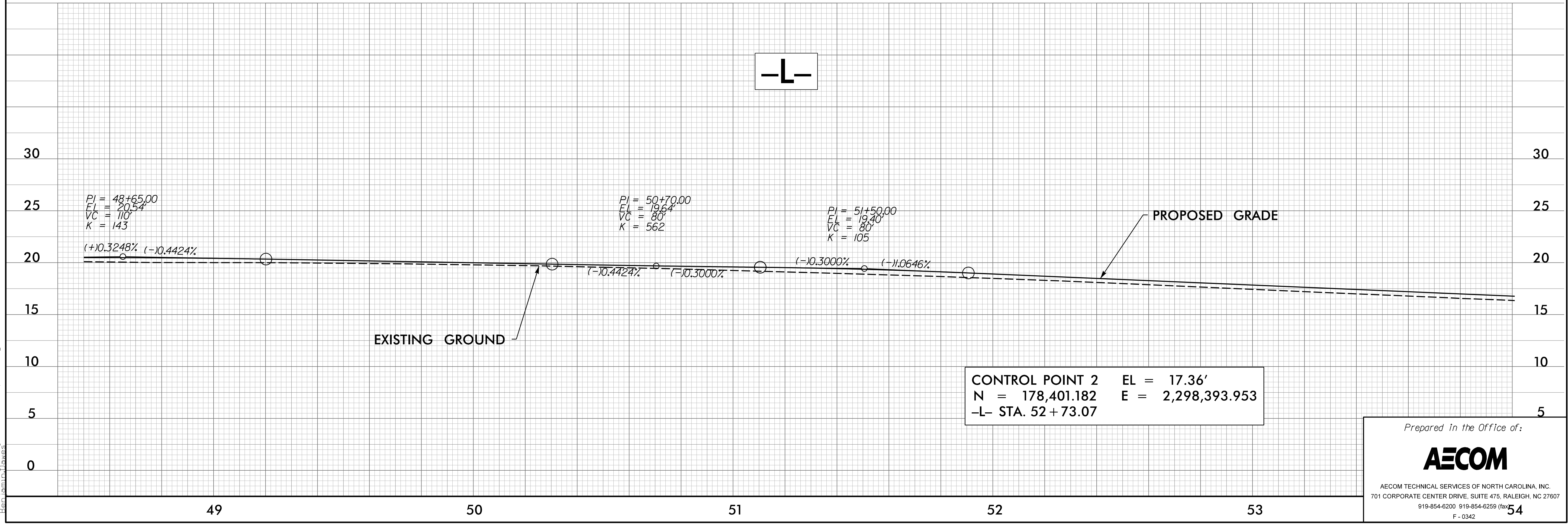
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

MATCHLINE -L- STA. 48+50.00
SEE SHEET 10



MATCHLINE -L- STA. 54+00.00
SEE SHEET 12

NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE



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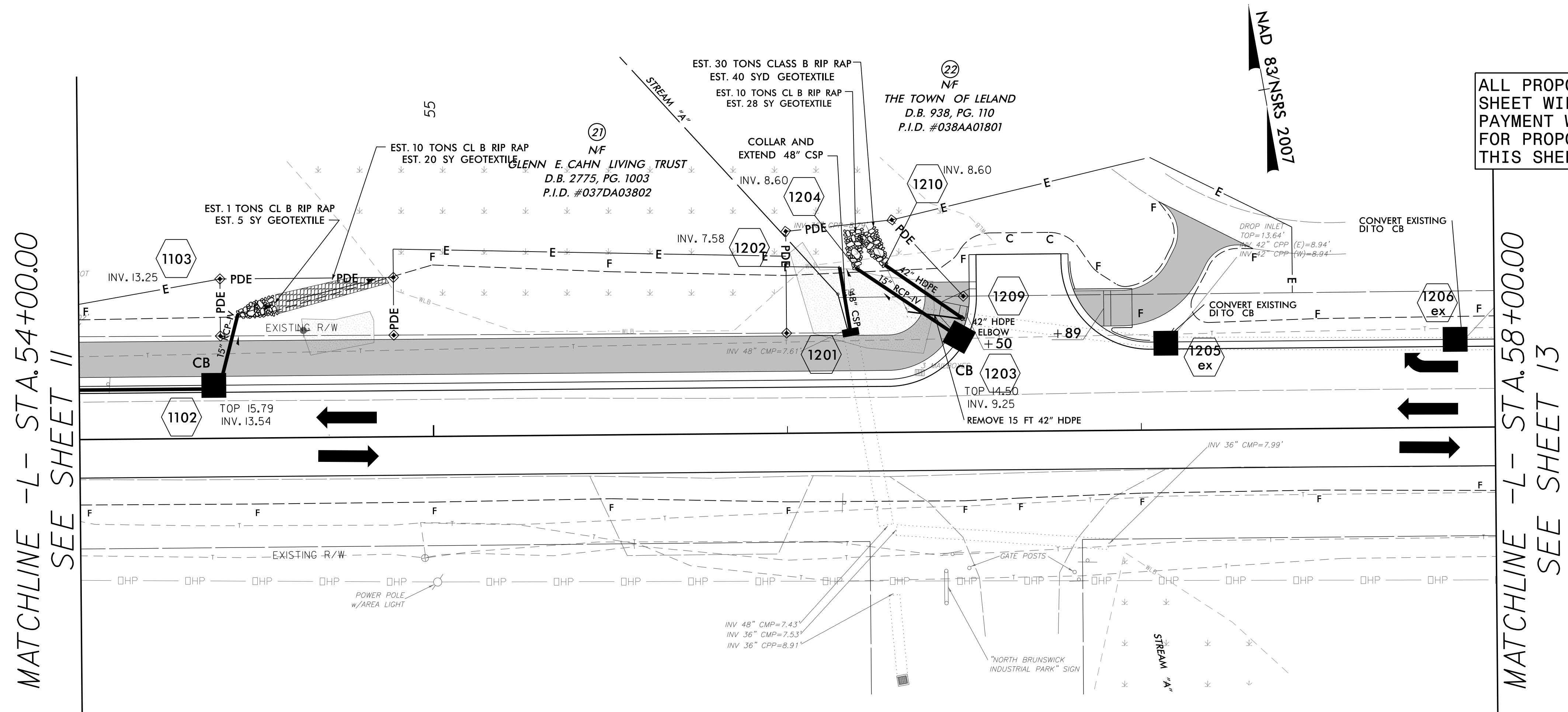
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919-854-6200 919-854-6259 (fax)
F-0342

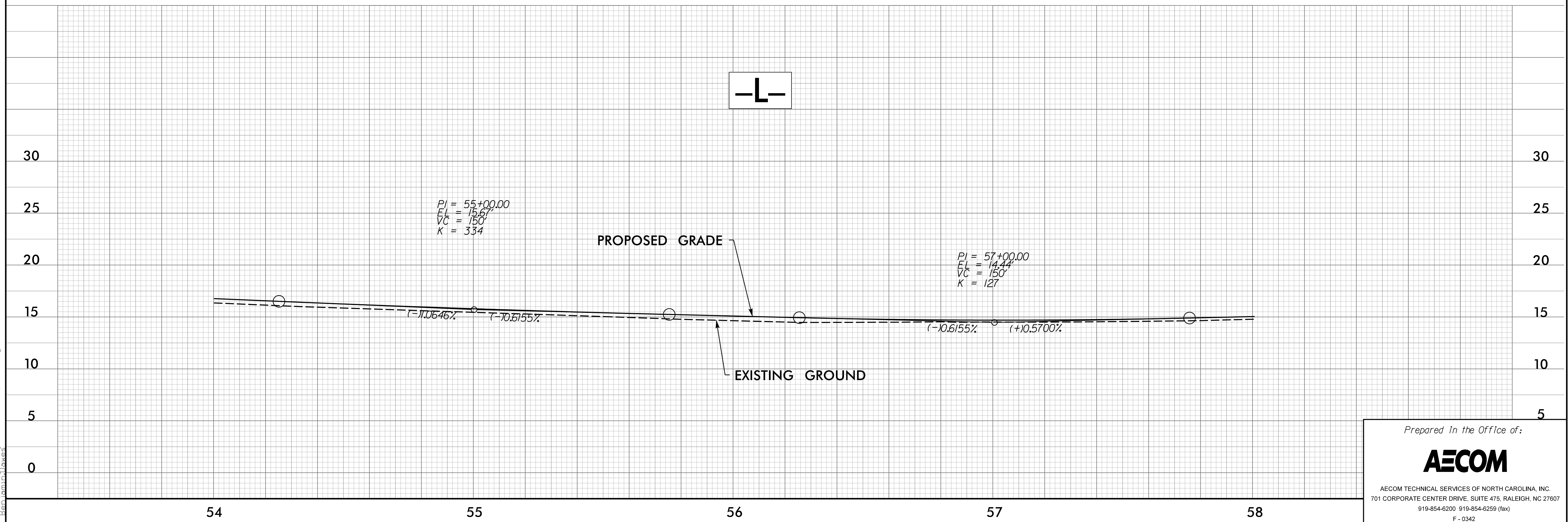
PROJECT REFERENCE NO.	SHEET NO.
U-5534D	UO-09
THIS SHEET CORRESPONDS TO RDY-12	

UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE



Prepared in the Office of:

