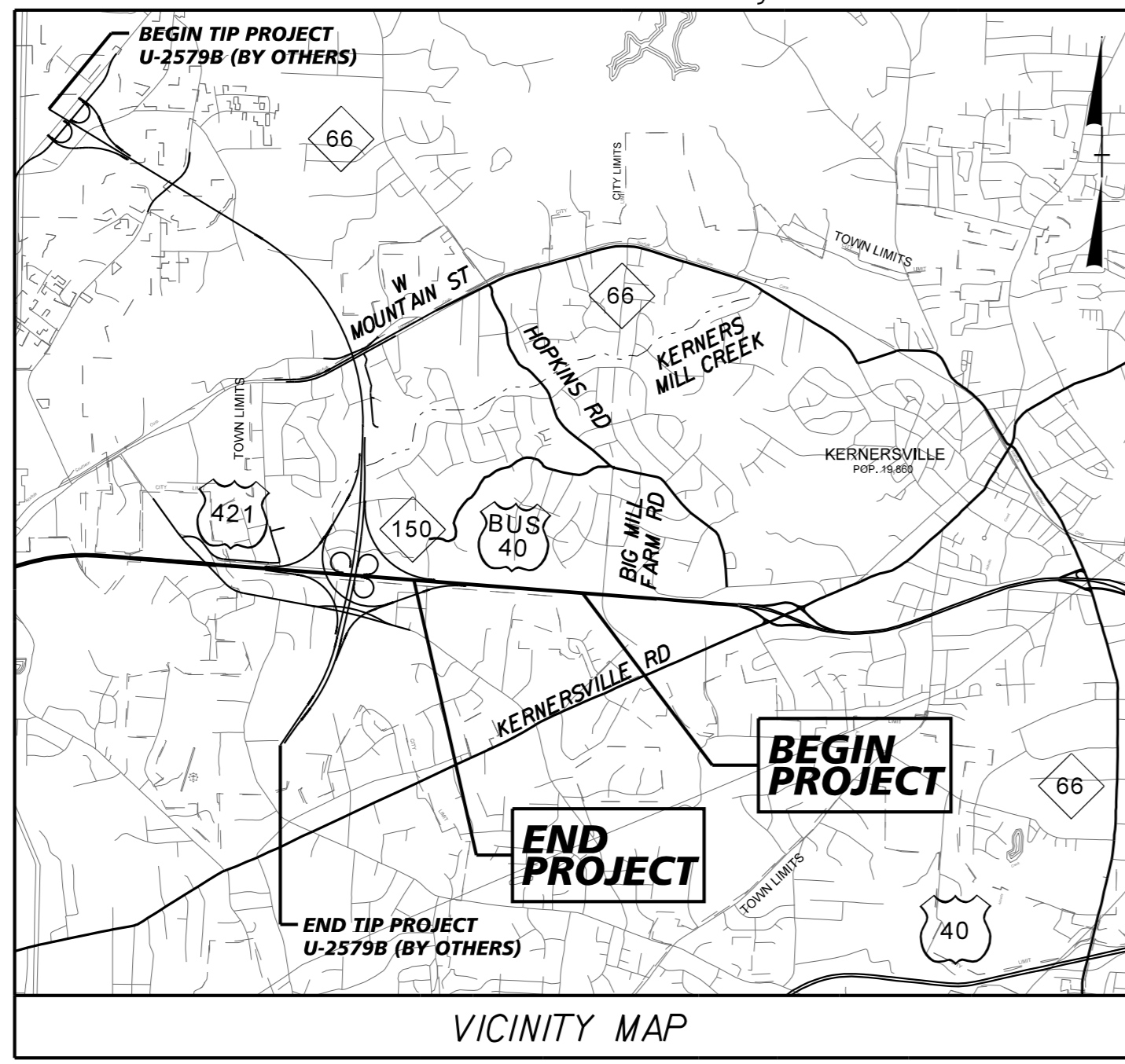


09/28/2021

TIP PROJECT: U-2579BA

CONTRACT: C204533

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



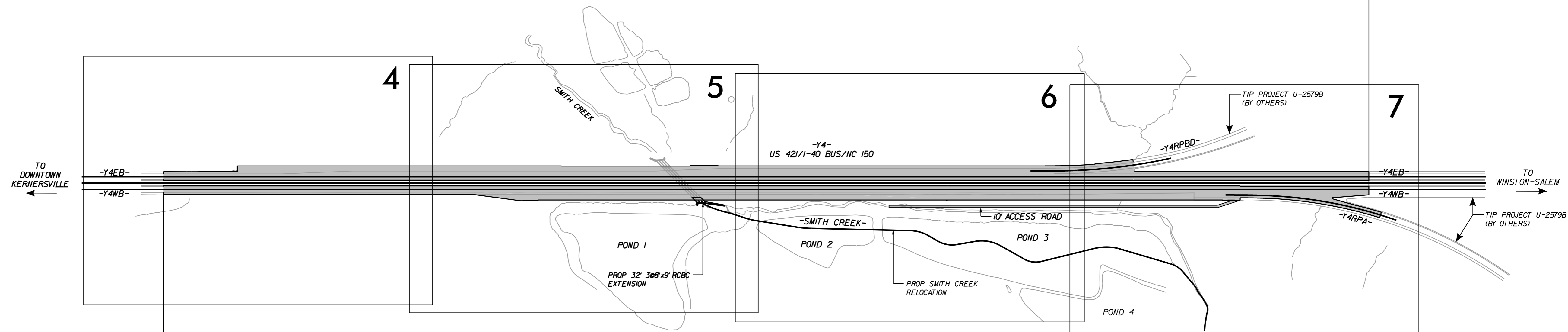
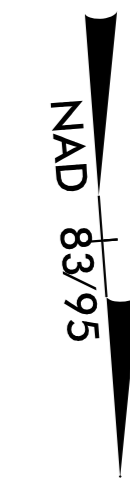
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

FORSYTH COUNTY

**LOCATION: FUTURE I-74 FROM WINSTON-SALEM NORTHERN BELTWAY
EASTERN SECTION US 421/NC 150/40 BUS TO US 158**

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2579BA	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34839.1.10	0074229	P.E.	
34839.3.12	0074231	CONST.	

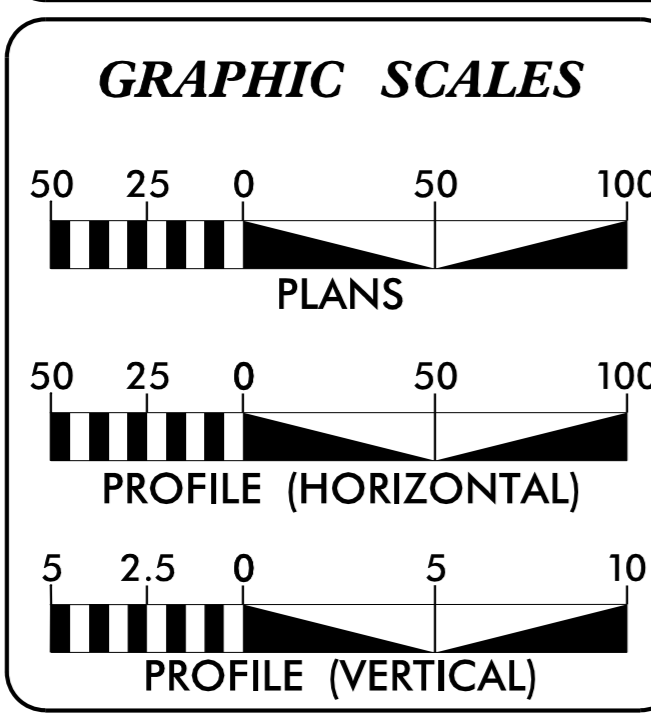


END TIP PROJECT U-2579BA
TIE TO TIP PROJECT U-2579B (BY OTHERS)
-Y4EB- POT Sta. 75+00.00 (U-2579BA) =
-Y4EB- POT Sta. 75+00.00 (U-2579B) =
-Y4WB- POT Sta. 75+00.00 (U-2579BA) =
-Y4WB- POT Sta. 75+00.00 (U-2579B) =

BEGIN TIP PROJECT U-2579BA
TIE TO TIP PROJECT U-5760 (BY OTHERS)
-Y4EB- POT Sta. 23+50.00 (U-2579B) =
-Y4WB- POT Sta. 23+50.00 (U-2579B) =
-Y1- POT Sta. 56+50.00 (U-5760)
NOTE: U-5760 PROJECT (BY OTHERS) USES DIFFERENT COORDINATE SYSTEM

THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS LIMITED TO POINTS AS SHOWN ON THE PLANS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

AADT 2020 =	57,600
AADT 2040 =	77,900
K =	9%
D =	65%
T =	7%*
V =	65 MPH

* (TTST 4% + DUAL 3%)

FUNCTIONAL CLASSIFICATION:
URBAN FREEWAY
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-2579BA	=	0.975 MILES
TOTAL LENGTH TIP PROJECT U-2579BA	=	0.975 MILES

PLANS PREPARED FOR THE NCDOT BY:

Kimley»Horn

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: NA

LETTING DATE: APRIL 20, 2021

DAN ROBINSON, P.E.
PROJECT ENGINEER

RHODES S. HUNT, P.E.
PROJECT DESIGN ENGINEER

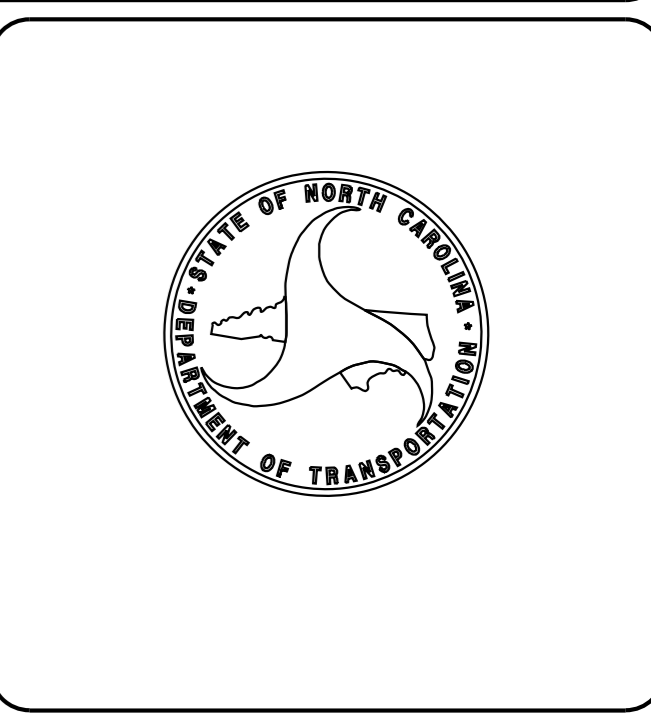
JESSICA EARLEY, P.E.
PROJECT EXECUTIVE
NCDOT PRIORITY PROJECTS TEAM

HYDRAULICS ENGINEER

DAN ROBINSON, P.E.
1/28/2021
SIGNATURE: [Signature]


ROADWAY DESIGN ENGINEER

RHODES S. HUNT, P.E.
1/28/2021
SIGNATURE: [Signature]



1/28/2021

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. U-2579BA	SHEET NO. 1A
ROADWAY DESIGN ENGINEER	
	
2/24/2020	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

GENERAL NOTES

U-2579BA
FORSYTH COUNTY

2018 SPECIFICATIONS

EFFECTIVE: 01-16-2018

EFF. 01-16-2018

2018 ROADWAY ENGLISH STANDARD DRAWINGS

INDEX OF SHEETS

SHEET NUMBER	SHEET
I	TITLE SHEET
IA	INDEX OF SHEETS, GENERAL NOTES, LIST OF ROADWAY STANDARD DRAWINGS
IB	CONVENTIONAL SYMBOLS SHEET
2A-1 THRU 2A-3	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND MISCELLANEOUS DETAILS
2C-1	DETAIL FOR CONVERSION OF EXISTING OPEN THROAT CATCH BASIN TO MEDIAN DROP INLET WITH TWO GRATES
2C-2	DETAIL FOR GUARDRAIL INSTALLATION (IN LIEU OF SHEET 6 OF 8)
2D-1	DRAINAGE DETAILS
2G-1	DETAIL FOR DAM EMBANKMENT WIDENING
3B-1	SUMMARY OF EARTHWORK
3B-2	SUMMARIES OF GUARDRAIL, REMOVAL OF EXISTING ASPHALT PAVEMENT, SHOULDER BERM GUTTER AND WOVEN WIRE FENCE
3D-1 THRU 3D-2	SUMMARY OF DRAINAGE QUANTITIES
4 THRU 7	PLAN SHEETS
8 THRU 12	PROFILE SHEETS
RWO1 THRU RWO7	SURVEY CONTROL SHEETS
TMP-1 THRU TMP-11	TRANSPORTATION MANAGEMENT PLANS
SD-1	SPECIAL SIGN DESIGNS
PMP-1 THRU PMP-5	PAVEMENT MARKING PLANS
EC-1 THRU EC-11/CONST.7	EROSION CONTROL PLANS
EC-12	TEMPORARY ACCESS/BRIDGE PROFILE SHEET
STREAM-1 THRU STREAM-13	STREAM RELOCATION PLANS
RF-1 THRU RF-3	REFORESTATION DETAILS
X-0	CROSS-SECTION INDEX
X-1A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-61	CROSS-SECTIONS
C-1 THRU C-8	CULVERT PLANS
SN	STRUCTURES STANDARD NOTES

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 III.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.02

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS 'EXTRA WORK' IN ACCORDANCE WITH SECTION 104-7.

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

- 200.03 METHOD OF CLEARING - METHOD III
- 225.01 GUIDE FOR GRADING SUBGRADE - INTERSTATE AND FREEWAY
- 225.03 DECELERATION AND ACCELERATION LANES
- 225.05 METHOD OF OBTAINING SUPERELEVATION - DIVIDED HIGHWAYS
- 275.01 ROCK PLATING

DIVISION 3 - PIPE CULVERTS

- 300.01 METHOD OF PIPE INSTALLATION

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

- 560.02 METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD II

DIVISION 6 - ASPHALT BASES AND PAVEMENTS

- 665.01 ASPHALT SHOULDERS - MILLED RUMBLE STRIPS

DIVISION 8 - INCIDENTALS

- 838.01 CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS - 15' THRU 48" PIPE 90 SKEW
- 838.01 BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS - 15' THRU 48" PIPE 90 SKEW
- 838.80 PRECAST ENDWALLS - 12' THRU 72" PIPE 90 SKEW
- 840.00 CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
- 840.17 CONCRETE GRATED DROP INLET TYPE 'A' - 12" THRU 72" PIPE
- 840.18 CONCRETE GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
- 840.20 FRAMES AND WIDE SLOT FLAT GRATES
- 840.22 FRAMES AND WIDE SLOT SAG GRATES
- 840.25 ANCHORAGE FOR FRAMES - BRICK OR CONCRETE OR PRECAST
- 840.26 BRICK GRATED DROP INLET TYPE 'A' - 12" THRU 72" PIPE
- 840.27 BRICK GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
- 840.31 CONCRETE JUNCTION BOX - 12" THRU 66" PIPE
- 840.32 BRICK JUNCTION BOX - 12" THRU 66" PIPE
- 840.45 PRECAST DRAINAGE STRUCTURE
- 840.54 MANHOLE FRAME AND COVER
- 840.66 DRAINAGE STRUCTURE STEPS
- 840.72 PIPE COLLAR
- 846.01 CONCRETE CURB, GUTTER AND CURB & GUTTER
- 846.04 DROP INLET INSTALLATION IN SHOULDER BERM GUTTER
- 862.01 GUARDRAIL PLACEMENT
- 862.02 GUARDRAIL INSTALLATION
- 862.04 ANCHORING END OF GUARDRAIL - B-77 AND B-83 ANCHOR UNITS
- 866.02 WOVEN WIRE FENCE - WITH WOOD POST
- 866.03 WOVEN WIRE FENCE - WITH STEEL POST
- 876.01 RIP RAP IN CHANNELS
- 876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS

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	○ EIP
Computed Property Corner	○ ECM
Property Monument	□ ECM
Parcel/Sequence Number	①23
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	○

Note: Not to Scale *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	AATUR
End of Information	E.O.I.

8/17/99

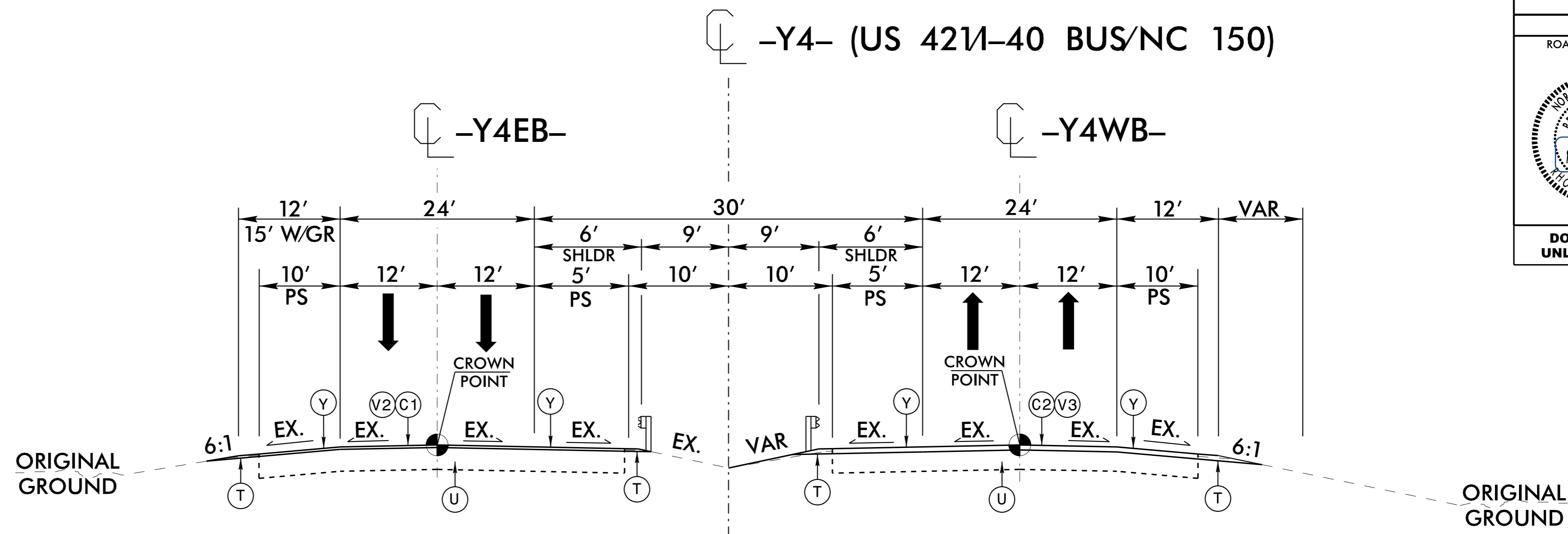
PAVEMENT SCHEDULE

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 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 LESS THAN 1 1/2" OR GREATER THAN 2" IN DEPTH.
D1	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" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
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. 6" AGGREGATE BASE COURSE.
R1	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING ASPHALT PAVEMENT, 1.5" DEPTH (SEE DETAIL, SHEET 2A-3).
V2	MILLING ASPHALT PAVEMENT, 0" TO 1.5" (SEE DETAIL, SHEET 2A-3).
V3	MILLING ASPHALT PAVEMENT, 0" TO 3" (SEE DETAIL, SHEET 2A-3).
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL, SHEET 2A-3).
Y	RUMBLE STRIPS.

NOTE: PAV. EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.

