

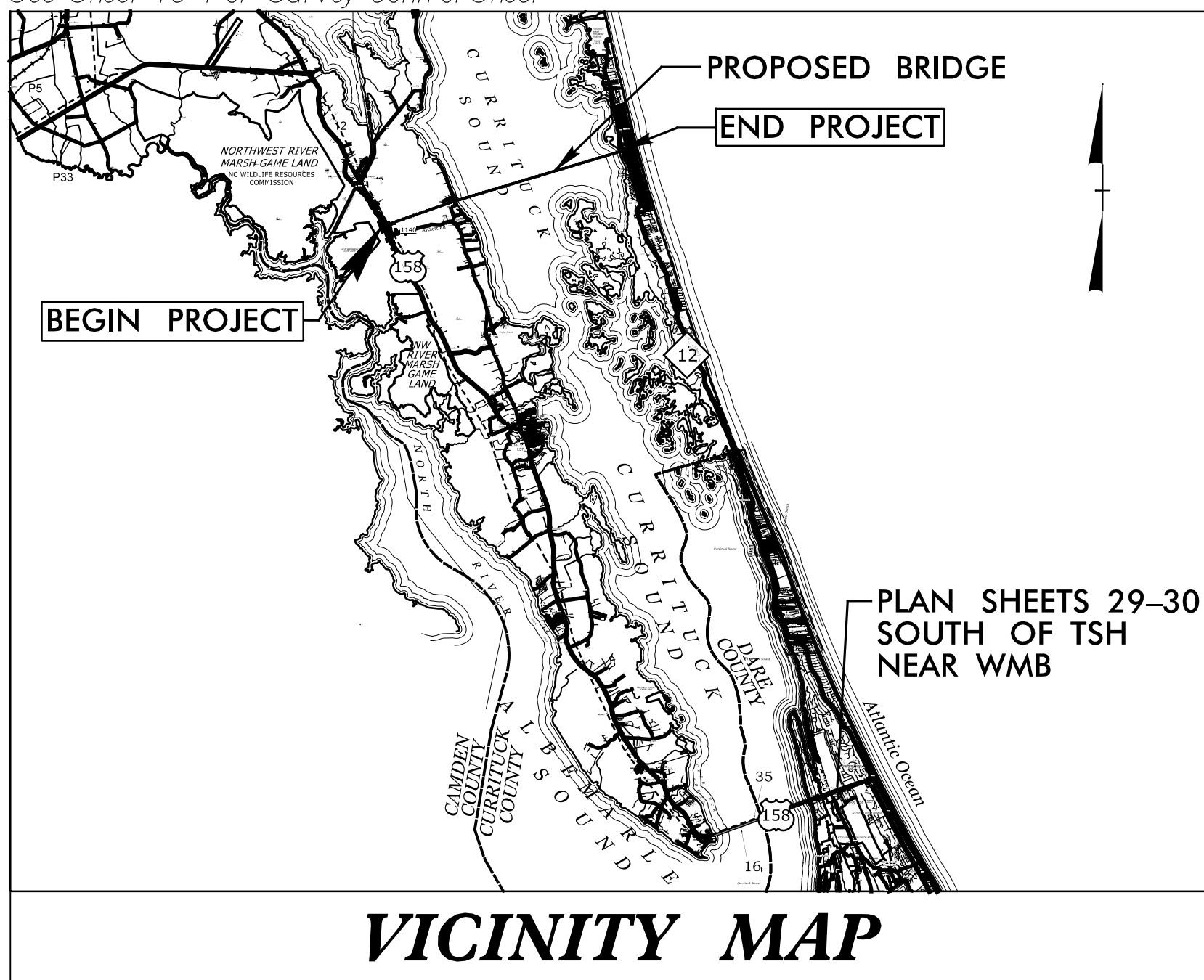
09/08/09

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C For Survey Control Sheet

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2576	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34470.1.TA1	BRSTP-000(494)	P.E.	

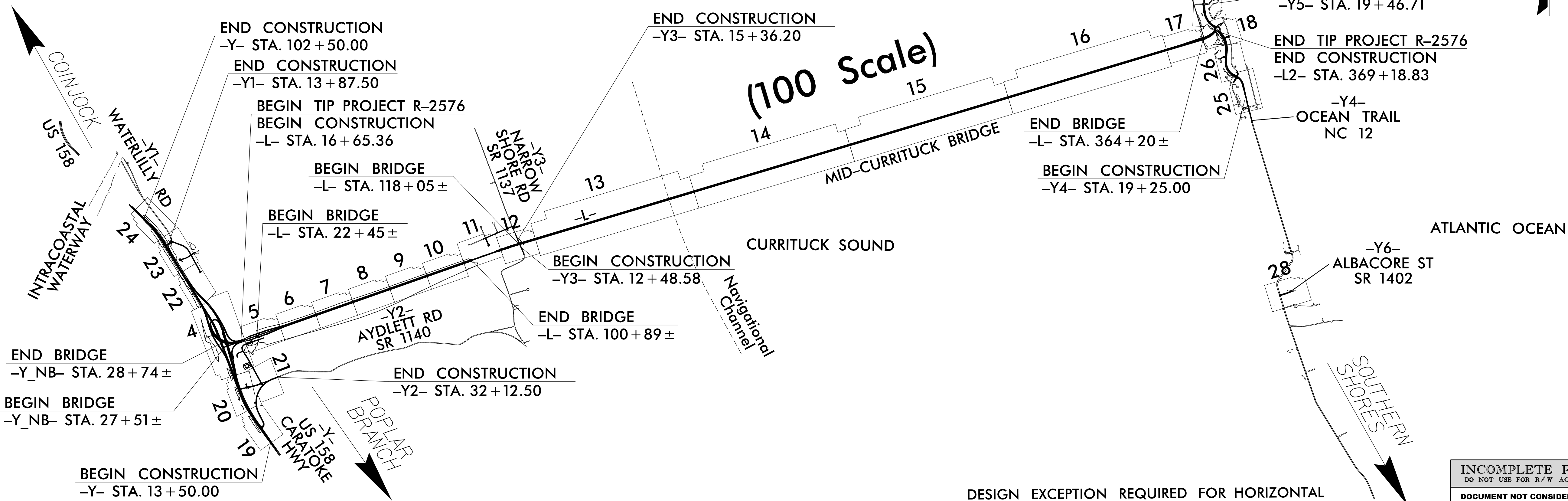
TIP PROJECT: R-2576



75% PLANS

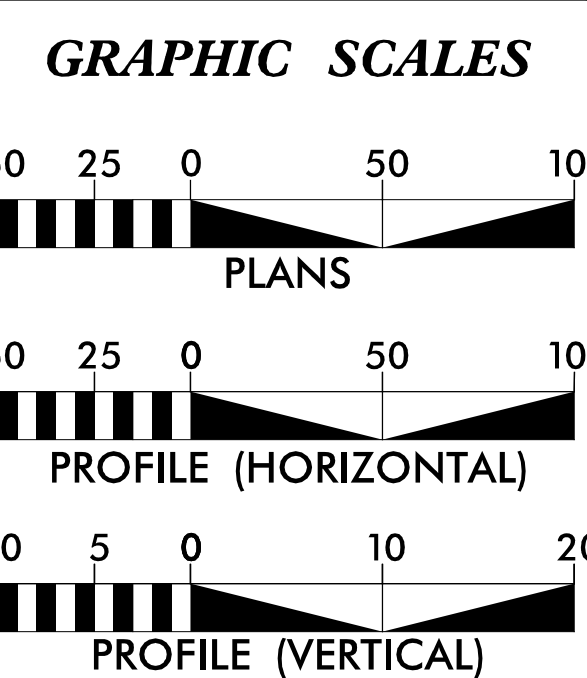
**LOCATION: MID-CURRITUCK BRIDGE FROM US 158 SOUTH OF COINJOCK
TO NC 12 SOUTH OF COROLLA**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND
STRUCTURES**



NAD 83 /2011

CONTRACT:



DESIGN DATA

# ADT 2020 =	11,800
ADT 2040 =	18,000
K =	9 %
D =	60 %
T =	5 % *
V =	60 MPH
* (TTST=1) + (DUAL=2) + (RV=2)	
FUNC CLASS =	ARTERIAL STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2576	= 0.524 Miles
LENGTH STRUCTURES	= 6.153 Miles
TOTAL LENGTH TIP PROJECT R-2576	= 6.677 Miles

PROJECT LEVEL TRAFFIC FORECAST (JUNE 2016) (SUMMER WEEKEND)

Prepared in the Office of:

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License Number F-0159

1223 Jones Franklin Rd.
Raleigh, NC 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - INFRASTRUCTURE DESIGN
EVALUATE DESIGN - DESIGN - CONSTRUCTION OBSERVATION

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: FY 2020

LETTING DATE: FY 2020

BRIAN K. EASON, PE
PROJECT ENGINEER

CHRISTINA L. YOKELEY, PE
PROJECT DESIGN ENGINEER

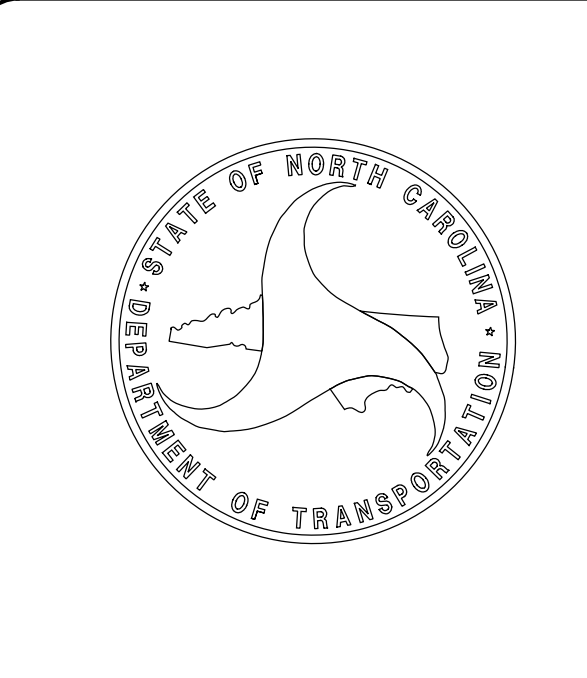
DENNIS JERNIGAN, PE
NCDOT /NCTA

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DESIGN EXCEPTION REQUIRED FOR HORIZONTAL
CURVE ON Y2 (AYDLETT RD)

03-AUG-2020 09:22
R:\Roadway\Proj\R2576_rdy_TSH.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

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

BOUNDARIES AND PROPERTY:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for 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:

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Table listing symbols for railroads: Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY & PROJECT CONTROL:

Table listing symbols for right of way and 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:

Table listing symbols for 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:

Table listing symbols for vegetation: Single Tree, Single Shrub.

Table listing symbols for hedges and vineyards: Hedge, Woods Line, Orchard, Vineyard.

EXISTING STRUCTURES:

Table listing symbols for 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:

Table listing symbols for 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, C, D; 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, C, D, U/G Telephone Conduit LOS B, C, D, U/G Fiber Optics Cable LOS B, C, D.

WATER:

Table listing symbols for water: Water Manhole, Water Meter, Water Valve, Water Hydrant, U/G Water Line LOS B, C, D, Above Ground Water Line.

TV:

Table listing symbols for TV: TV Pedestal, TV Tower, U/G TV Cable Hand Hole, U/G TV Cable LOS B, C, D, U/G Fiber Optic Cable LOS B, C, D.

GAS:

Table listing symbols for gas: Gas Valve, Gas Meter, U/G Gas Line LOS B, C, D, Above Ground Gas Line.

SANITARY SEWER:

Table listing symbols for sanitary sewer: Sanitary Sewer Manhole, Sanitary Sewer Cleanout, U/G Sanitary Sewer Line, Above Ground Sanitary Sewer, SS Forced Main Line LOS B, C, D.

MISCELLANEOUS:

Table listing miscellaneous symbols: Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown U/G Line LOS B, 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, Abandoned According to Utility Records, End of Information.

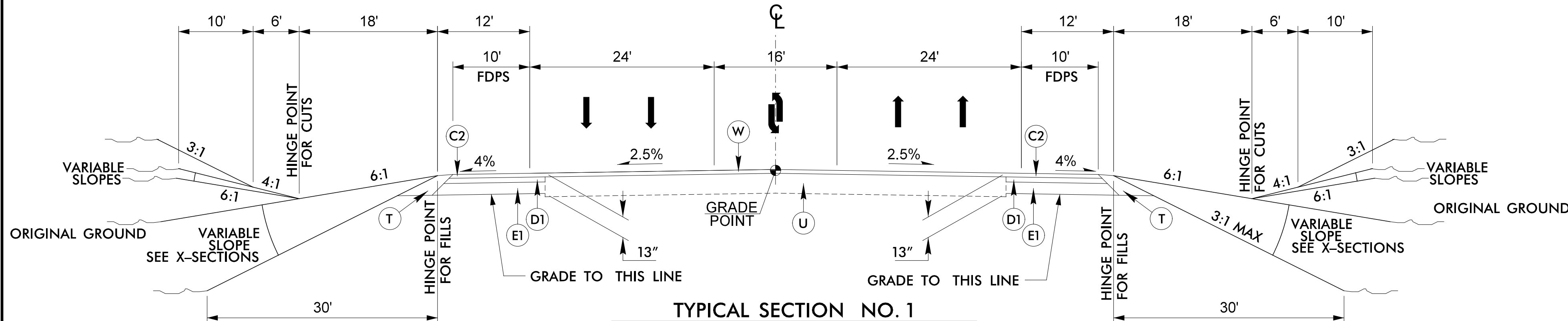
6/2/99

PAVEMENT DESIGN PENDING

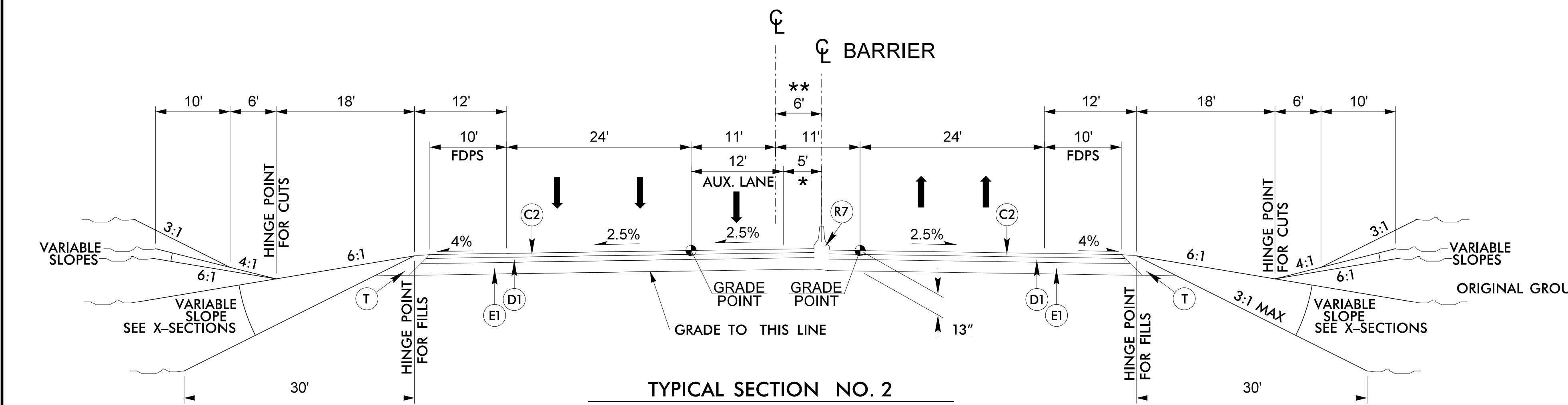
PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>2A-1</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

A	12" PORTLAND CEMENT CONCRETE PAVEMENT (WITH DOWELS)	D4	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS PER SQ YD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R3	8"x18" CONCRETE CURB		
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS	E1	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS	R4	7" JOINTED CONCRETE PAVEMENT REINFORCED WITH WIRE MESH 4x4 W3.5xW3.5		
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS	E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.	R5	5" MONOLITHIC CONCRETE ISLAND		
C3	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	E3	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.	R6	SHOULDER BERM GUTTER		
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	J1	PROP. 11.5" AGGREGATE BASE COURSE.	R7	MEDIAN CONCRETE BARRIER	X	PROP. APPROX. 4" PERMEABLE ASPHALT DRAINAGE LAYER, TYPE P-57, AT AN AVERAGE RATE OF XXX LBS. PER SQ. YD.
C5	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS PER SQ YD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH	J2	PROP. 4" AGGREGATE BASE COURSE.	T	EARTH MATERIAL.	Y	8" PERVIOUS CONCRETE PAVEMENT
C6	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS PER SQ YD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH	J3	PROP. 11" AGGREGATE BASE COURSE.	U	EXISTING PAVEMENT.	Z	6" #57 STONE
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	J4	PROP. 5" AGGREGATE BASE COURSE.	V	MILLING (VARIABLE DEPTH)		
D2	PROP. APPROX. 3.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD.	R1	1'-6" CONCRETE CURB AND GUTTER.	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)		
D3	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R2	2'-6" CONCRETE CURB AND GUTTER.				

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

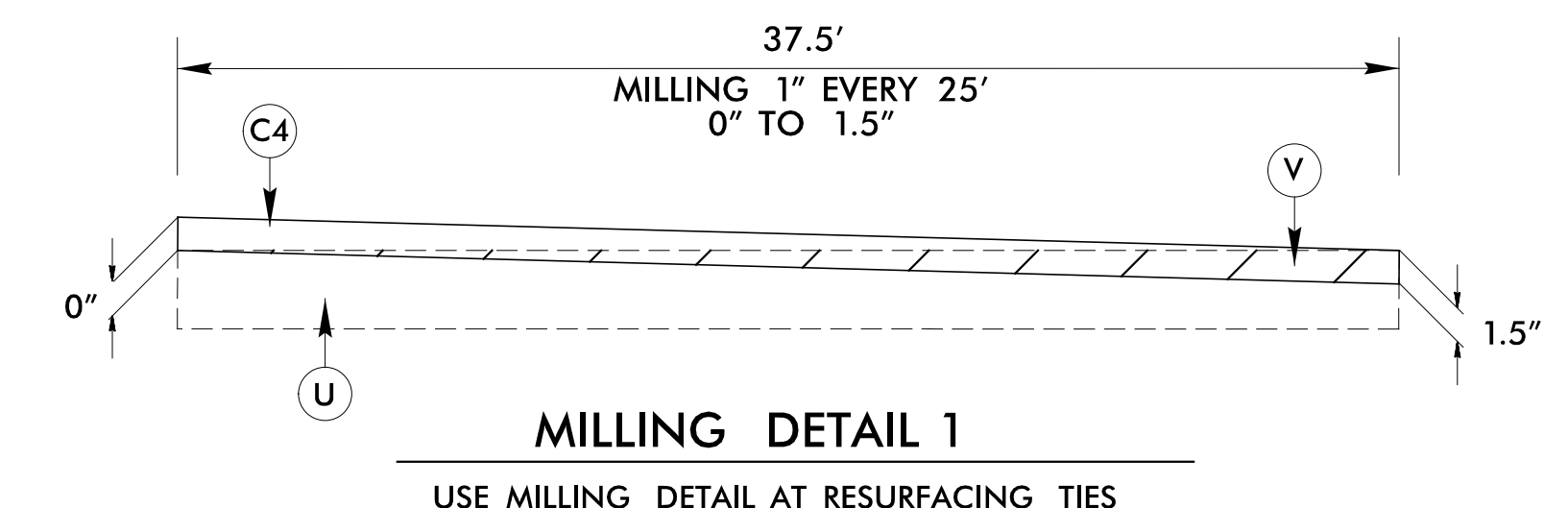


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 -Y- (US 158) STA. 89+00.00 TO 102+50.00

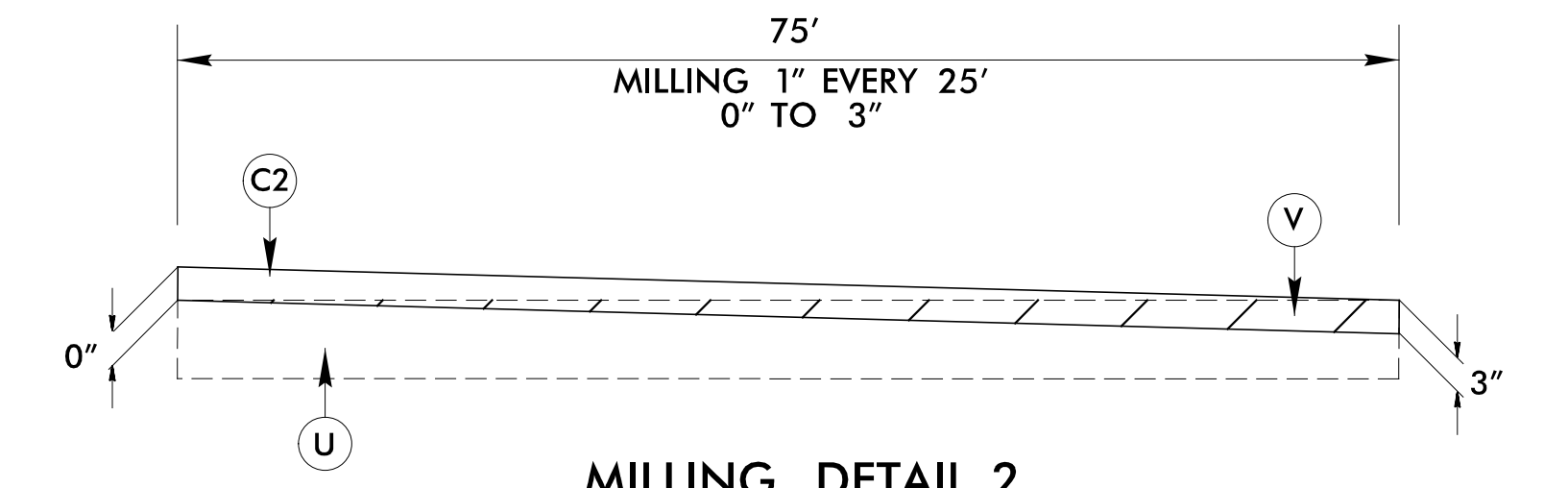


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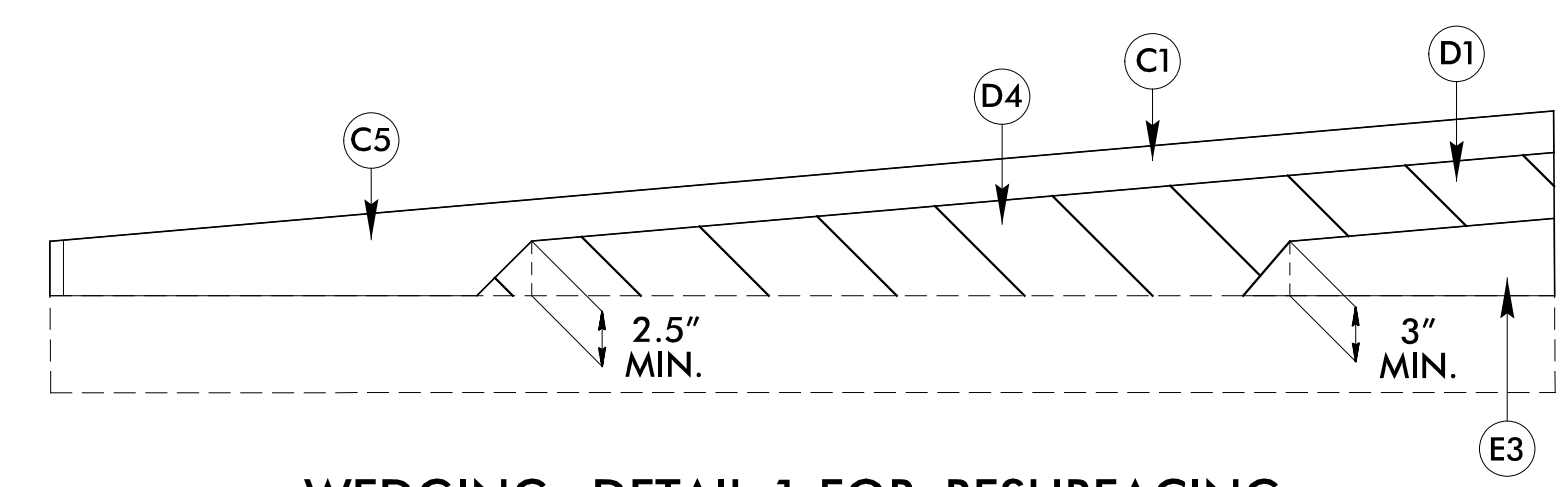
* 6' FROM -Y- STA. 25+00.00 TO 33+39.23
 ** 7' FROM -Y- STA. 25+00.00 TO 33+39.23