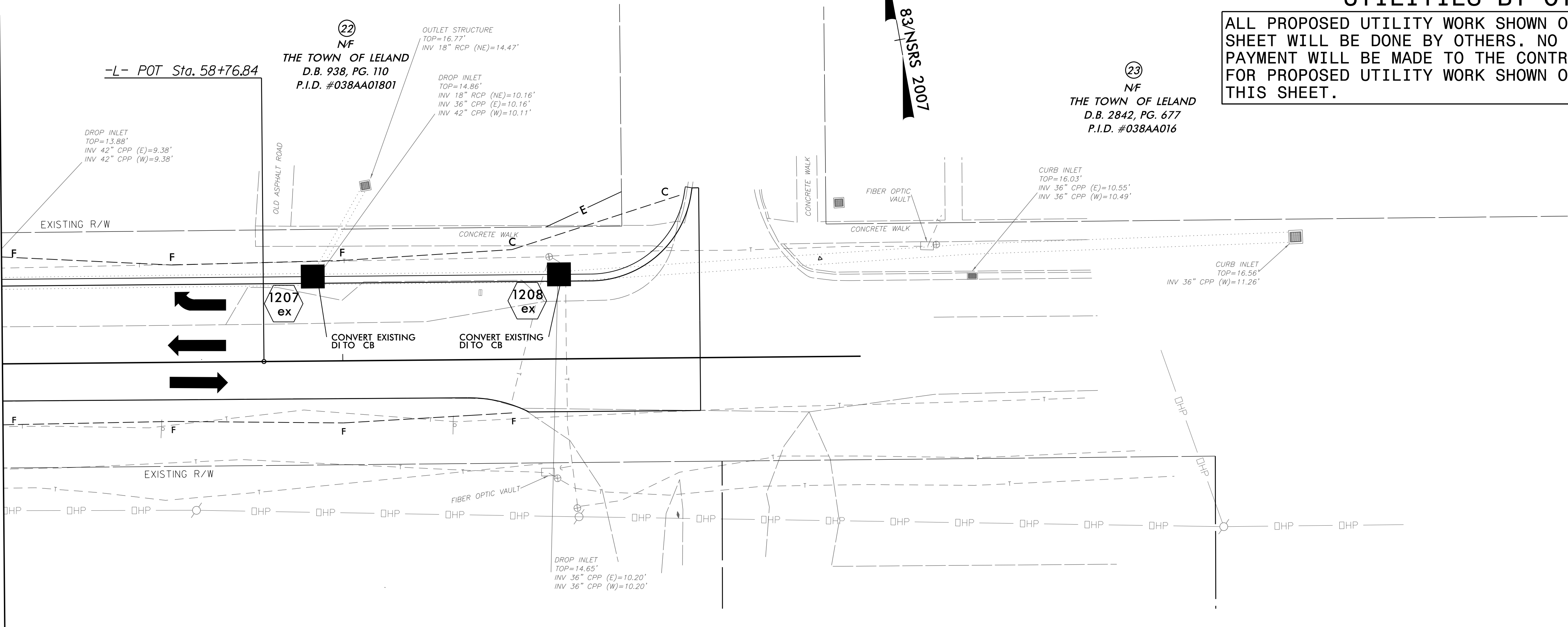
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AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F - 0342

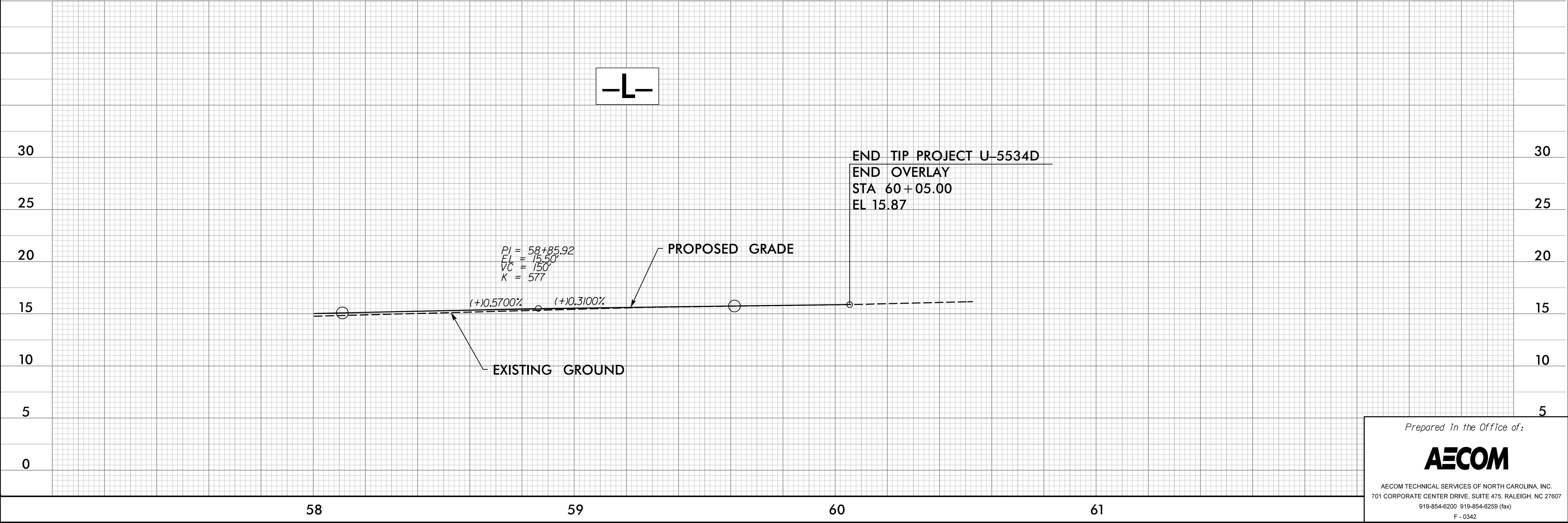
UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