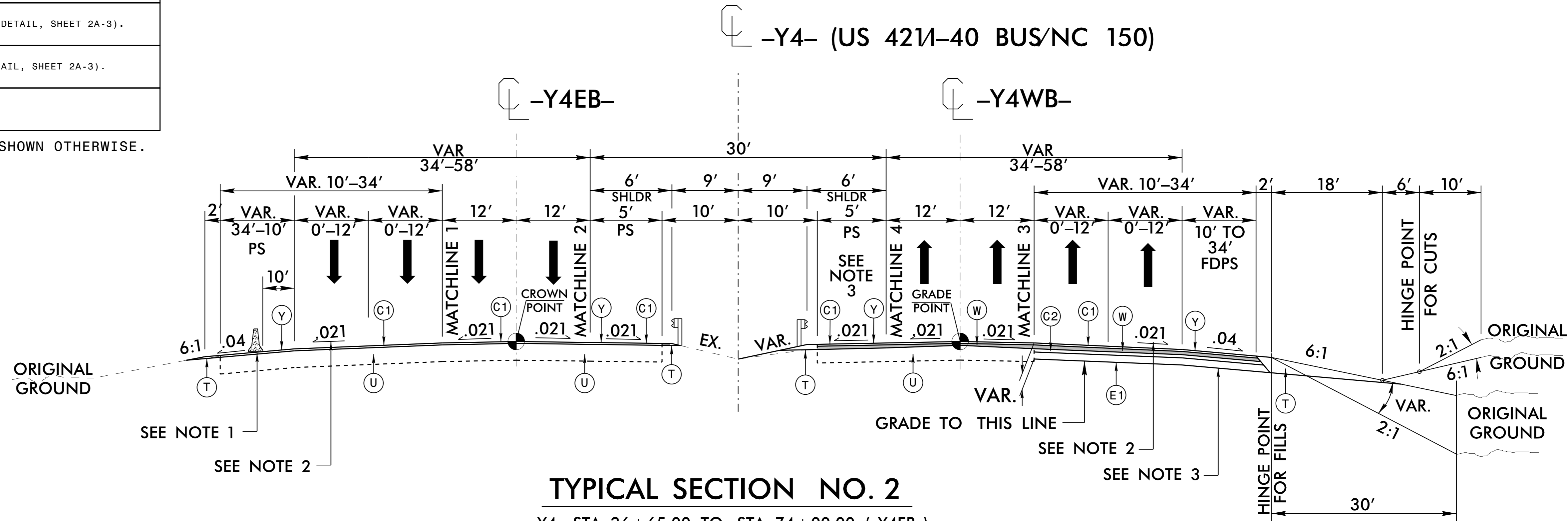
REVISIONS

PROJECT REFERENCE NO. U-2579BA	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 1

-Y4- STA. 23+50.00 TO STA. 26+65.00 (-Y4EB- AND -Y4WB-)
 -Y4- STA. 74+00.00 TO STA. 75+00.00 (-Y4EB-)



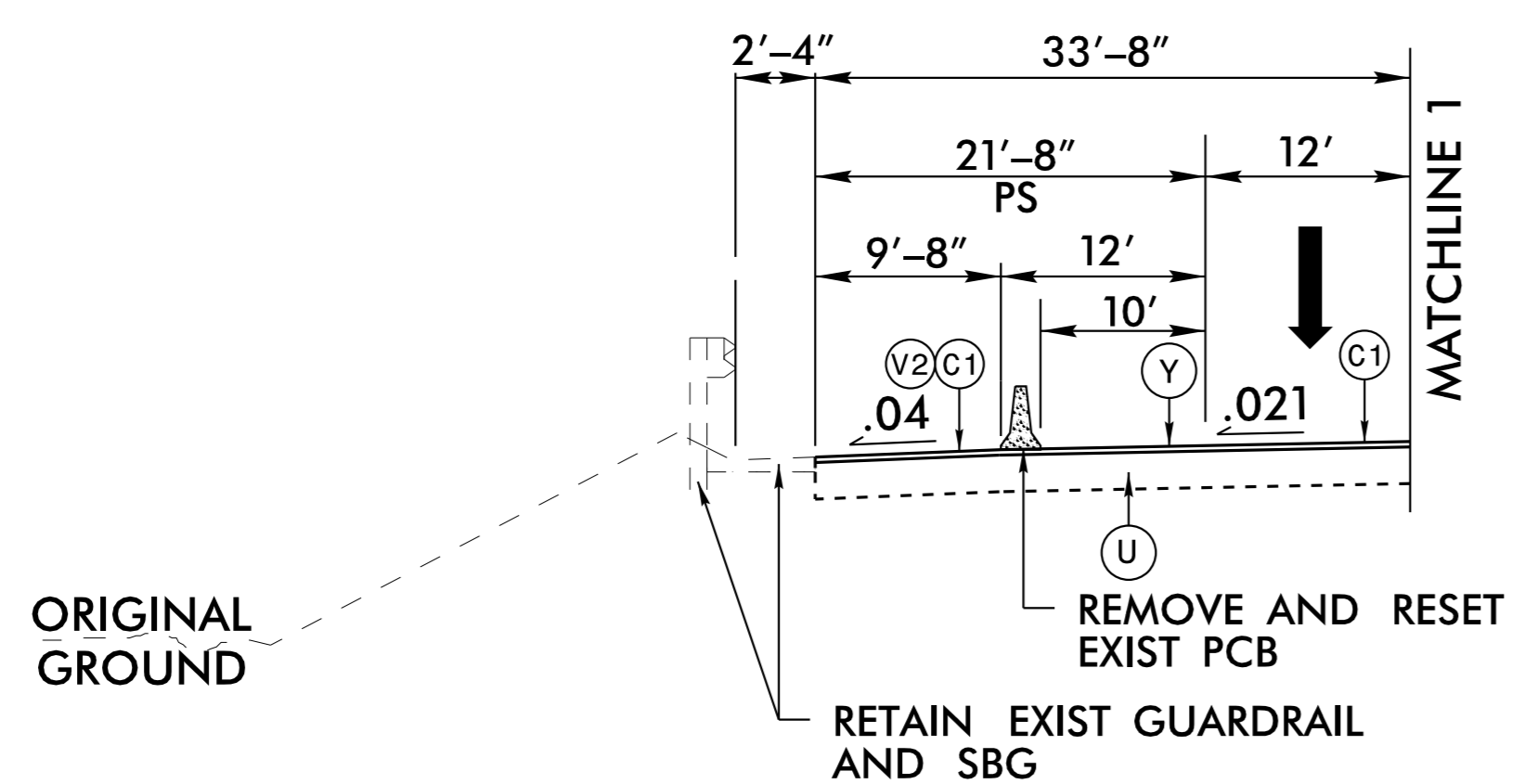
TYPICAL SECTION NO. 2

-Y4- STA. 26+65.00 TO STA. 74+00.00 (-Y4EB-)
 -Y4- STA. 26+65.00 TO STA. 69+50.00 (-Y4WB-)

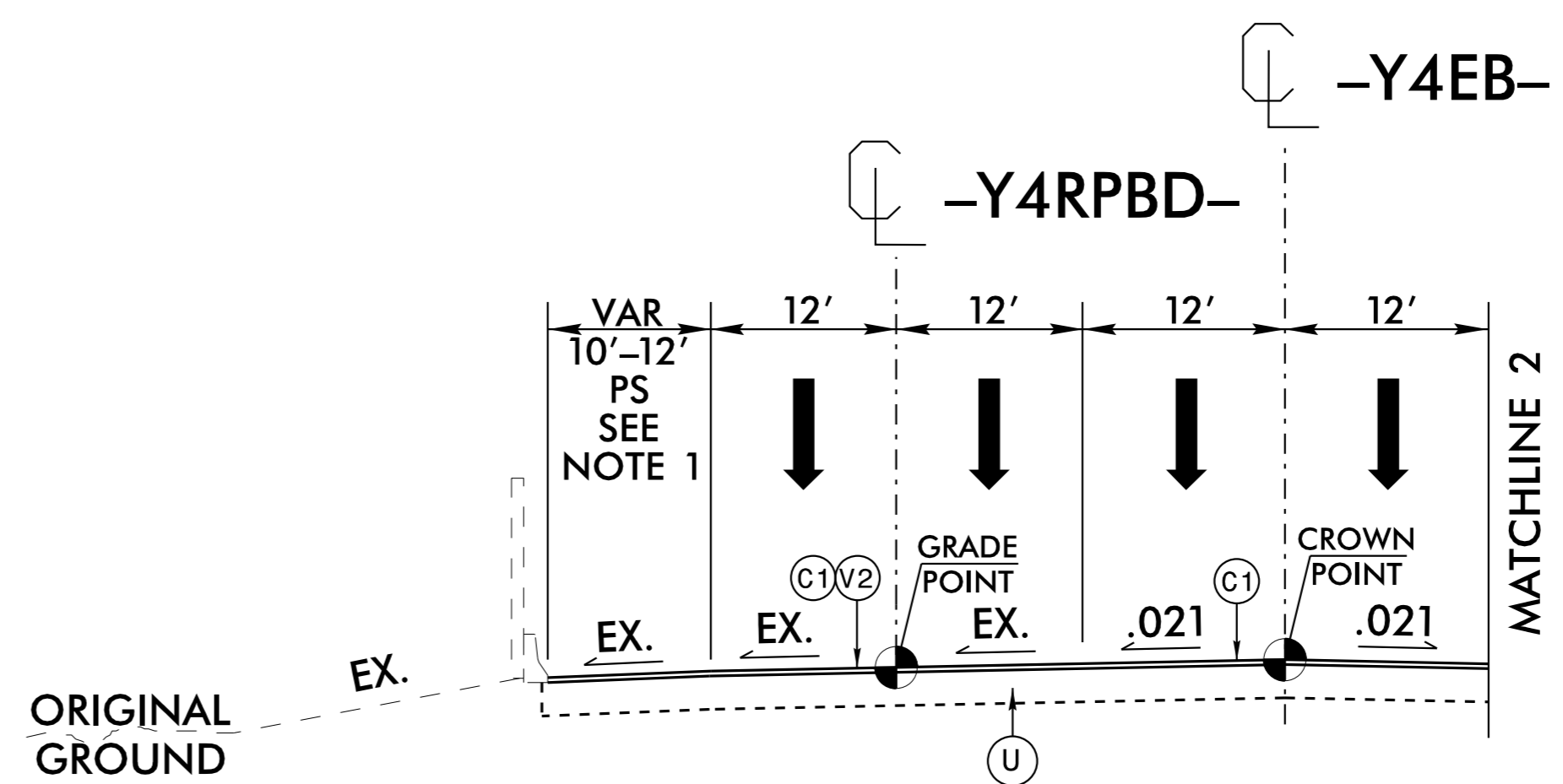
- NOTES:
- REMOVE AND RESET EXIST PORTABLE CONC BARRIER 10' FROM EDGE OF OUTSIDE TRAVEL LANE FROM -Y4EB- STA 26+65.00 TO 47+54.00 (LT)
 - CONSTRUCT 0.021 SUPERELEVATION TO 10' (TYP) FROM EDGE OF PAVED SHOULDER (SEE PLANS)
 - EXISTING PAVED SHOULDERS TO BE REBUILT (OUTSIDE) OR RESURFACED (INSIDE). WEDGING TO OCCUR AFTER SHOULDER RECONSTRUCTION, FOLLOWED BY APPLICATION OF THE FINAL SURFACE COURSE. SEE U-2579B PLANS (BY OTHERS) AND TRANSPORTATION MANAGEMENT PLANS FOR ADDITIONAL INFORMATION.

8/17/99

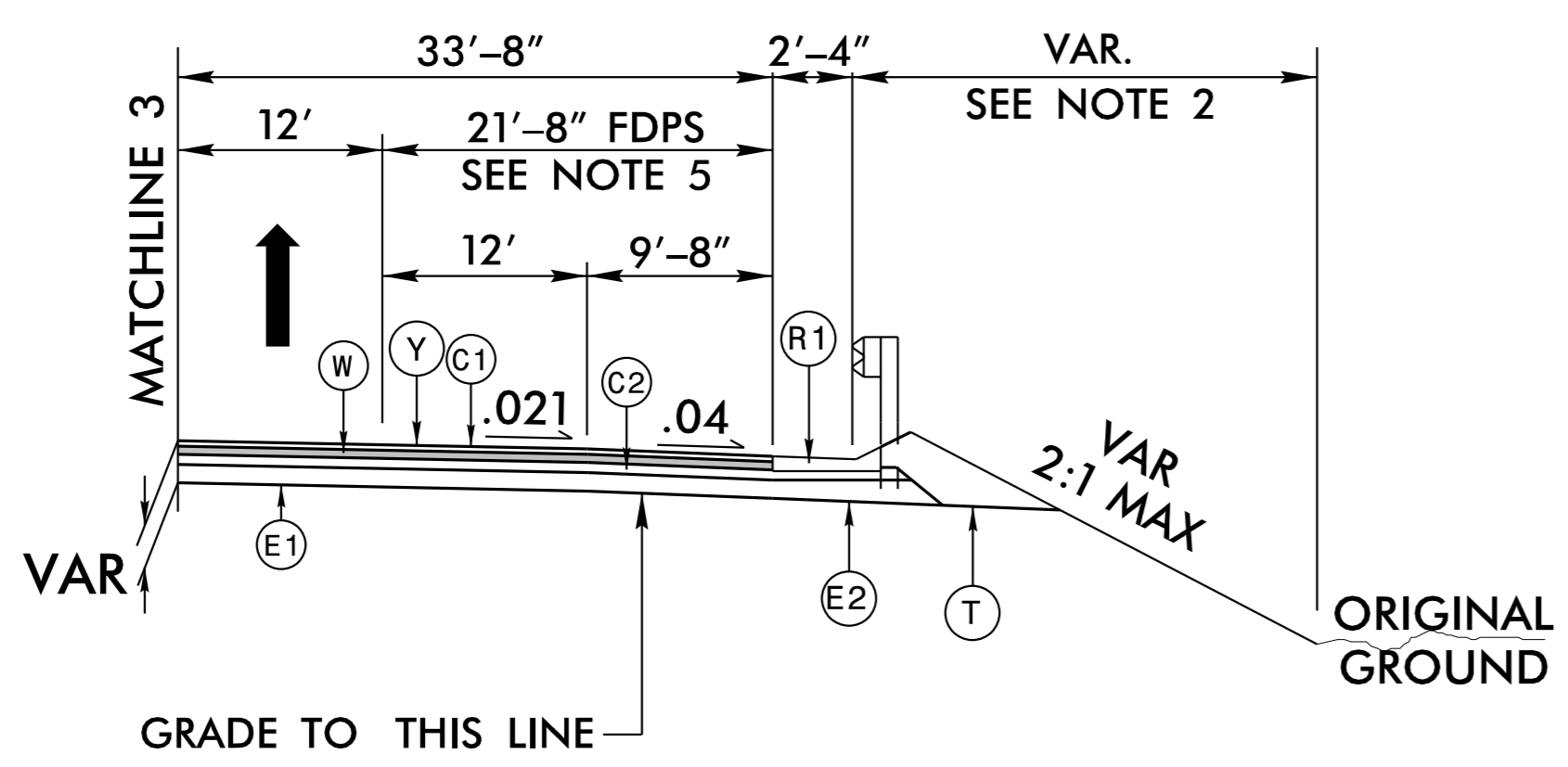
REVISIONS



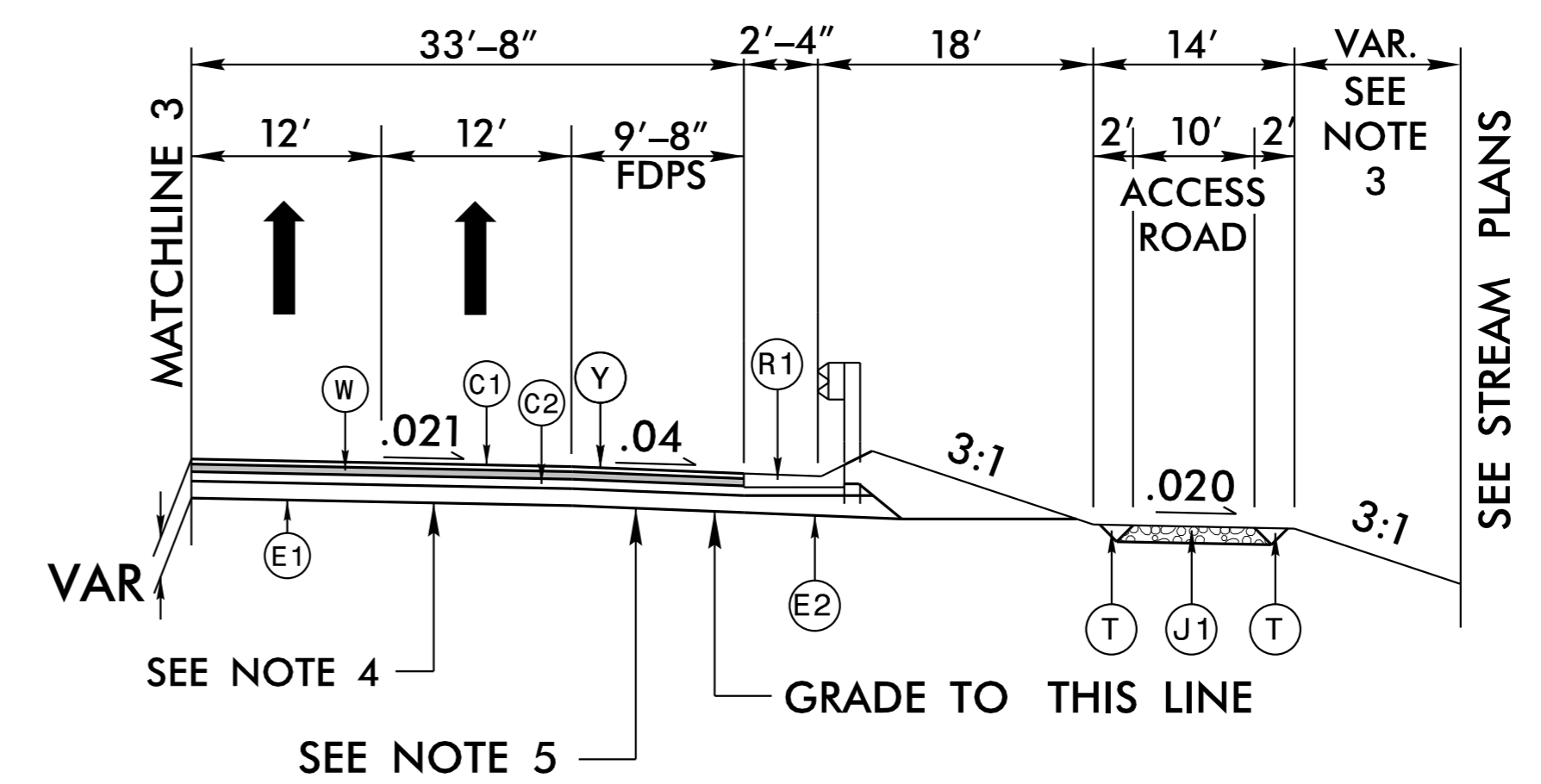
TYPICAL SECTION NO. 2A
-Y4EB- STA. 40+50.00 TO 46+00.00 LT



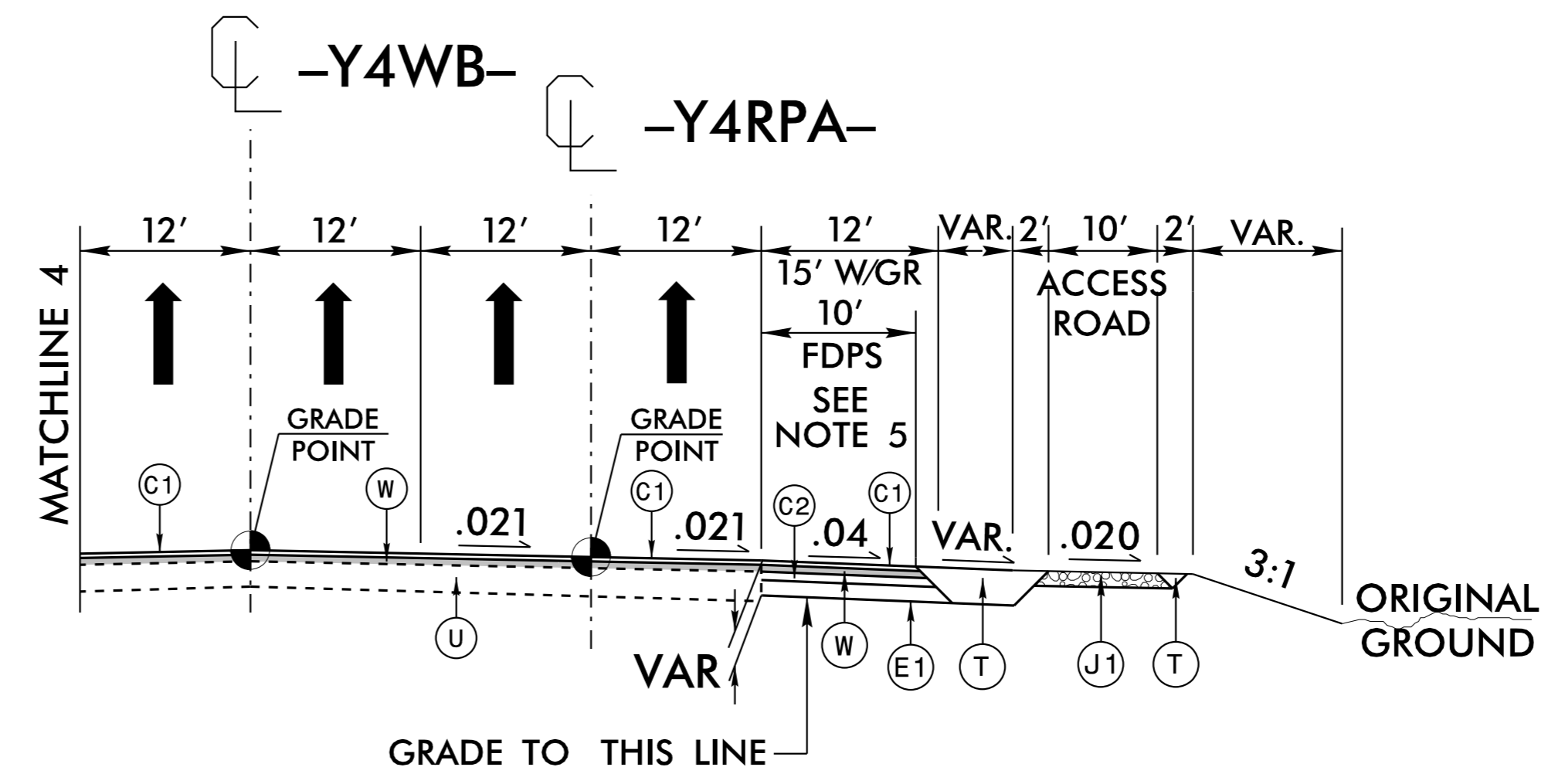
TYPICAL SECTION NO. 2B
-Y4EB- STA. 60+53.98 TO 64+97.48 LT
-Y4RPBD- STA. 86+04.51 TO 81+62.11



TYPICAL SECTION NO. 2C
-Y4WB- STA. 39+50.00 TO 54+50.00 RT



TYPICAL SECTION NO. 2D
-Y4WB- STA. 54+50.00 TO 68+87.73 RT



TYPICAL SECTION NO. 2E
-Y4WB- STA. 68+87.73 TO 69+50.00 RT
-Y4RPA- STA. 41+41.74 TO 40+79.41

- NOTES:
1. MILL AND RESURFACE EXIST PAVED SHOULDER AND RETAIN EXIST BARRIER AND NOISE WALL FROM -Y4RPBD- STA 81+62.11 TO 83+17.38 (RT)
 2. CONSTRUCT 9'-6" WIDE FILL SLOPE AT 3:1 FROM -Y4WB- STA 48+00.00 TO 54+50.00 (RT) AND TIE SLOPE TO PROPOSED GRADING SHOWN IN STREAM RELOCATION PLANS
 3. TIE SLOPE TO PROPOSED GRADING SHOWN IN STREAM RELOCATION PLANS
 4. RETAIN EXIST PAVEMENT UNDER PROPOSED THROUGH LANES FROM -Y4WB- STA 67+53.00 TO 68+87.73. SEE WEDGING DETAIL FOR RESURFACING, SHEET 2A-3.
 5. EXIST OUTSIDE PAVED SHOULDERS TO BE REBUILT. WEDGING TO OCCUR AFTER SHOULDER RECONSTRUCTION, FOLLOWED BY APPLICATION OF THE FINAL SURFACE COURSE. SEE U-2579B PLANS (BY OTHERS) AND TRANSPORTATION MANAGEMENT PLANS FOR ADDITIONAL INFORMATION.