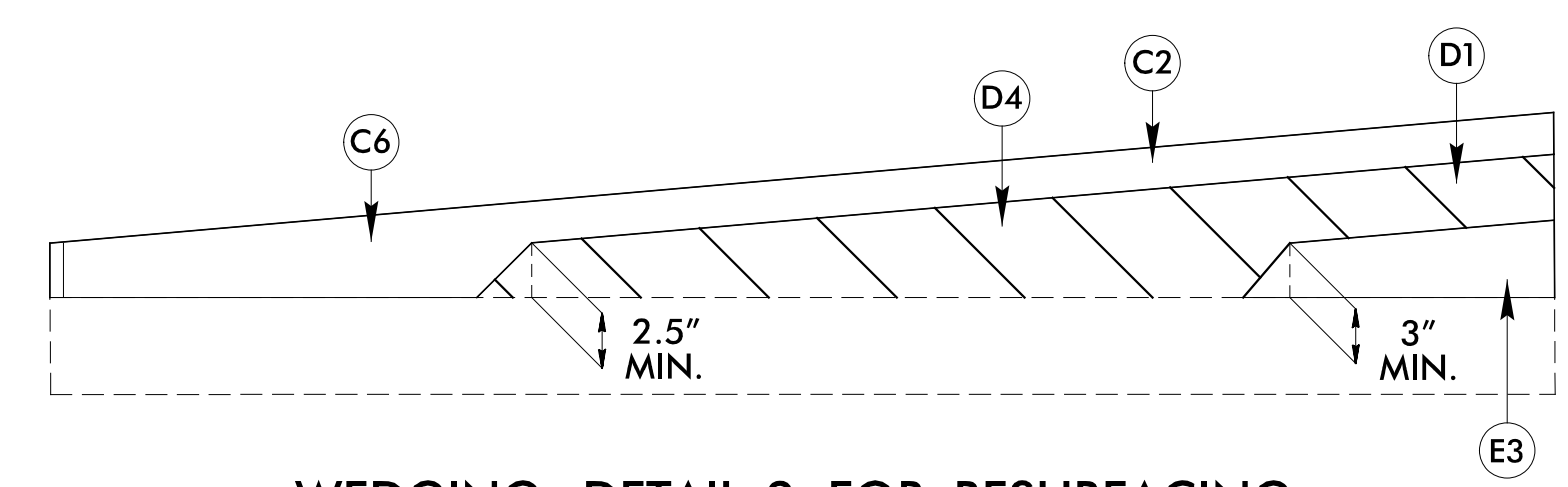
MILLING DETAIL 1
 USE MILLING DETAIL AT RESURFACING TIES



MILLING DETAIL 2
 USE MILLING DETAIL AT RESURFACING TIES



WEDGING DETAIL 1 FOR RESURFACING

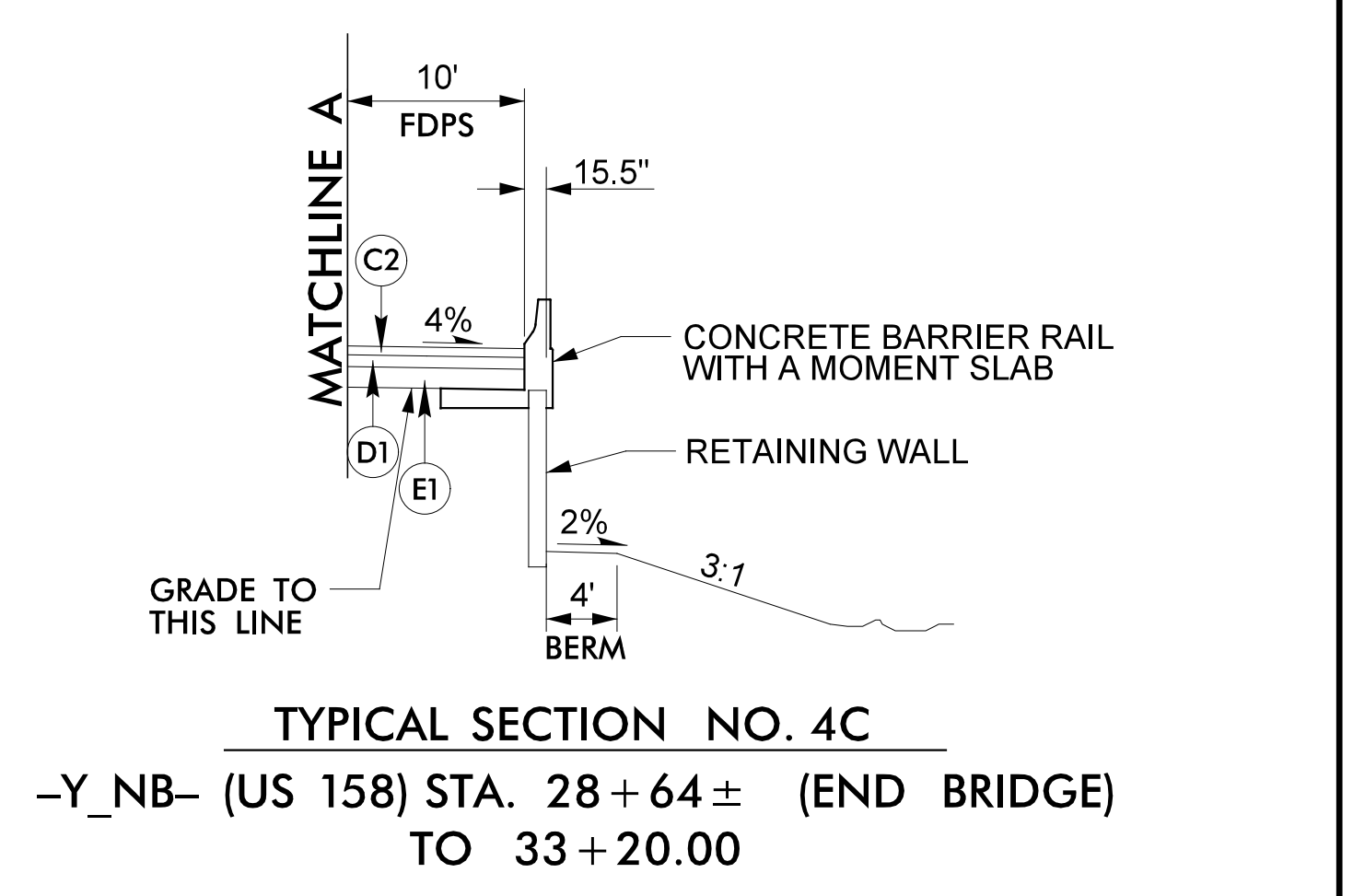
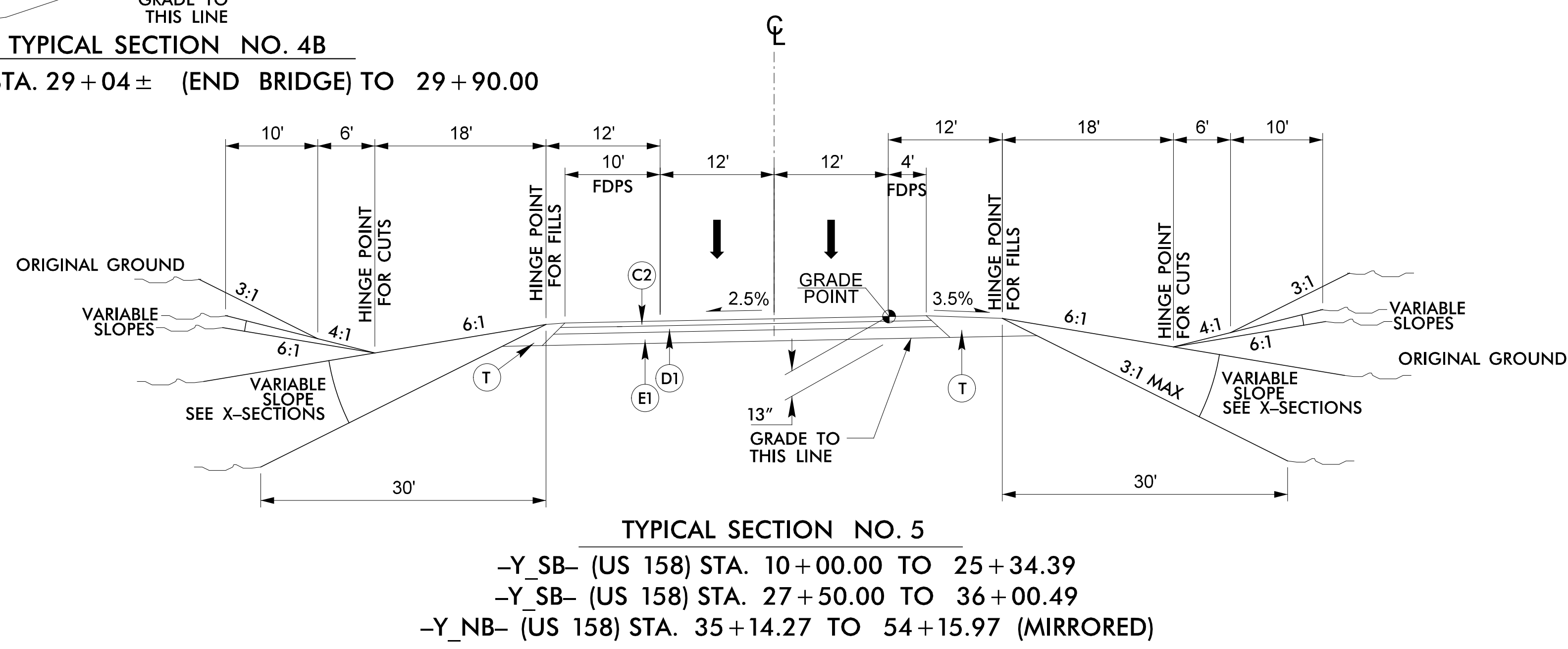
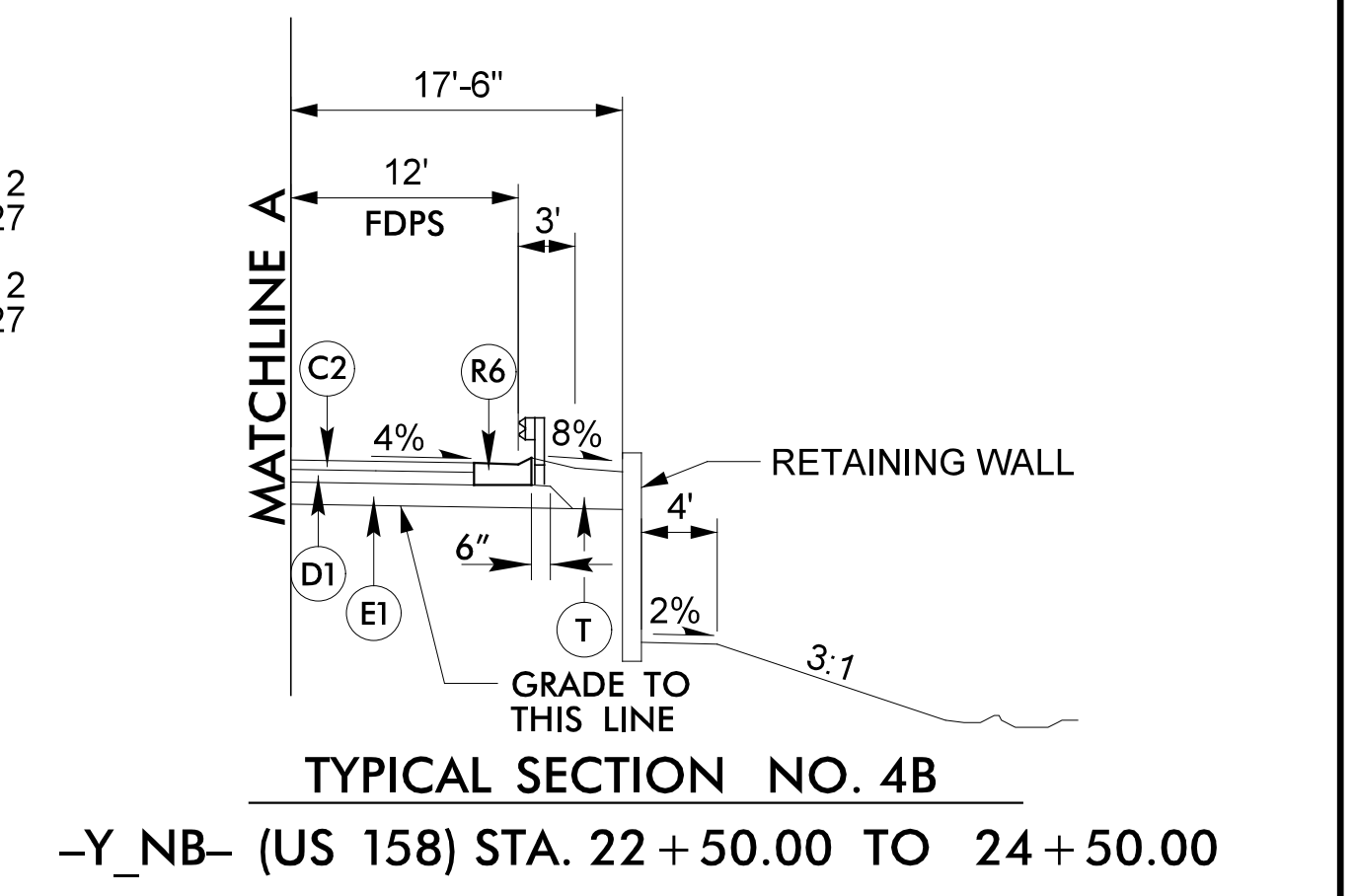
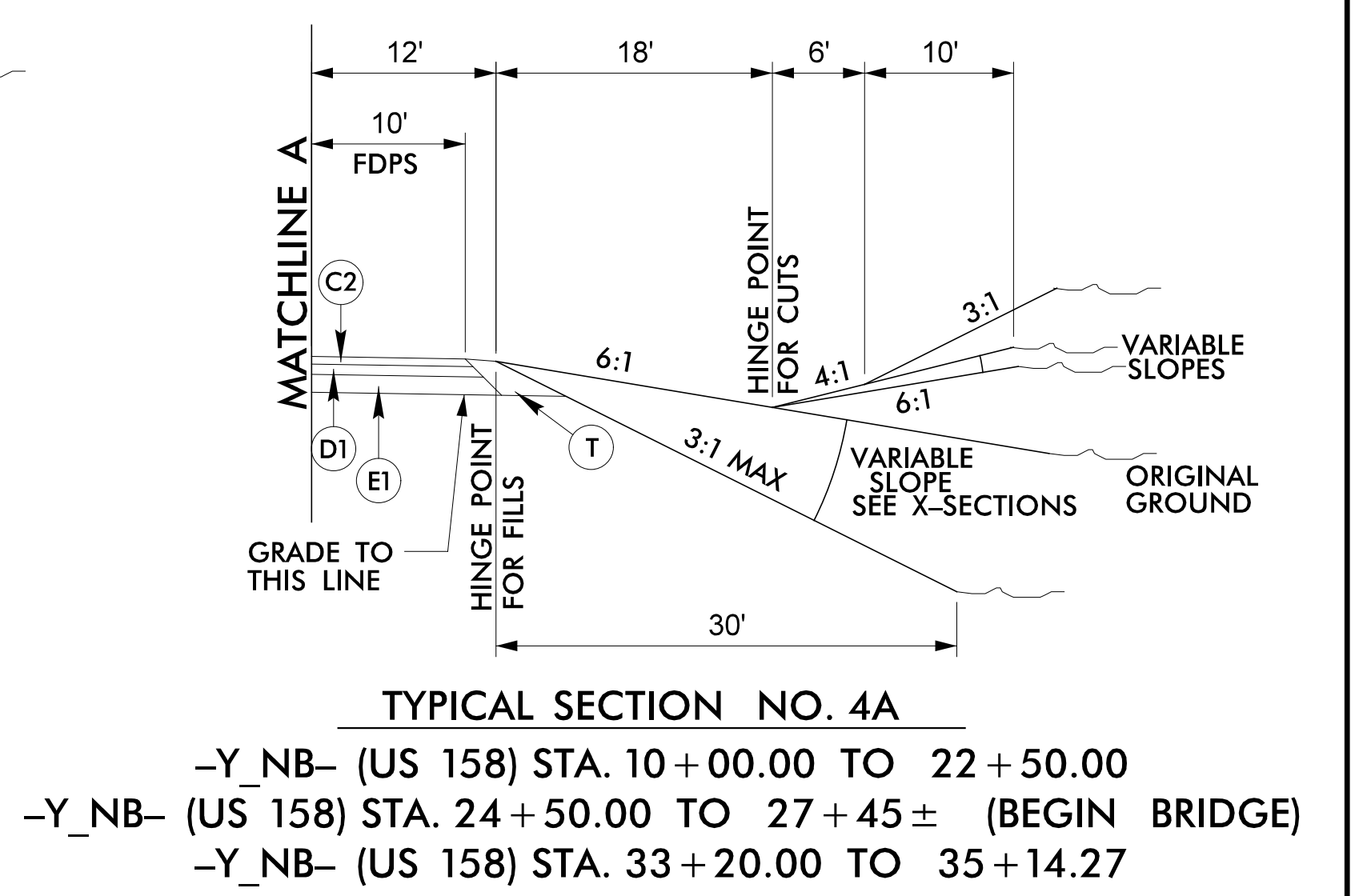
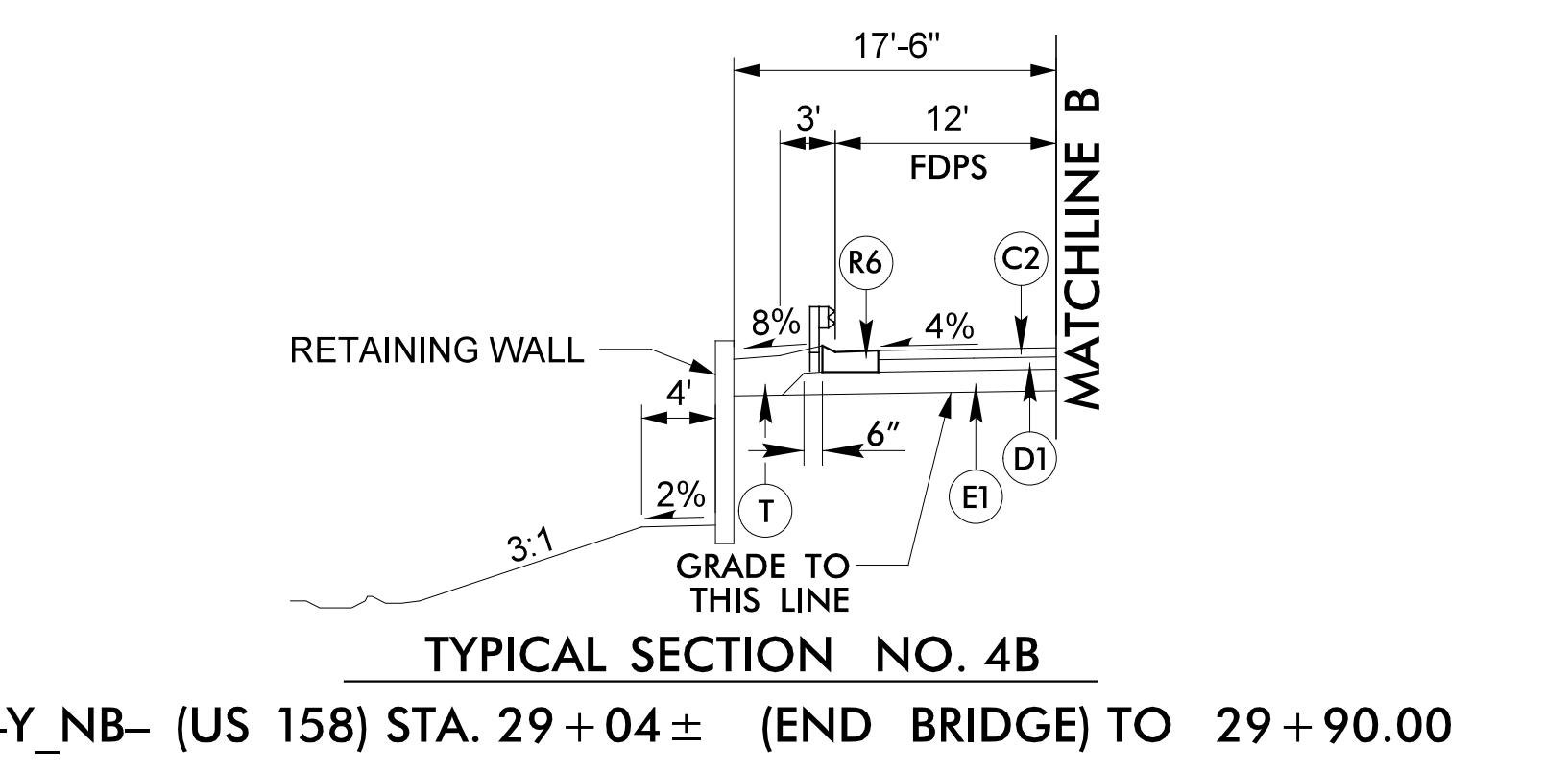
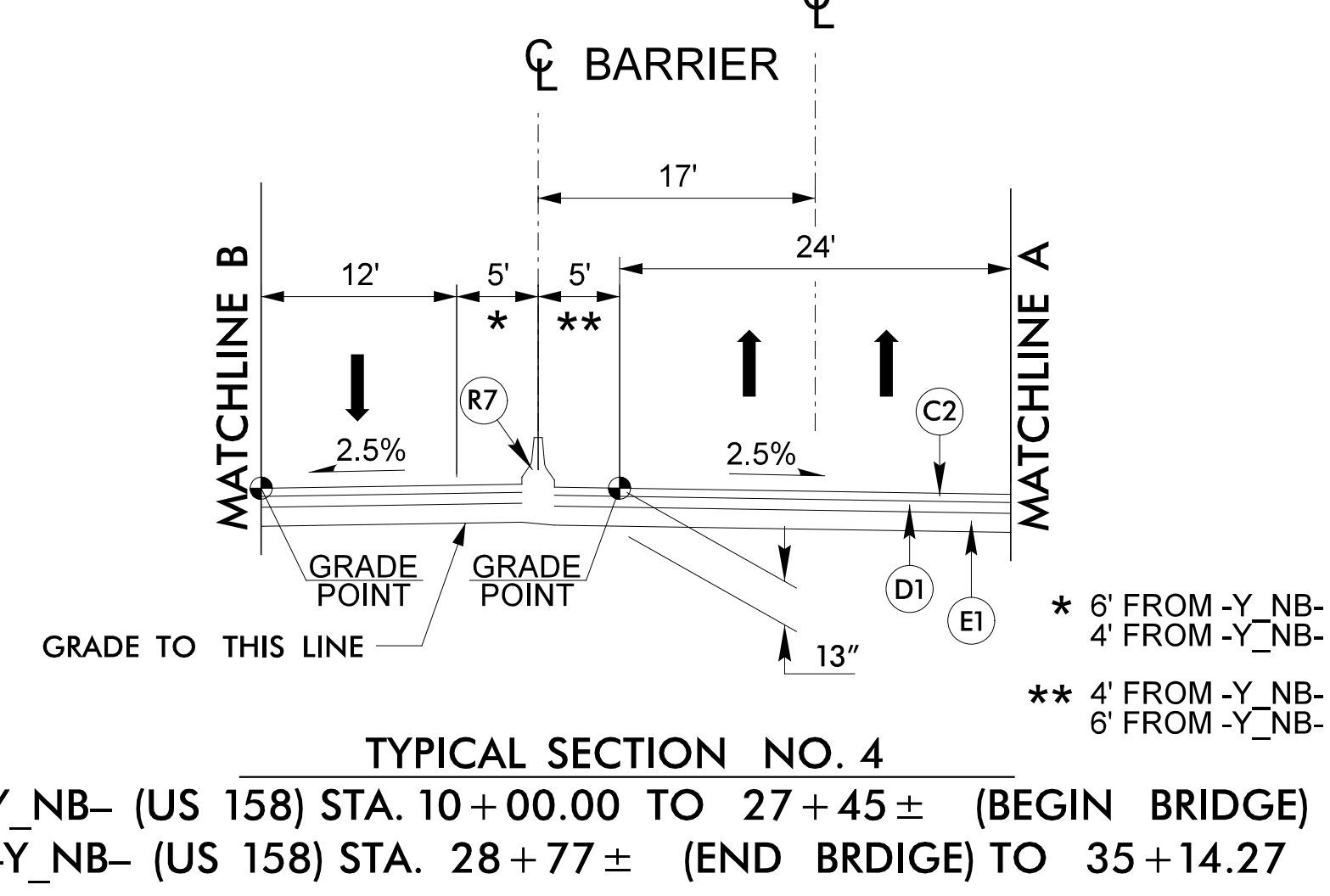
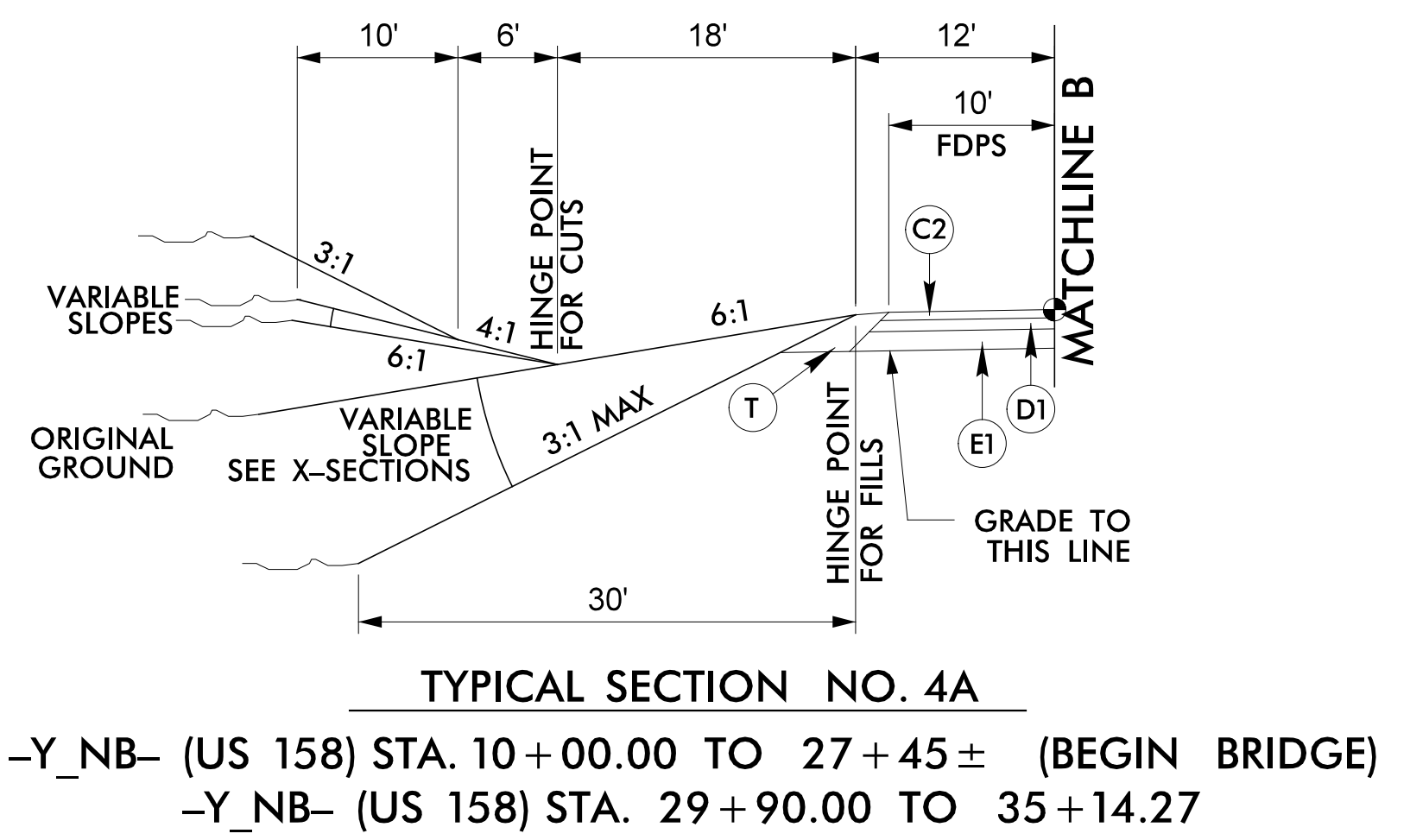
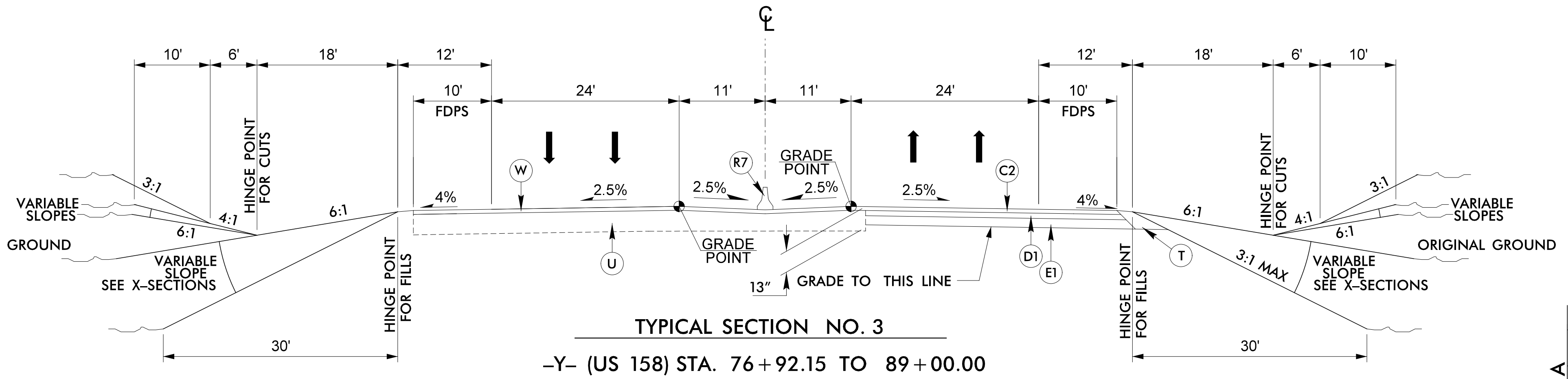