MATCHLINE -L- STA. 58+00.00
SEE SHEET 12



NOTE: DRIVEWAY RADII ARE 2.5'
UNLESS NOTED OTHERWISE

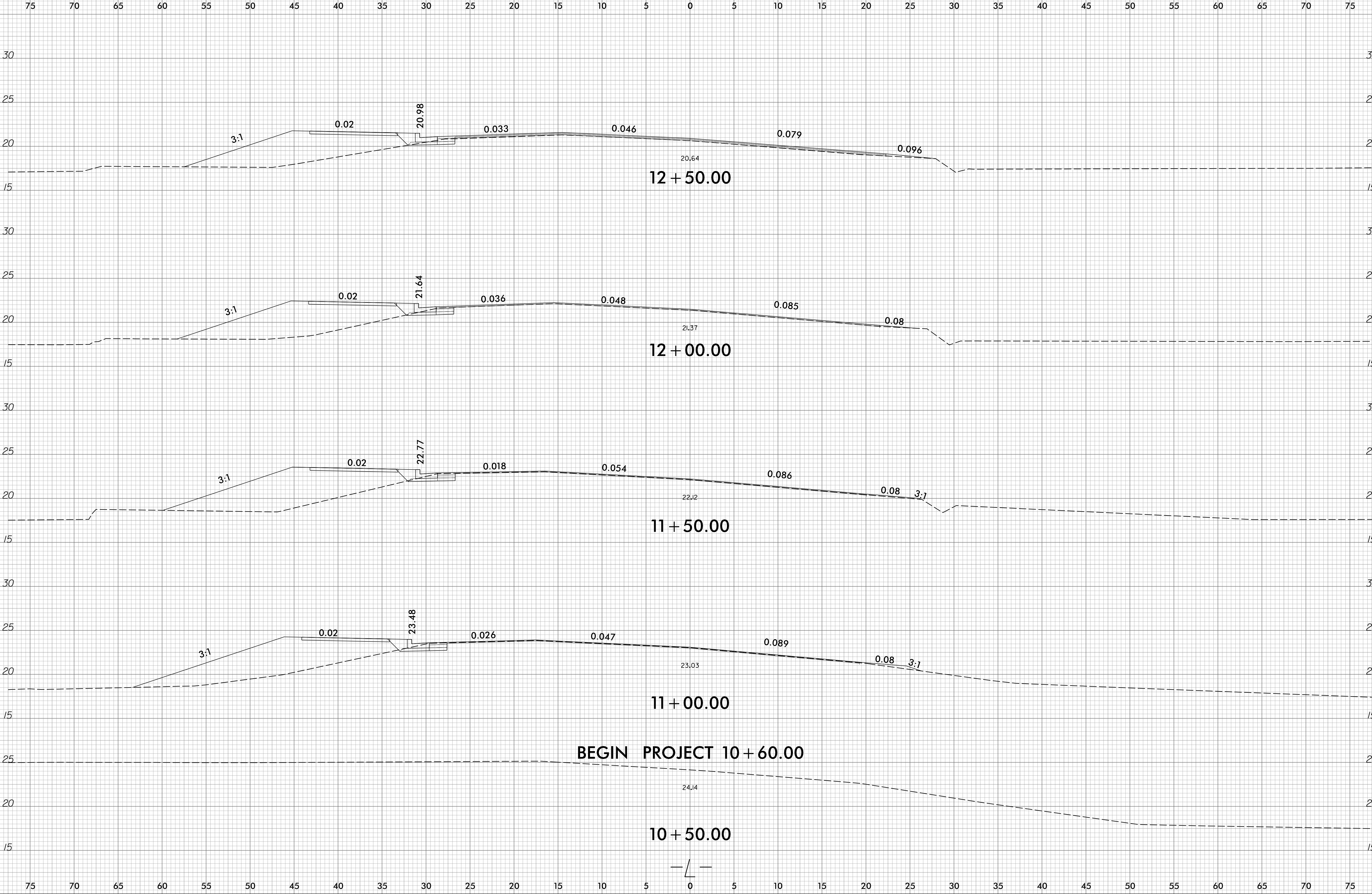


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Ben Jones

Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt
L	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)
10+60.00	0	0	37+00.00	7	43
11+00.00	2	55	37+50.00	7	57
11+50.00	6	136	38+00.00	8	48
12+00.00	6	125	38+50.00	8	69
12+50.00	5	109	39+00.00	5	136
13+00.00	4	95	39+50.00	3	197
13+50.00	5	62	40+00.00	3	267
14+00.00	5	45	40+50.00	2	254
14+50.00	4	47	41+00.00	4	144
15+00.00	4	40	41+50.00	4	77
15+50.00	4	35	42+00.00	12	47
16+00.00	4	37	42+50.00	34	41
16+50.00	5	36	43+00.00	44	43
17+00.00	6	24	43+50.00	44	42
17+50.00	5	39	44+00.00	43	36
18+00.00	3	53	44+50.00	29	32
18+50.00	2	34	45+00.00	23	20
19+00.00	3	26	45+50.00	23	16
19+50.00	4	33	46+00.00	15	23
20+00.00	4	49	46+50.00	8	24
20+50.00	4	66	47+00.00	7	23
21+00.00	5	52	47+50.00	5	12
21+50.00	5	110	48+00.00	4	14
22+00.00	4	151	48+50.00	6	37
22+50.00	3	93	49+00.00	5	50
23+00.00	4	57	49+50.00	6	40
23+50.00	6	49	50+00.00	8	34
24+00.00	6	50	50+50.00	9	33
24+50.00	6	31	51+00.00	8	32
25+00.00	6	28	51+50.00	7	24
25+50.00	6	43	52+00.00	5	23
26+00.00	7	25	52+50.00	2	44
26+50.00	7	27	53+00.00	3	57
27+00.00	6	49	53+50.00	4	62
27+50.00	8	29	54+00.00	3	56
28+00.00	8	23	54+50.00	3	55
28+50.00	9	35	55+00.00	3	123
29+00.00	19	44	55+50.00	2	206
29+50.00	31	51	56+00.00	2	177
30+00.00	31	49	56+50.00	12	87
30+50.00	29	52	56+65.70	22	8
31+00.00	31	43	57+00.00	46	6
31+50.00	31	35	57+50.00	19	7
32+00.00	18	34	58+00.00	17	7
32+50.00	6	43	58+50.00	19	6
33+00.00	6	40	59+00.00	19	4
33+50.00	5	28	59+50.00	17	2
34+00.00	3	56	60+00.00	0	0
34+50.00	4	65	60+05.00	0	0
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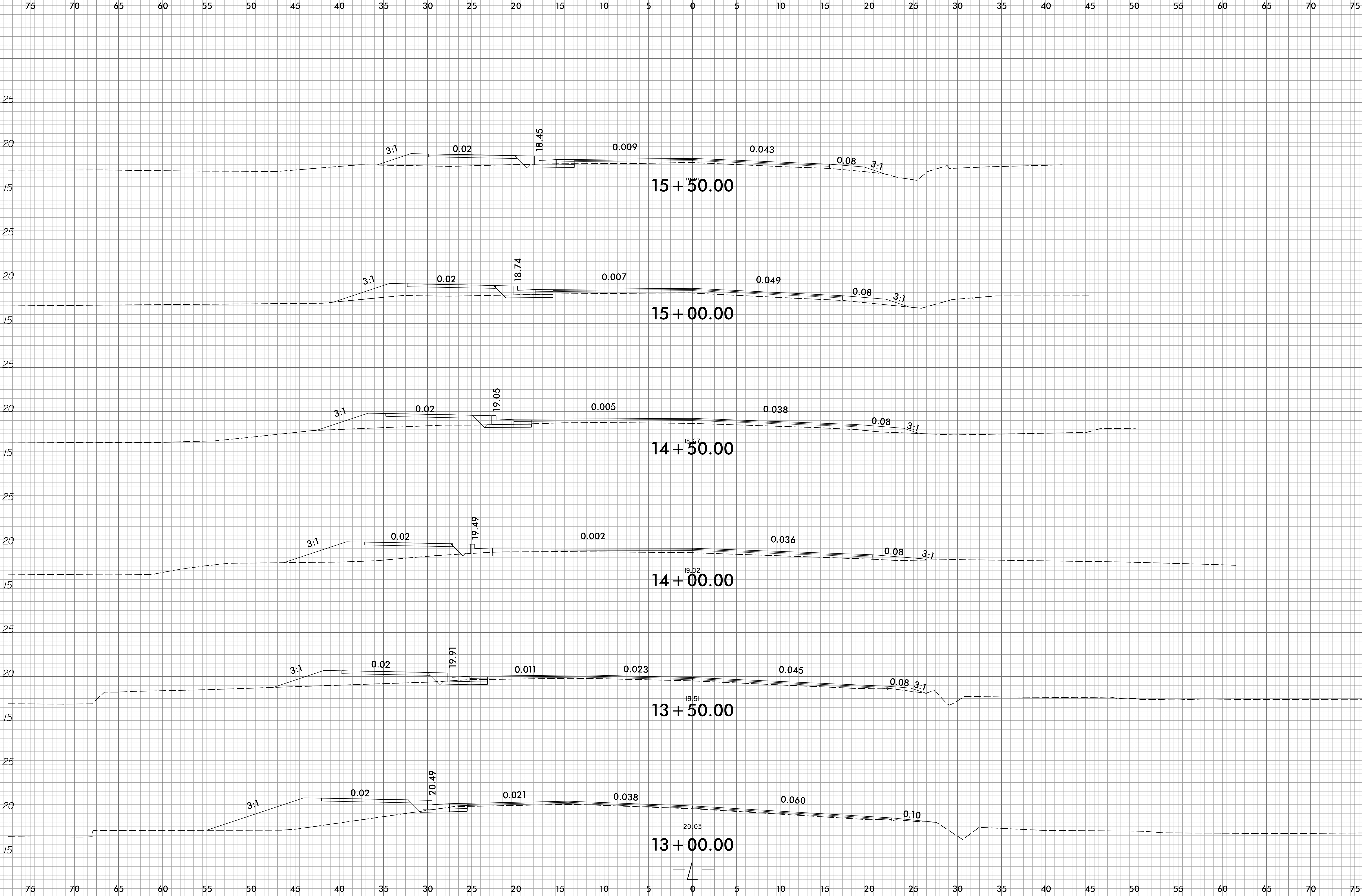
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02.55 0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U5534D	X-2