PROJECT REFERENCE NO. U-2579BA	SHEET NO. 2A-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PAVEMENT SCHEDULE

C1	1.5" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	VAR. I19.0C
E1	7" B25.0C
E2	VAR. B25.0C
J1	6" ABC
R1	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING (1.5")
V2	MILLING (0" TO 1.5")
V3	MILLING (0" TO 3")
W	WEDGING
Y	RUMBLE STRIPS

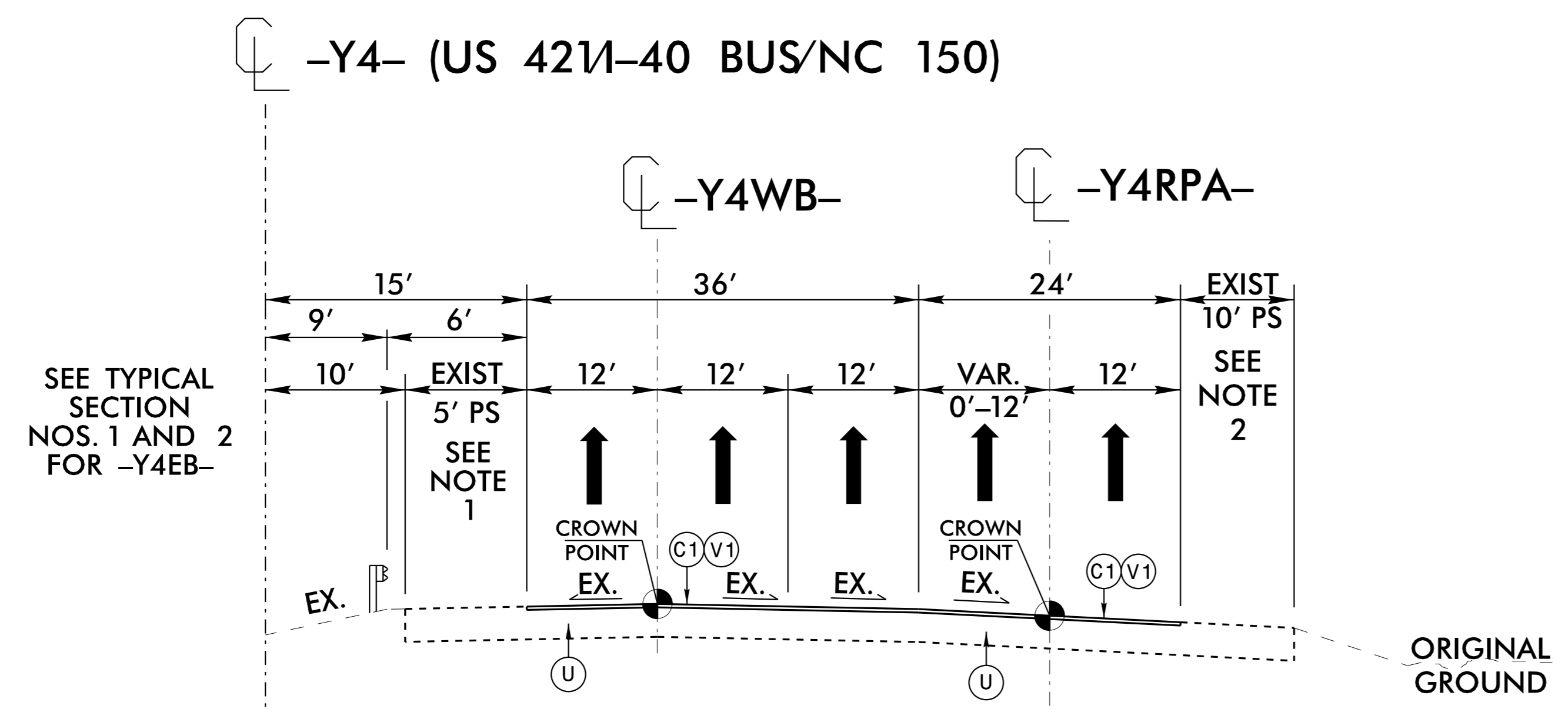
8/17/99

PROJECT REFERENCE NO. U-2579BA	SHEET NO. 2A-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PAVEMENT SCHEDULE

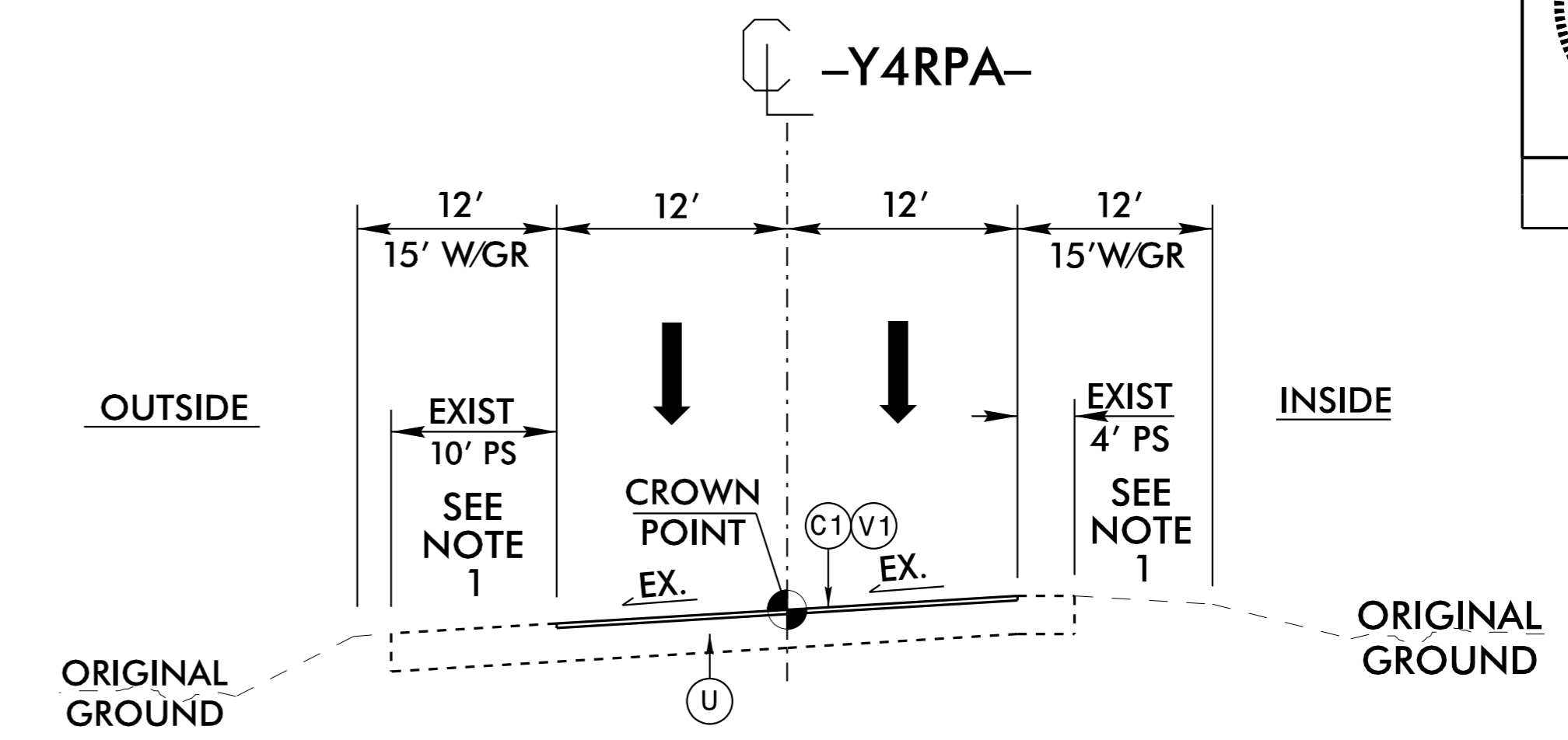
C1	1.5" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	VAR. I19.0C
E1	7" B25.0C
E2	VAR. B25.0C
J1	6" ABC
R1	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING (1.5")
V2	MILLING (0" TO 1.5")
V3	MILLING (0" TO 3")
W	WEDGING
Y	RUMBLE STRIPS



TYPICAL SECTION NO. 3

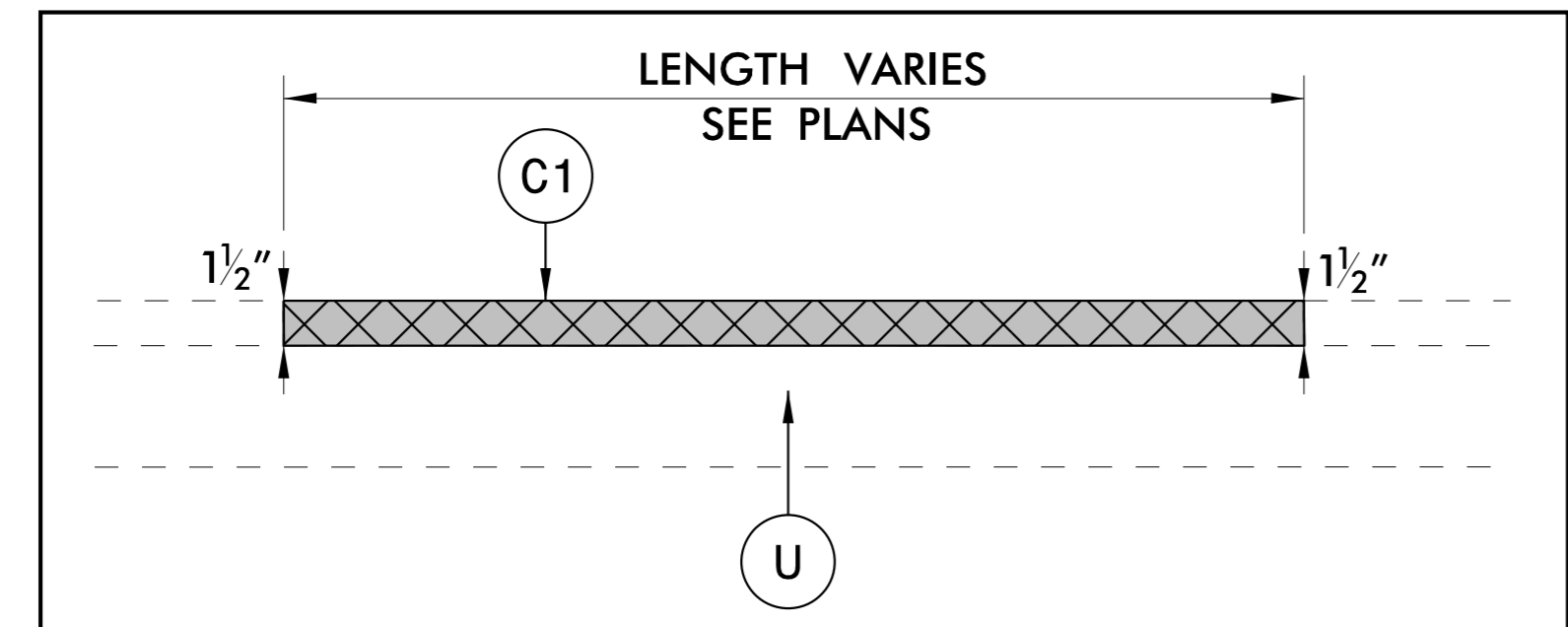
-Y4- STA. 69+50.00 TO 75+00.00 (-Y4WB-)
-Y4RPA- STA. 40+79.41 TO 36+24.33

SEE TYPICAL SECTION NOS. 1 AND 2 FOR -Y4EB-



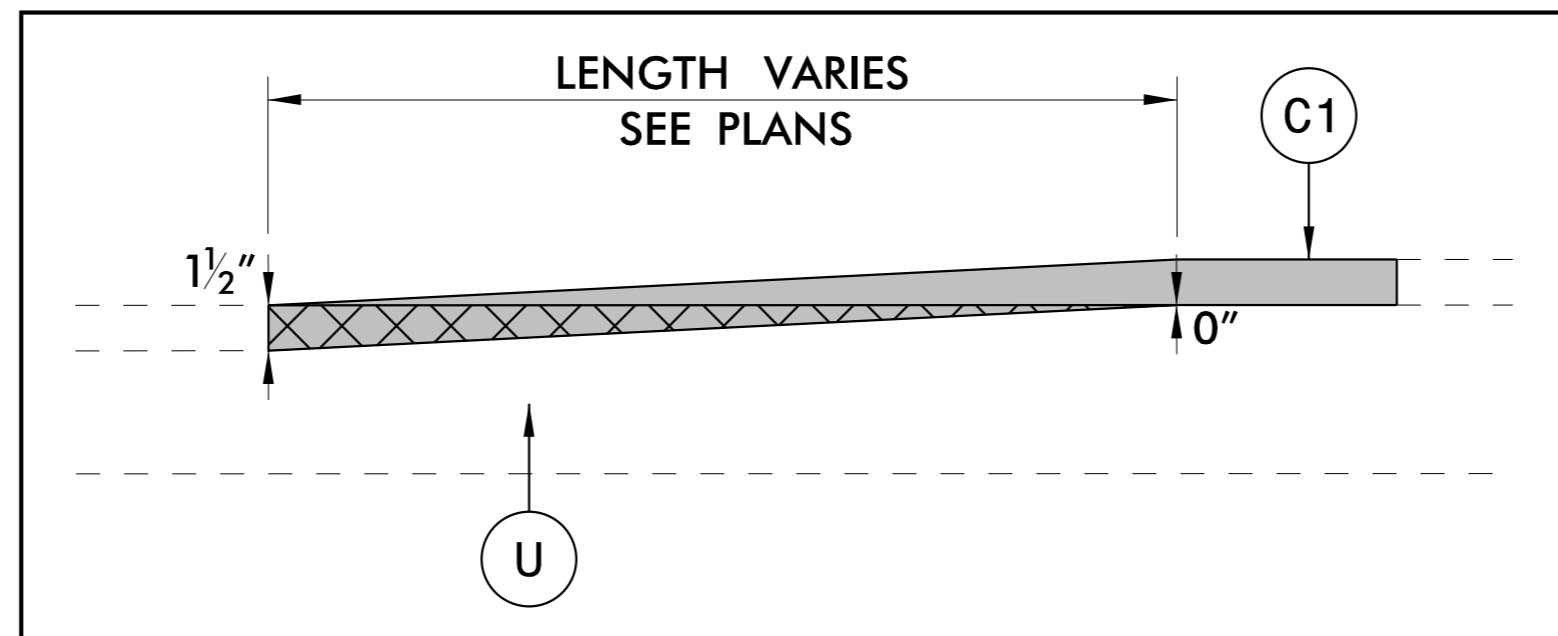
TYPICAL SECTION NO. 4

-Y4RPA- STA. 34+71.47 TO 36+24.33



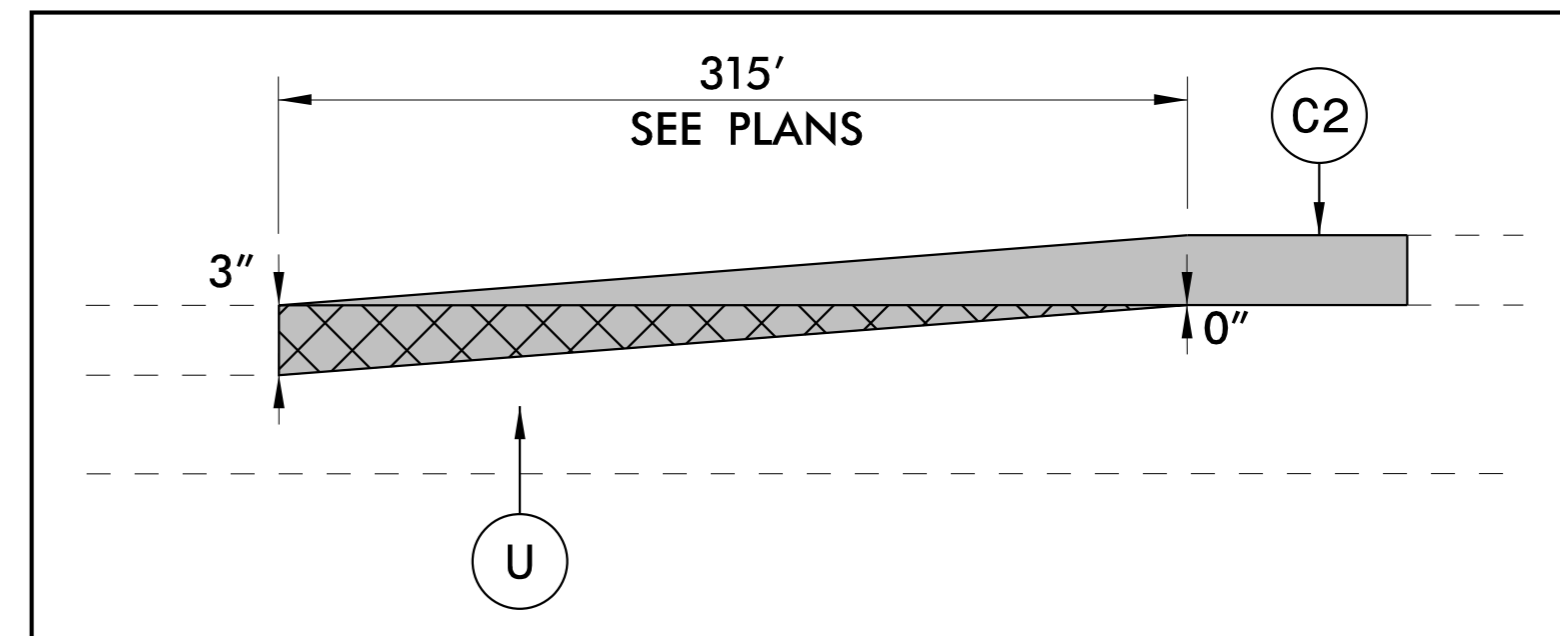
(V1) 1.5" MILLING DETAIL

-Y4WB- STA 69+50.00 TO 75+00.00
-Y4RPA- STA 34+71.47 TO 40+79.41



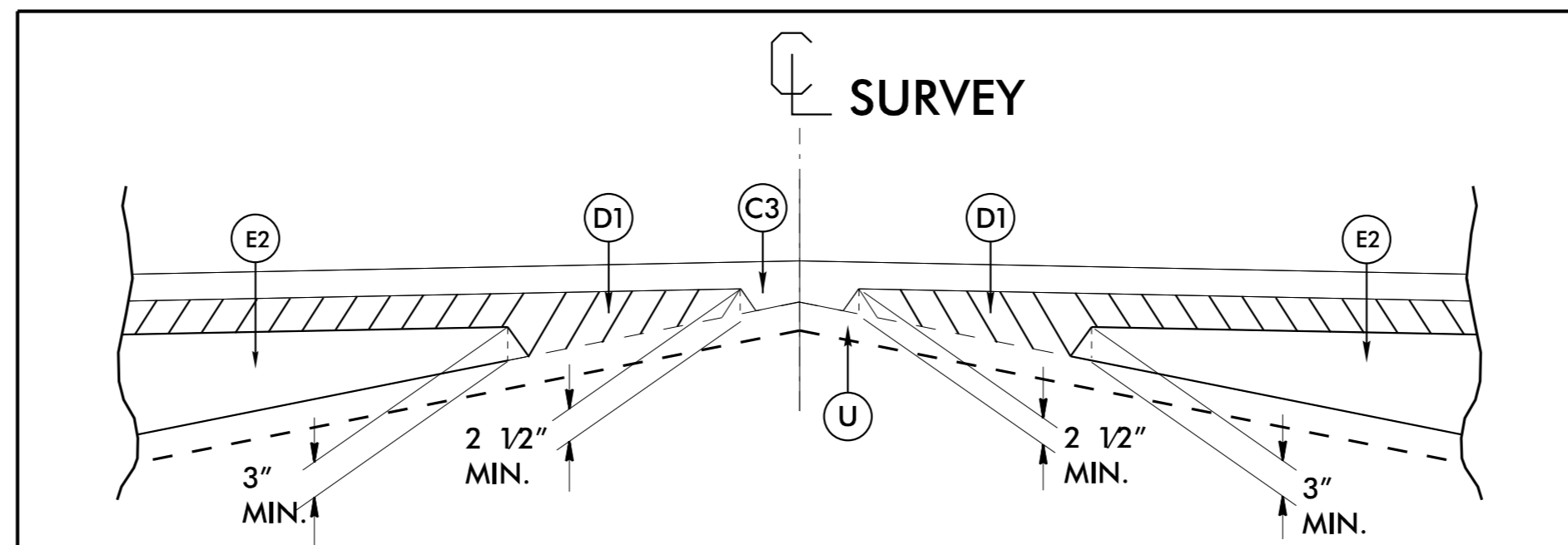
(V2) VARIABLE MILLING (0" TO 1.5") DETAIL

-Y4EB- STA 23+50.00 TO 26+65.00
-Y4EB- STA 74+00.00 TO 75+00.00
-Y4RPBD- STA 81+62.11 TO 86+04.51



(V3) VARIABLE MILLING (0" TO 3") DETAIL

-Y4WB- STA 23+50.00 TO 26+65.00



(W) WEDGING DETAIL FOR RESURFACING

- NOTES:**
1. RETAIN EXIST PAVED SHOULDER.
 2. RETAIN EXIST PAVED SHOULDER AND SHOULDER BERM GUTTER FROM -Y4RPA- STA 37+00.00 TO 40+00.00 (LT).
 3. EXISTING PAVED SHOULDERS TO BE REBUILT. WEDGING TO OCCUR AFTER SHOULDER RECONSTRUCTION, FOLLOWED BY APPLICATION OF THE FINAL SURFACE COURSE. SEE TRANSPORTATION MANAGEMENT PLANS FOR ADDITIONAL INFORMATION.