WEDGING DETAIL 2 FOR RESURFACING

8/3/2020
 R2576-FDU-TYP.dgn
 C. DICKLEY

6/2/99

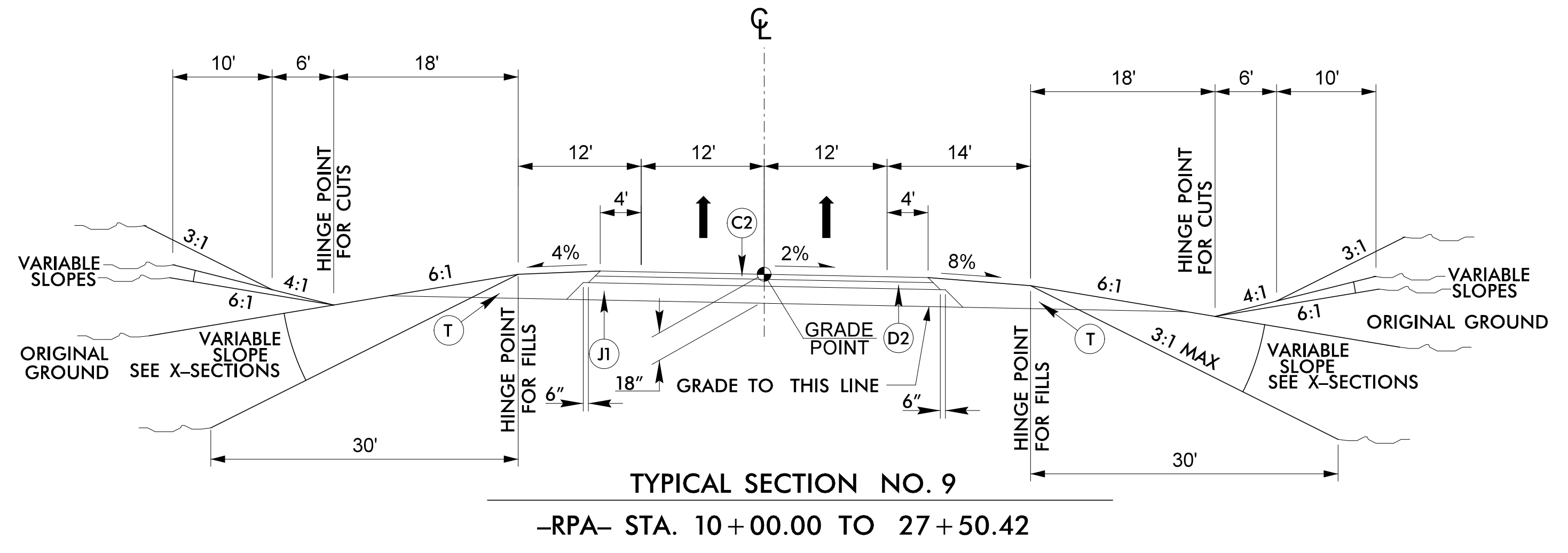
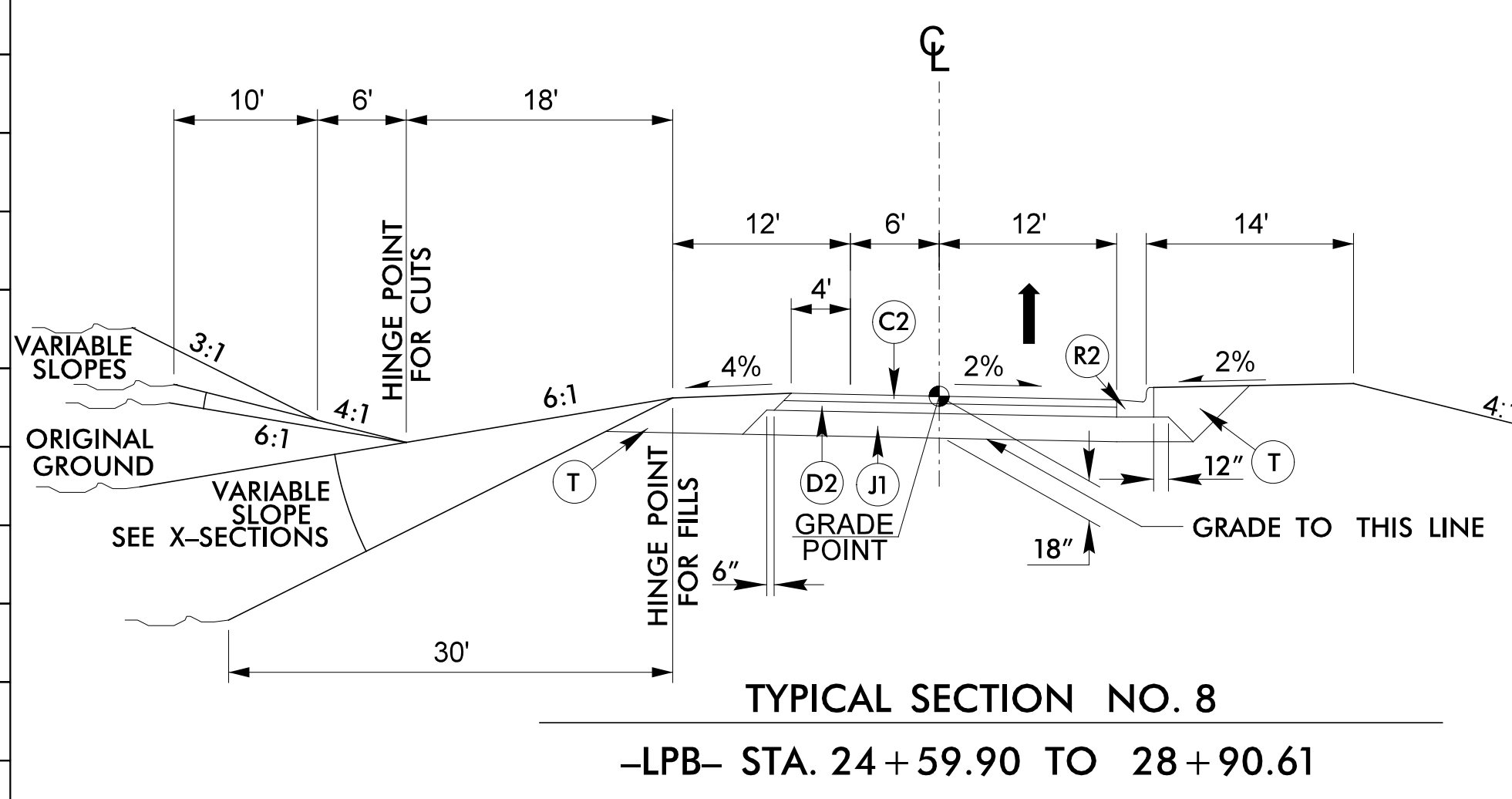
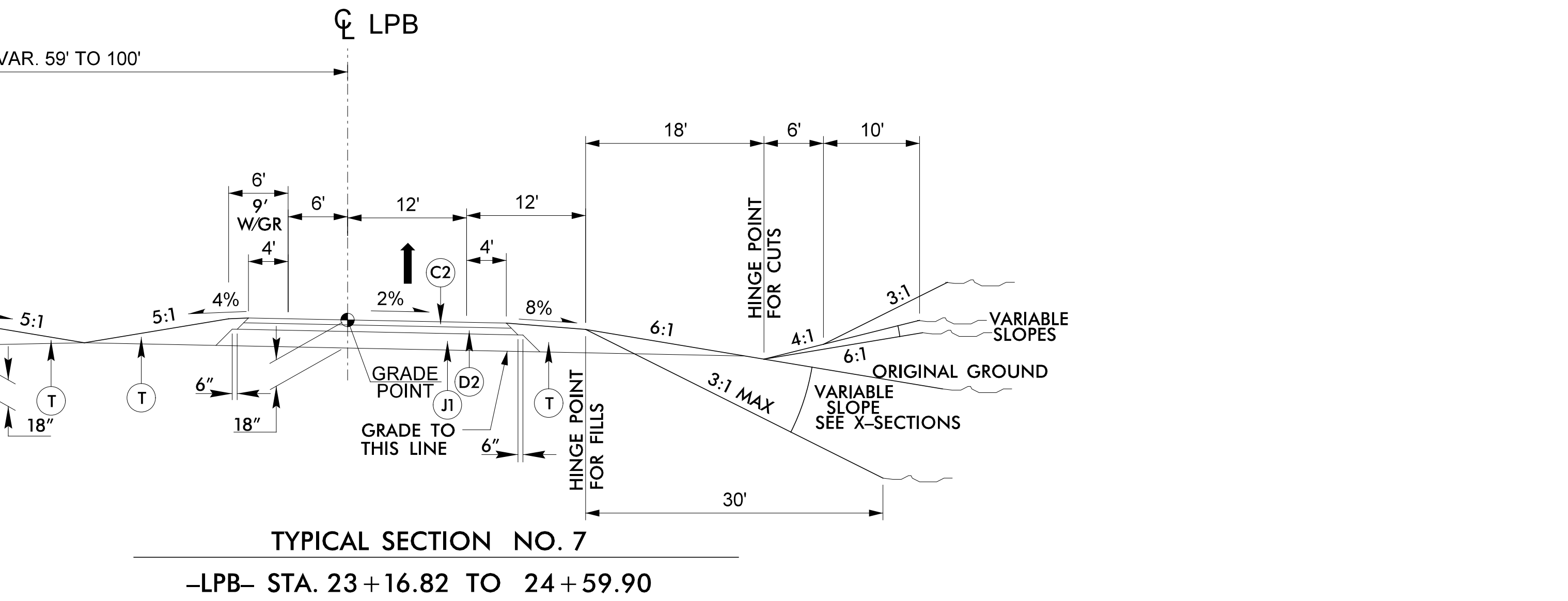
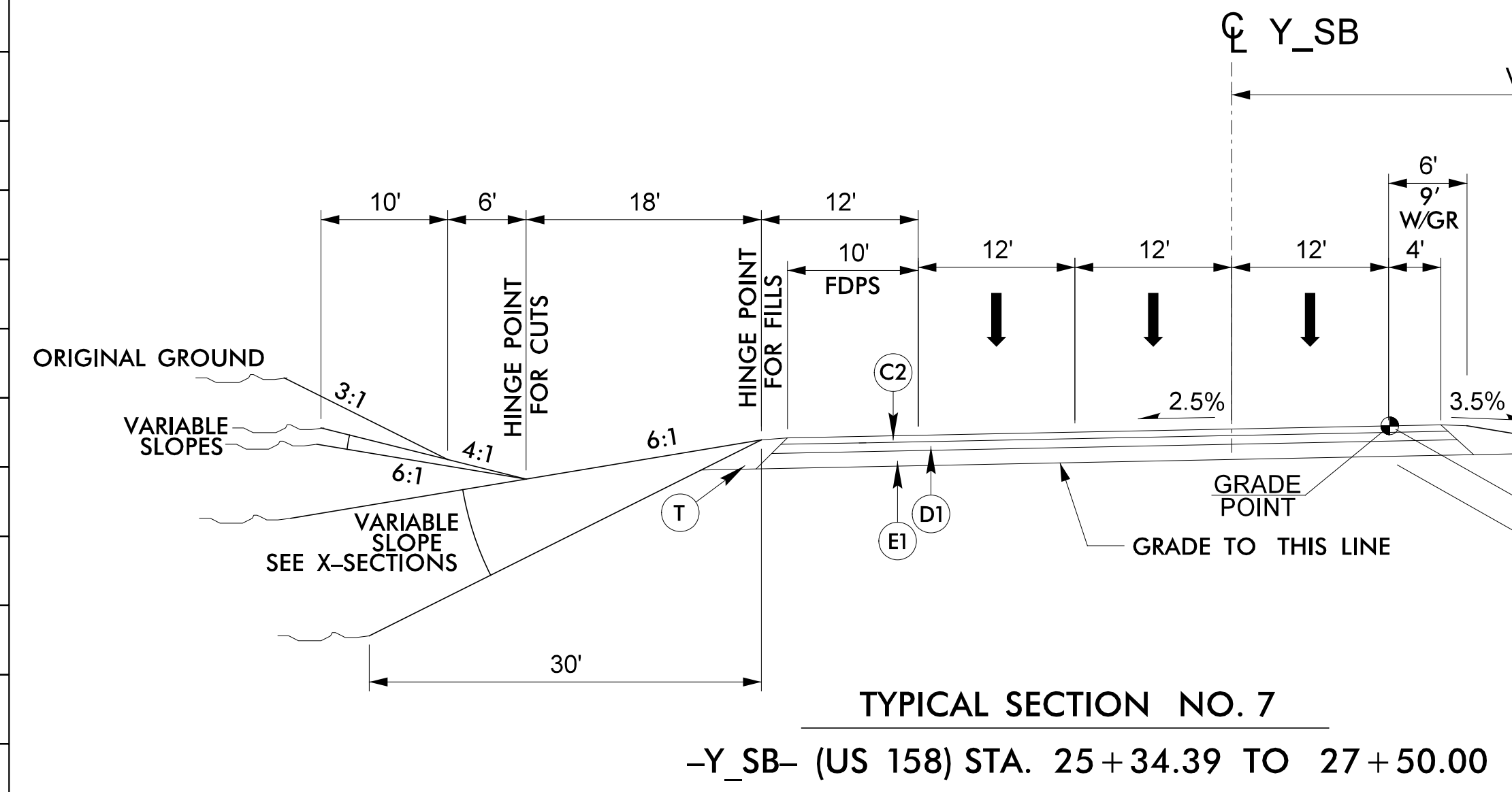
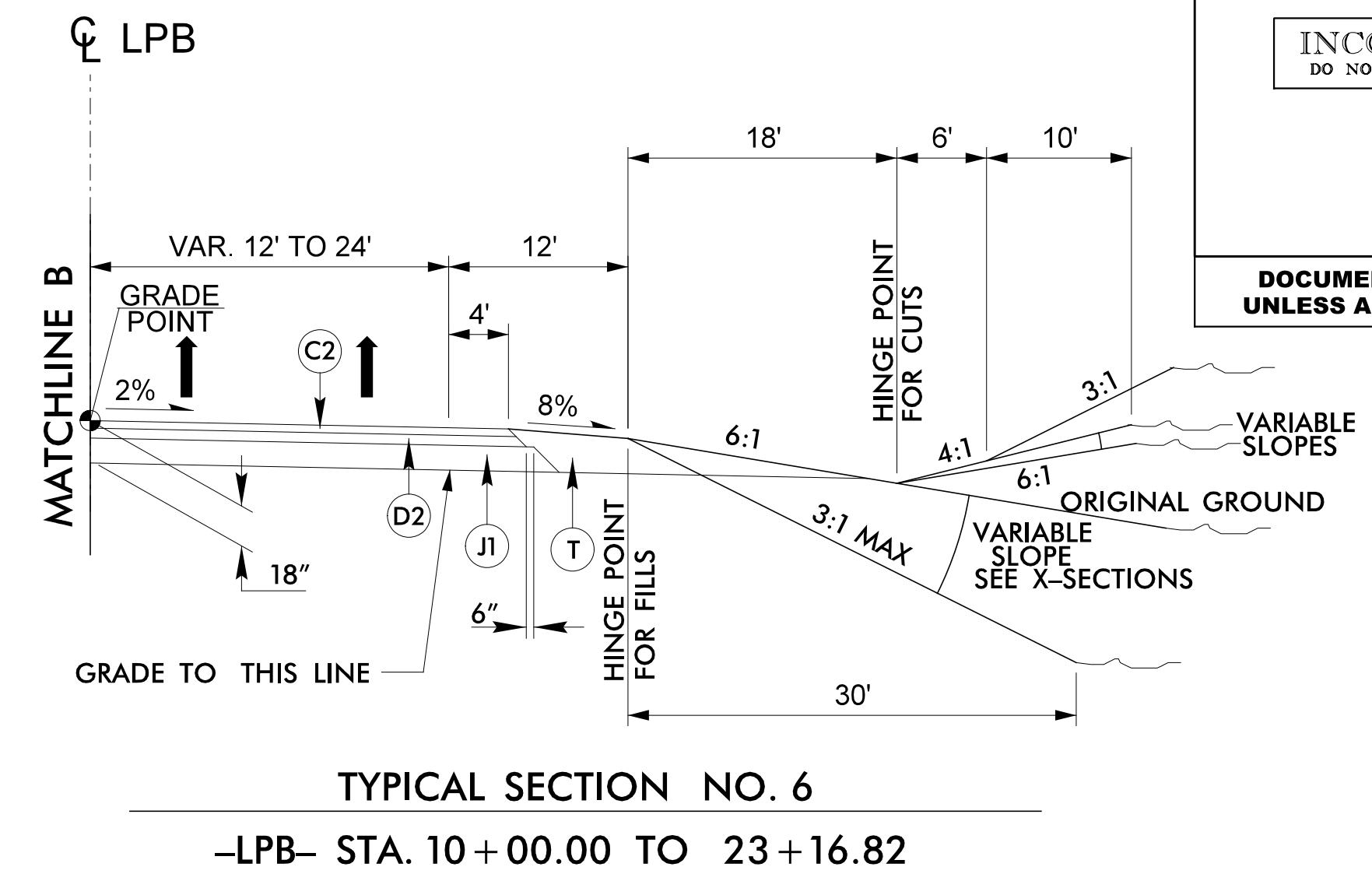
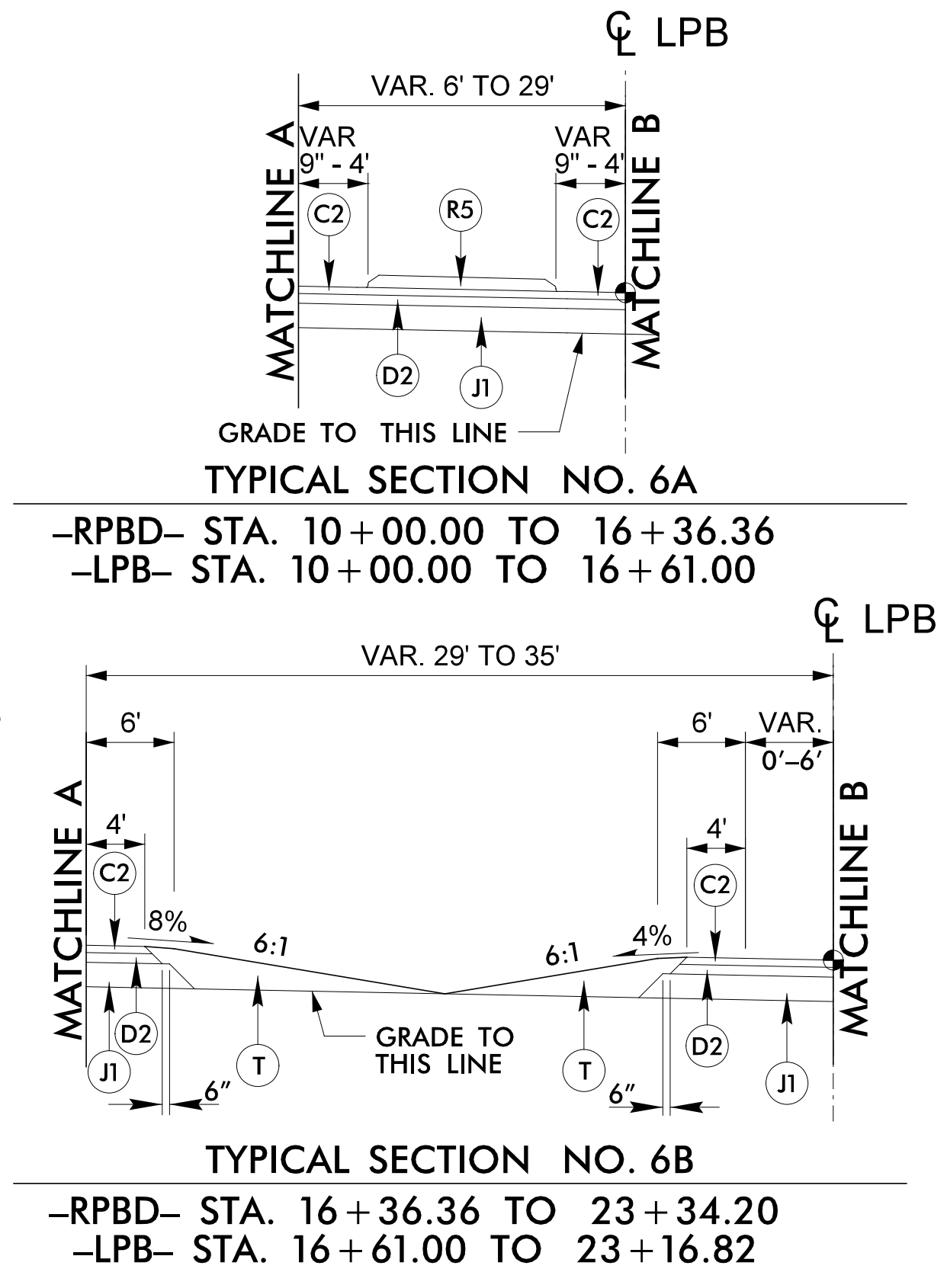
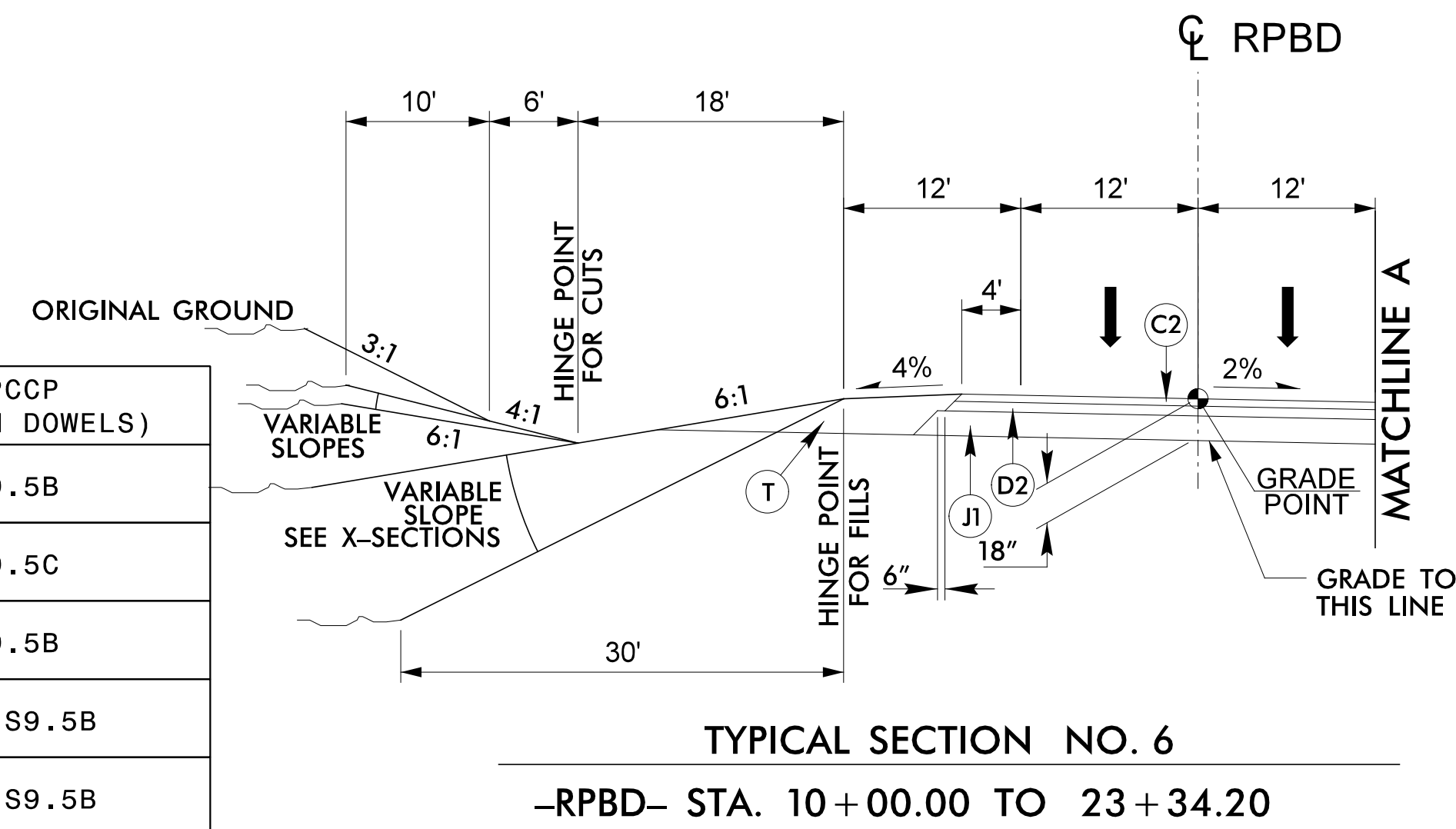
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC BARRIER
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE



8/3/2020
R-2576-Fig-1-TYP.dgn

6/2/99

A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
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X	4" PADL
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Z	6" #57 STONE

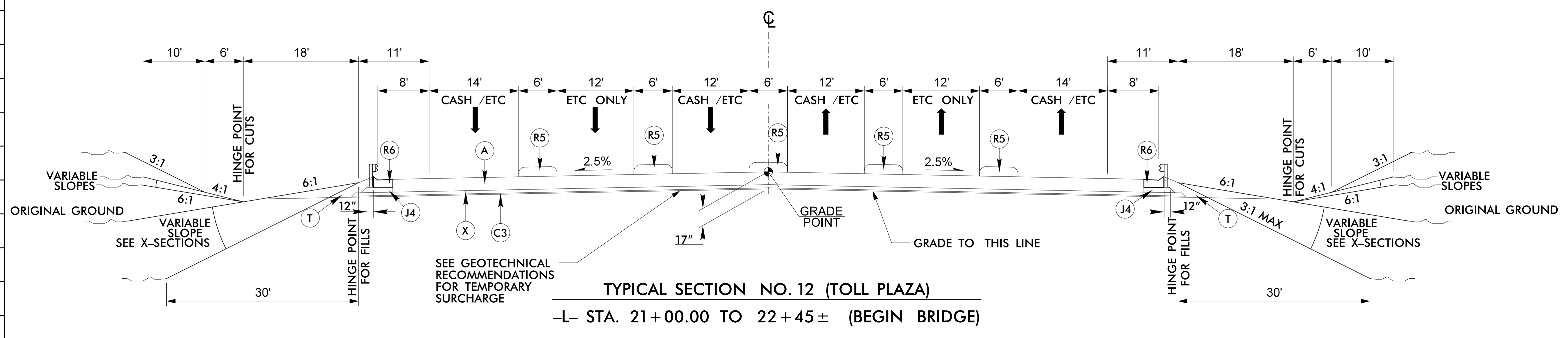
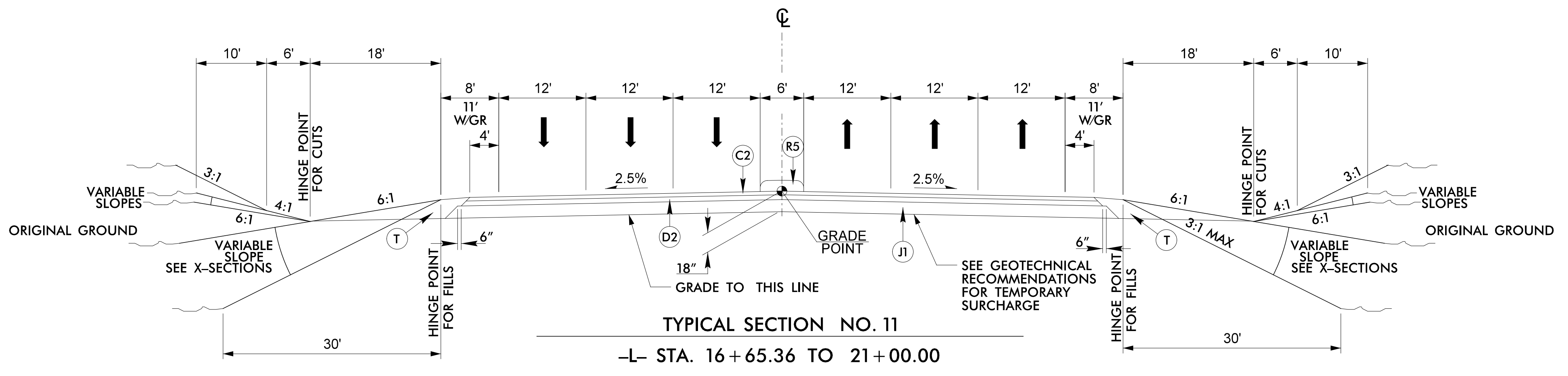
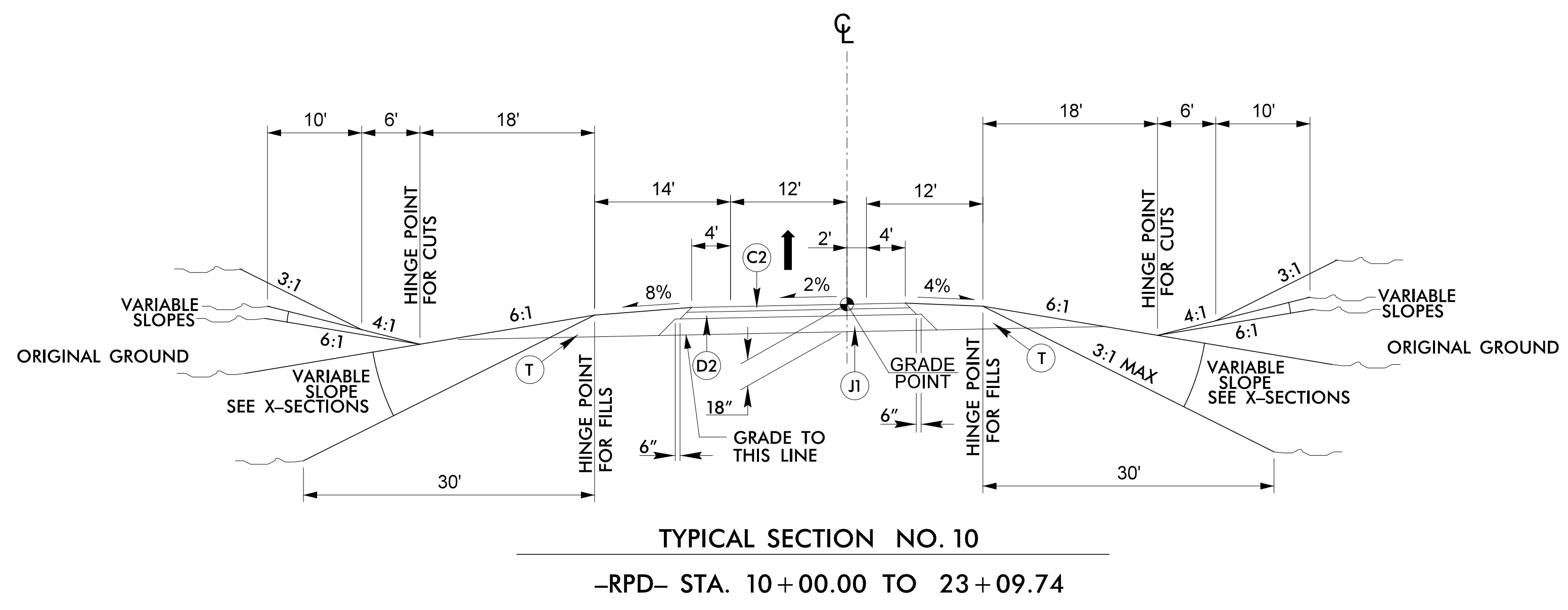


8/3/2020
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6/2/99

PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-4
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
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R6	SBG
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S	4" SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE

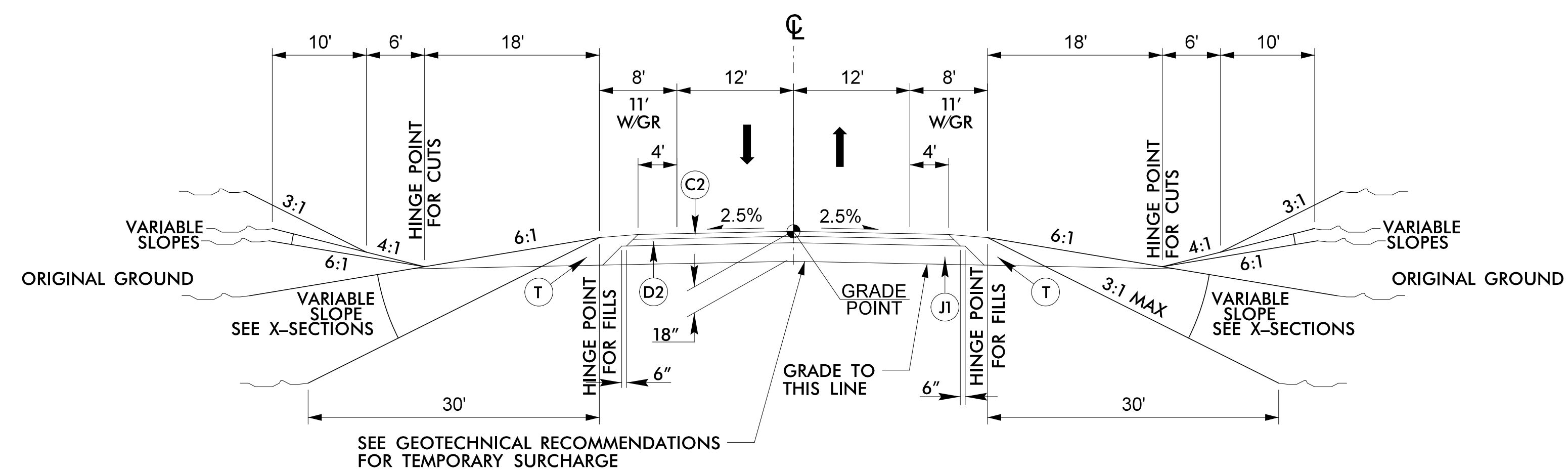


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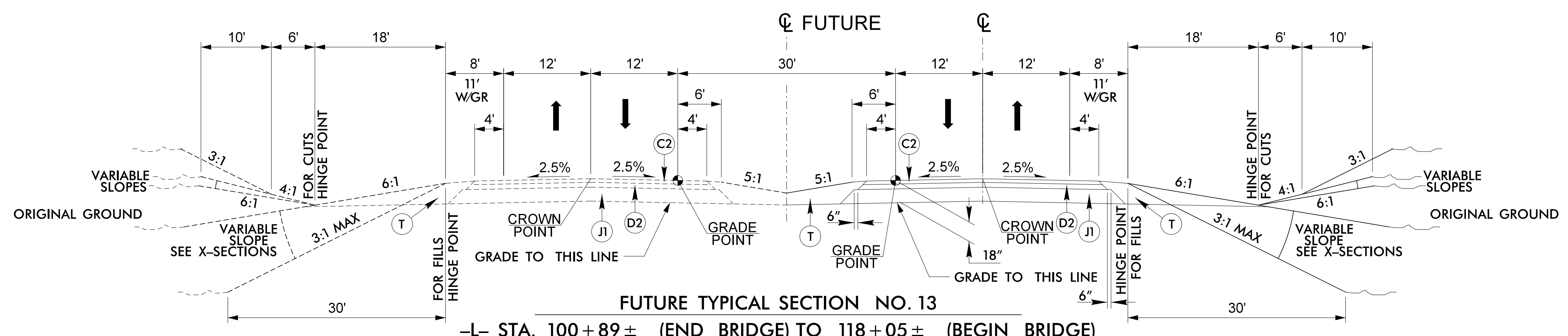
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PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-5
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

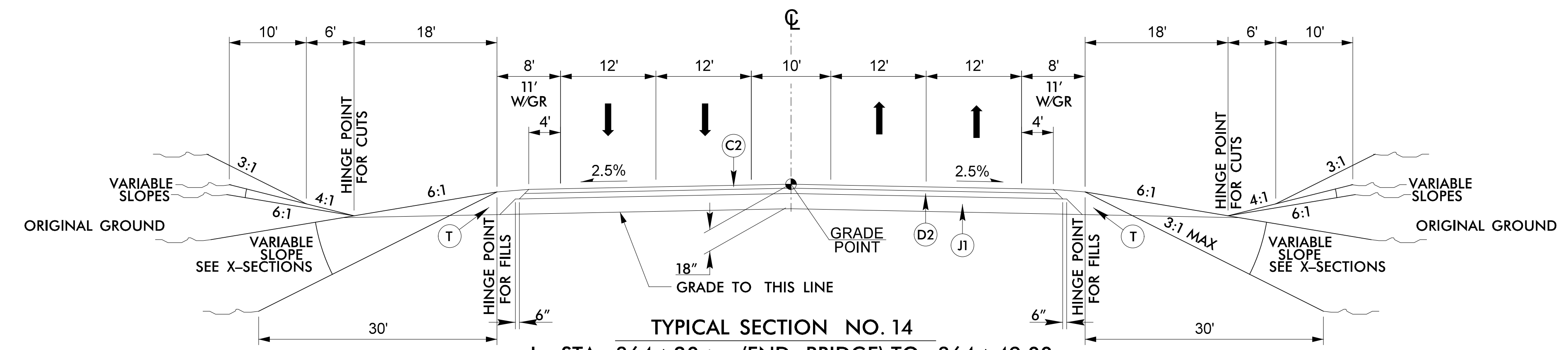
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC BARRIER
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE