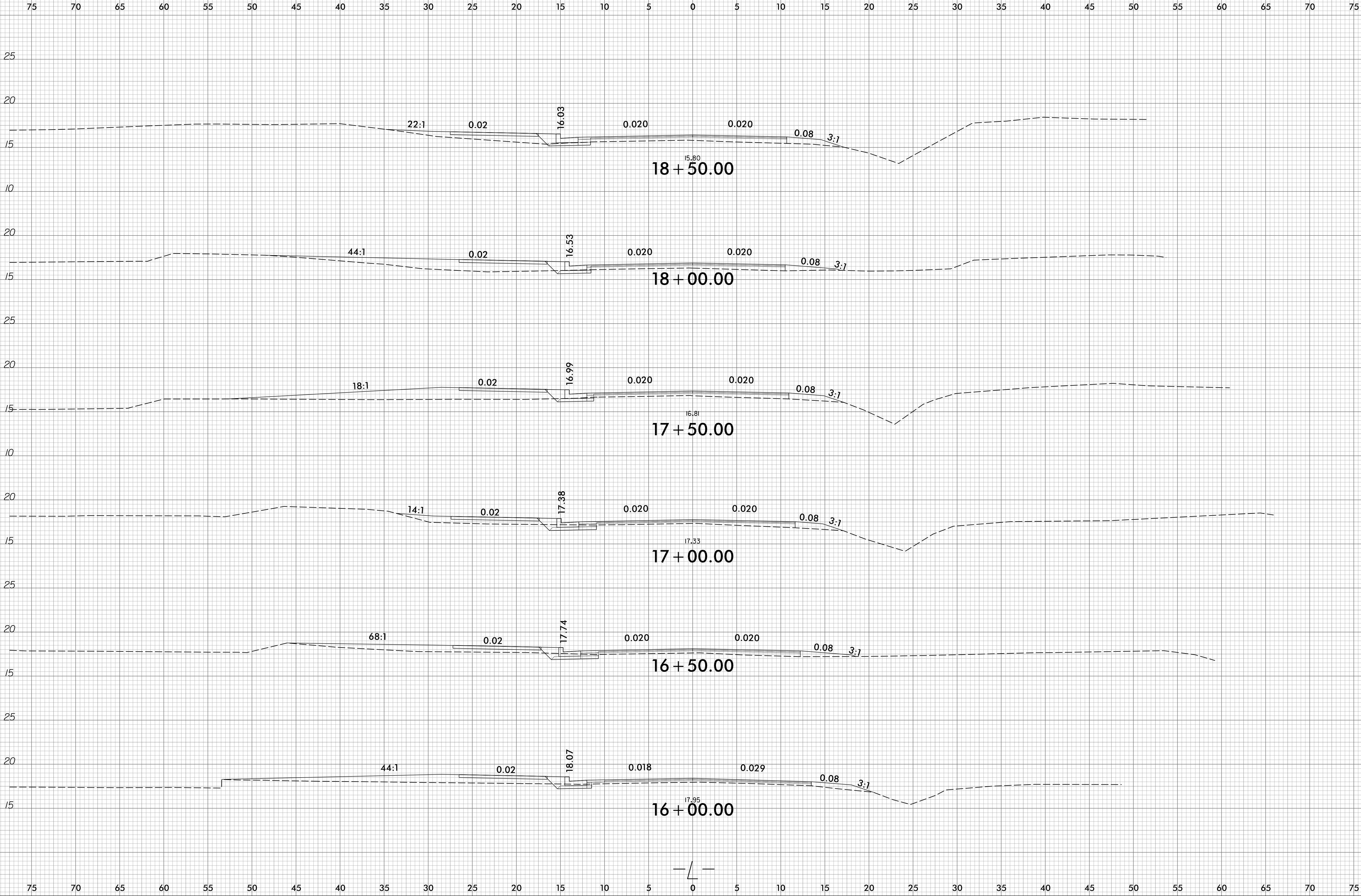


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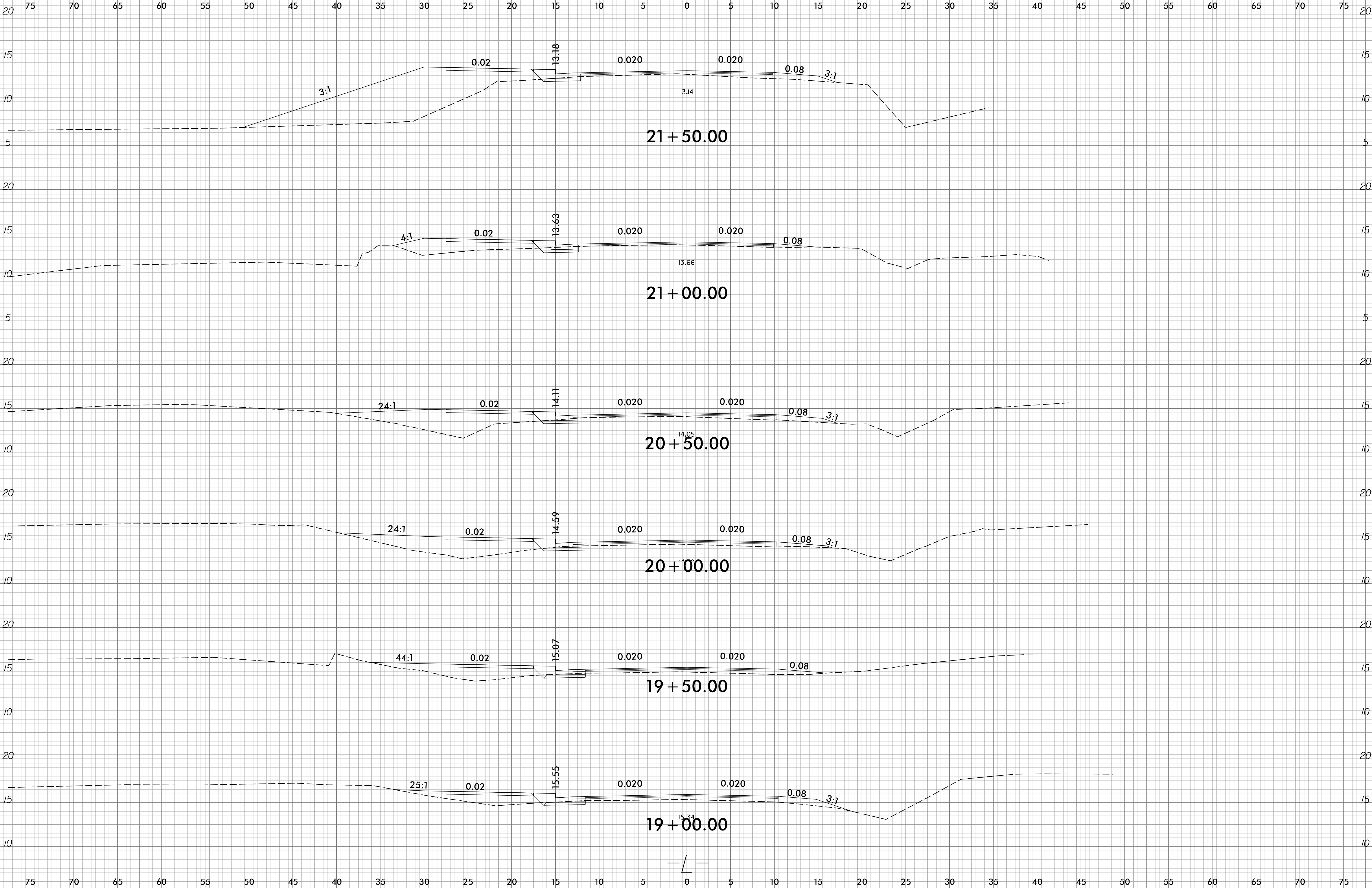
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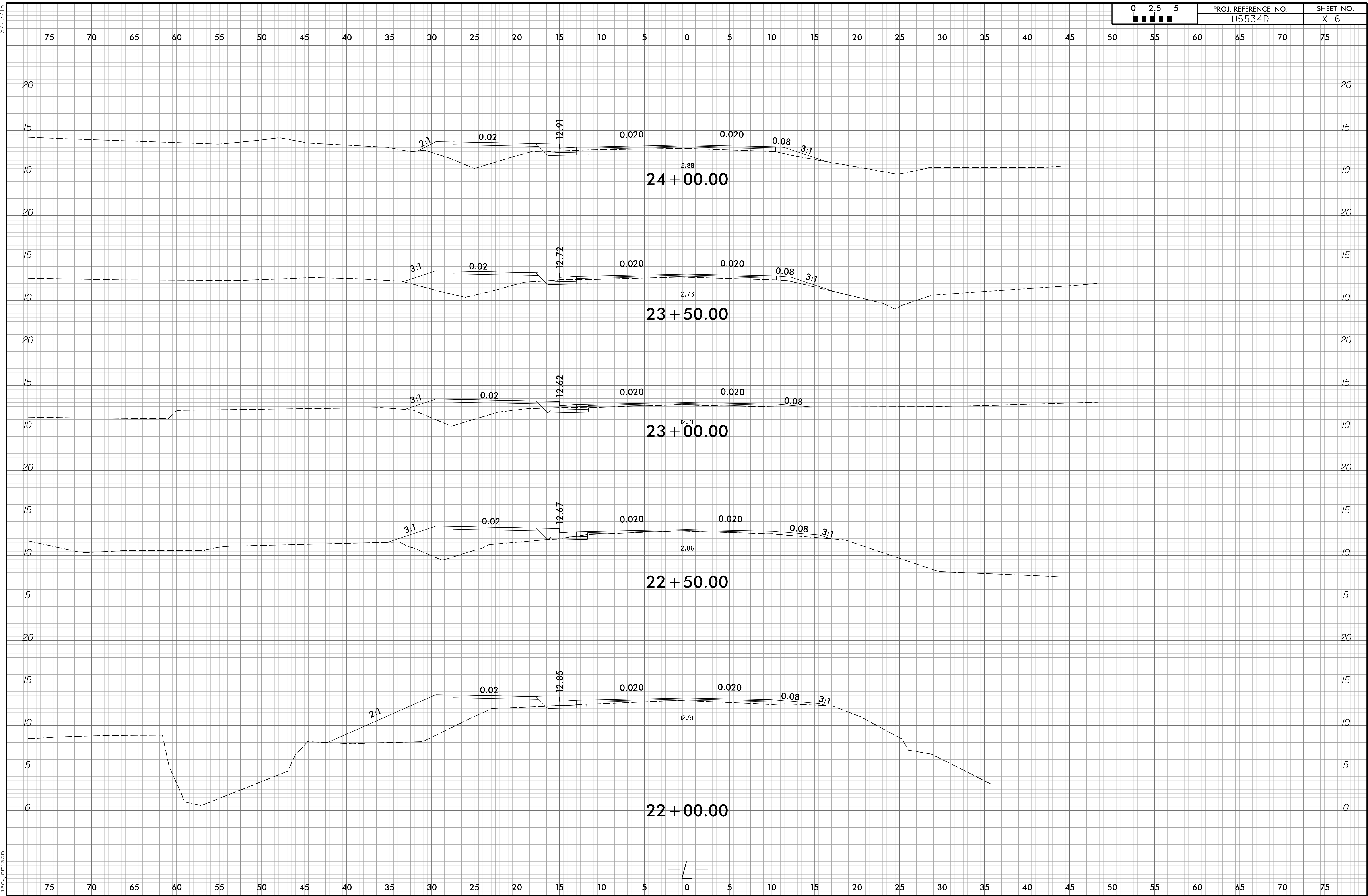


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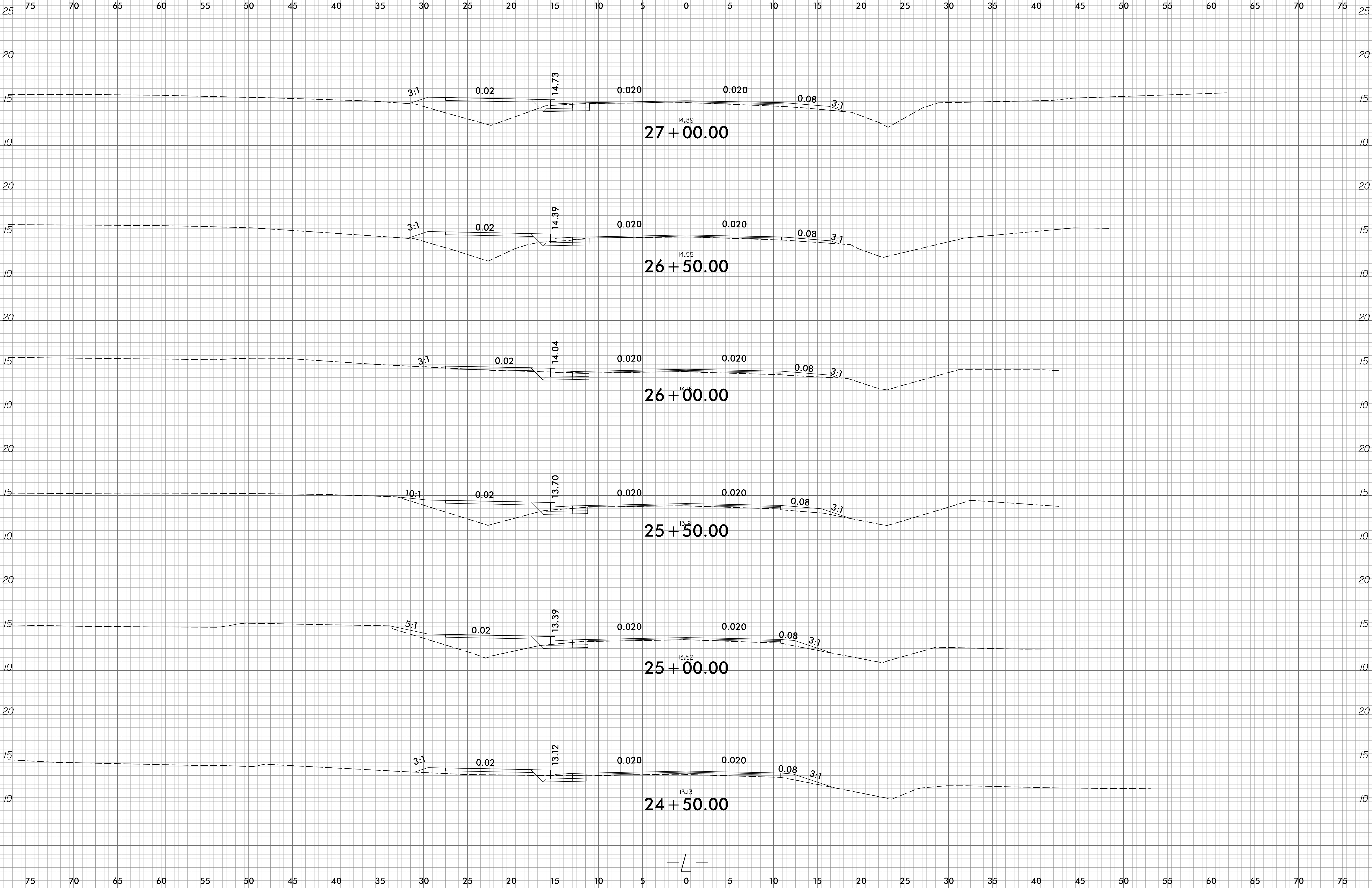