REVISIONS

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

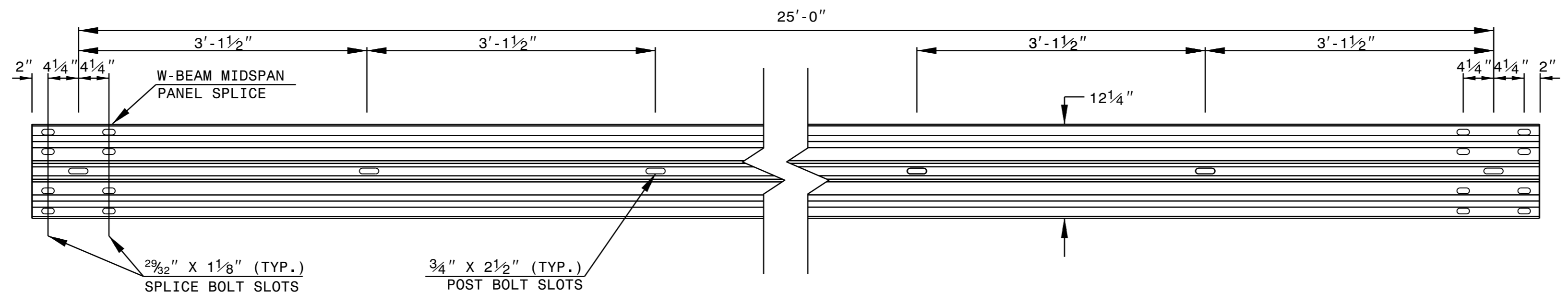
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02

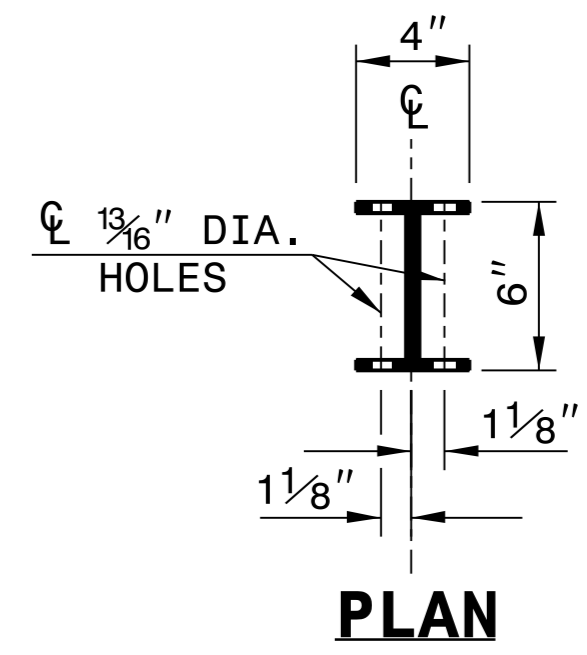
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

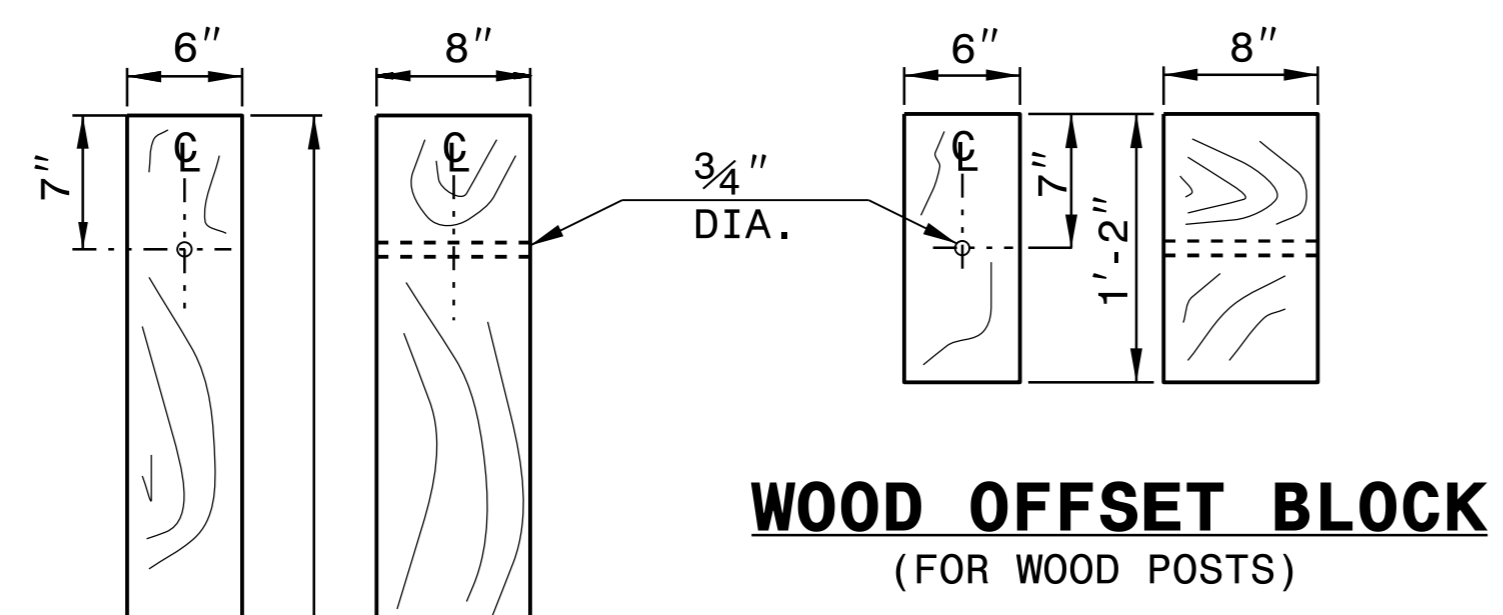
SHEET 6 OF 8
862D02



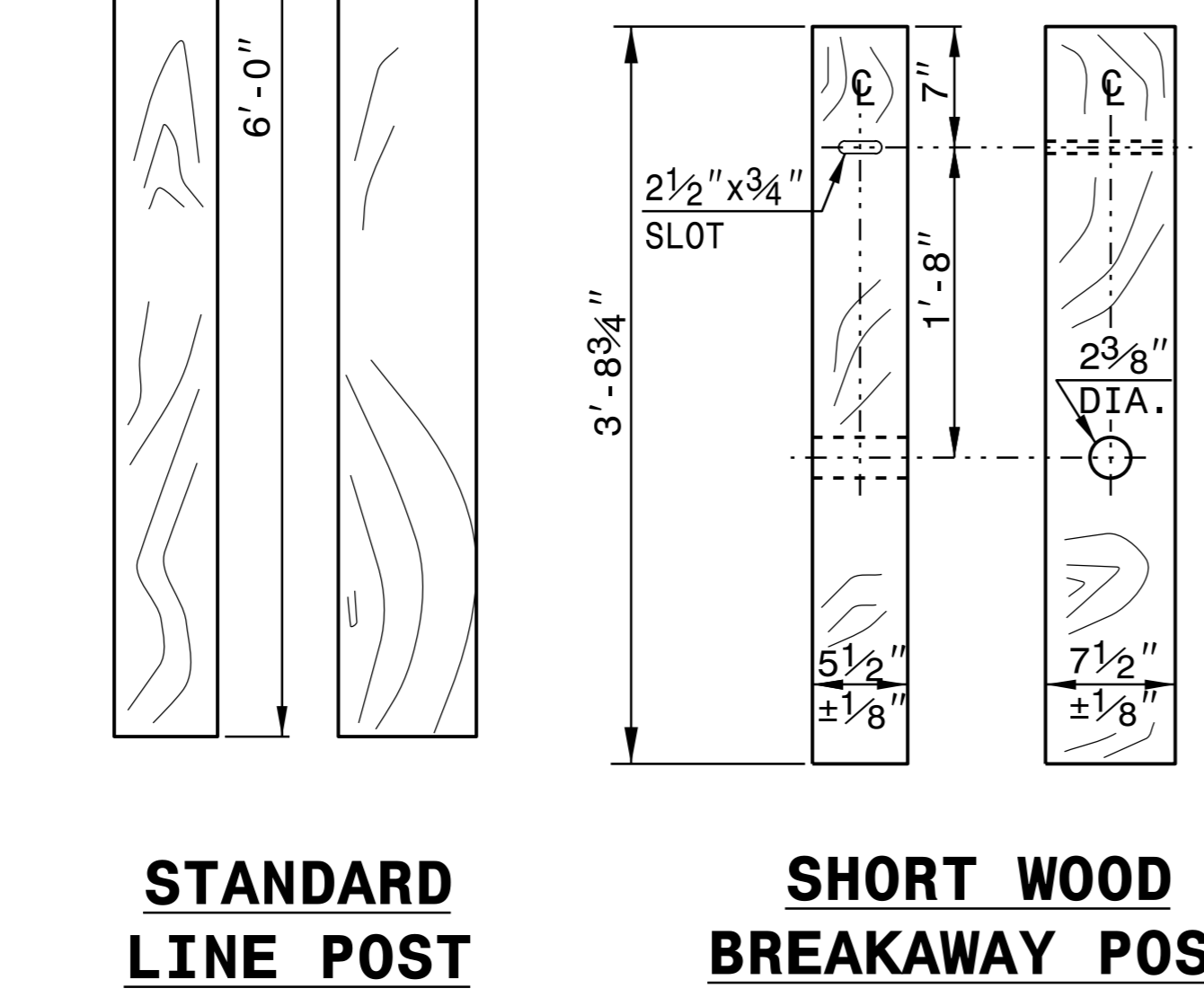
STANDARD W-BEAM GUARDRAIL



PLAN

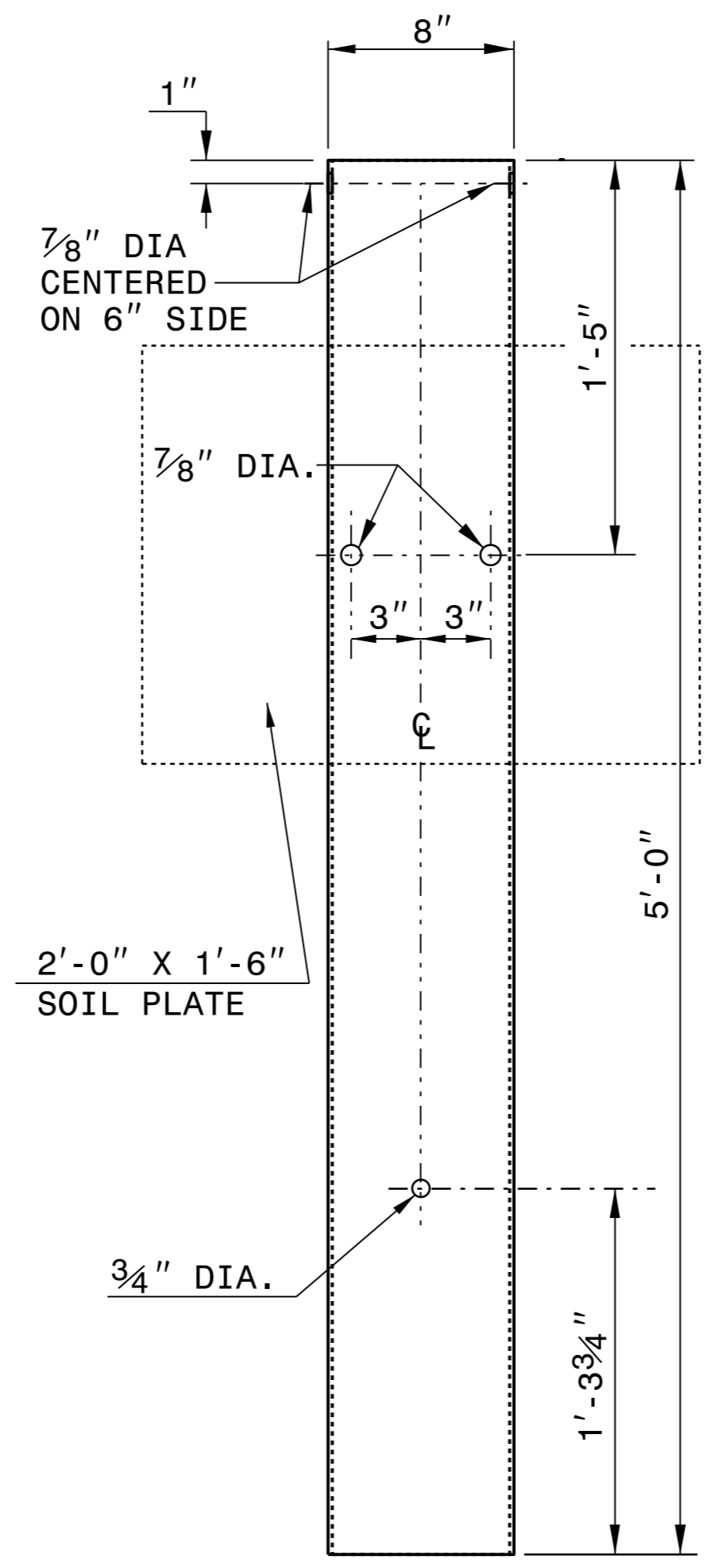


**WOOD OFFSET BLOCK
(FOR WOOD POSTS)**

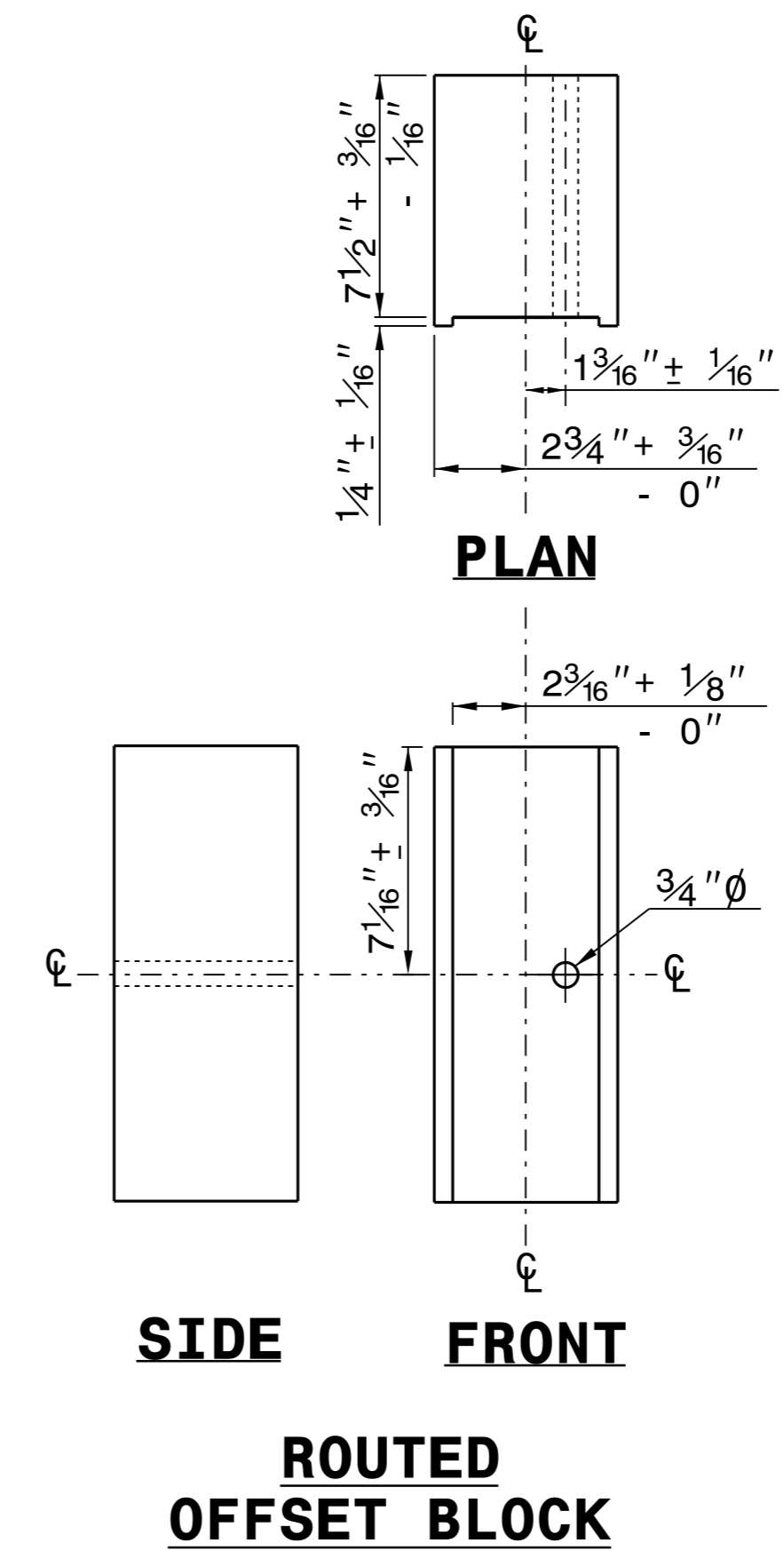


STANDARD LINE POST

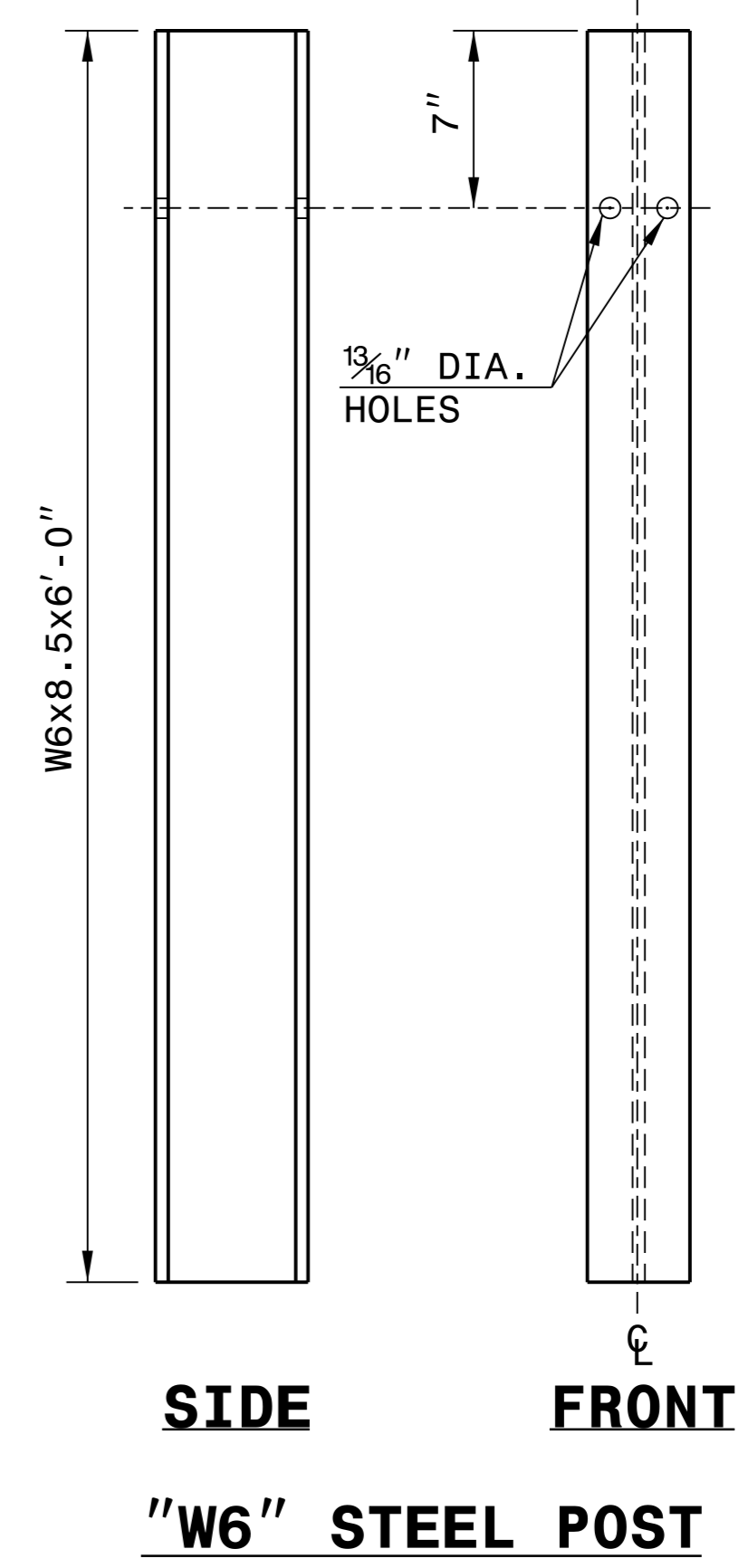
SHORT WOOD BREAKAWAY POST



**STEEL TUBE
TS 6"x8"x0.1875"**

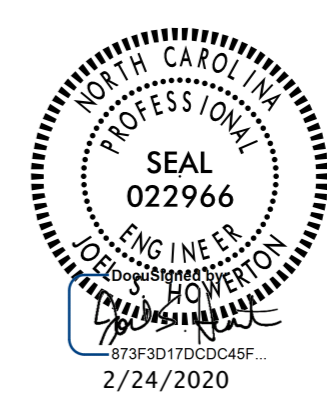


**ROUTED OFFSET BLOCK
SIDE FRONT**



**"W6" STEEL POST
SIDE FRONT**

SYSTEM PARTS



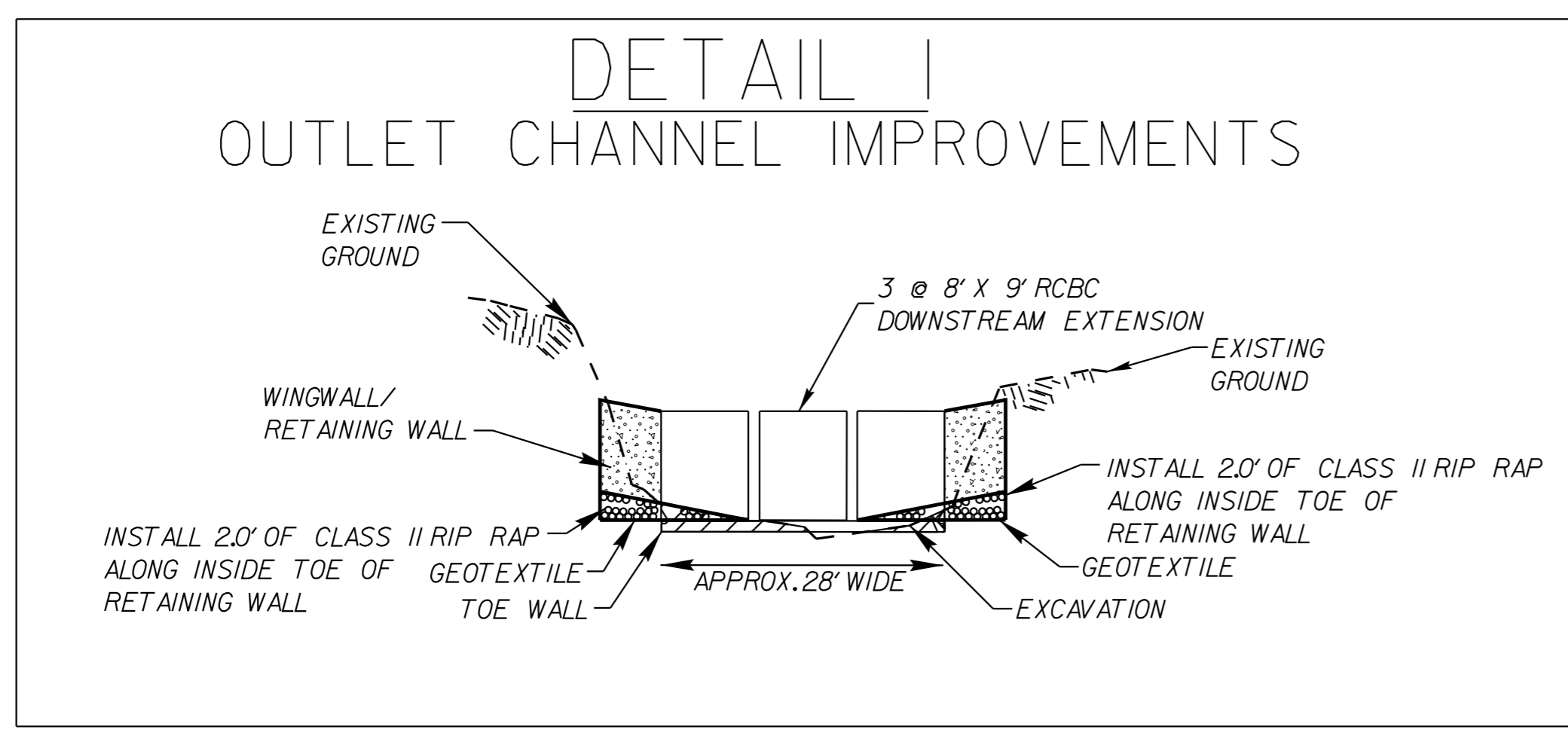
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