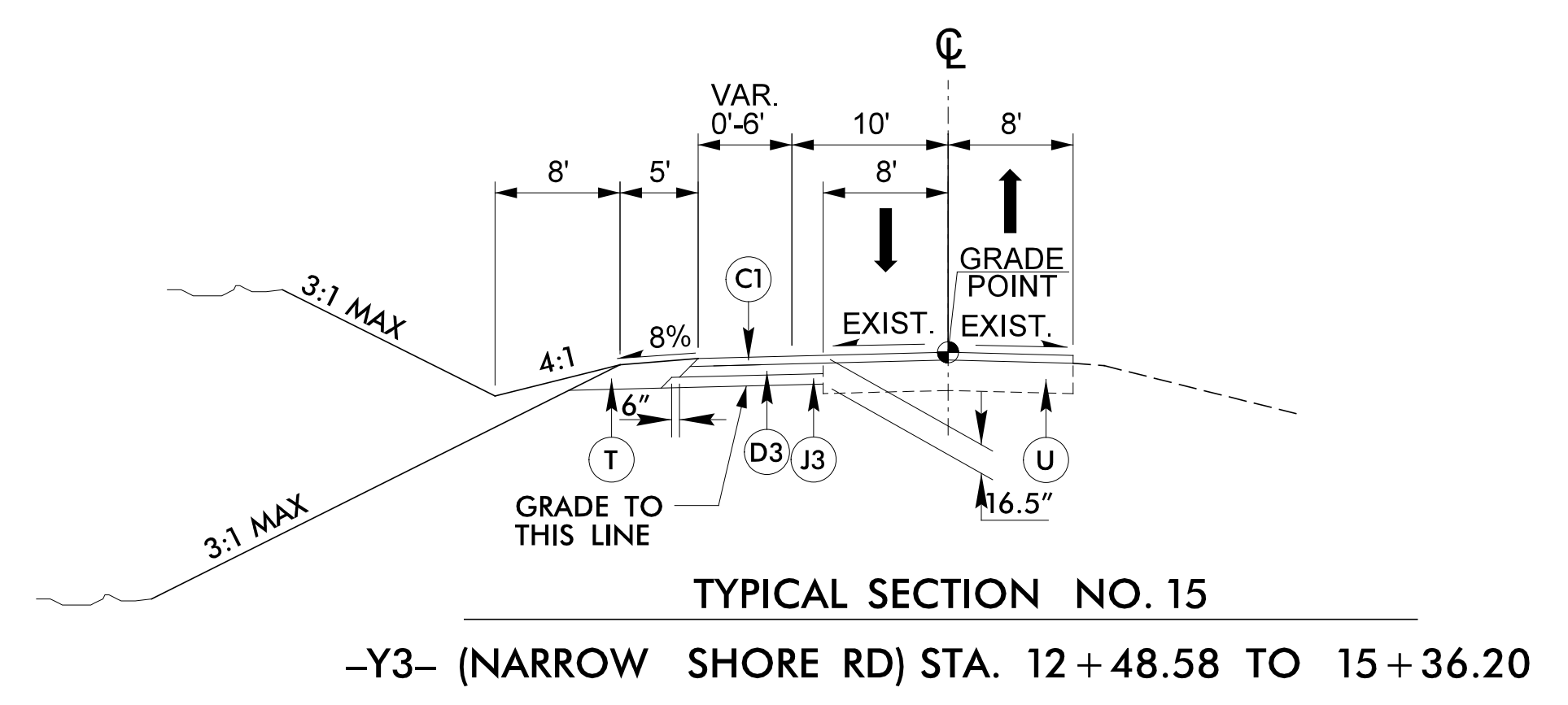
TYPICAL SECTION NO. 13
 -L- STA. 100+89± (END BRIDGE) TO 118+05± (BEGIN BRIDGE)



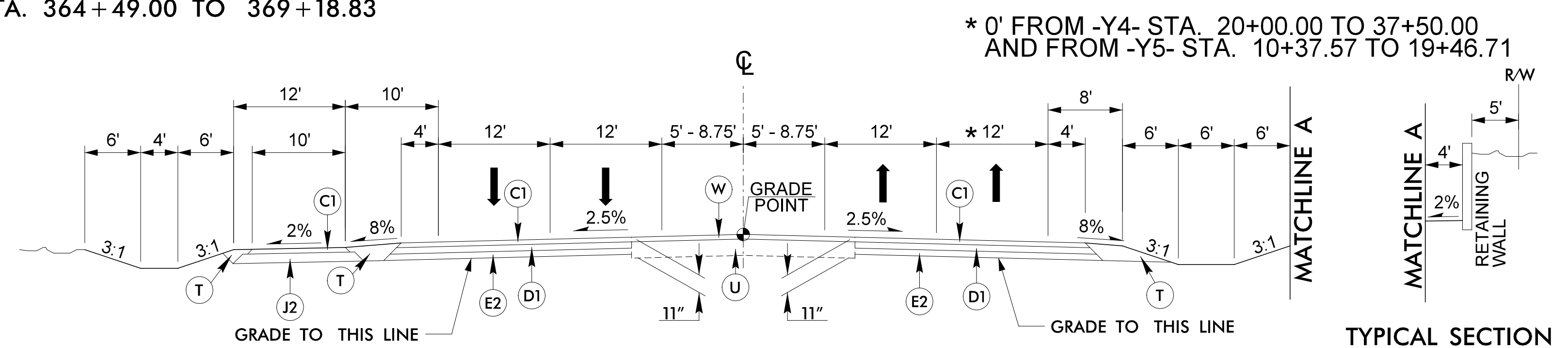
FUTURE TYPICAL SECTION NO. 13
 -L- STA. 100+89± (END BRIDGE) TO 118+05± (BEGIN BRIDGE)



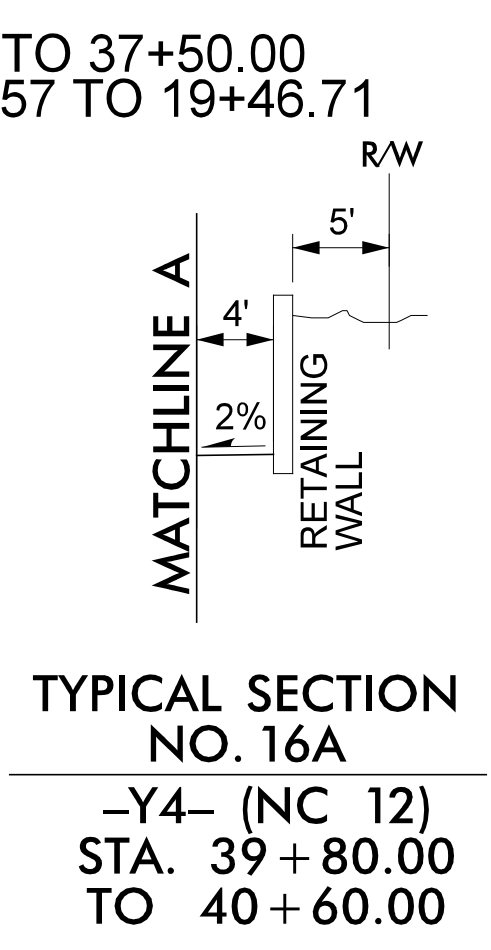
TYPICAL SECTION NO. 14
 -L- STA. 364+20± (END BRIDGE) TO 364+49.00
 -L2- STA. 364+49.00 TO 369+18.83



TYPICAL SECTION NO. 15
 -Y3- (NARROW SHORE RD) STA. 12+48.58 TO 15+36.20



TYPICAL SECTION NO. 16
 -Y4- (NC 12) STA. 20+00.00 TO 44+86.83
 -Y5- (NC 12) STA. 10+37.57 TO 19+46.71

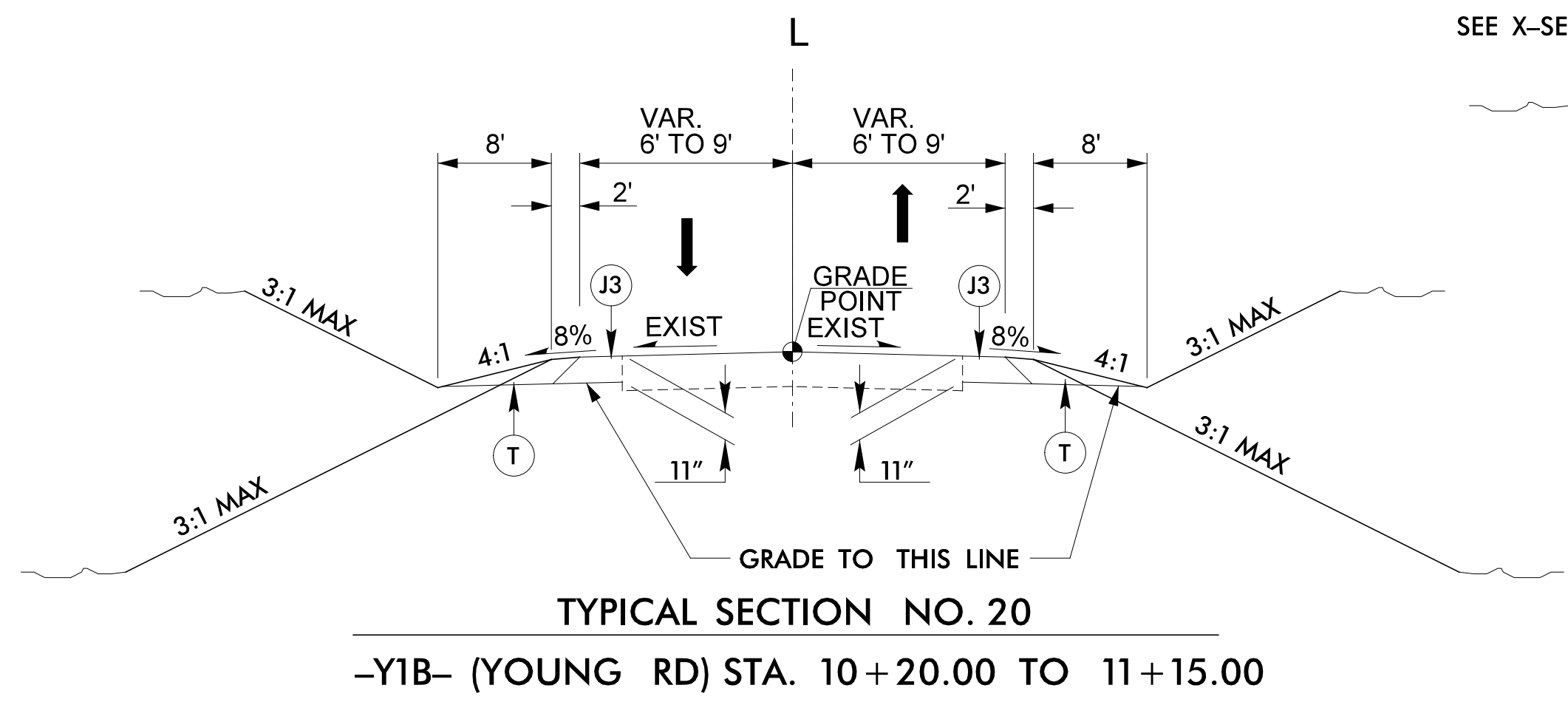
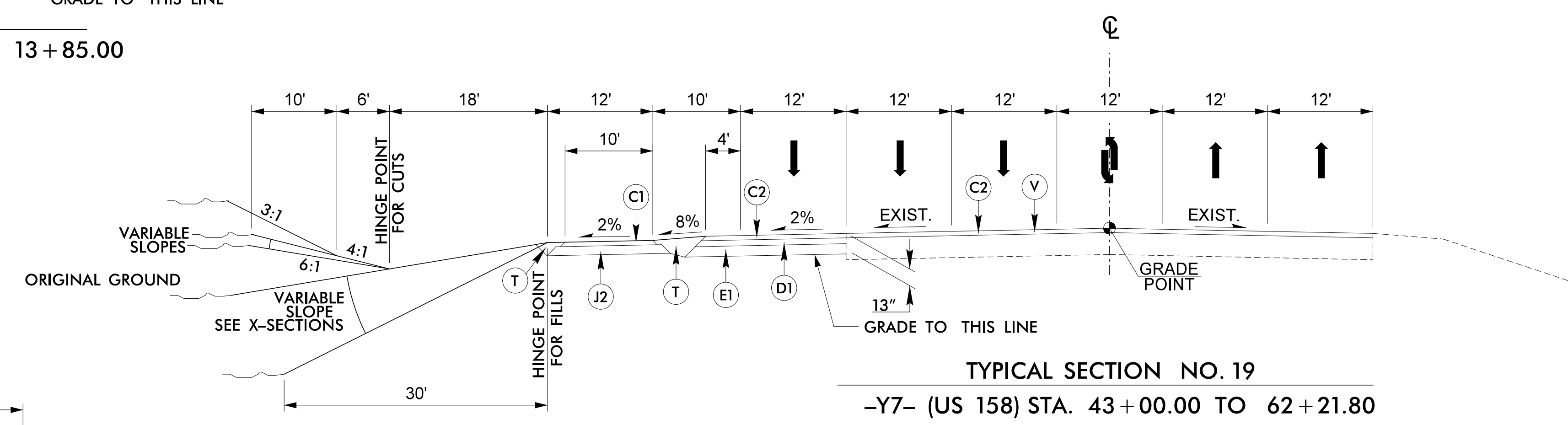
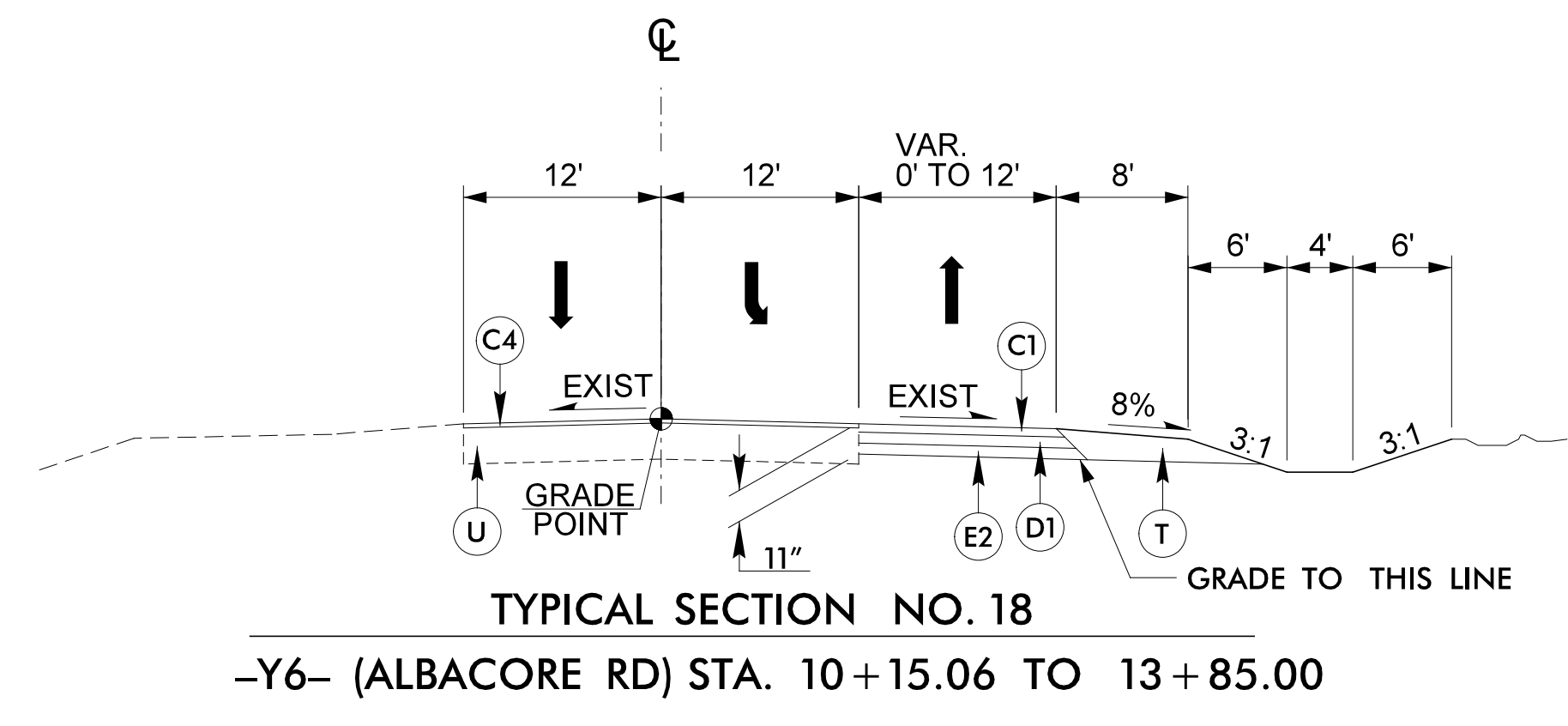
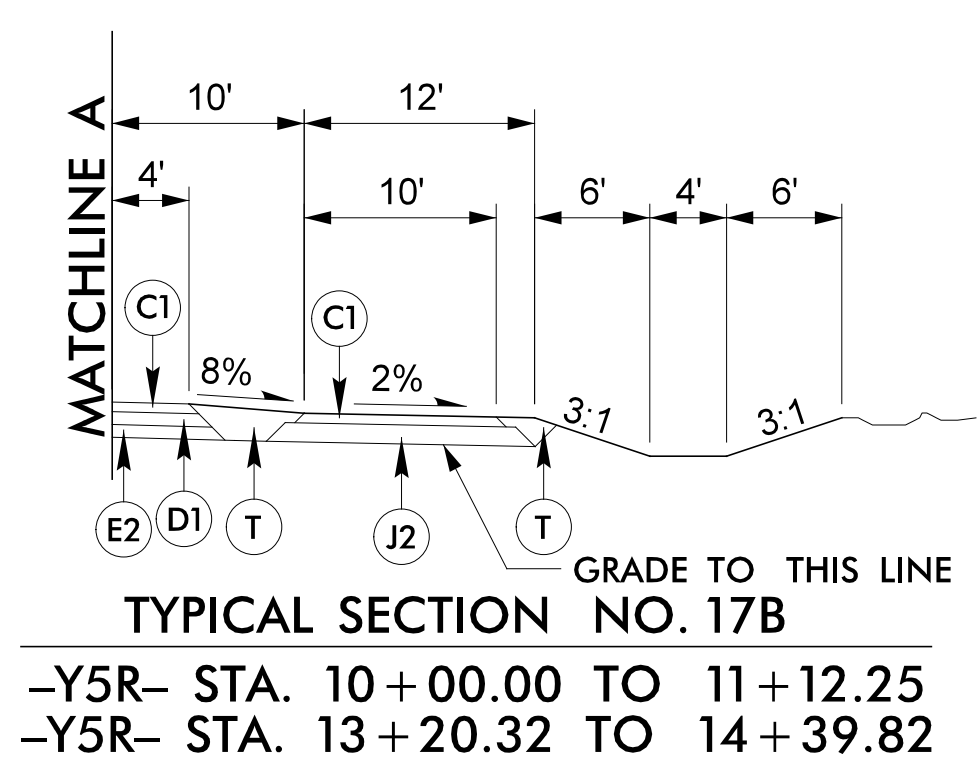
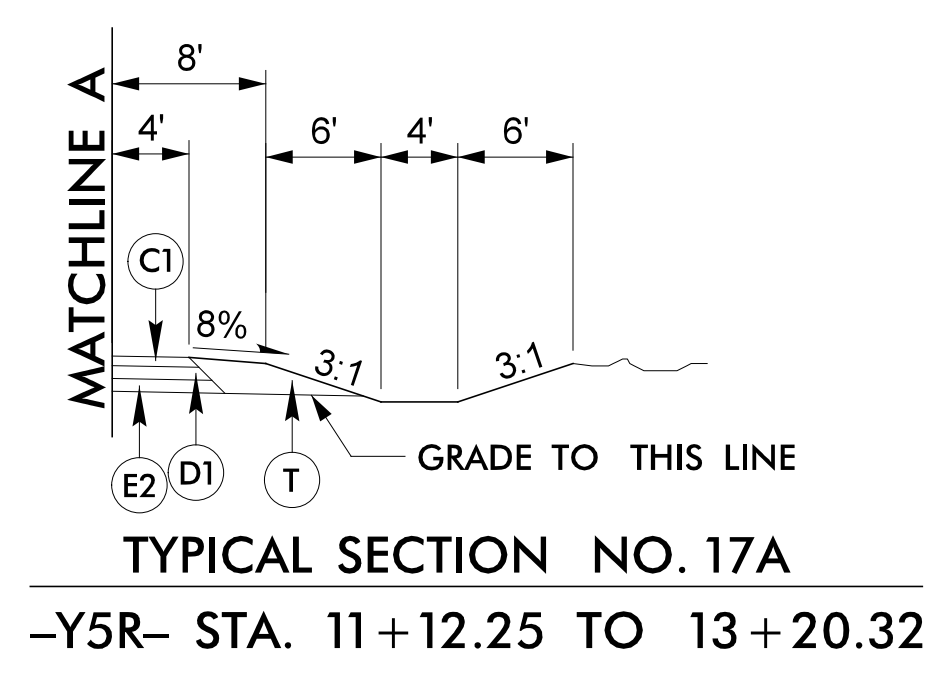
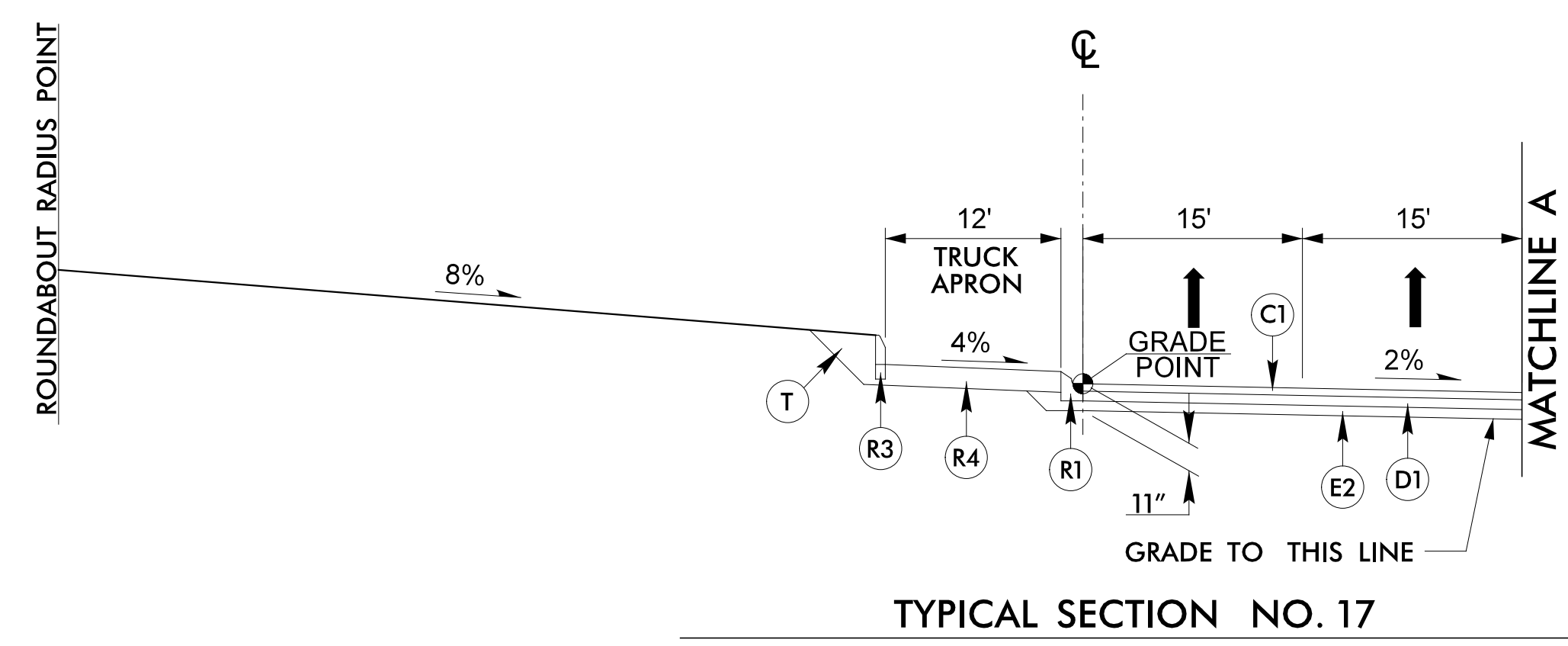