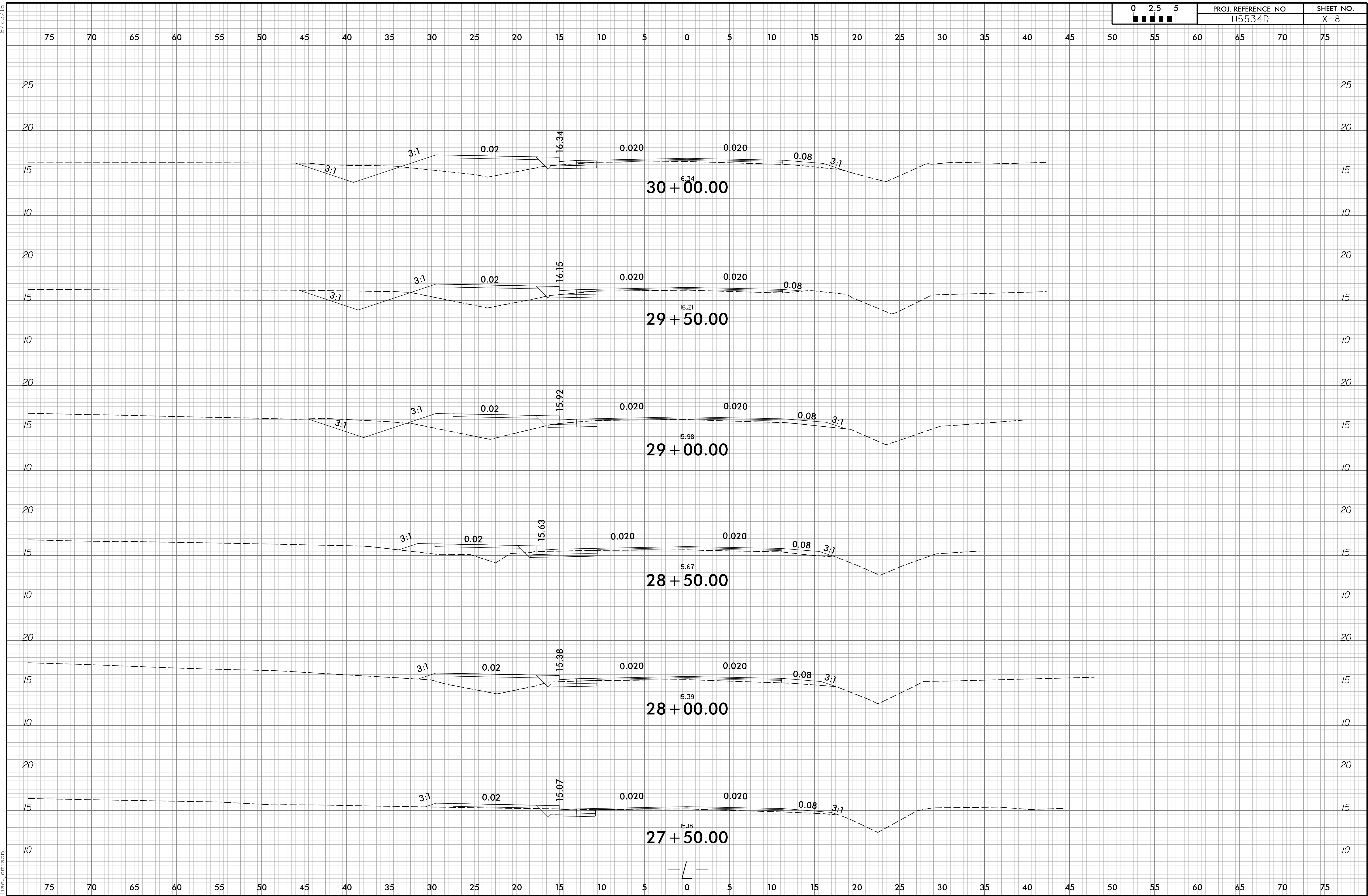
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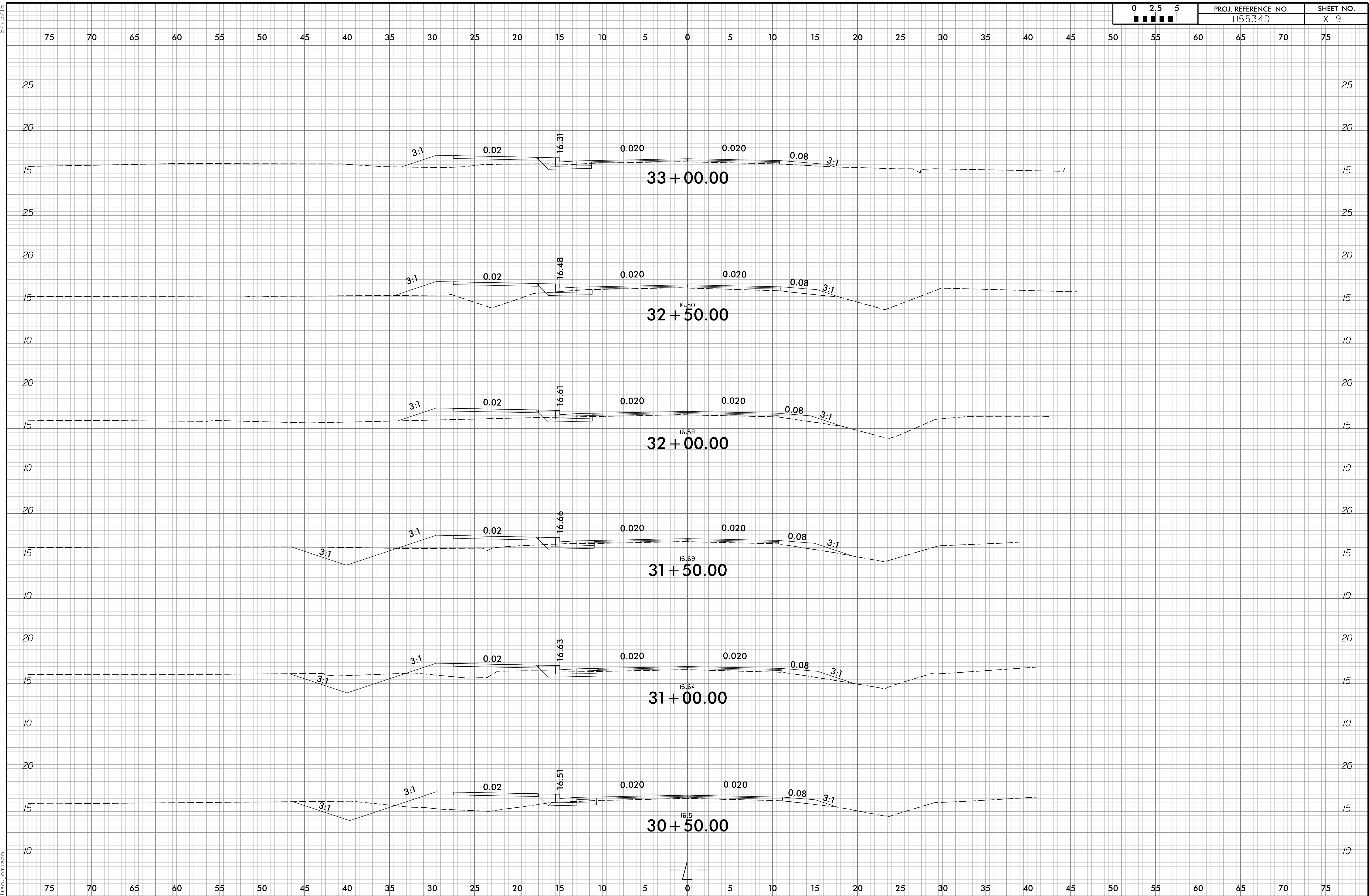




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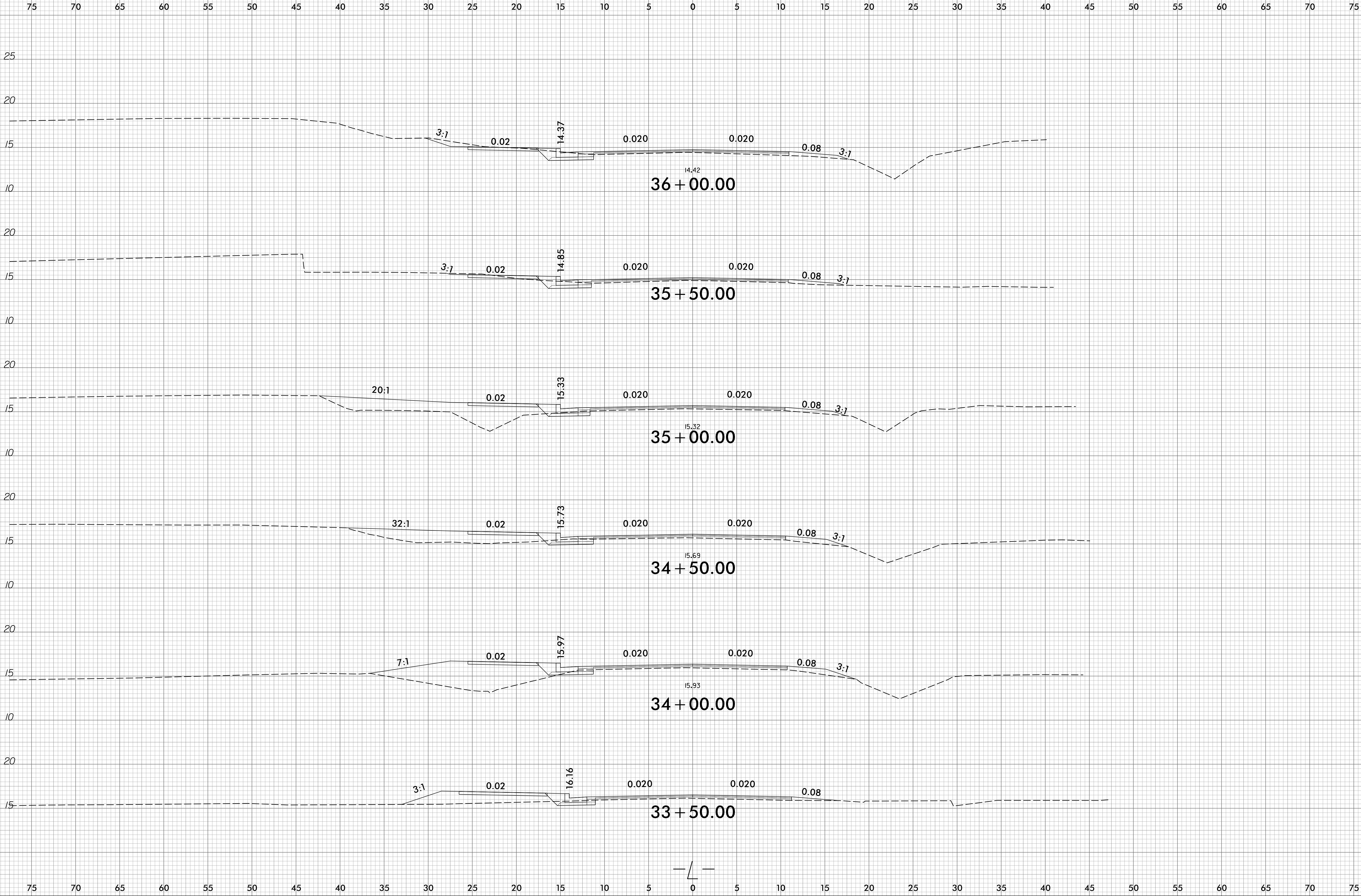