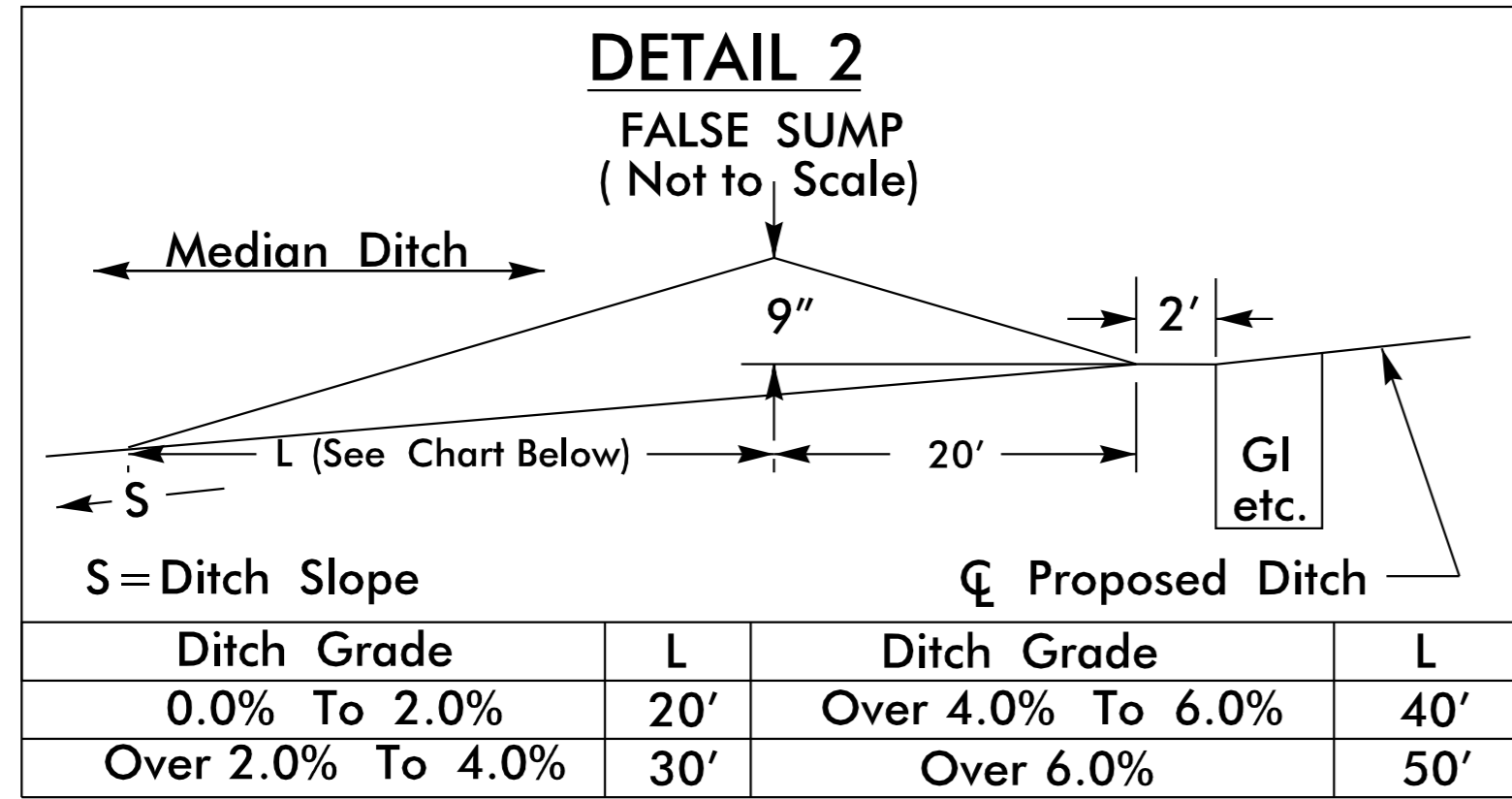
ORIGINAL BY: J. HOWERTON	DATE: 3-7-2018
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	

8/17/99

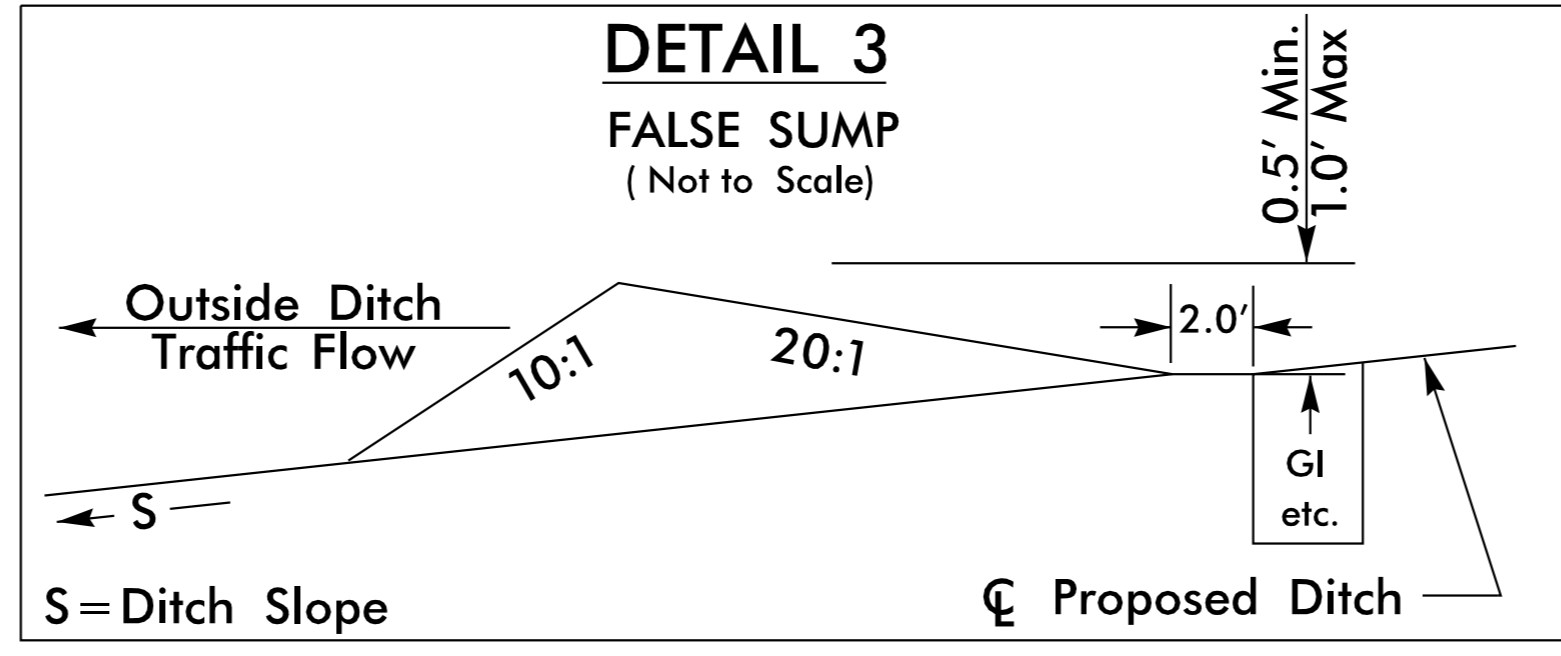
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



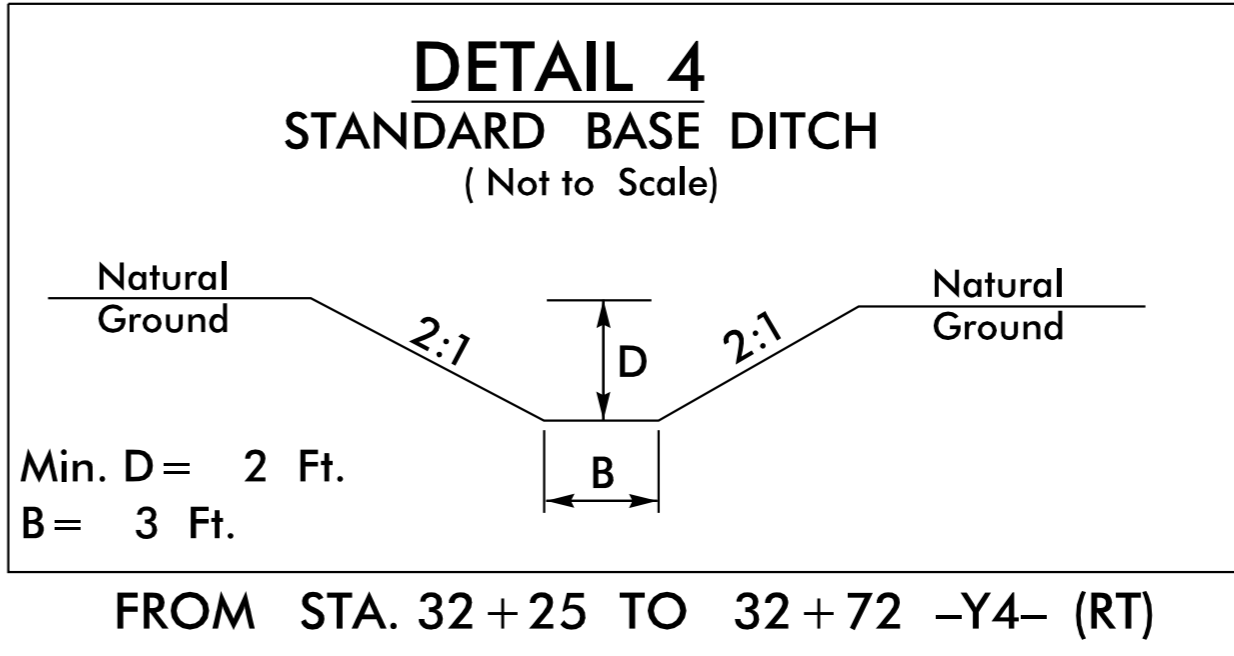
STA. 46 + 50 -Y4- (RT)



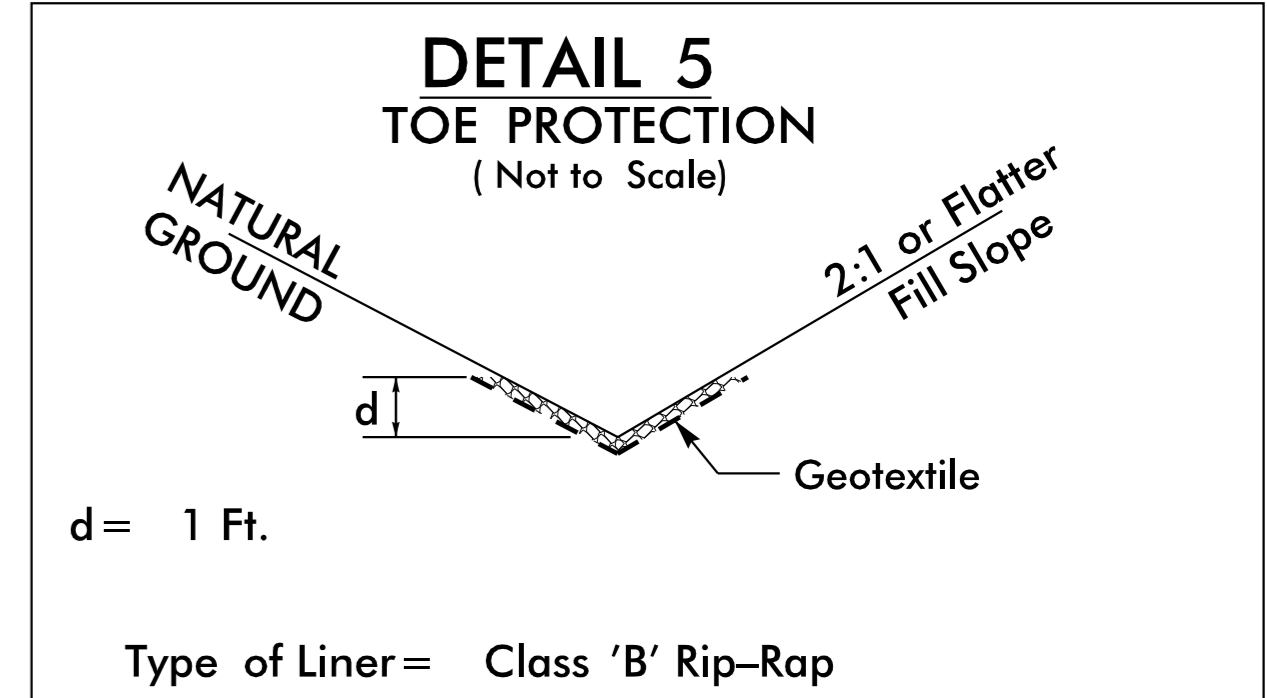
- STA. 29+21 -Y4- (CL), STA. 33+50 -Y4- (CL)
- STA. 36+49 -Y4- (CL), STA. 39+49 -Y4- (CL)
- STA. 43+14 -Y4- (CL), STA. 46+63 -Y4- (CL)
- STA. 50+14 -Y4- (CL), STA. 52+64 -Y4- (CL)
- STA. 56+37 -Y4- (CL), STA. 57+43 -Y4- (CL)
- STA. 60+79 -Y4- (CL), STA. 63+21 -Y4- (CL)
- STA. 67+22 -Y4- (CL), STA. 71+21 -Y4- (CL)



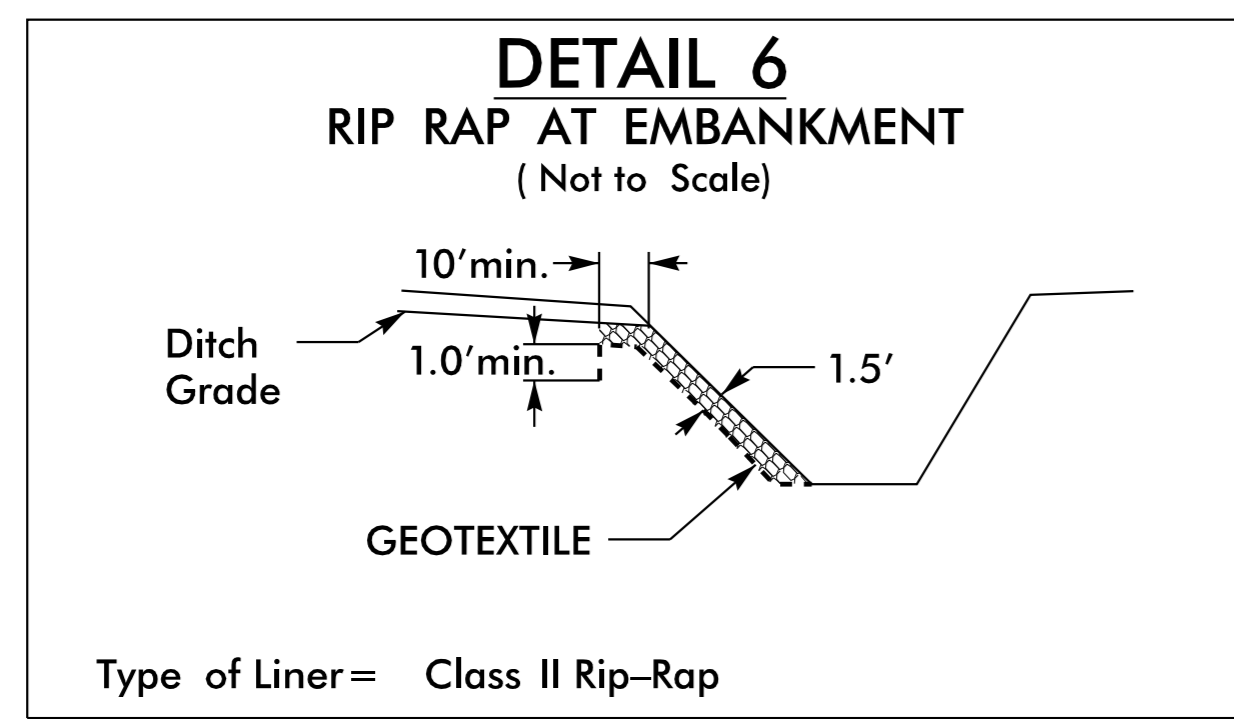
- STA. 29+02 -Y4- (RT)
- STA. 32+14 -Y4- (RT)
- STA. 33+69 -Y4- (RT)
- STA. 38+89 -Y4- (RT)
- STA. 40+39 -Y4- (RT)



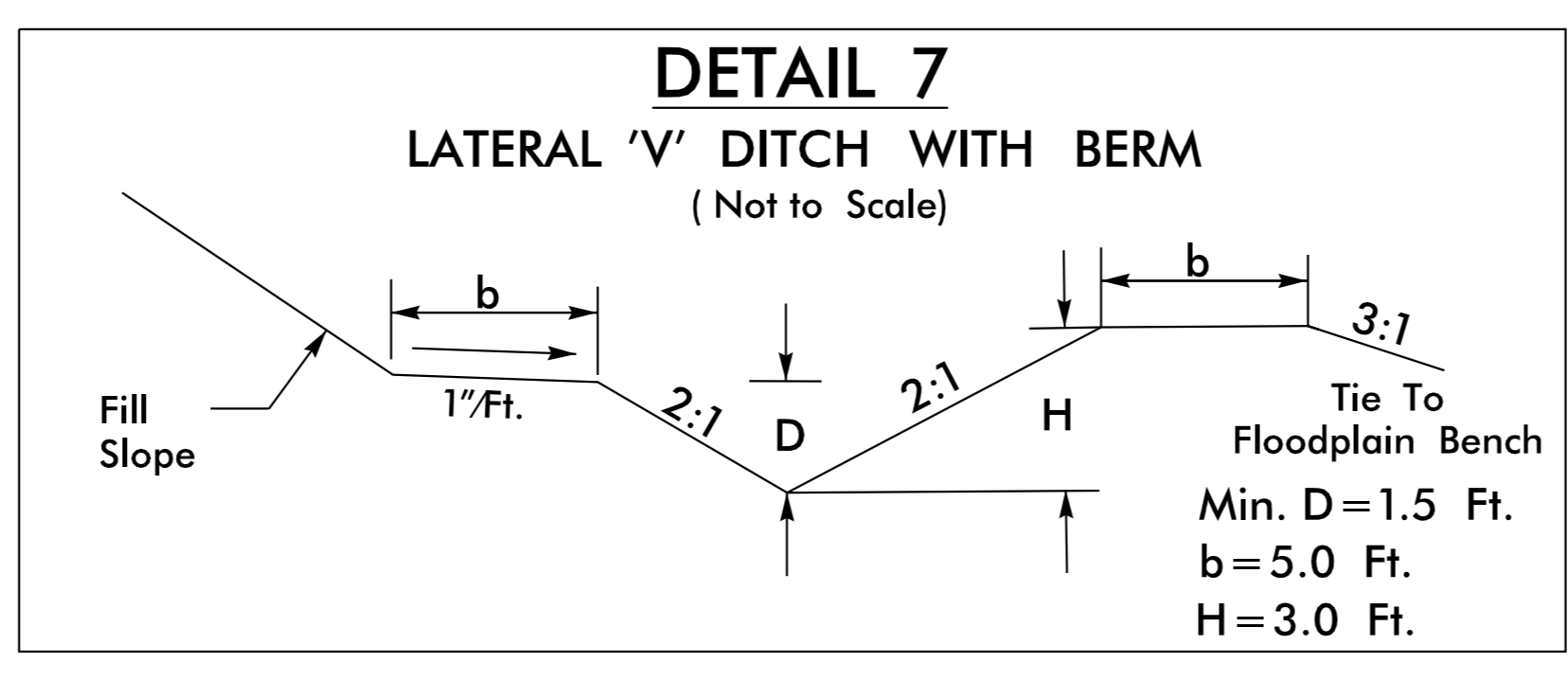
FROM STA. 32+25 TO 32+72 -Y4- (RT)



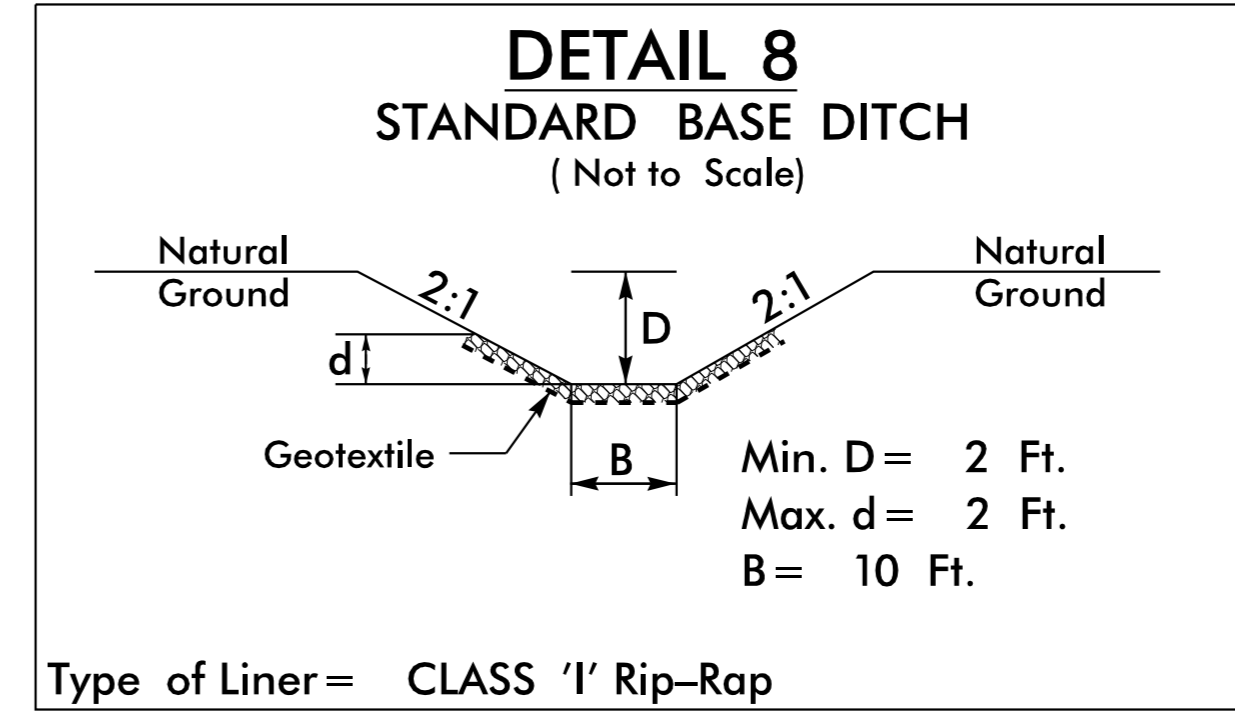
FROM STA. 40+30 TO 46+30 -Y4- (RT)