TYPICAL SECTION NO. 16A
 -Y4- (NC 12) STA. 39+80.00 TO 40+60.00

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PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-6
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

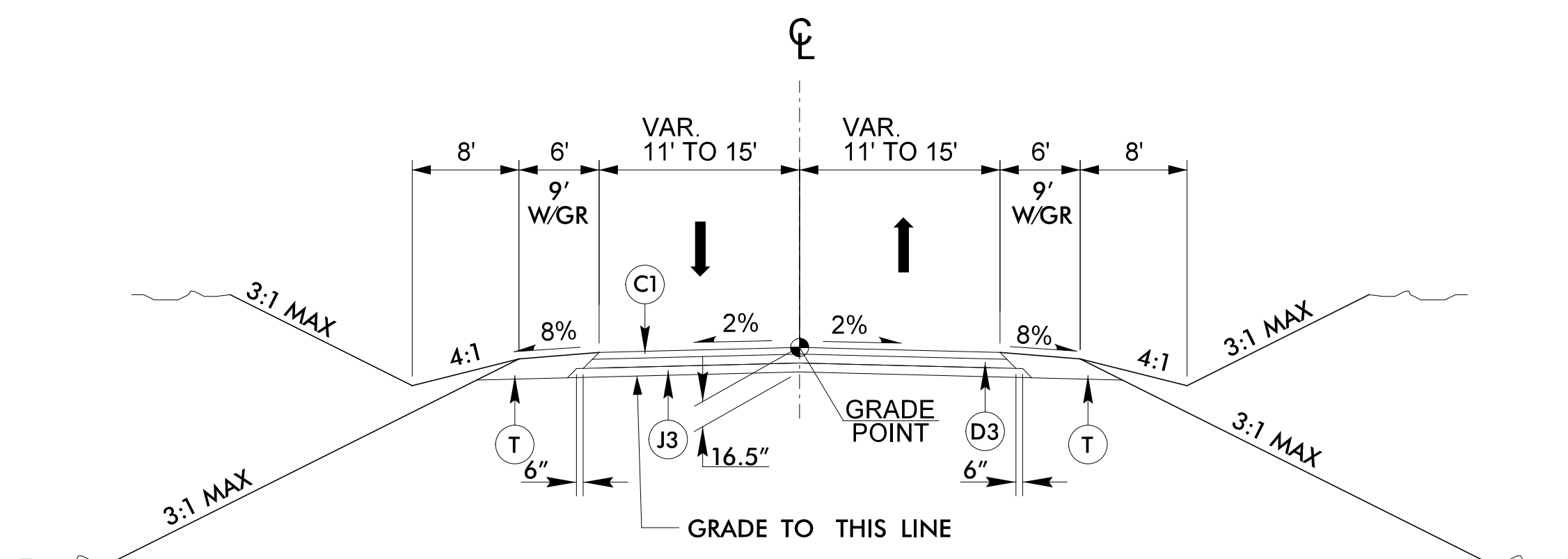
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC BARRIER
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE



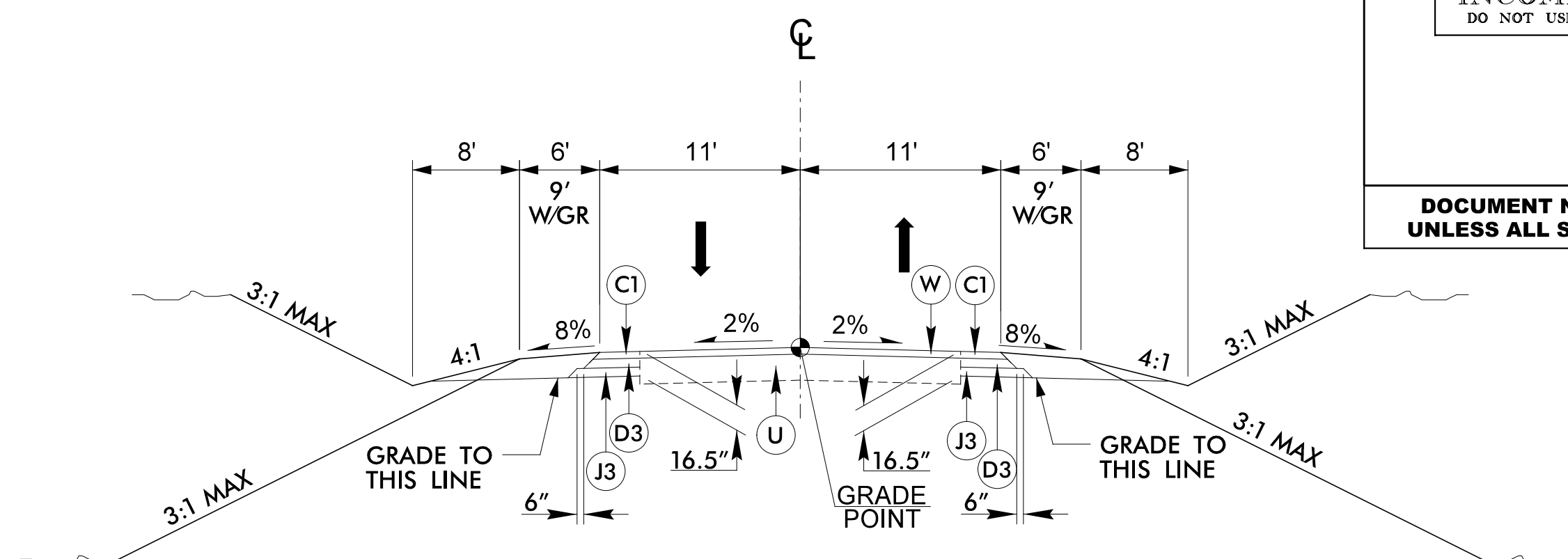
6/2/99

PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-7
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

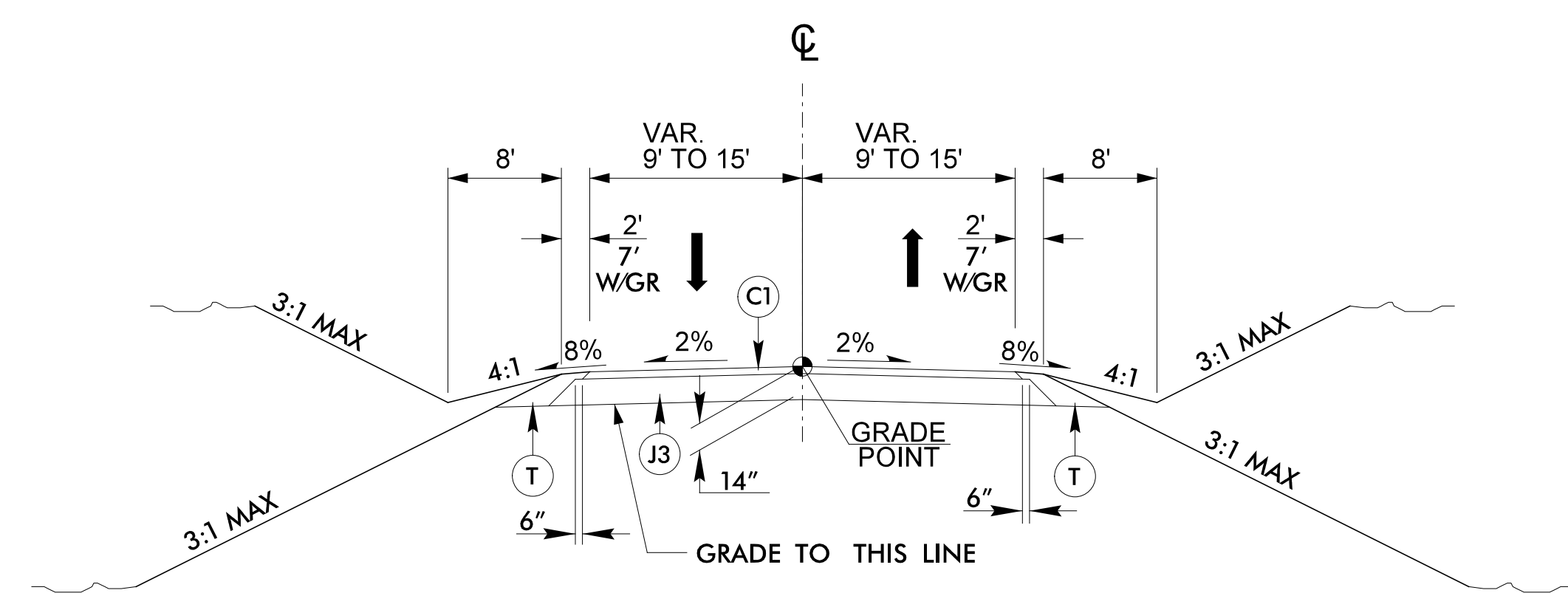
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC. BARRIER
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE



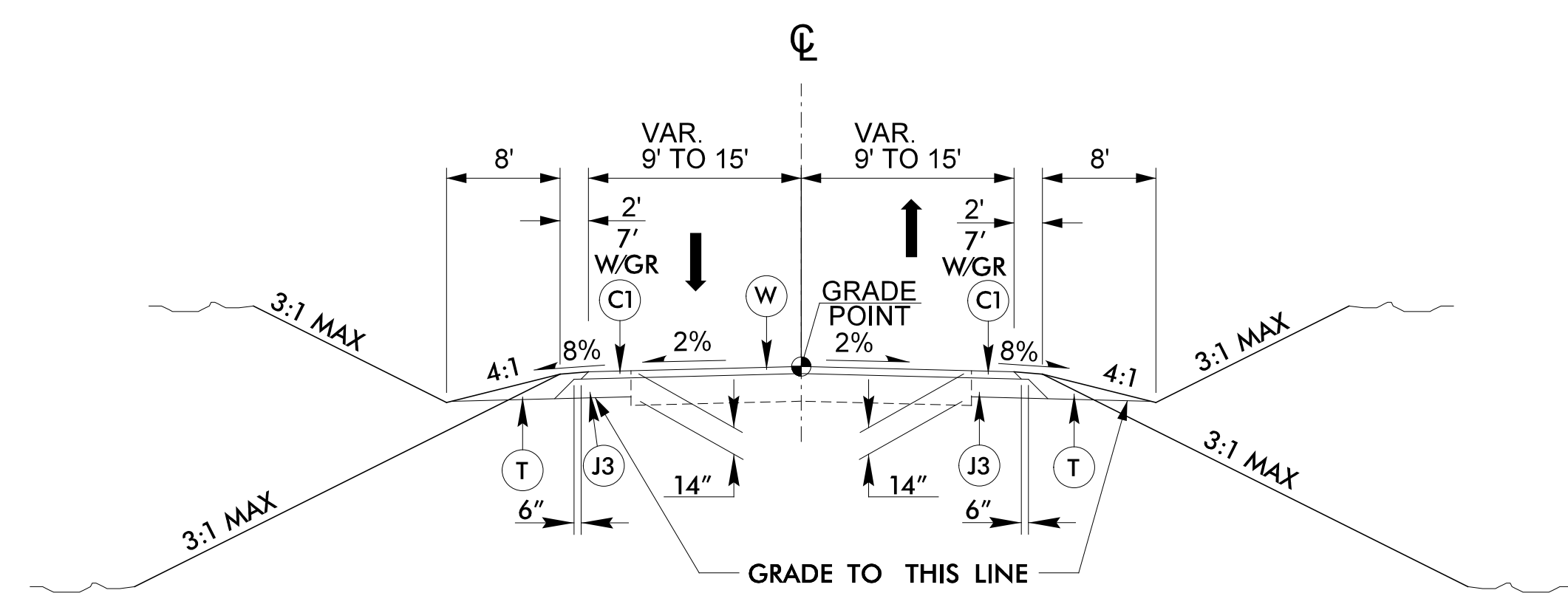
TYPICAL SECTION NO. 21
 -Y2- (AYDLETT RD) STA. 10+35.00 TO 28+08.04



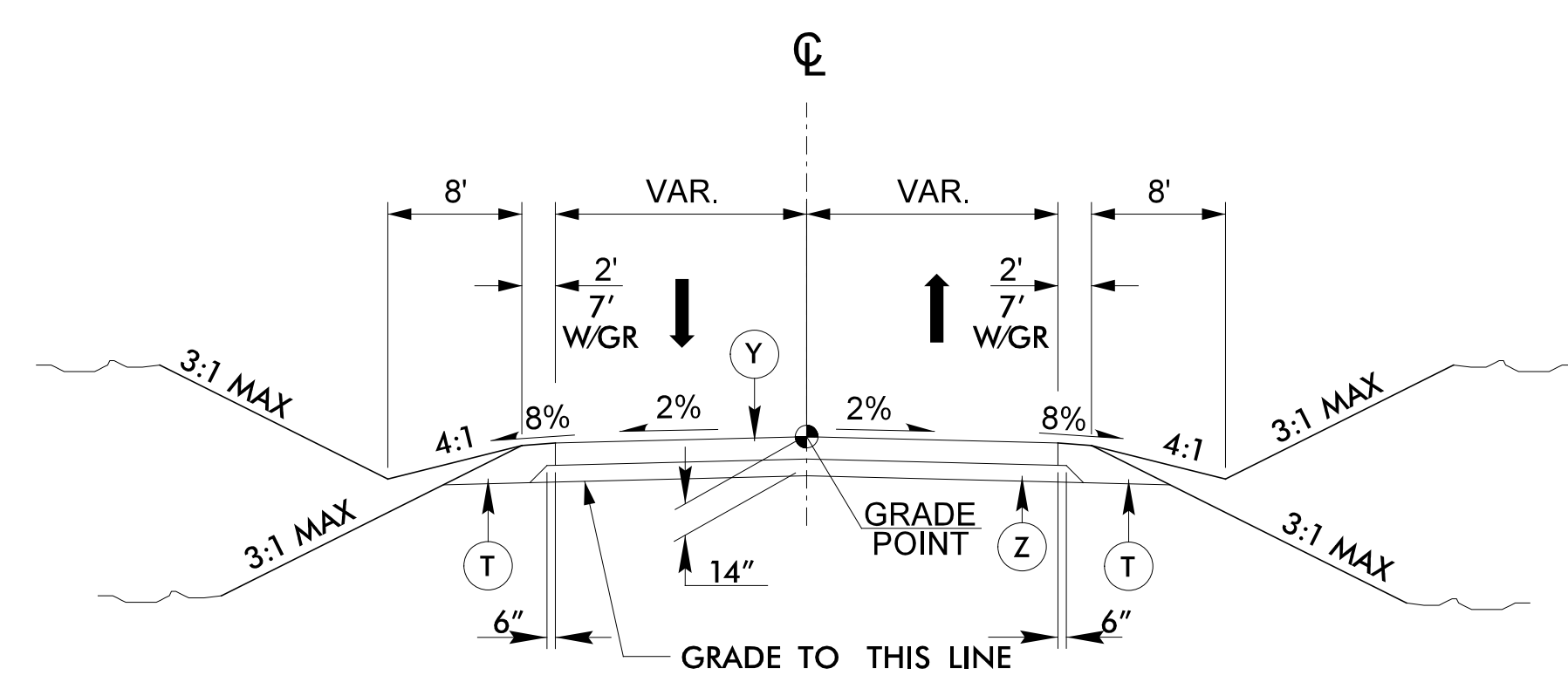
TYPICAL SECTION NO. 22
 -Y2- (AYDLETT RD) STA. 28+08.04 TO 31+75.00



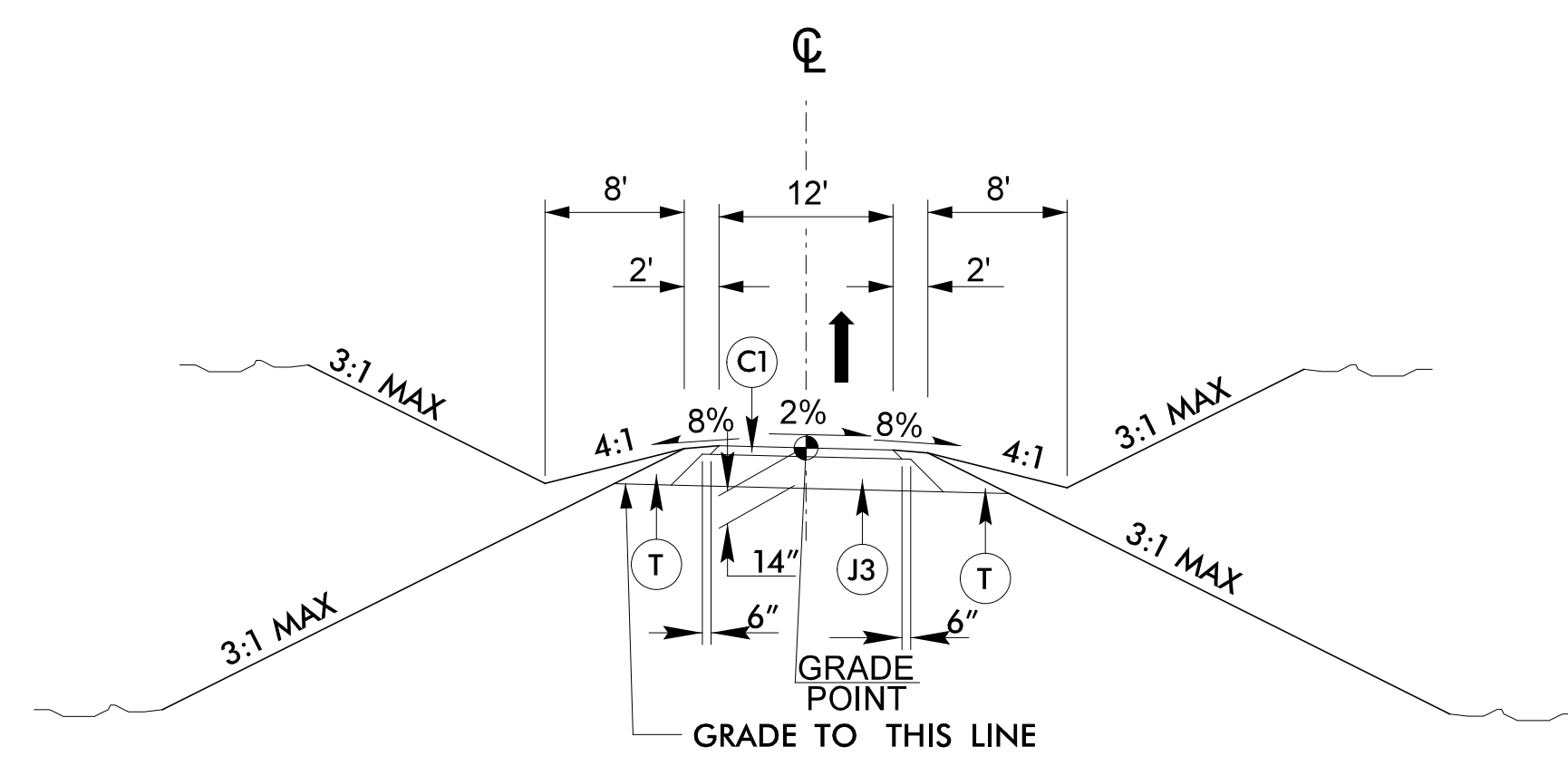
TYPICAL SECTION NO. 23
 -Y1A- STA. 10+06.00 TO 25+27.92
 -Y2A- STA. 10+11.02 TO 27+16.90
 -Y3B- STA. 10+10.00 TO 12+82.61
 -Y4C- STA. 10+32.75 TO 11+71.09



TYPICAL SECTION NO. 24
 -Y1- (WATERLILLY RD) STA. 10+35.00 TO 13+50.00
 -Y2B- (AYDLETT RD) STA. 11+00.00 TO 16+56.18
 -Y4A- (SOUTH HARBOR VIEW) STA. 10+00.00 TO 11+87.73
 -Y4A- (NORTH HARBOR VIEW) STA. 12+41.25 TO 13+50.00
 -Y4B- (OCEAN FOREST CT) STA. 10+80.00 TO 11+72.61



TYPICAL SECTION NO. 25
 PARKING LOT PORTION OF -Y2A- STA. 17+26.72 TO 19+74.16 (LT)
 -Y2A- STA. 27+16.90 TO 29+37.64



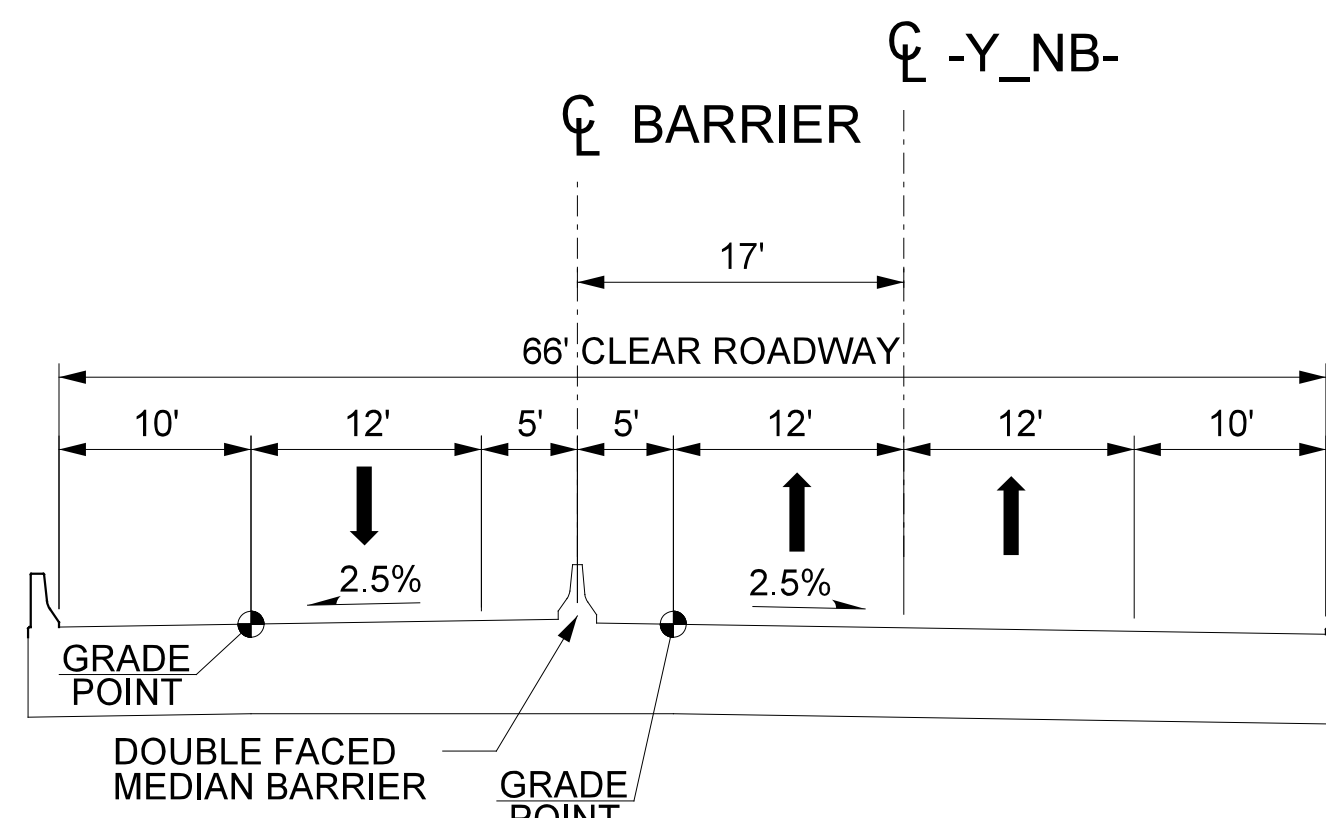
TYPICAL SECTION NO. 26
 -DRW1- STA. 10+70.00 TO 13+83.36