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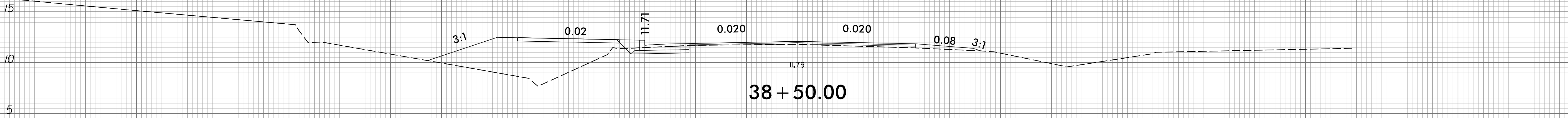


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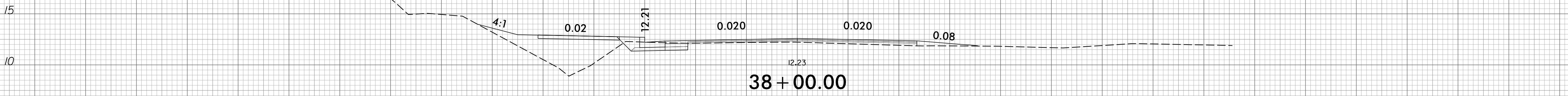
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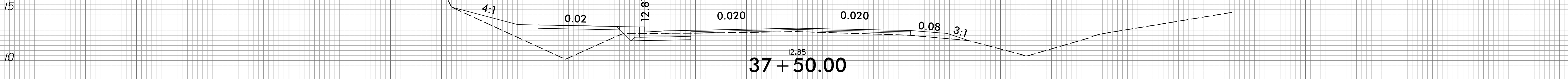
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20 20



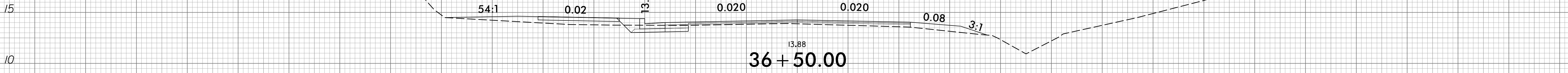
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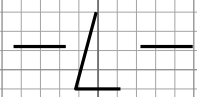
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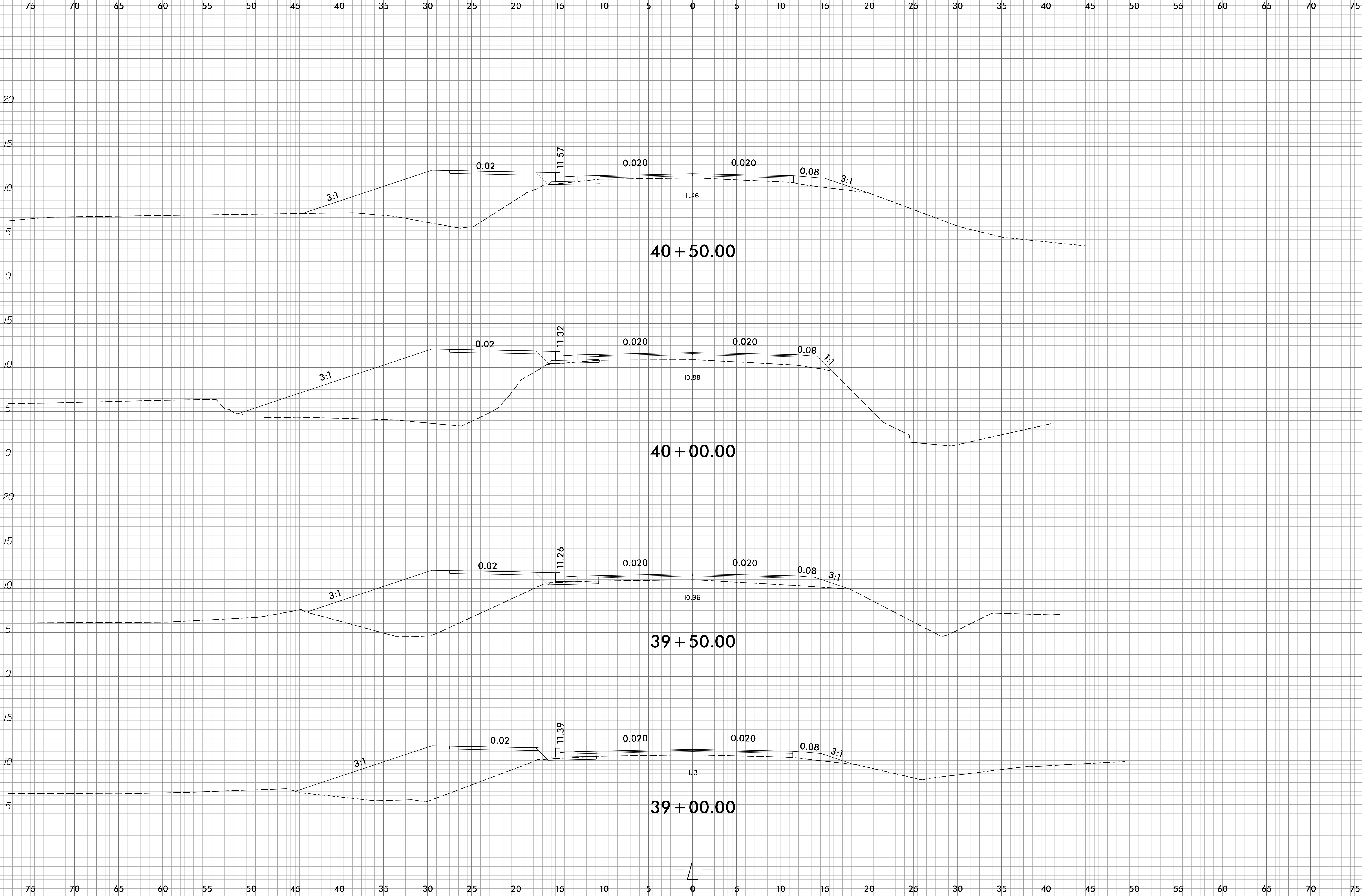
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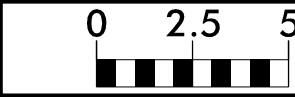
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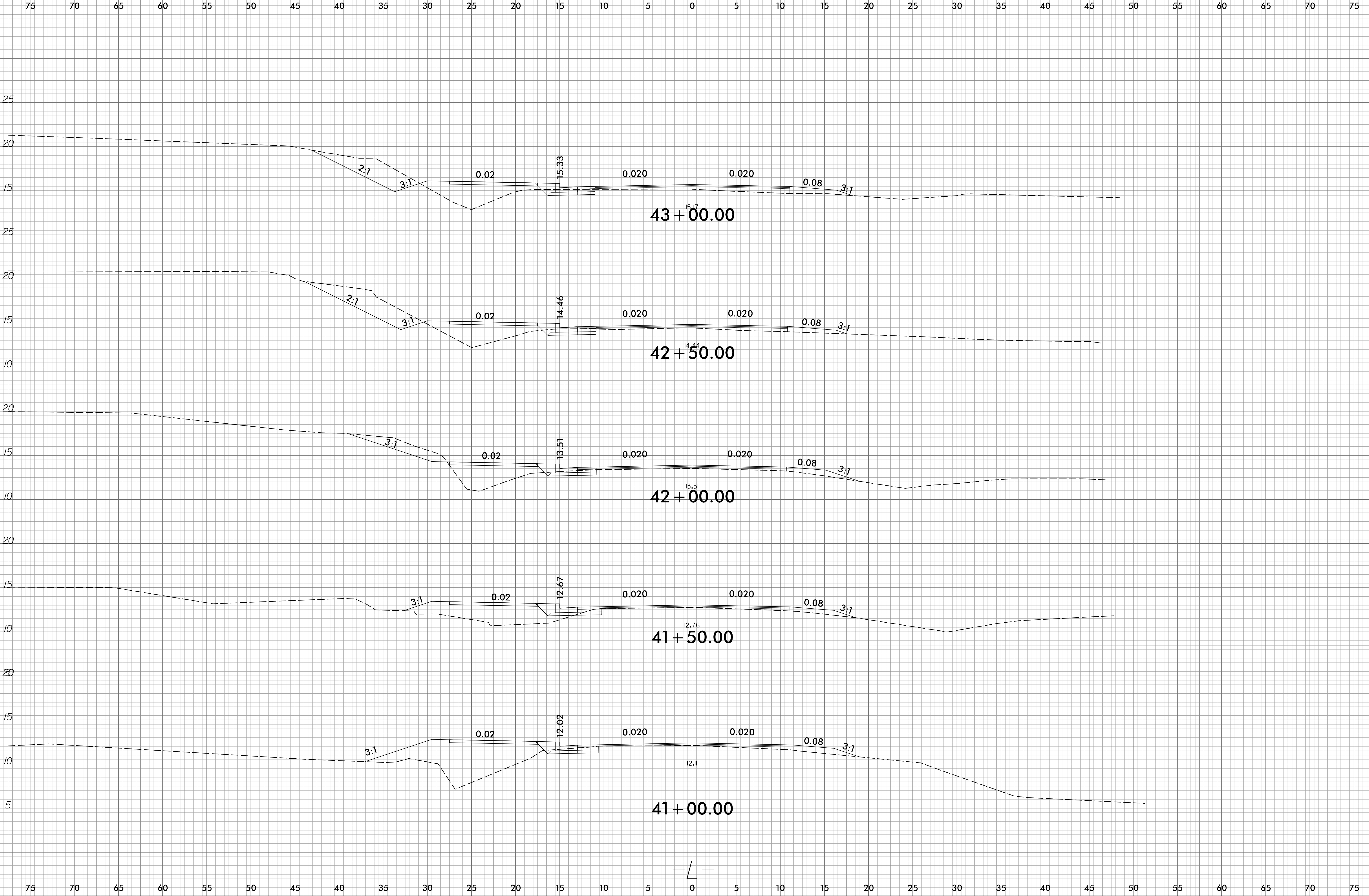
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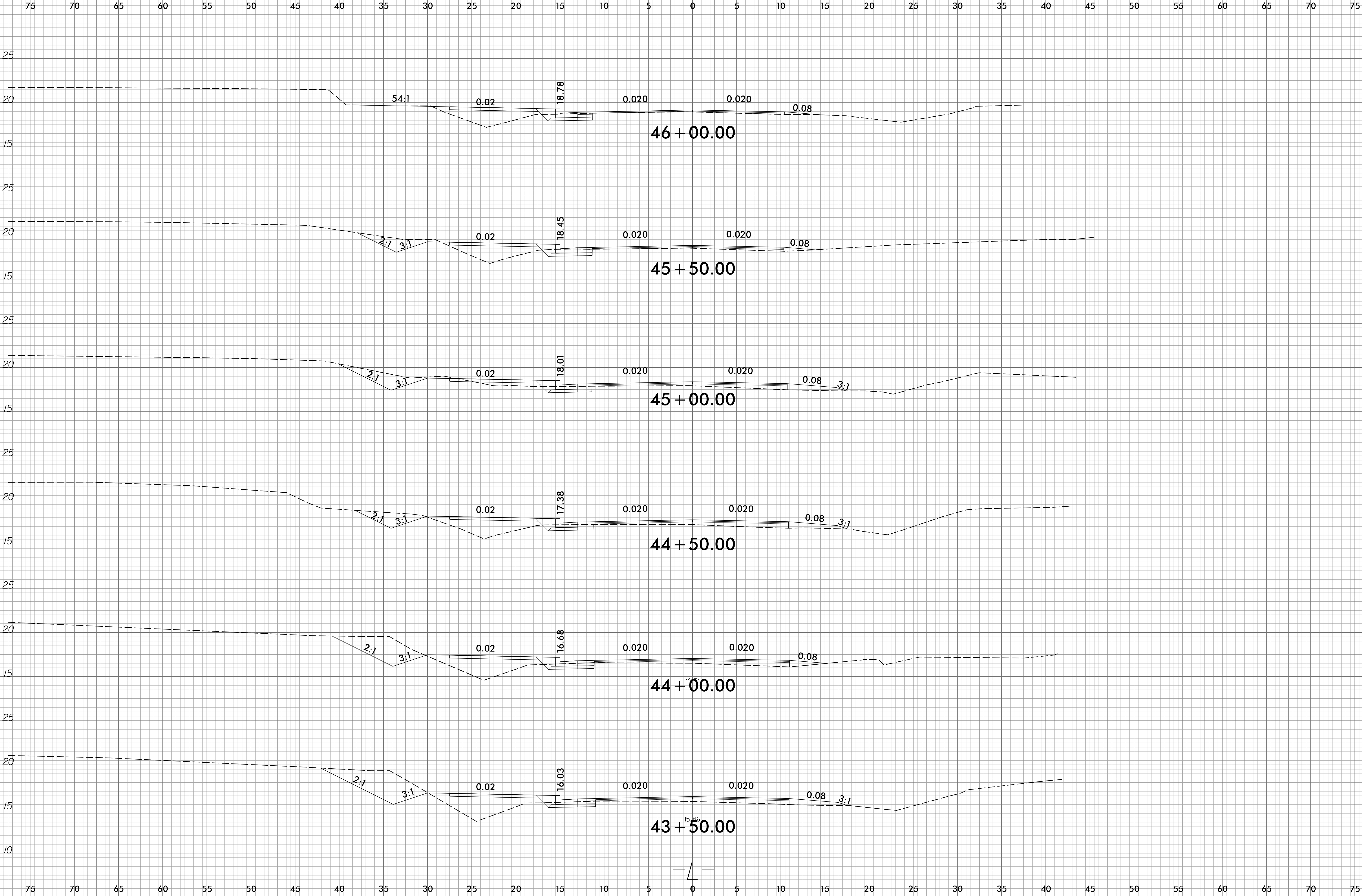