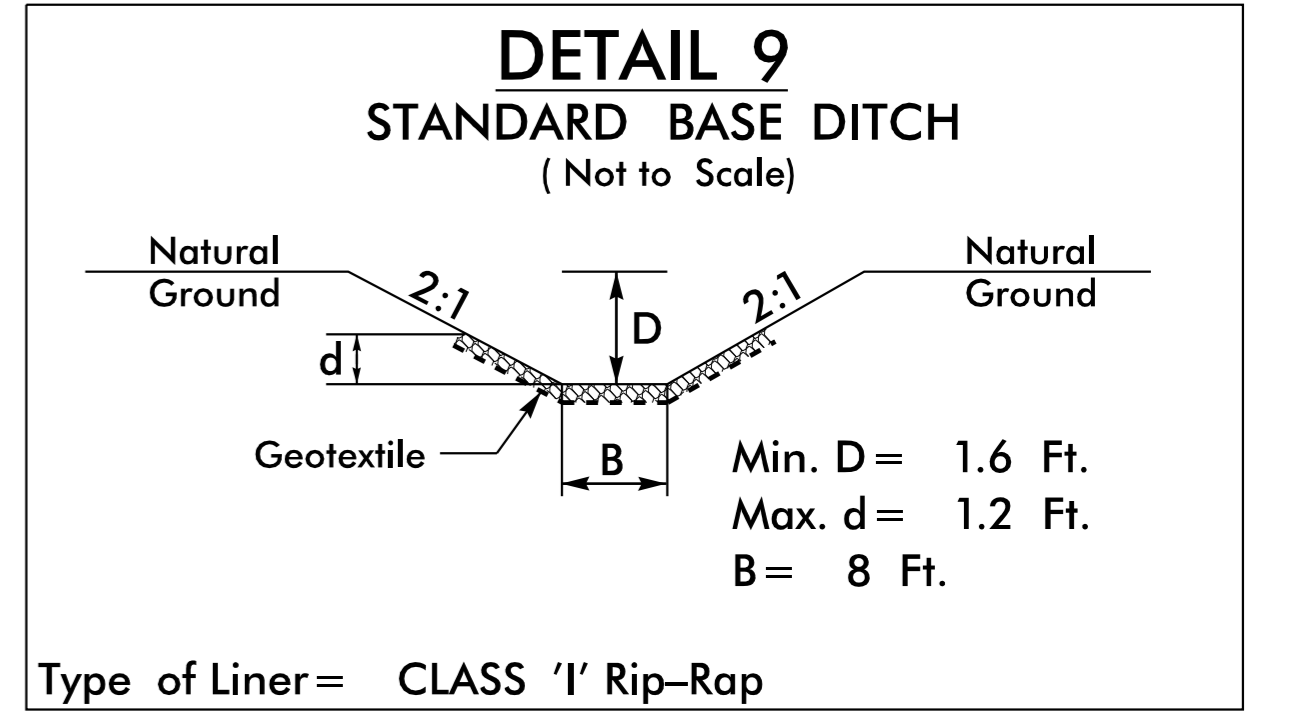
**STA. 57+27 -Y4- (RT)
STA. 64+65 -Y4- (RT)**



FROM STA 57+60 TO 64+00 -Y4- (RT)



FROM STA. 64+00 TO STA. 64+65 -Y4- (RT)



FROM STA. 56+06 TO STA. 57+27 -Y4- (RT)

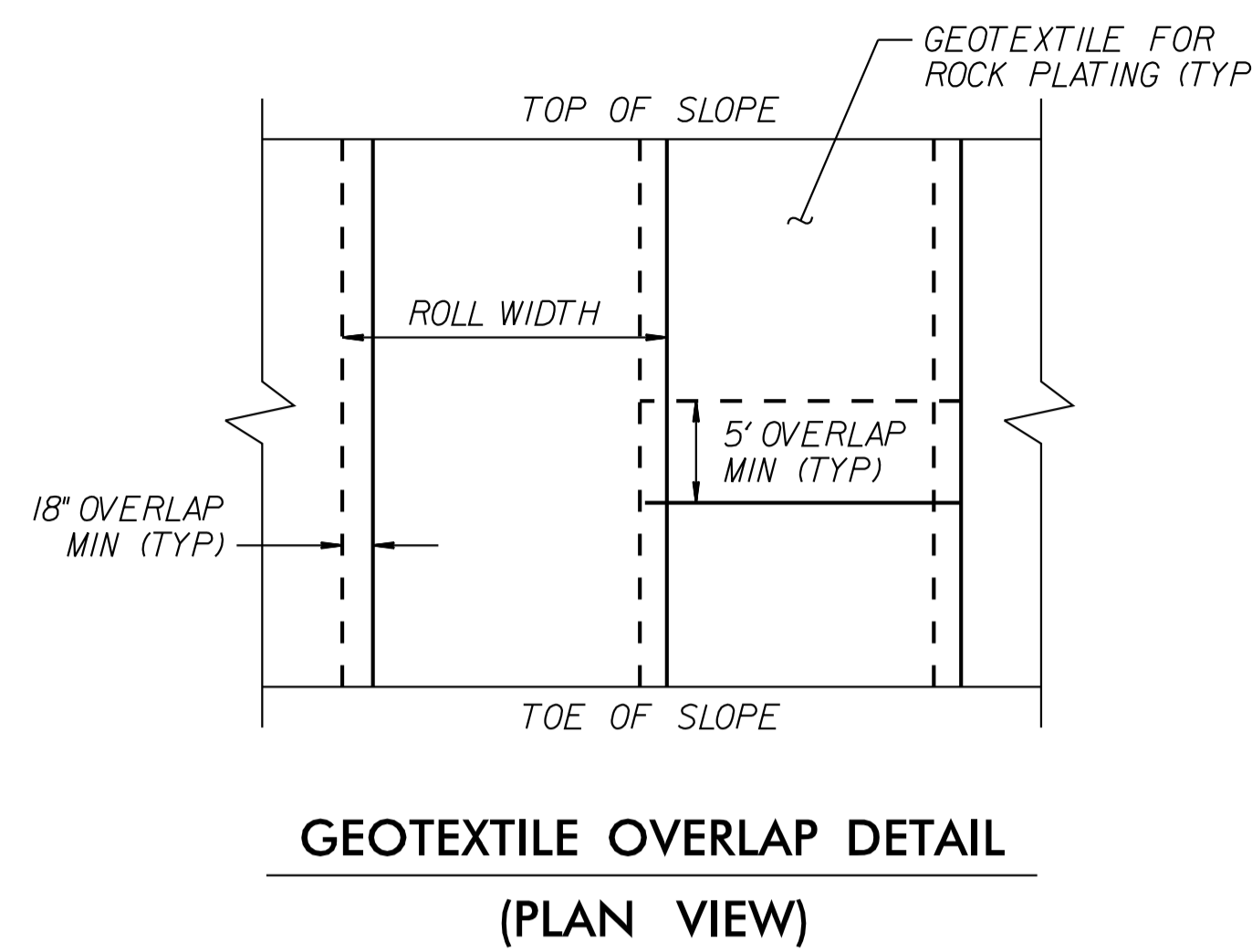
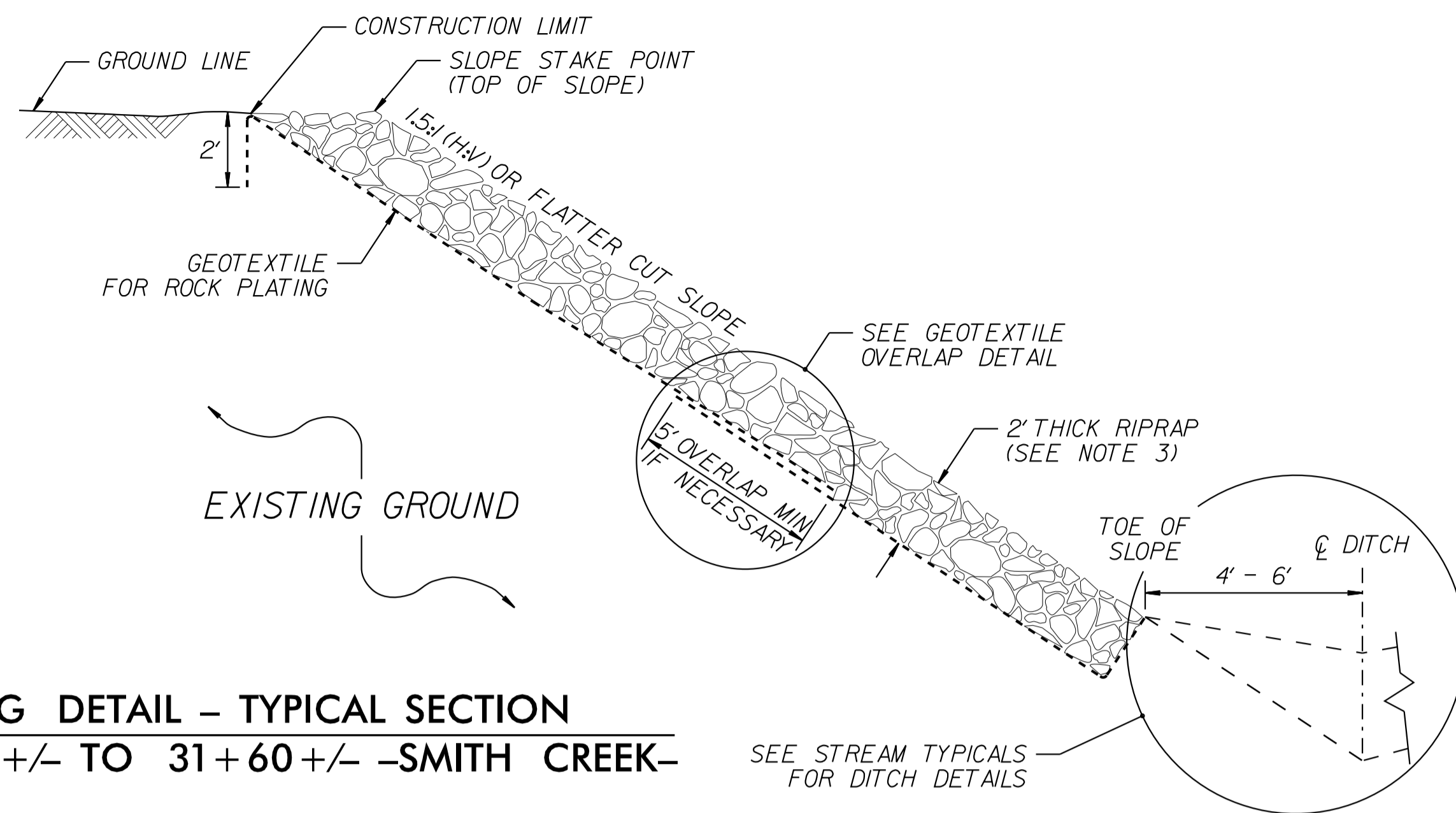
REVISIONS

GEOTECHNICAL ENGINEER

DocuSigned by:
Michael Stephens 2/27/2020

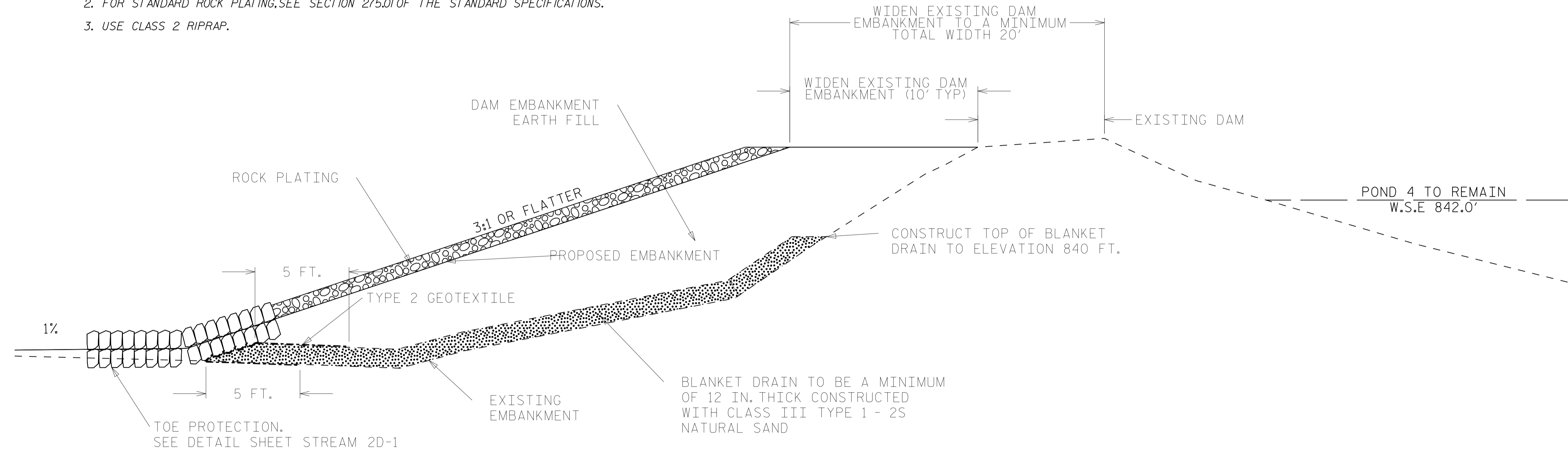
SIGNATURE DATE SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



ROCK PLATING DETAIL - TYPICAL SECTION
FROM STA. 23+50+/- TO 31+60+/- -SMITH CREEK-

- NOTES:**
1. SEE STREAM PLANS FOR ROCK PLATING LOCATIONS.
 2. FOR STANDARD ROCK PLATING, SEE SECTION 275.01 OF THE STANDARD SPECIFICATIONS.
 3. USE CLASS 2 RIPRAP.



ESTIMATED QUANTITIES	
PAY ITEM	PAY UNIT
BLANKET DRAIN	1,350 CY
DAM EMBANKMENT EARTH FILL	4,850 CY
TYPE 2 GEOTEXTILE	1,050 SY
ROCK PLATING	3,750 SY

DAM EMBANKMENT WIDENING DETAIL
FROM STA. 23+50+/- TO 31+60+/- -SMITH CREEK-

- NOTES:**
- 1) FOR DAM EMBANKMENT WIDENING, SEE DAM EMBANKMENT WIDENING PROVISION.

PREPARED BY: MHS	DATE: 10/17/19
REVIEWED BY: ENW	DATE: 10/17/19

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

DAM EMBANKMENT WIDENING DETAIL

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1	-	-	3	-	-
2	-	-	4	-	-

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

REVISIONS

LOCATION	UNCLASSIFIED EXCAVATION	EMBANKMENT + %	BORROW	TOTAL WASTE
PHASE I				
-Y4WB- 23+50.00 TO 46+50.00 (RT)	12158	9042	0	3116
-Y4WB- 46+50.00 TO 69+50.00 (RT)	7779	24023	16244	0
SUBTOTAL (PHASE I)	19937	33065	16244	3116
PHASE II				
-Y4EB- 23+50.00 TO 46+50.00 (LT)	0	0	0	0
-Y4EB- 23+50.00 TO 46+50.00 (MED)	0	0	0	0
-Y4WB- 23+50.00 TO 46+50.00 (MED)	9	0	0	9
-Y4EB- 46+50.00 TO 75+00.00 (LT)	0	0	0	0
-Y4EB- 46+50.00 TO 75+00.00 (MED)	0	0	0	0
-Y4WB- 46+50.00 TO 75+00.00 (MED)	14	0	0	14
-Y4WB- 69+50.00 TO 75+00.00 (RT)	0	0	0	0
SUBTOTAL (PHASE II)	23	0	0	23
TOTAL	19960	33065	16244	3139
MATERIAL FOR SHOULDER CONSTRUCTION		2006	2006	
WASTE IN LIEU OF BORROW			-3139	-3139
PROJECT TOTAL	19960	35071	15111	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT			756	
GRAND TOTAL	19960	35071	15867	
SAY	20000		15900	
ESTIMATED PAVEMENT STRUCTURE VOLUME	1910 CY			
ESTIMATED DDE	1000 CY			

NOTE: SEE SHEET STREAM - 2D-4 FOR STREAM RELOCATION EARTHWORK SUMMARY

NOTE: NO ROADWAY GEOTECHNICAL INFORMATION HAS BEEN PROVIDED FOR THIS PROJECT.

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

GUARDRAIL SUMMARY

"N" = DISTANCE (LF) FROM EDGE OF LANE TO FACE OF GUARDRAIL.
 TOTAL SHOULDER WIDTH = DISTANCE (LF) FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE (LF) FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
 W = TOTAL WIDTH OF FLARE (LF) FROM BEGINNING OF TAPER TO END OF GUARDRAIL.

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH (LF)			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH (LF)		W		ANCHORS				REMOVE EXISTING GUARDRAIL (LF)	REMOVE AND RESET EXISTING GUARDRAIL (LF)	REMARKS			
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL-3	CAT-1	B-77	TEMP B-77						
-Y4EB-	23+50.00	26+65.00	LT	22.875			26+65.00		12'	15'								1		23	292	CONNECT TO EXIST BARRIER AT -Y4EB- STA 26+65 (LT)		
-Y4EB-	23+50.00	43+06.25	MED				43+06.25		5'	6'											1956	CONNECT TO EXIST GUARDRAIL AT -Y4EB- STA 23+50 (MED)		
-Y4WB-	23+50.00	75+00.00	MED				23+50.00		5'	6'											5150	CONNECT TO EXIST GUARDRAIL AT -Y4WB- STA 23+50 (MED)		
-Y4WB-	38+75.00	68+93.75	RT	3018.75			40+25.00		24'	27'	50		1		1	1					2847	REMOVE 2847 LF EXIST GUARDRAIL ALONG -Y4WB- (RT)		
-Y4EB-	43+26.25	75+00.00	MED				75+00.00		14'	16'												3174	CONNECT TO EXIST GUARDRAIL AT -Y4EB- STA 75+00 (MED)	
			SUBTOTAL	3041.625											1	1					2870	10572		
LESS ANCHOR DEDUCTIONS																								
	GREU TL-3	1 @ 50'	=	50.00																				
	CAT-1	1 @ 6.25'	=	6.25																				
	B-77	1 @ 22.875'	=	22.875																				
			TOTAL	2962.50																				
			SAY	2975'											1	1	1				2900	10600		
TEMPORARY GUARDRAIL																								
-Y4EB-	23+27.12	23+50.00	MED	22.875			23+50.00															1		
-Y4WB-	23+27.12	23+50.00	MED	22.875			23+50.00															1		
-Y4EB-	74+00.00	74+22.88	MED	22.875				74+00.00														1		
			SUBTOTAL	68.625																				
LESS ANCHOR DEDUCTIONS																								
	TEMP B-77	3 @ 22.875'	=	22.875																				
			TOTAL	0.00																				
			SAY	0																			3	

ADDITIONAL GUARDRAIL POSTS = 5 EA

REMOVAL OF EXISTING ASPHALT PAVEMENT			
LINE	STATION TO STATION	LOCATION	SQ. YDS.
-Y4WB-	26+65.00 TO 67+53.00	RT	4148
-Y4WB-	67+53.00 TO 69+50.00	RT	219
TOTAL			4367
SAY			4400

SUMMARY OF SHOULDER BERM GUTTER			
LINE	STATION TO STATION	LOCATION	LENGTH (LF)
-Y4WB-	39+50.00 TO 68+75.00	RT	2925
TOTAL			2925
SAY			2930

SUMMARY OF WOVEN WIRE FENCE									
LINE	STATION TO STATION	LOCATION	FABRIC (LF)	END BRACE (EA)	CORNER BRACE (EA)	LINE BRACE (EA)	4" POSTS (EA)	5" POSTS (EA)	
-Y4WB-	40+10 TO 59+65	RT	2123	2	8	7	125	49	
TOTAL			2123	2	8	7	125	49	
SAY			2130	5	10	10	130	50	

REVISIONS

DATE

COMPUTED BY: JCB DATE: 2/05/2020

CHECKED BY: LDR DATE: 2/05/2020

PROJECT NO. U-2579BA SHEET NO. 3D-2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Main data table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, C.S. PIPE, R.C. PIPE CLASS IV, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, GRATE TYPE, and various material specifications.

ABBREVIATIONS table listing codes like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., W.S. and their corresponding material descriptions.

SHEET TOTALS and PROJECT TOTALS summary rows at the bottom of the table.