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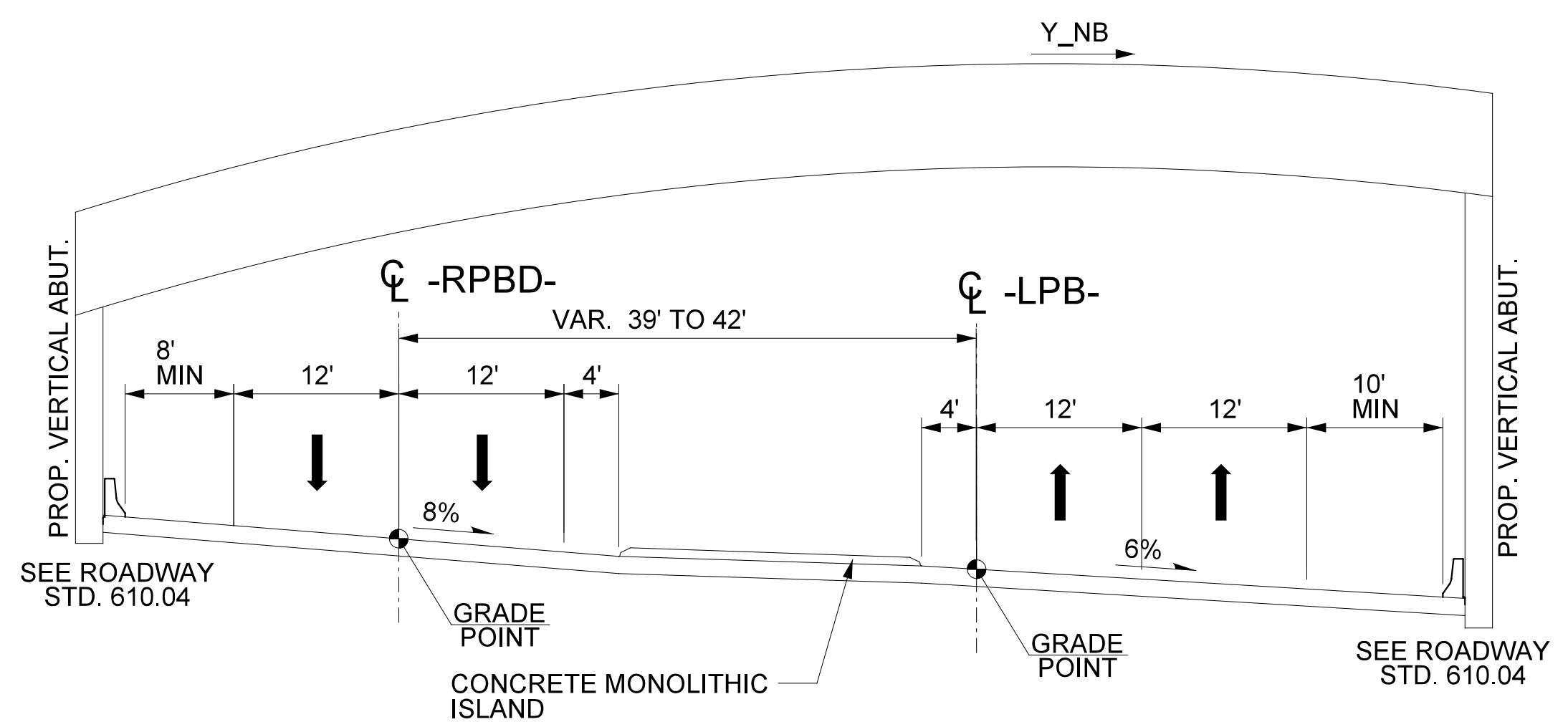
6/2/99

PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-8
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**BRIDGE AT FROM -Y_NB- STA. 27+78.62 OVER -RPBD- STA. 15+04.95
AND AT -Y_NB- STA. 28+24.01 OVER -LPB STA. 15+57.67**



STRUCTURE TYPICAL SECTION



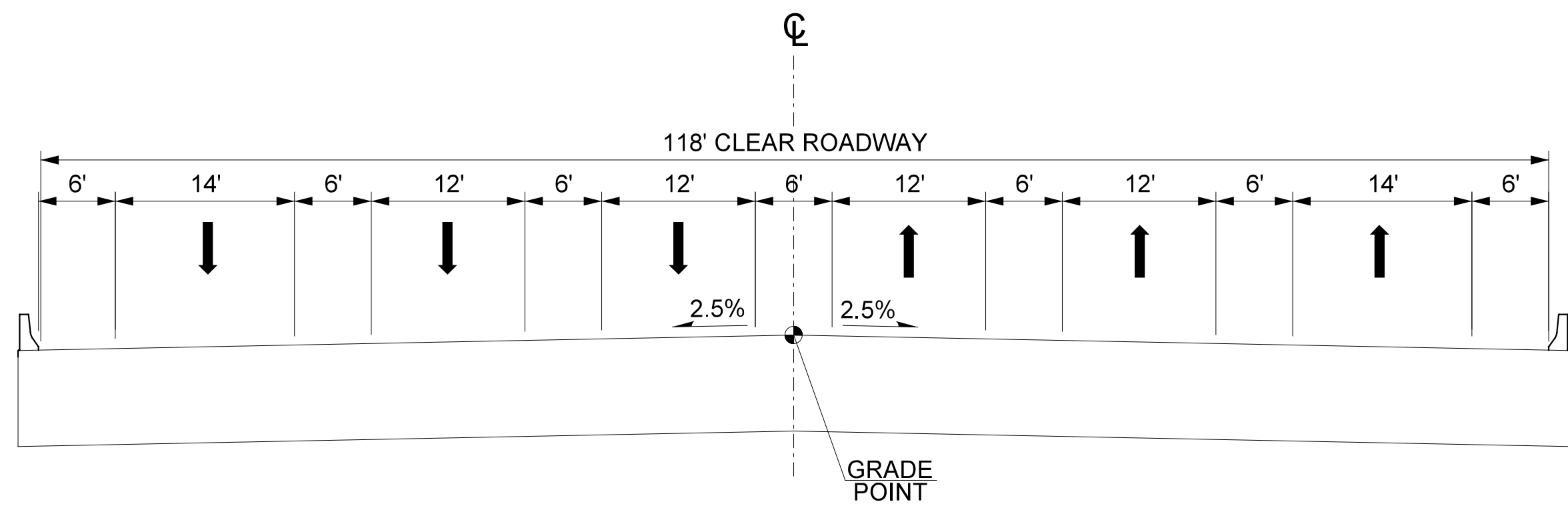
TYPICAL SECTION UNDER BRIDGE

8/3/2020
R-2576-Fig-TYP.dgn
C. DICKELLY

6/2/99

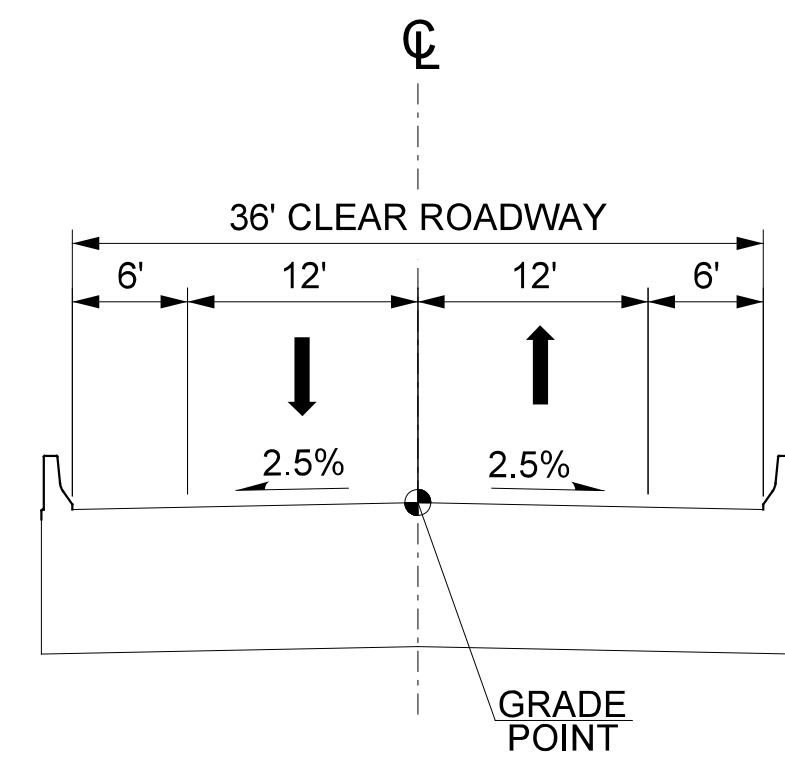
PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-9
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BRIDGE FROM -L- STA. 22+46± TO STA. 100+88± OVER MAPLE SWAMP



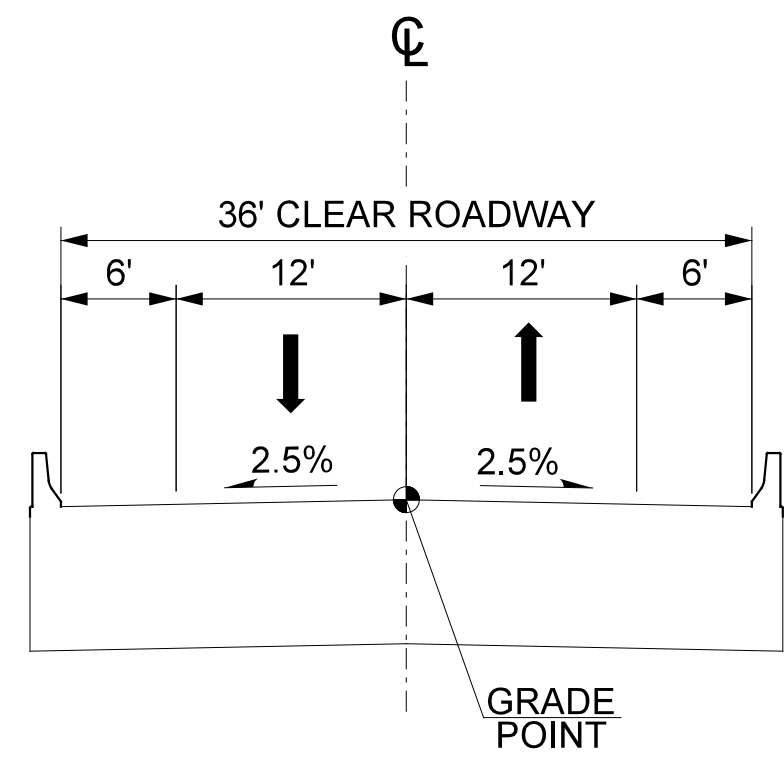
BRIDGE TYPICAL NO. 1
-L- STA. 22+45± (BEGIN BRIDGE) TO 26+00.00

TRANSITION FROM BRIDGE TYPICAL
NO. 1 TO NO. 2
AT THE FOLLOWING LOCATIONS:
-L- STA. 26+00.00 TO 33+00.00



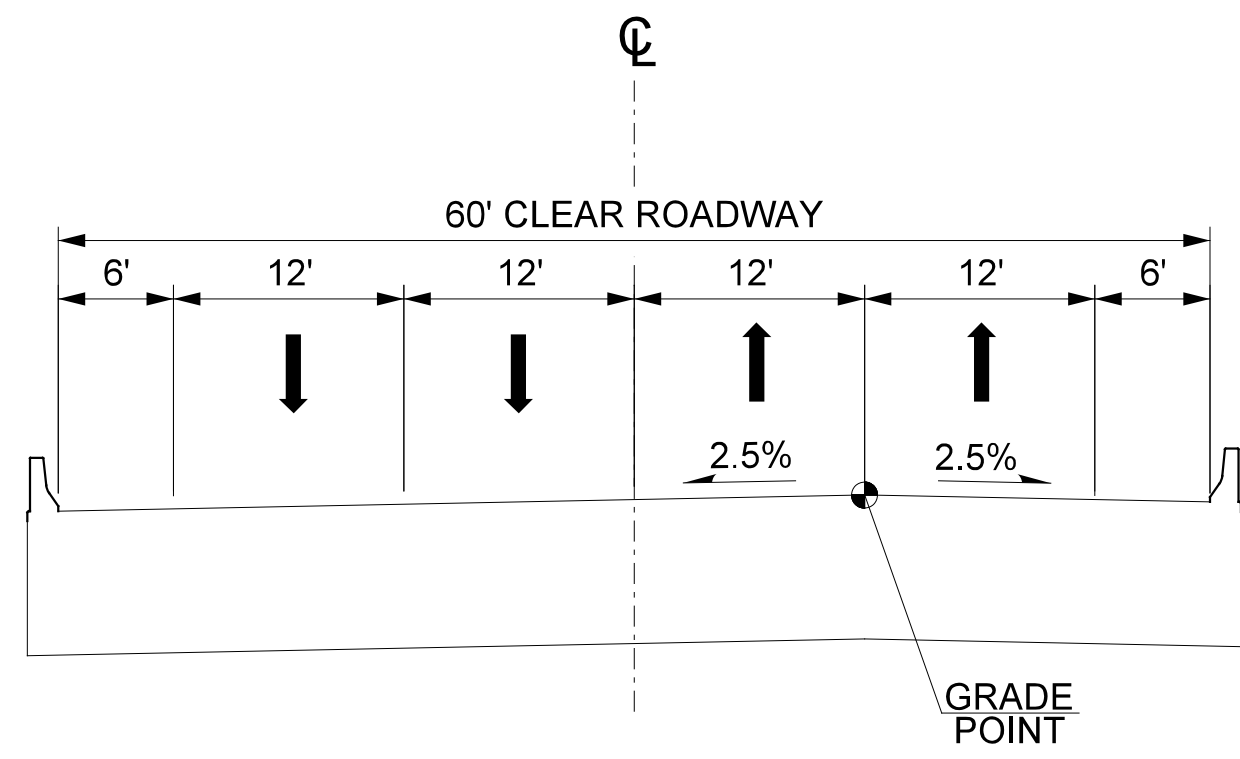
BRIDGE TYPICAL NO. 2
-L- STA. 33+00.00 TO STA. 100+89±(END BRIDGE)

BRIDGE FROM -L- STA. 118+05± TO STA. 364+20± OVER CURRITUCK SOUND AND AT -L- STA. 118+31.91 OVER -Y3- STA. 13+81.47

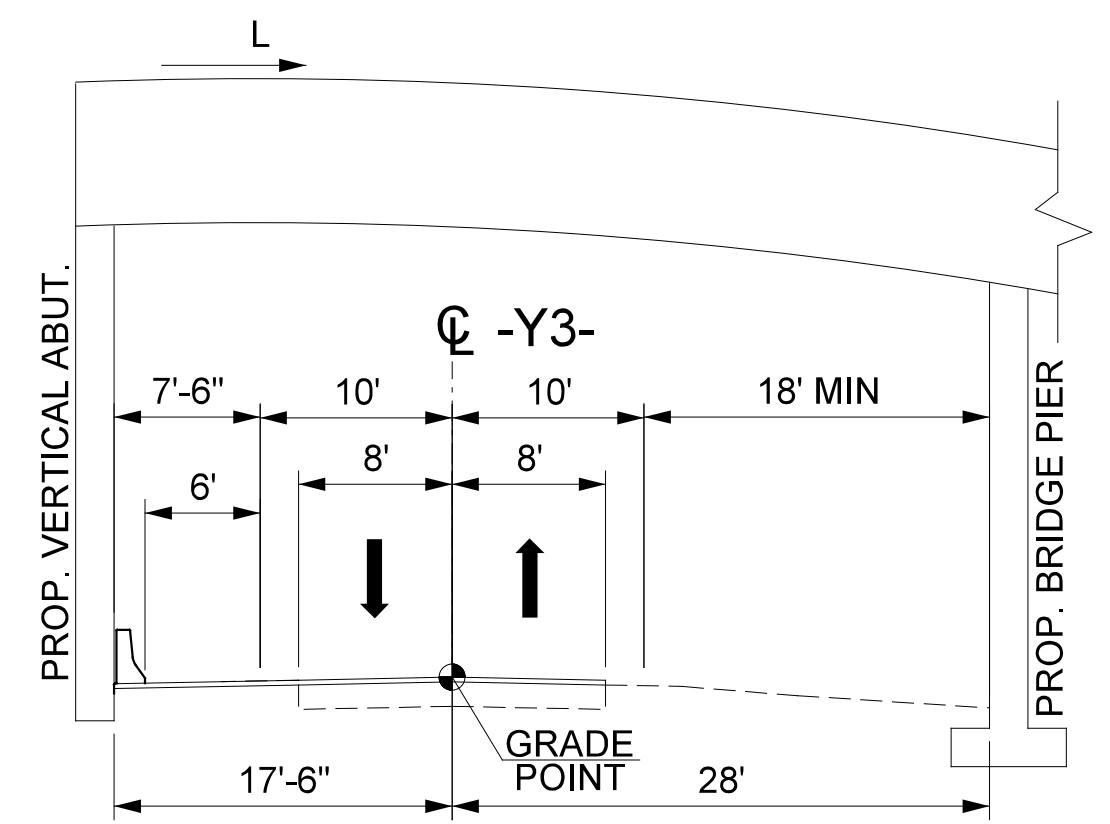


BRIDGE TYPICAL NO. 3
-L- STA. 118+05± TO 356+00.00

TRANSITION FROM BRIDGE TYPICAL
NO. 3 TO NO. 4
AT THE FOLLOWING LOCATIONS:
-L- STA. 356+00.00 TO 363+00.00



BRIDGE TYPICAL NO. 4
-L- STA. 363+00.00 TO STA. 364+20±



TYPICAL SECTION UNDER STRUCTURE

8/3/2020
R0376-F04-TYP.dgn
C. DICKLEY

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

PARCEL INDEX SHEET - R-2576

PROJ. REFERENCE NO. R-2576	SHEET NO. 3A-1
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PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4,20,21	MILDRED T. QUIDLEY
2	4	RUTH B. CRAIN
3	4	REBECCA L. WALKER
4	4	SUSIE G. SPRUILL
5	4	DAVID A. BALDWIN
6	4, 5, 6	MARCELLA R. WALKER
7	5, 6	EDWARD MIDGETT MARKERT
8	6, 7, 8	MILDRED M. MARKERT
9	8,9,10,11	J. W. JONES LUMBER CO., INC
10	9,10,11,12	PATRICIA A. PARKER
11	12	ROBERT F. JORDAN, ET UX
12	12	CHARLES G. ANGUS, ET UX
13	17,18	NCDOT
14	19	SUZANNE LEA MIDGETT TRUSTEE
15	19,20,21	JERRY W. WRIGHT, ET AL
16	4	RICHARD S. PERKINS, ET UX
17	4	CURRITUCK COUNTY
18	4	LYNN A. GAGNON
19	22,4	MILDRED M. MARKERT
20	4	BARCO AND CAGE, INC
21	4	EDWARD MIDGETT MARKERT
22	23,22	ROBERT G. YOUNG
23	23,22	EARL A. MASON, ET UX
24	23,22	MACON F. BROCK, ET UX
25	24,23	COINJOCK DEVELOPMENT COMPANY, INC
26	24,23	COINJOCK DEVELOPMENT COMPANY, INC
27	23	ALICE T. MEYER
28	23	STAR INVESTMENTS LLC
29	23	MARY L. GRIFFIN
30	23	GIDEON L. NEEDHAM, ET AL
31	11	THOMAS FRANCIS McPAUL, ET UX
32	11	JOYCE W. MULLER, ET VIR
33	25	MONTERAY SHORES OWNERS ASSO.
34	25	WILLIAM BELCHERE, et ux
35	25	MID OHIO SECURITIES CORP CUSTODIAN
36	25	ERNEST E. RICHARDSON, et ux
37	25	DOROTHY P. PATTERSON
38	25	CHRISTOPHER D. PAGE
39	25	JOHN GALLO, et ux
40	25	COROLLA BAY
41	25	BRIAN K. MALCOM
43	25	JAMES A. KING et UX
44	25	ALBERT E.SCHAUFLER, et UX
45	26,25	JAMIE GARCIA
46	26,25	DAVID L. BANKS
47	26,25	JAY KING, et UX
48	26	OWEN D. GRIFFIN, et ux
49	26	RANDY A. RHOAD, et al
50	26	BILLIE M CHUBB
51	26	ANGELA J. GREGORY, et UX
52	26	DEUTSCHE BANK TRUST CO. AMERICAS
53	26	STEPHEN J. SINCAVAGE, et ux
54	26	HARLOD L. RUSSEL, et ux
55	26	MONTERAY SHORES OWNERS ASSOC.
56	26	CYNTHIA L. FRANCIS, et vir
57	26	TODD M. BUTTERWORTH,et UX
58	26	MARK R. NEWELL, et ux
59	26	CHARLES C. ABELES
60	26	ROBERT A. WENSTROM, et ux

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
61	26	RICHARD L. GARY JR., et ux
62	26	DAVID L. HENRY
63	26	BARBARA DEAM
64	26	JOHN G. CONDON
65	26	LYNNENSTU LLC
66	26	ROBERT G. BORUM, et al
67	26	COHEN PARTNERSHIP
68	26	ALLEN BYNUM III, et ux
69	18,26	WAYNE J. STRICKLAND
70	26	KEVIN W. BENNETT, et ux
71	18,71	JASON FISH
72	18	MICHAEL P. GALLAGHER
73	18	NORTHEASTERN N. C. PROPERTIES, LLC
74	18	ROBERT D. CACERES, et ux
75	18	CS LAND HOLDING LLC
76	18	NCDOT
77	18	CS LAND HOLDING LLC
78	18	THE VILLAS AT COROLLA BAY HOA INC
79	18,27	NORTHEASTERN N. C. PROPERTIES, LLC
80	28	BUCK ISLAND ASSOC INC
81	29	THE DUCK WOODS COUNTRY CLUB, INC.
82	29,30	SOUTHERN SHORES CIVIC ASSOCIATION, INC
83	30	SOUTHERN SHORES REALTY COMPANY
84	30	SOUTHERN SHORES OWNER, LLC