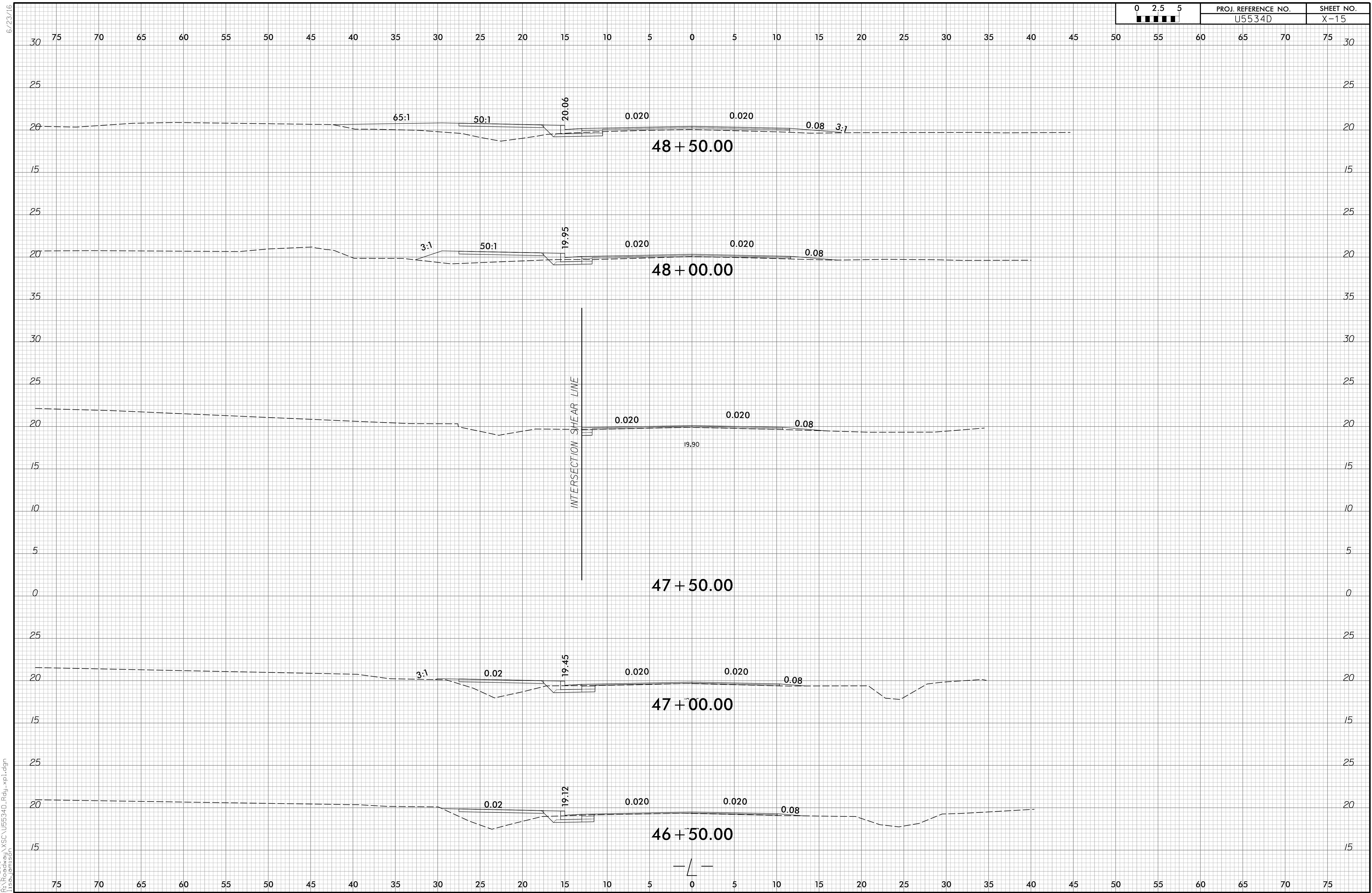
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U5534D	X-13