PROJECT REFERENCE NO. U-2579BA	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD
83.95

ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829

ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829

BEGIN TIP PROJECT U-2579BA
BEGIN MILLING AND RESURFACING
 TIE TO TIP PROJECT U-5760 (BY OTHERS)
 -Y4EB- POT Sta.23+50.00 (U-2579BA) =
 -Y1- POT Sta.56+50.00 (27' RT) (U-5760)
 TIE TO EXIST PAVEMENT
 NOTE: U-5760 PROJECT (BY OTHERS) USES DIFFERENT COORDINATE SYSTEM
 ROSS D. WALL
 PATRICIA O. WALL
 DB 2188 PG 355

END MILLING AND RESURFACING
BEGIN OVERLAY (1.5")
 -Y4EB- POT Sta.26+65.00

BEGIN OVERLAY (3")
 -Y4WB- POT Sta.23+50.00 (U-2579BA) =
 -Y1- POT Sta.56+50.00 (27' LT) (U-5760)
 TIE TO EXIST PAVEMENT

END OVERLAY (3")
BEGIN GRADE
 -Y4WB- POT Sta.26+65.00

ROSS D. WALL
 PATRICIA O. WALL
 DB 2188 PG 355

TOWN OF KERNERSVILLE
 DB 2065 PG 1771

THOMAS W. PRINCE
 ARNOLD G. KING
 DB 2056 PG 1319

PAGE AND ASSOCIATES, INC.
 DB 2704 PG 784

DENNIS H. PAYNE, JR.
 DAWN A. PAYNE
 DB 2797 PG 2978

DENNIS H. PAYNE, JR.
 DAWN A. PAYNE
 DB 2797 PG 2978

THOMAS W. PRINCE
 ARNOLD G. KING
 DB 2056 PG 1319

- PORTABLE CONC BARRIER
- PAVED SHOULDER

NOTE :
 1. FOR - Y4EB - PROFILE SEE SHEET 8
 2. FOR - Y4WB - PROFILE SEE SHEET 10

REVISIONS

MATCHLINE -Y4- STA. 34+50 SHEET 5

5/14/99

2/24/2020

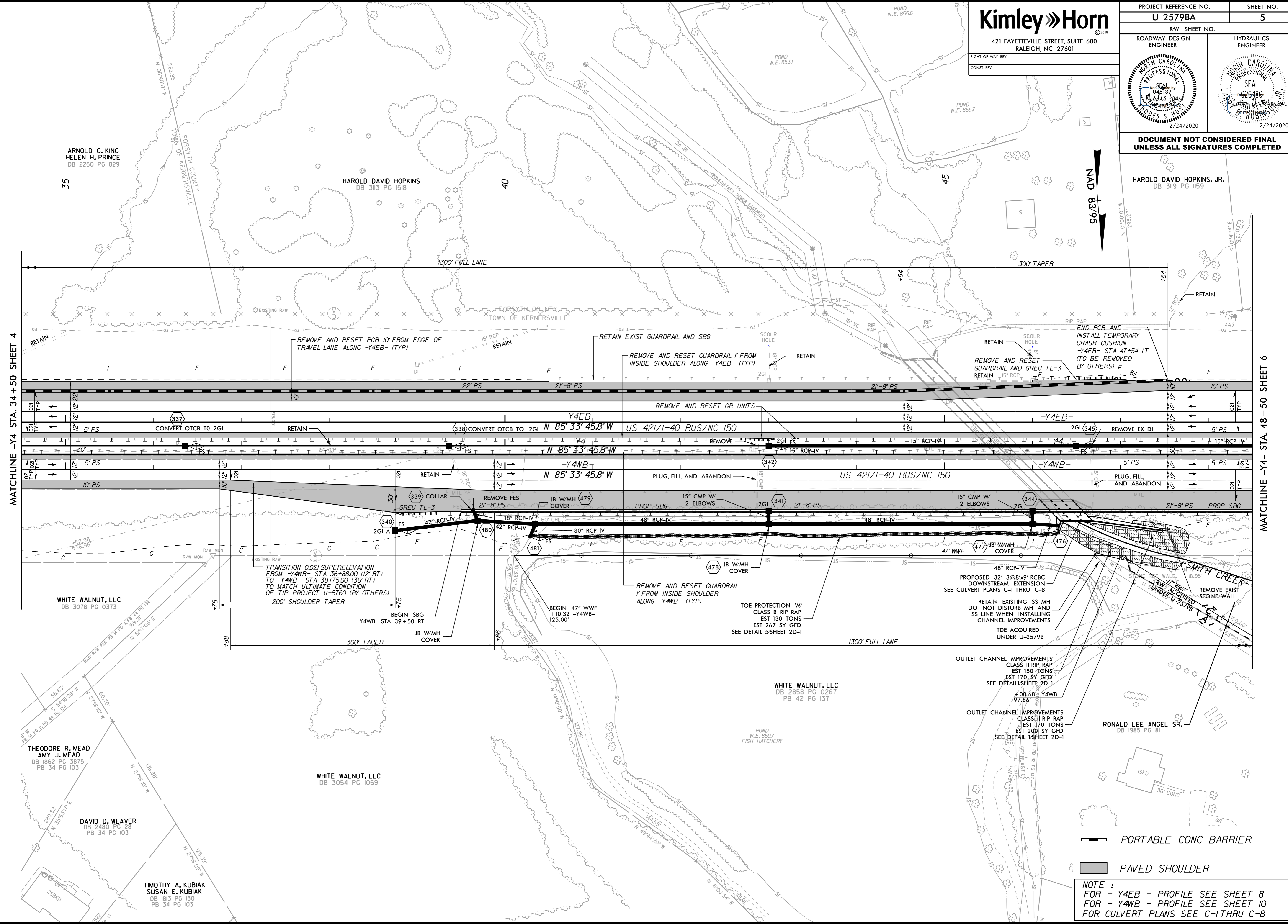
PROJECT REFERENCE NO. U-2579BA	SHEET NO. 5
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
2/24/2020	2/24/2020

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

HAROLD DAVID HOPKINS, JR.
DB 319 PG 1159

ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829

HAROLD DAVID HOPKINS
DB 3113 PG 1518



MATCHLINE -Y4 STA. 34+50 SHEET 4

MATCHLINE -Y4 STA. 48+50 SHEET 6

REVISIONS

WHITE WALNUT, LLC
DB 3078 PG 0373

THEODORE R. MEAD
AMY J. MEAD
DB 1862 PG 3875
PB 34 PG 103

DAVID D. WEAVER
DB 2480 PG 28
PB 34 PG 103

TIMOTHY A. KUBIAK
SUSAN E. KUBIAK
DB 1813 PG 150
PB 34 PG 103

WHITE WALNUT, LLC
DB 3054 PG 1059

WHITE WALNUT, LLC
DB 2858 PG 0267
PB 42 PG 137

PORTABLE CONC BARRIER

PAVED SHOULDER

NOTE :
FOR -Y4EB - PROFILE SEE SHEET 8
FOR -Y4WB - PROFILE SEE SHEET 10
FOR CULVERT PLANS SEE C-1 THRU C-8

8/17/99

Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

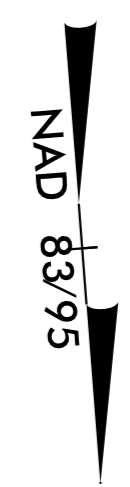
PROJECT REFERENCE NO. U-2579BA	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

-Y4RPBD-
 PIs Sta 84+71.9
 Os = 2' 27" 32.6"
 Ls = 2000'
 LT = 133.35'
 ST = 66.68'

JERRY M. PEGRAM
 NANCY B. PEGRAM
 DB 1864 PG 2389
 DB 1950 PG 3271

NFPS INC.
 DB 2973 PG 0542

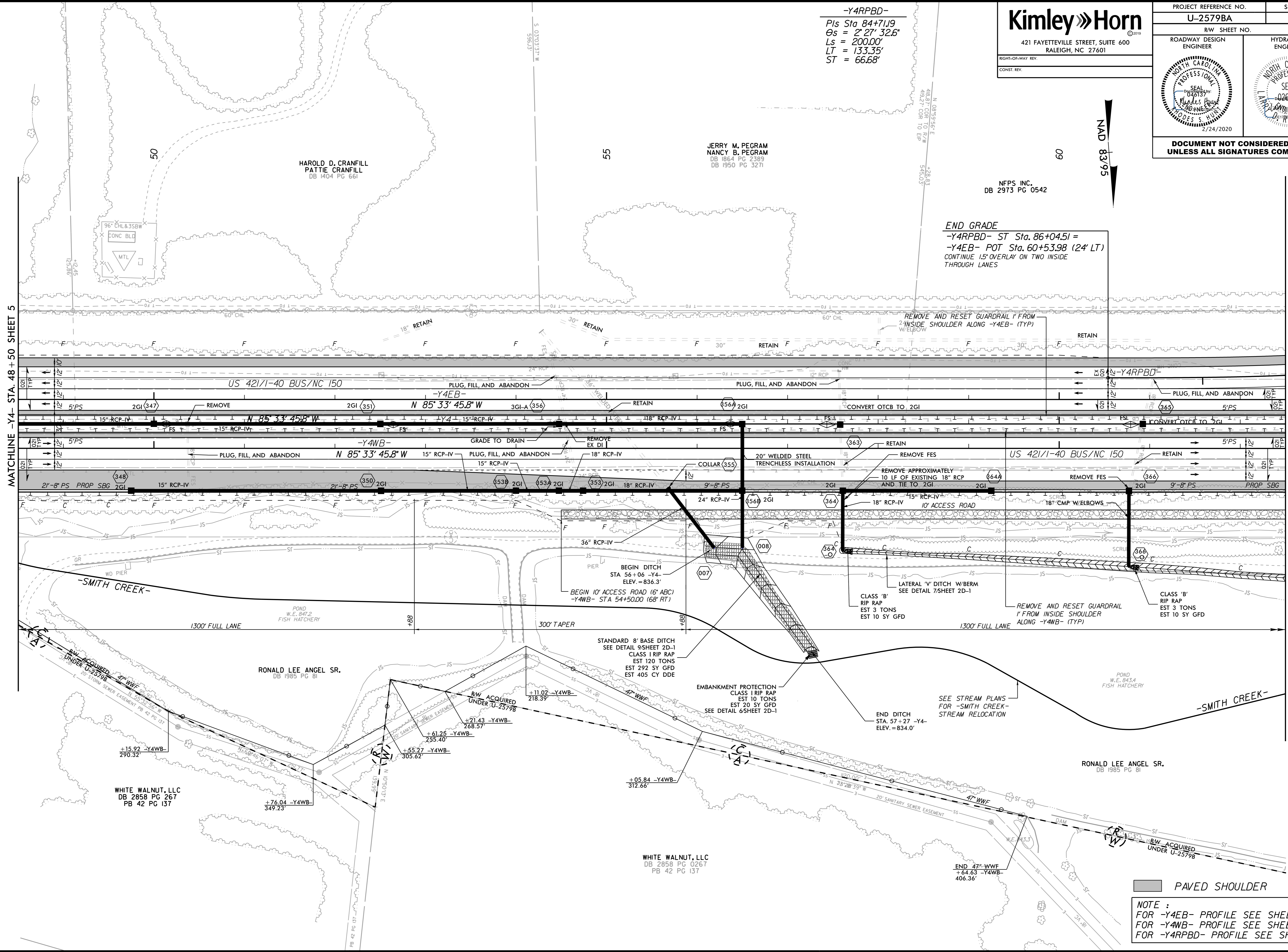


END GRADE
 -Y4RPBD- ST Sta. 86+04.51 =
 -Y4EB- POT Sta. 60+53.98 (24' LT)
 CONTINUE 15' OVERLAY ON TWO INSIDE
 THROUGH LANES

MATCHLINE -Y4- STA. 48+50 SHEET 5

MATCHLINE -Y4- STA. 62+50 SHEET 7

REVISIONS

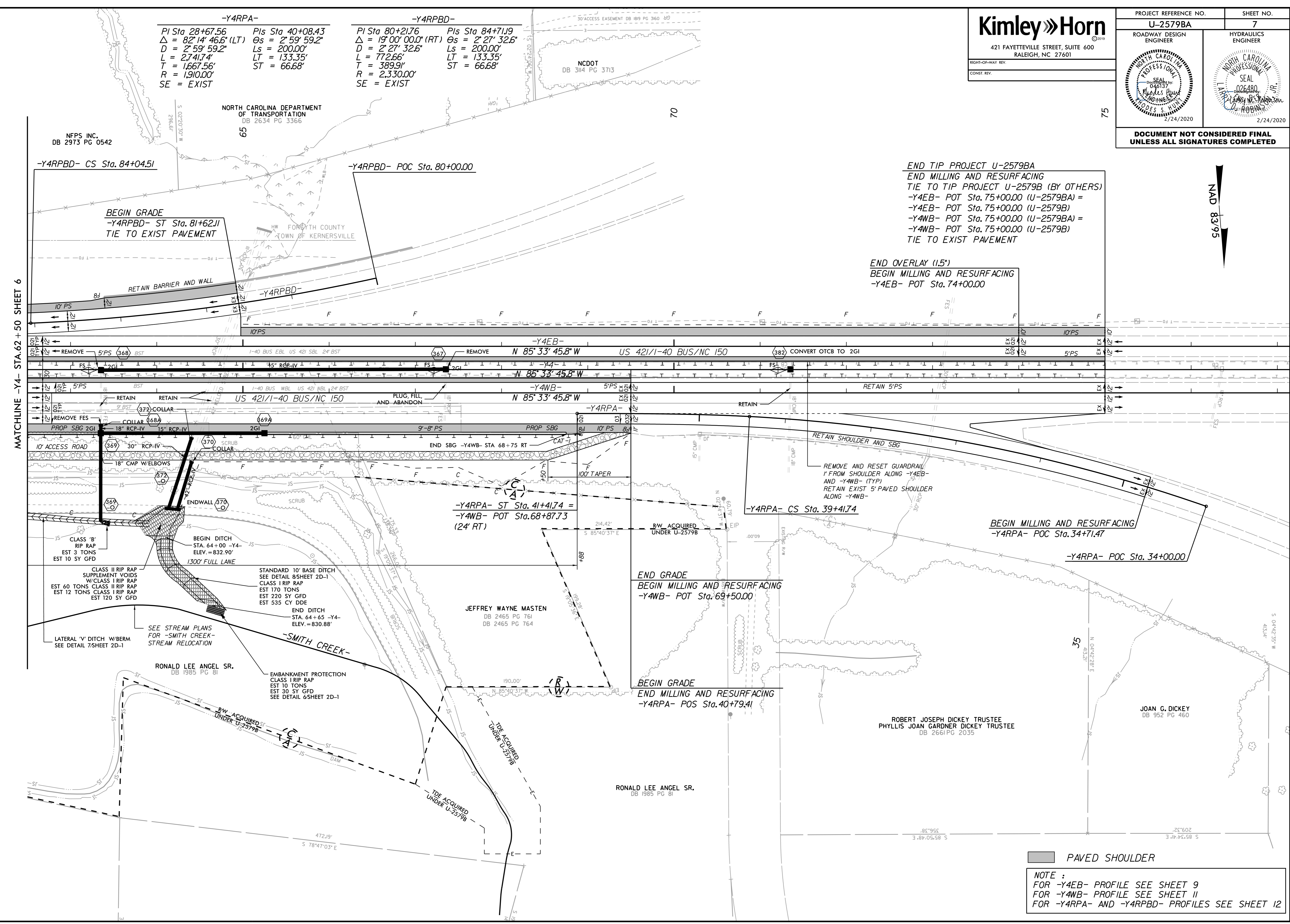


PAVED SHOULDER

NOTE :
 FOR -Y4EB- PROFILE SEE SHEET 9
 FOR -Y4WB- PROFILE SEE SHEET 11
 FOR -Y4RPBD- PROFILE SEE SHEET 12

-Y4RPA-
 PI Sta 28+67.56 Δ = 82°14'46.6" (LT) Os = 2°59'59.2"
 D = 2°59'59.2" Ls = 200.00'
 L = 2741.74' T = 1667.56'
 R = 1,910.00' SE = EXIST

-Y4RPBD-
 PI Sta 80+21.76 Δ = 19°00'00.0" (RT) Os = 2°27'32.6"
 D = 2°27'32.6" Ls = 200.00'
 L = 772.66' T = 389.91'
 R = 2,330.00' SE = EXIST



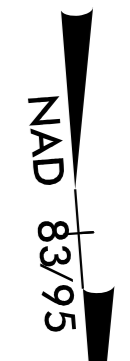
END TIP PROJECT U-2579BA
 END MILLING AND RESURFACING
 TIE TO TIP PROJECT U-2579B (BY OTHERS)
 -Y4EB- POT Sta. 75+00.00 (U-2579BA) =
 -Y4EB- POT Sta. 75+00.00 (U-2579B)
 -Y4WB- POT Sta. 75+00.00 (U-2579BA) =
 -Y4WB- POT Sta. 75+00.00 (U-2579B)
 TIE TO EXIST PAVEMENT

END OVERLAY (1.5')
 BEGIN MILLING AND RESURFACING
 -Y4EB- POT Sta. 74+00.00

BEGIN MILLING AND RESURFACING
 -Y4RPA- POC Sta. 34+71.47

END GRADE
 BEGIN MILLING AND RESURFACING
 -Y4WB- POT Sta. 69+50.00

BEGIN GRADE
 END MILLING AND RESURFACING
 -Y4RPA- POS Sta. 40+79.41



MATCHLINE -Y4- STA. 62+50 SHEET 6

REVISIONS

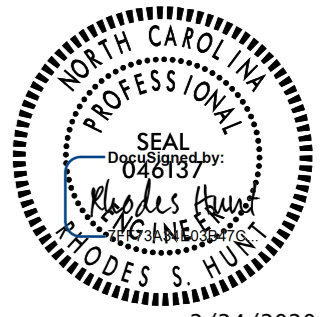
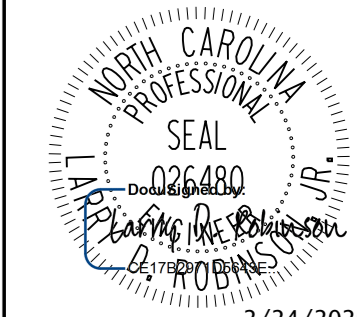
PAVED SHOULDER

NOTE :
 FOR -Y4EB- PROFILE SEE SHEET 9
 FOR -Y4WB- PROFILE SEE SHEET 11
 FOR -Y4RPA- AND -Y4RPBD- PROFILES SEE SHEET 12

2/24/2020

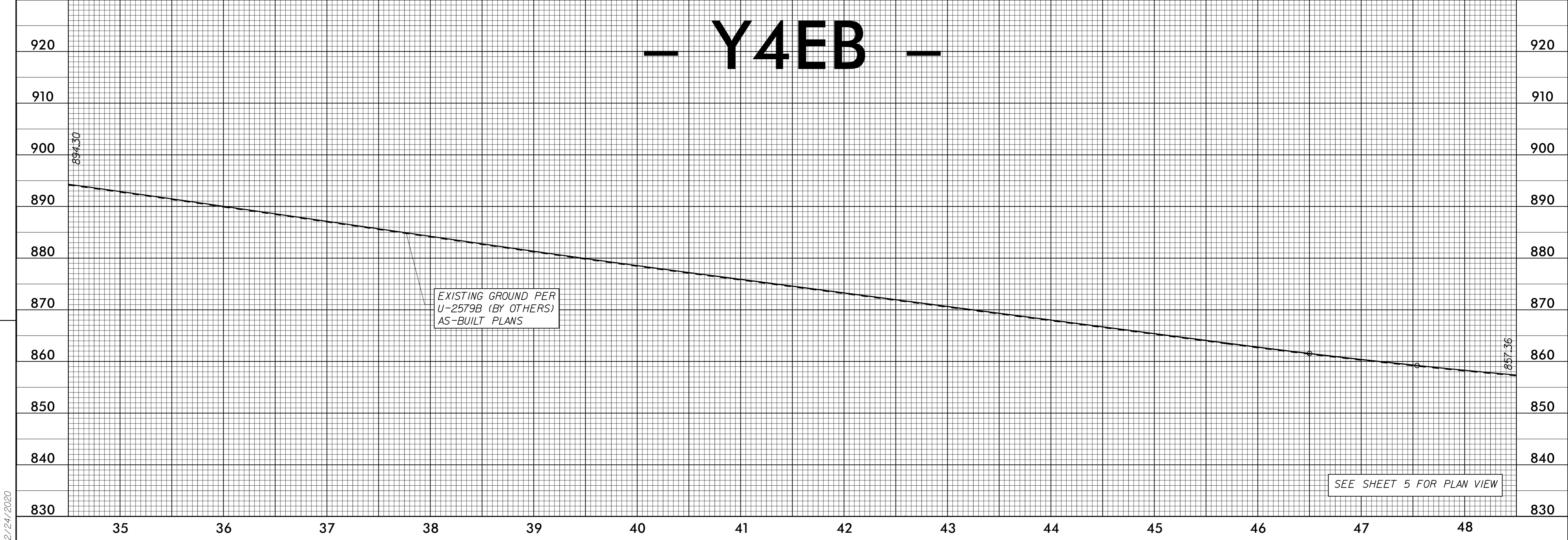
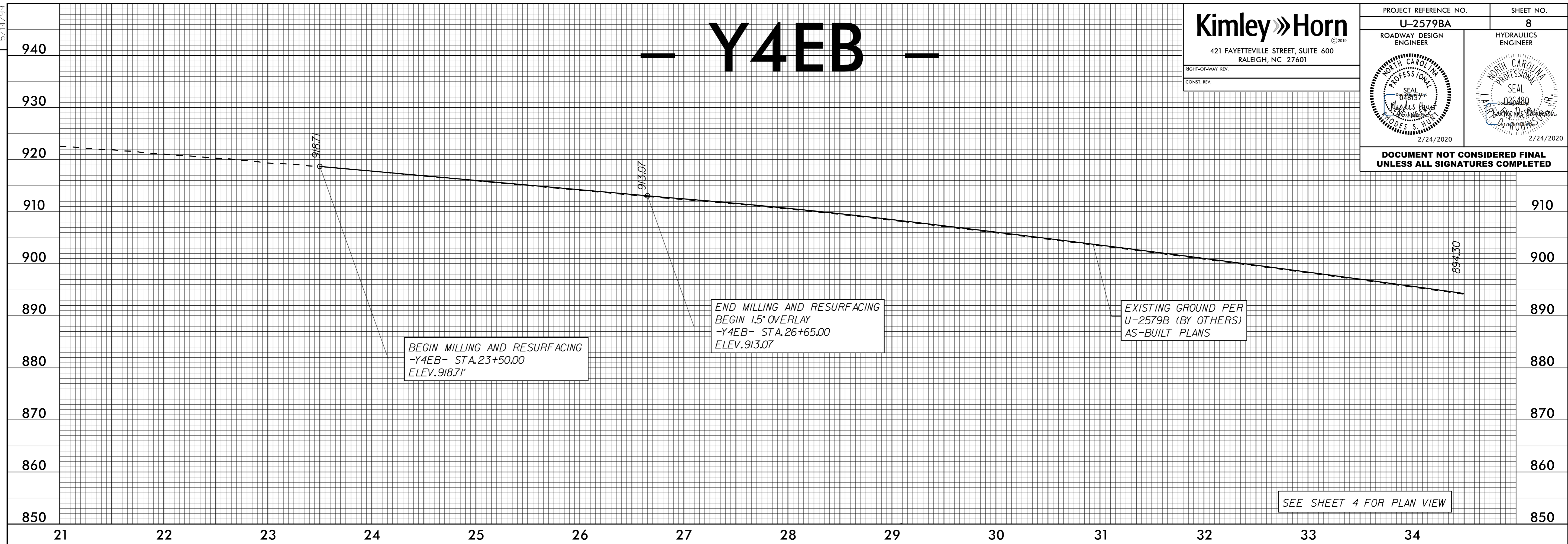
5/14/19

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 RALEIGH, NC 27601

PROJECT REFERENCE NO. U-2579BA	SHEET NO. 8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
2/24/2020	2/24/2020

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REVISIONS



2/24/2020

5/28/99

— Y4EB —

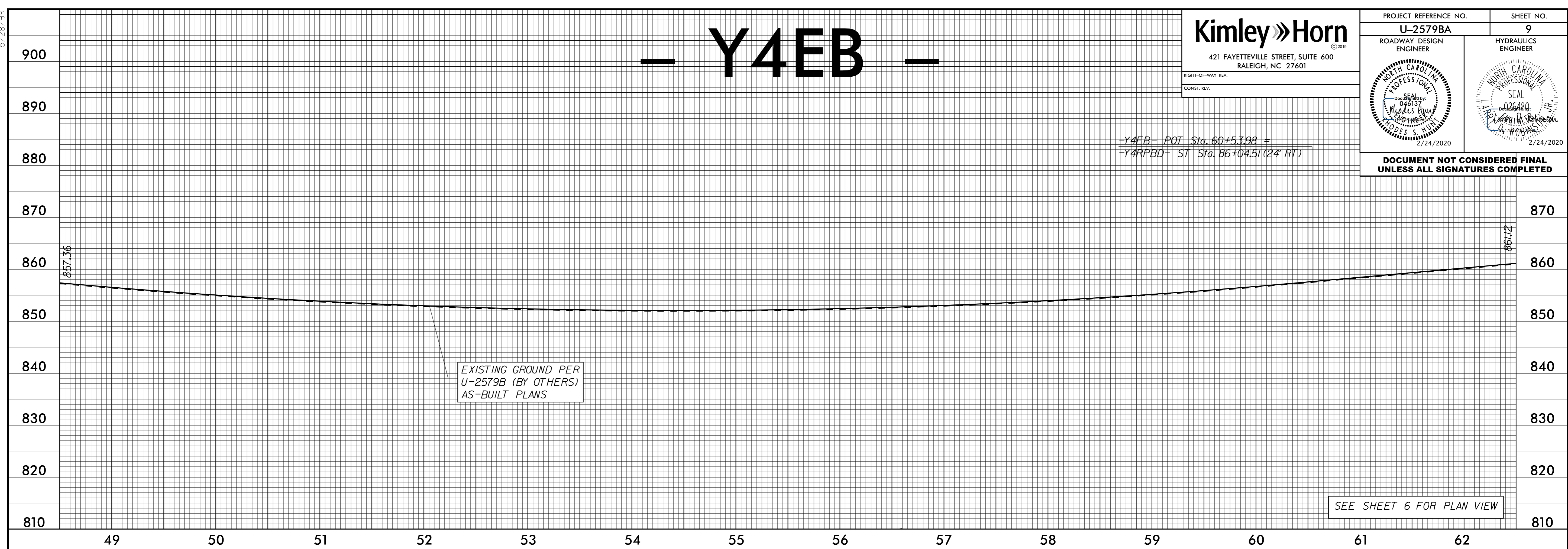
Kimley»Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

RIGHT-OF-WAY REV.
 CONST. REV.

PROJECT REFERENCE NO. U-2579BA	SHEET NO. 9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y4EB- POT Sta. 60+53.98 =
 -Y4RPBD- ST Sta. 86+04.31 (24' RT)

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— Y4EB —

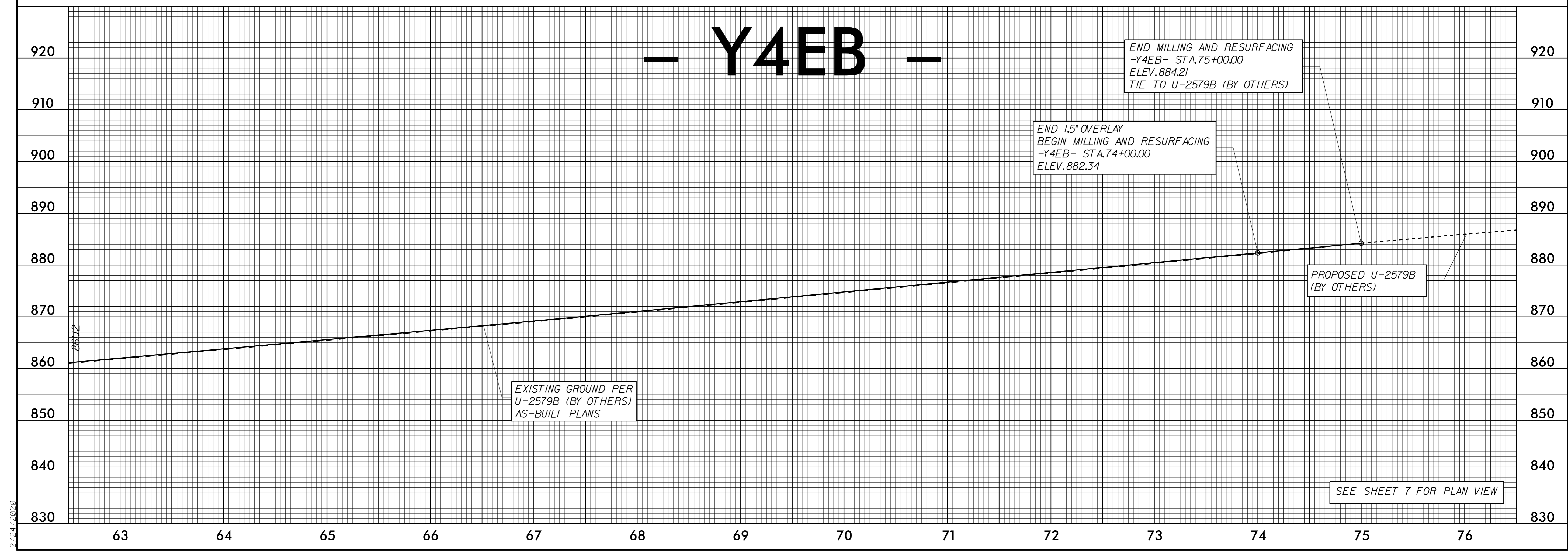
END MILLING AND RESURFACING
 -Y4EB- STA.75+00.00
 ELEV.884.21
 TIE TO U-2579B (BY OTHERS)

END 1.5" OVERLAY
 BEGIN MILLING AND RESURFACING
 -Y4EB- STA.74+00.00
 ELEV.882.34

PROPOSED U-2579B
 (BY OTHERS)

EXISTING GROUND PER
 U-2579B (BY OTHERS)
 AS-BUILT PLANS

SEE SHEET 7 FOR PLAN VIEW



2/24/2020


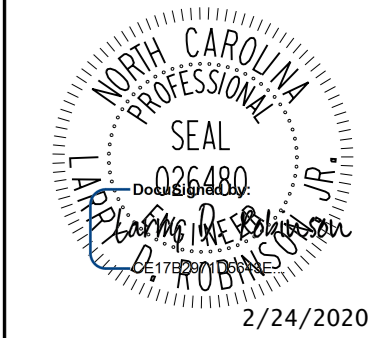
5/28/99

— Y4WB —

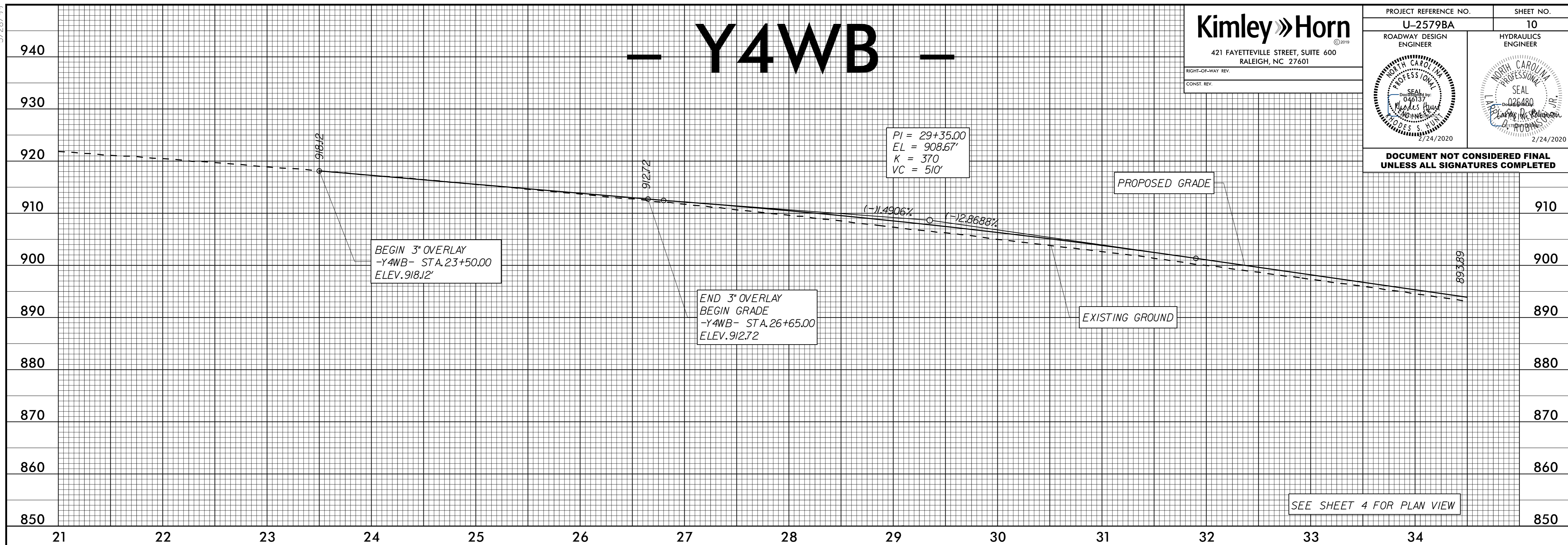
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CONST. REV.

PROJECT REFERENCE NO. U-2579BA	SHEET NO. 10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
DATE: 2/24/2020	

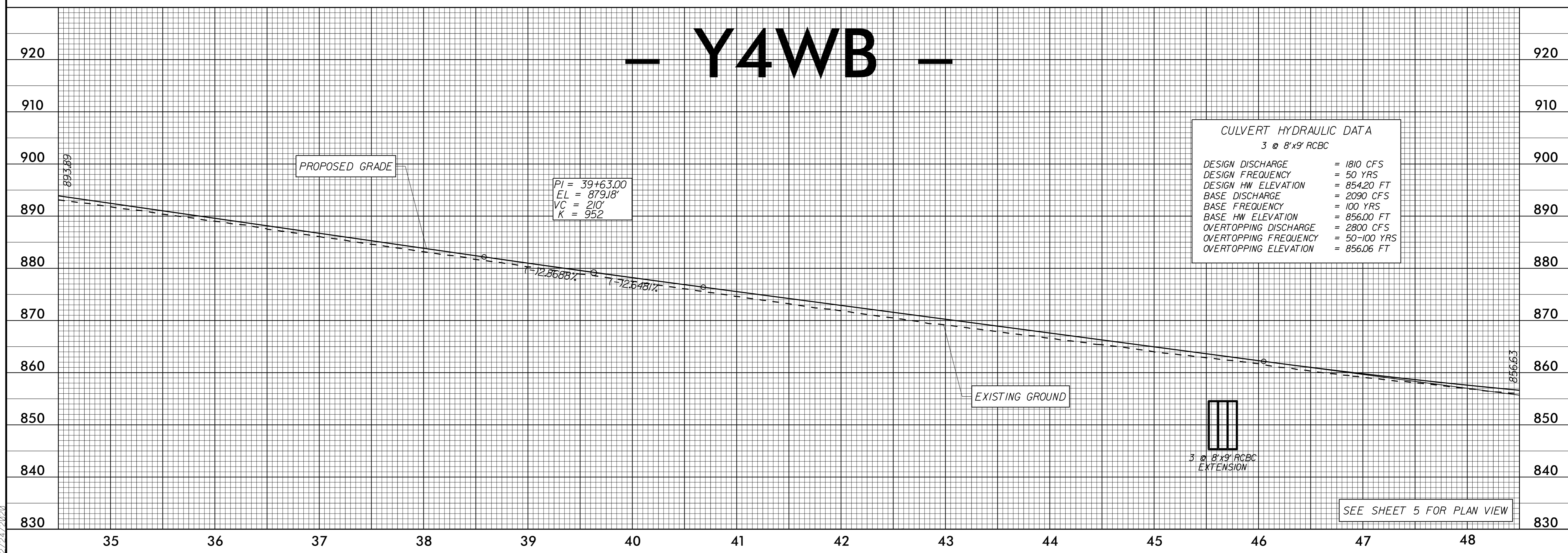
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— Y4WB —

CULVERT HYDRAULIC DATA
3 @ 8'x9' RCBC

DESIGN DISCHARGE	= 1810 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 854.20 FT
BASE DISCHARGE	= 2090 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 856.00 FT
OVERTOPPING DISCHARGE	= 2800 CFS
OVERTOPPING FREQUENCY	= 50-100 YRS
OVERTOPPING ELEVATION	= 856.06 FT



2/24/2020

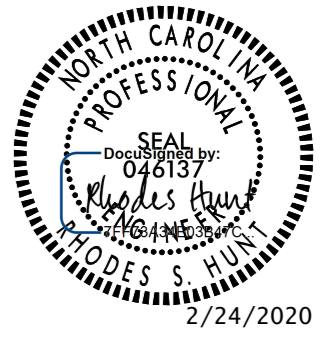
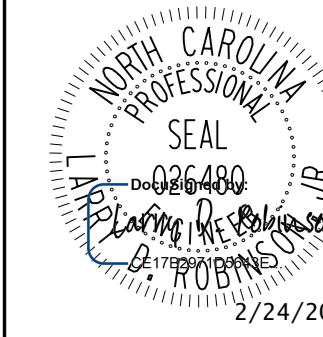
5/28/99

- Y4WB -

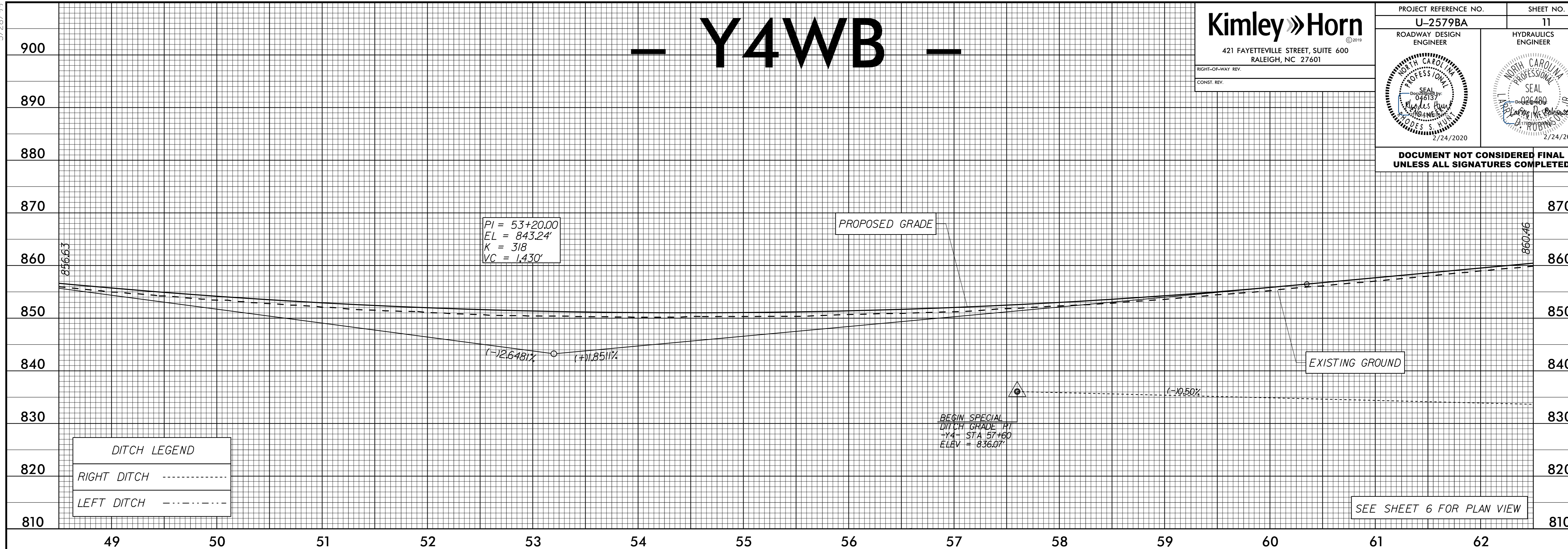
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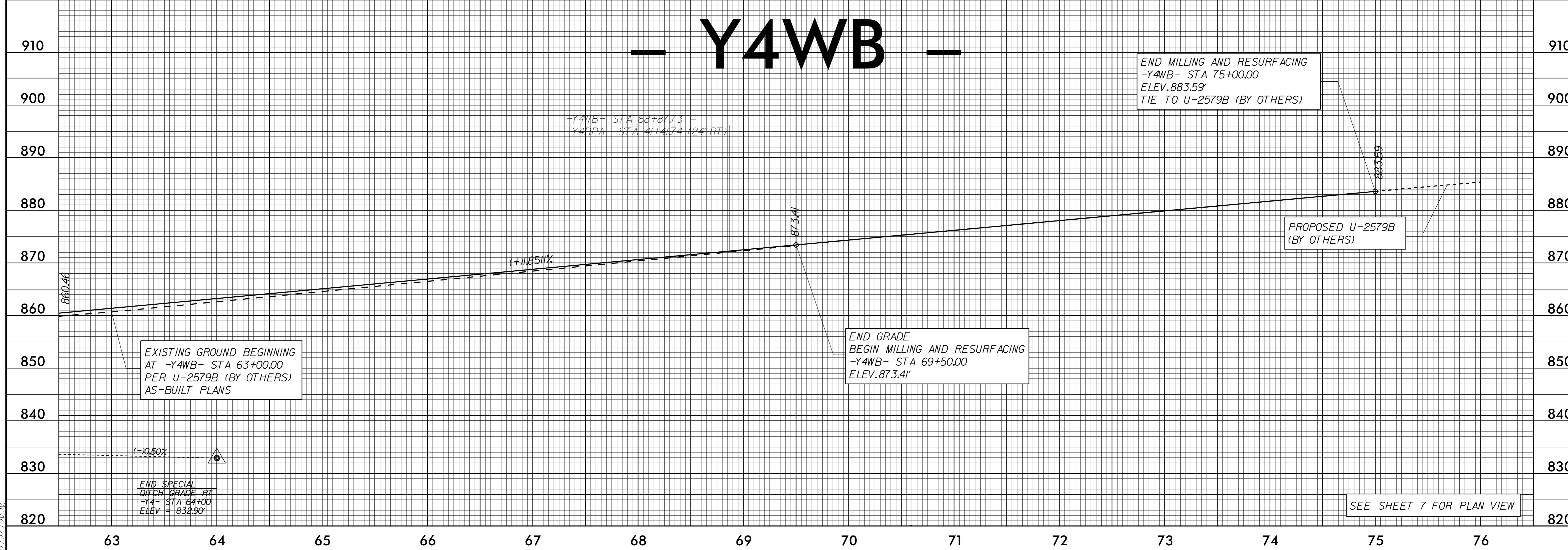
RIGHT-OF-WAY REV.
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PROJECT REFERENCE NO. U-2579BA	SHEET NO. 11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
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- Y4WB -



2/24/2020

5/28/99

- Y4RPA -

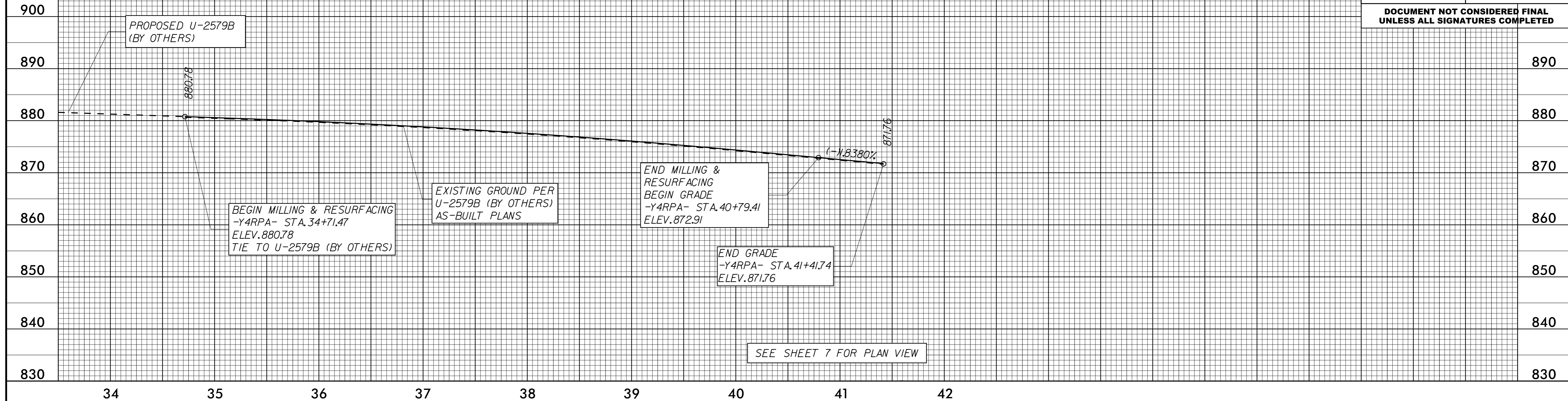
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RIGHT-OF-WAY REV.
CONST. REV.

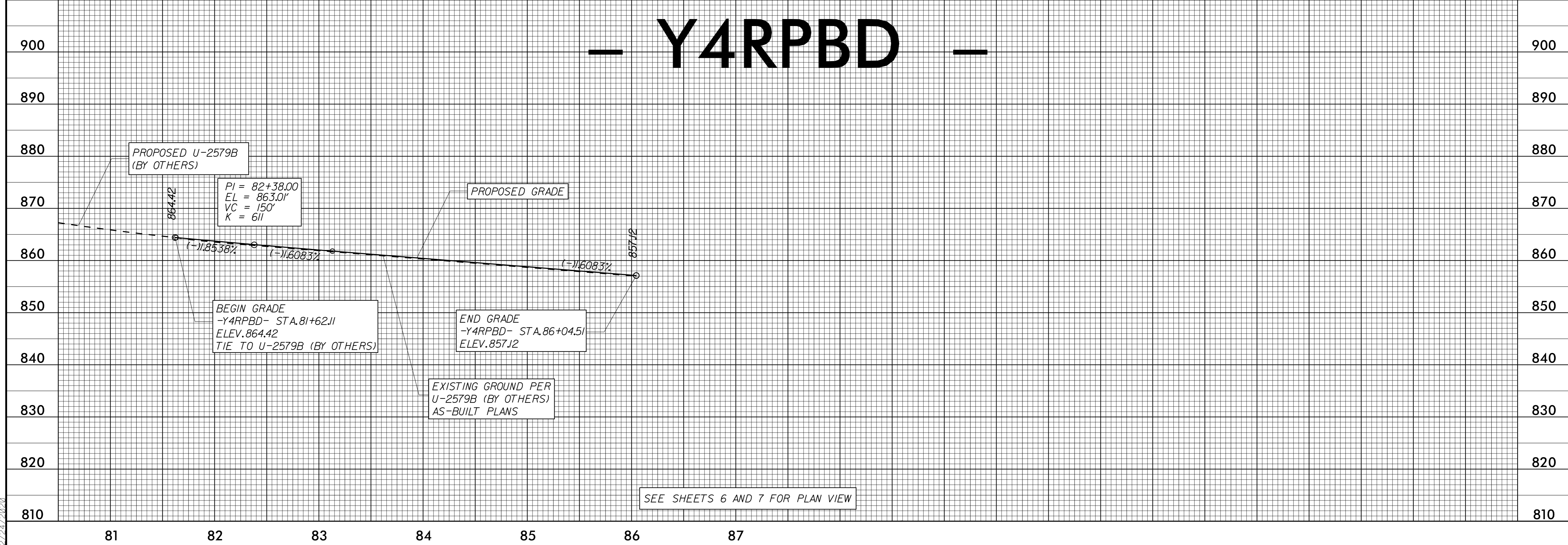
PROJECT REFERENCE NO. U-2579BA	SHEET NO. 12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
2/24/2020	

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SEE SHEET 7 FOR PLAN VIEW

- Y4RPBD -



SEE SHEETS 6 AND 7 FOR PLAN VIEW

2/24/2020