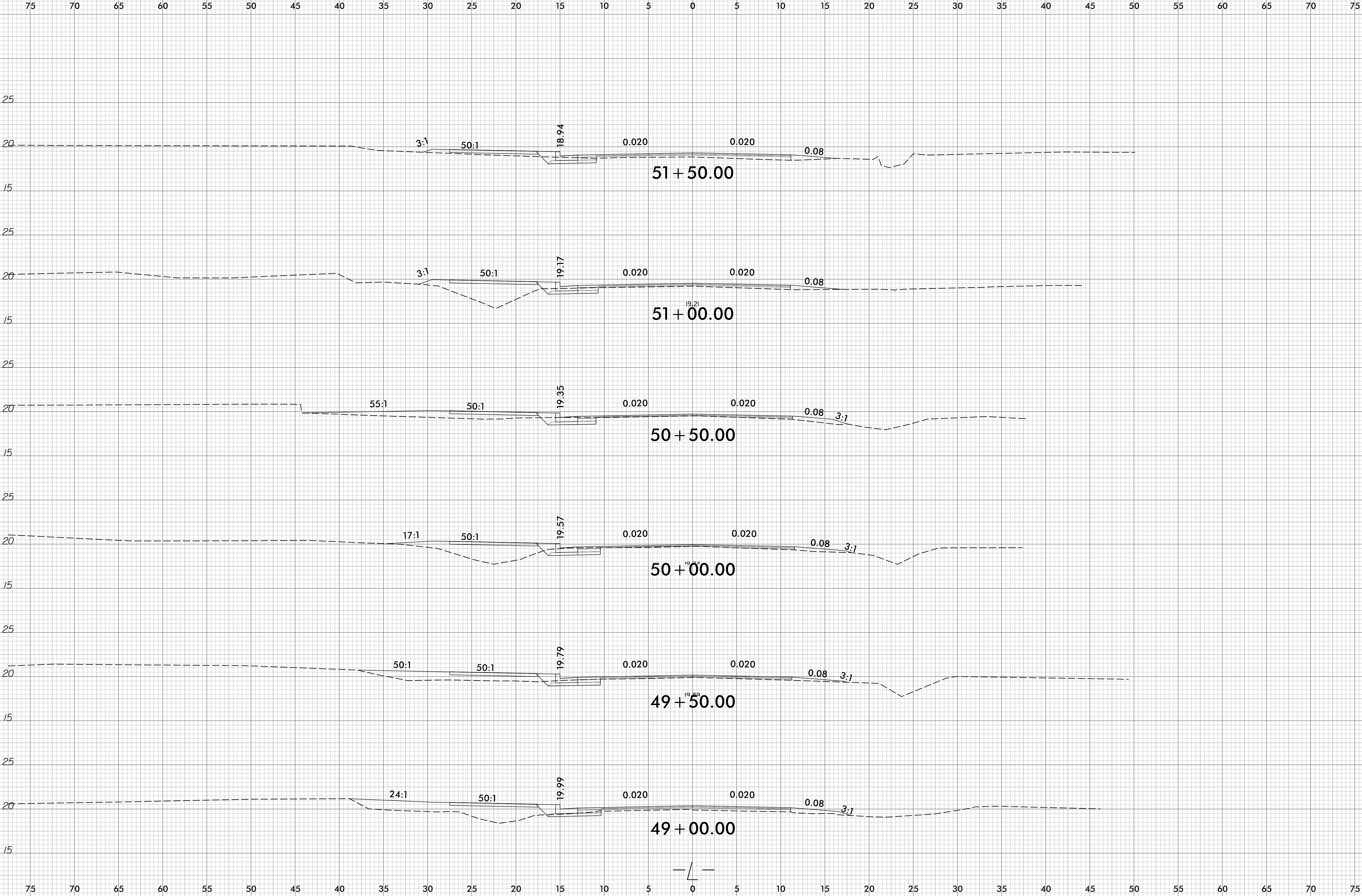
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6/23/16

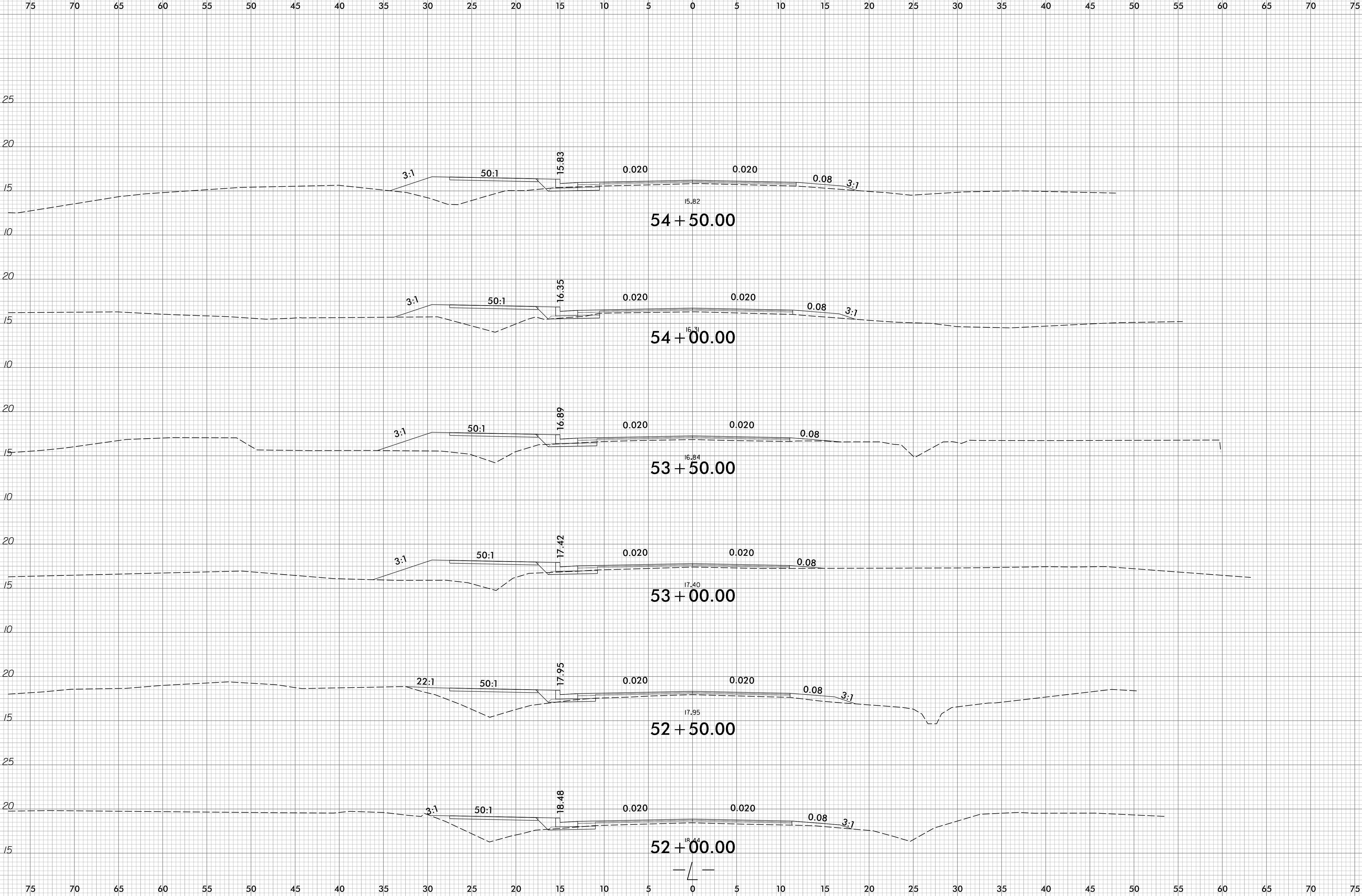




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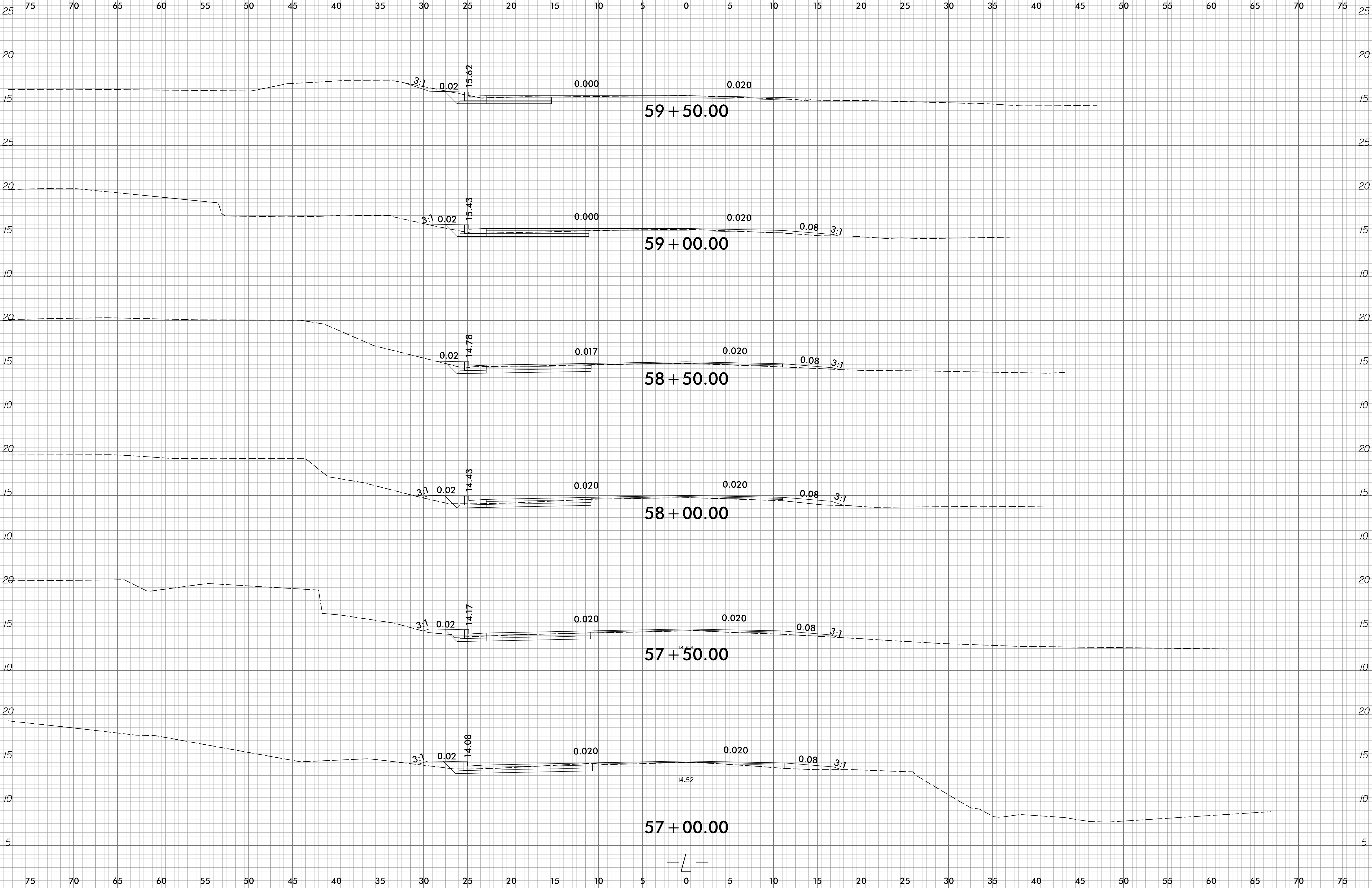


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02.55 0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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6/23/16

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