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111

1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

NC License
 Number F-0159

WETHERILL ENGINEERING
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

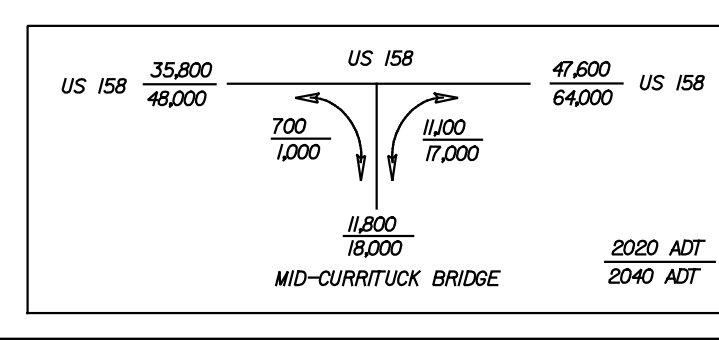
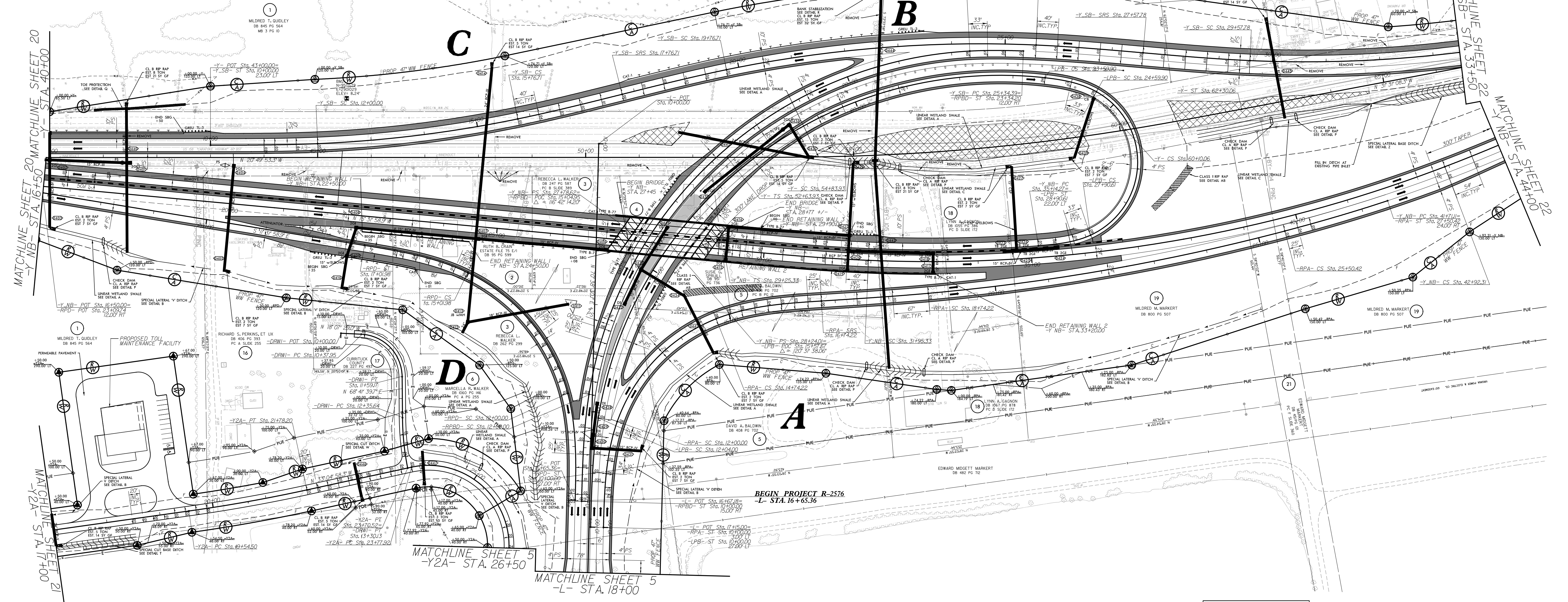
**PRELIMINARY SUMMARY OF EARTHWORK
 IN CUBIC YARDS**

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY #1					
-L- 16+65 TO 22+46	333	3,612	16,901	16,900	3,944
-Y_NB- 20+00 TO 27+51 (BEG BRIDGE)	770	--	221,550	220,780	--
-RPD- 13+00 TO 13+50	179	--	2,459	2,370	--
-RPBD- 10+00 TO 17+00	1,994		26,681	24,687	
-Y_SB- 18+00 TO 36+00	38		163,249	163,211	
TOTAL SUMMARY #1	3,314	3,612	430,931	427,949	3,944
SUMMARY #2					
-Y_NB- 28+74 (END BRIDGE) TO 46+00	2,821	--	346,648	343,827	
-LPB- 25+00 TO 27+00	--	--	20,344	20,344	
-RPA- 14+50 TO 15+00	34	--	2,102	2,068	
TOTAL SUMMARY #2	2,855	--	369,093	366,238	--
SUMMARY #3					
-Y- 14+75 TO 43+00	10,620	--	50,185	39,565	--
-Y2- 10+35 TO 31+75	4,077	--	4,996	919	--
-Y2A- 10+11 TO 29+38	962		12,879	11,917	--
-Y2B- 11+00 TO 16+56	1,182		407	--	775
-DRWI- 10+70 TO 13+83	441	--	--	----	441
TOTAL SUMMARY #3	17,282	--	68,467	52,401	1216
SUMMARY #4					
-Y- 69+00 TO 102+50	7,894	--	21,379	13,485	--
-Y1- 10+35 TO 13+50	47	--	416	369	--
-Y1A- 10+06 TO 25+28	298	--	2,423	2,125	--
TOTAL SUMMARY #4	8,239	--	24,218	15,979	--
SUMMARY #5					
-L- 100+89 (END BRIDGE) TO 118+05 (BEG BRIDGE)	2,544	2,285	77,784	75,378	2,423
-Y3- 12+50 TO 15+00	441	--	--	--	441
-Y3B- 10+10 TO 12+83	285	--	--	--	285
TOTAL SUMMARY #5	3,270	2,285	77,784	75,378	3,149
SUMMARY #6					
-L2- 364+50 (END BRIDGE) TO 369+18	132	1,342	16,095	16,095	1,474
-Y5R- 10+00 TO 14+39	471	--	10,979	10,508	--
TOTAL SUMMARY #6	603	1,342	27,074	26,603	1,474

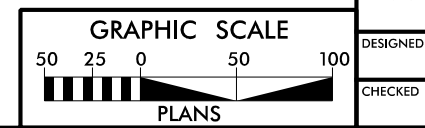
LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY #7					--
-Y4- 20+00 TO 44+85	14,880	--	5,225	--	9,655
-Y4A- 10+00 TO 11+88	104	--	3	--	101
-Y4A- 12+41 TO 13+50	41	--	1	--	40
-Y4B- 10+80 TO 11+73	16	--	3	--	13
-Y4C- 10+33 TO 11+71	1,529	--	--	--	1,529
TOTAL SUMMARY #7	16,570	--	5,231	--	11,339
SUMMARY #8					
-Y5- 10+38 TO 19+47	1,933	--	3,916	1,983	
TOTAL SUMMARY #8	1,933		3,916	1,983	
SUMMARY #9					
-Y6- 10+15 TO 13+03	143	--	60	--	83
TOTAL SUMMARY #9	143	--	60	--	83
SUMMARY #10					
-Y7- 42+50 TO 62+22	2,347	--	814	--	1,533
TOTAL SUMMARY #10	2,347	--	814	--	1,533
TOTAL SUMMARIES 1-10	56,556	7,239	1,007,407	966,350	22,738
WASTE IN LIEU OF BORROW	--	--	--	-14,897	-14,897
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT	--	--	--	47,573	--
GRAND TOTAL	55,556	--	1,007,407	999,025	7,841
SAY	55,600	--	--	999,030	7,850

6/21/00
 8/3/2020
 RCB/6-FDU--psh03B.dgn
 C. DICKLEY

-Y-		-Y-NB-		-Y-SB-		-Y-CP-		-Y-DRW-						
PI Sta. 54+10.60 Δ = 7' 34" 32.3" L = 220.00' LT = 146.67' T = 263.44' R = 4,000.00'	PI Sta. 57+47.38 Δ = 7' 32" 10.4" (LT) L = 220.00' LT = 146.67' T = 263.44' R = 4,000.00'	PI Sta. 60+83.40 Δ = 7' 34" 32.3" L = 220.00' LT = 146.67' T = 263.44' R = 4,000.00'	PI Sta. 61+05.35 Δ = 2' 51" 53.2" L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 61+51.49 Δ = 2' 51" 43.1" (LT) L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 61+82.33 Δ = 2' 51" 53.2" L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 11+33.35 Δ = 2' 26" 17.2" L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 13+14.61 Δ = 9' 11" 04.7" (LT) L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 16+43.39 Δ = 2' 26" 17.2" L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 19+10.06 Δ = 2' 26" 17.2" L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 22+46.73 Δ = 14' 10" 01.7" (RT) L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 26+24.46 Δ = 2' 26" 17.2" L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 28+90.13 Δ = 2' 26" 17.2" L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 31+79.79 Δ = 10' 41" 51.5" (LT) L = 270.00' LT = 180.00' T = 90.00'	PI Sta. 34+61.77 Δ = 2' 26" 17.2" L = 270.00' LT = 180.00' T = 90.00'
-RPA-		-LPA-		-Y2A-		-Y2A-		-Y2A-						
PI Sta. 11+34.02 Δ = 17' 54" 17.8" L = 200.00' LT = 134.02' T = 67.29' R = 160.00' SE = 0.08	PI Sta. 13+46.16 Δ = 49' 09" 52.9" (RT) L = 200.00' LT = 134.02' T = 67.29' R = 160.00' SE = 0.08	PI Sta. 15+41.51 Δ = 17' 54" 17.8" L = 200.00' LT = 134.02' T = 67.29' R = 160.00' SE = 0.08	PI Sta. 18+07.55 Δ = 1' 29" 56.6" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.05	PI Sta. 22+11.31 Δ = 9' 41" 09.3" (LT) L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.05	PI Sta. 26+56.78 Δ = 1' 29" 56.6" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.05	PI Sta. 11+33.35 Δ = 16' 22" 12.8" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08	PI Sta. 13+14.61 Δ = 49' 09" 52.9" (RT) L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08	PI Sta. 16+43.39 Δ = 16' 22" 12.8" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08	PI Sta. 19+10.06 Δ = 16' 22" 12.8" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08	PI Sta. 22+46.73 Δ = 16' 22" 12.8" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08	PI Sta. 26+24.46 Δ = 16' 22" 12.8" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08	PI Sta. 28+90.13 Δ = 16' 22" 12.8" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08	PI Sta. 31+79.79 Δ = 16' 22" 12.8" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08	PI Sta. 34+61.77 Δ = 16' 22" 12.8" L = 200.00' LT = 133.34' T = 66.67' R = 400.00' SE = 0.08
-Y2A-		-Y2A-		-Y2A-		-Y2A-		-Y2A-						
PI Sta. 11+36.13 Δ = 7' 41" 22.9" L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 19+27.01 Δ = 87' 08" 31.7" (RT) L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 24+19.71 Δ = 3' 43" 29.9" L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 27+55.36 Δ = 109' 19" 49.9" L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 28+45.15 Δ = 1' 03" 17.2" L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 20+56.40 Δ = 4' 49" 06.7" (RT) L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 25+69.83 Δ = 104' 02" 17.2" (RT) L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 11+36.13 Δ = 86' 49" 06.7" (RT) L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 12+43.03 Δ = 10' 49" 36.6" (LT) L = 200.00' LT = 136.13' T = 68.12'	PI Sta. 12+43.03 Δ = 10' 49" 36.6" (LT) L = 200.00' LT = 136.13' T = 68.12'					



SEE SHEET 20 FOR DITCH DETAILS
 SEE SHEET 31 FOR -L- PROFILE
 SEE SHEET 37 FOR -Y- PROFILE
 SEE SHEET 39 FOR -Y-SB- PROFILE
 SEE SHEET 39-40 FOR -Y-NB- PROFILE
 SEE SHEET 41-42 FOR -LPB- PROFILE
 SEE SHEET 42 FOR -RPB- PROFILE
 SEE SHEET 43 FOR -RPA- PROFILE
 SEE SHEET 44 FOR -Y2A- PROFILE
 SEE SHEET 46 FOR -Y2A- PROFILE
 SEE SHEET 46 FOR -Y2A- PROFILE



LOCATION: MID-CURRUCK BRIDGE AT US 158 (1-4)	TP NO.:	COUNTY:
DESIGNED BY:	CHECKED BY:	DATE:

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

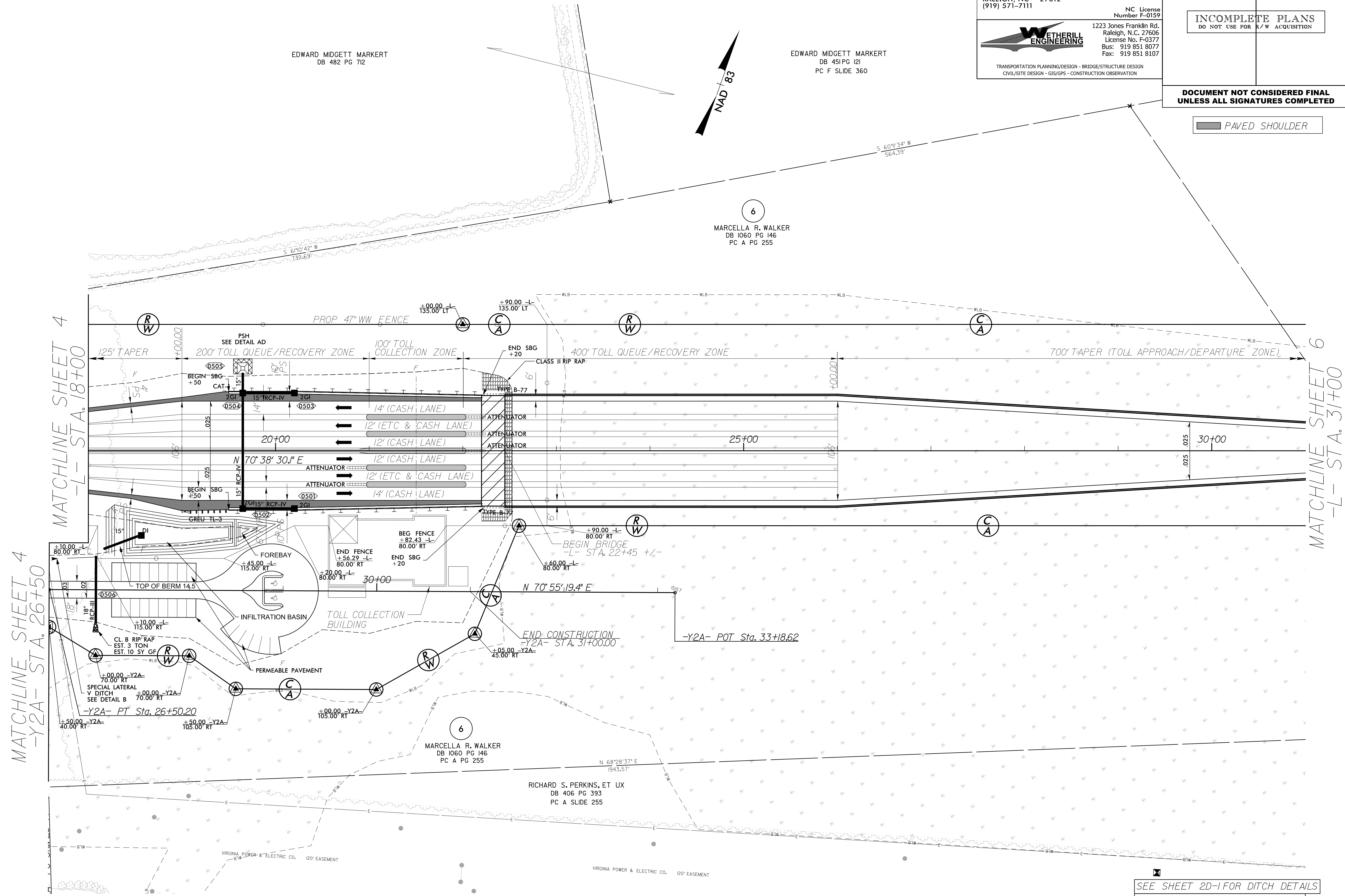
PROJECT REFERENCE NO. SHEET NO.

R-2576 5

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



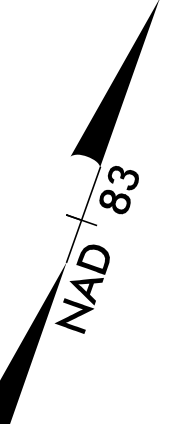
MATCHLINE SHEET 4
-L- STA. 18+00

MATCHLINE SHEET 4
-Y2A- STA. 26+50

MATCHLINE SHEET 6
-L- STA. 31+00

EDWARD MIDGETT MARKERT
DB 482 PG 712

EDWARD MIDGETT MARKERT
DB 451 PG 121
PC F SLIDE 360



6
MARCELLA R. WALKER
DB 1060 PG 146
PC A PG 255

RICHARD S. PERKINS, ET UX
DB 406 PG 393
PC A SLIDE 255

SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 31 FOR -L- PROFILE
SEE SHEET 47 FOR -Y2A- PROFILE

8/3/2020
R3376-Fdu--psh05.dgn
C. DICKLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

6

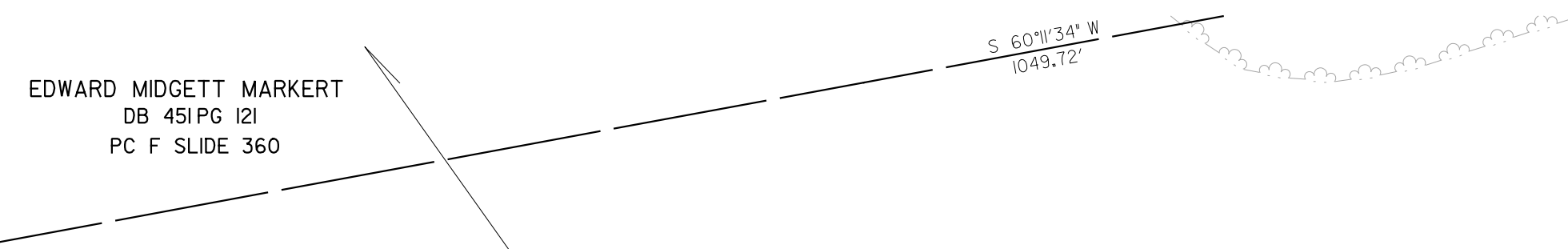
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

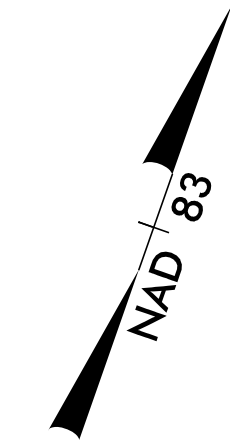
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER



EDWARD MIDGETT MARKERT
DB 451 PG 121
PC F SLIDE 360



7

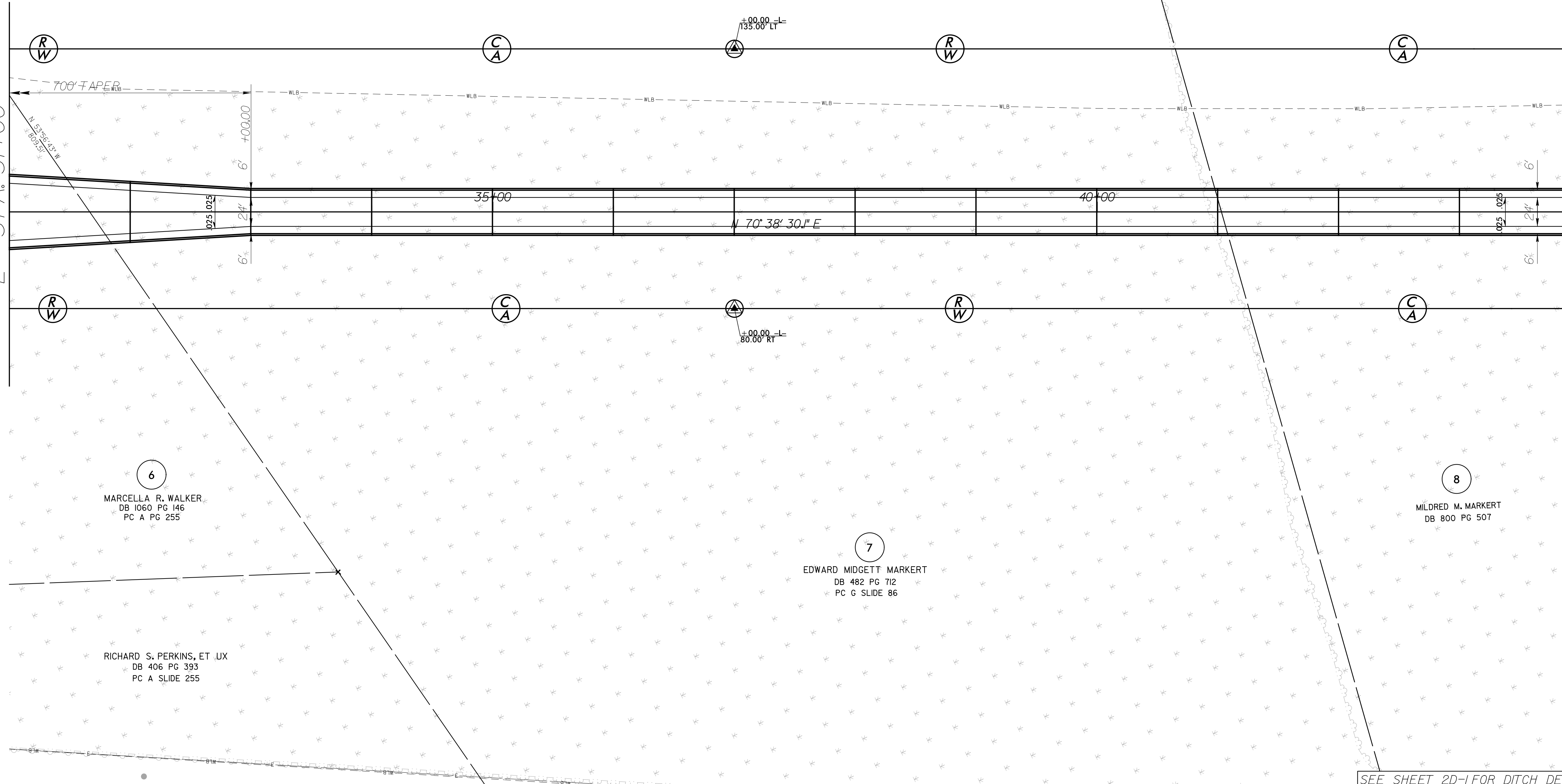
EDWARD MIDGETT MARKERT
DB 482 PG 712
PC G SLIDE 86

8

MILDRED M. MARKERT
DB 800 PG 507

MATCHLINE SHEET 5
-L- STA. 31+00

MATCHLINE SHEET 7
-L- STA. 44+00



R/W

C/A

R/W

C/A

R/W

C/A

R/W

C/A

6

MARCELLA R. WALKER
DB 1060 PG 146
PC A PG 255

7

EDWARD MIDGETT MARKERT
DB 482 PG 712
PC G SLIDE 86

8

MILDRED M. MARKERT
DB 800 PG 507

RICHARD S. PERKINS, ET. UX
DB 406 PG 393
PC A SLIDE 255

SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 32 FOR -L- PROFILE

8/3/2020
R:\2016\16-0000\16-0000-0000-0000.dgn
C:\CADD\LE

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LOCHNER

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NC License
Number F-0159



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

7

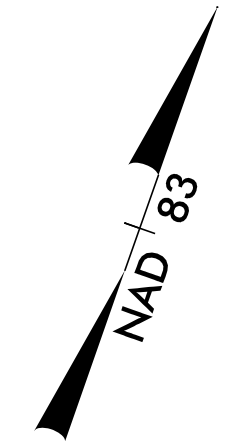
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER



8

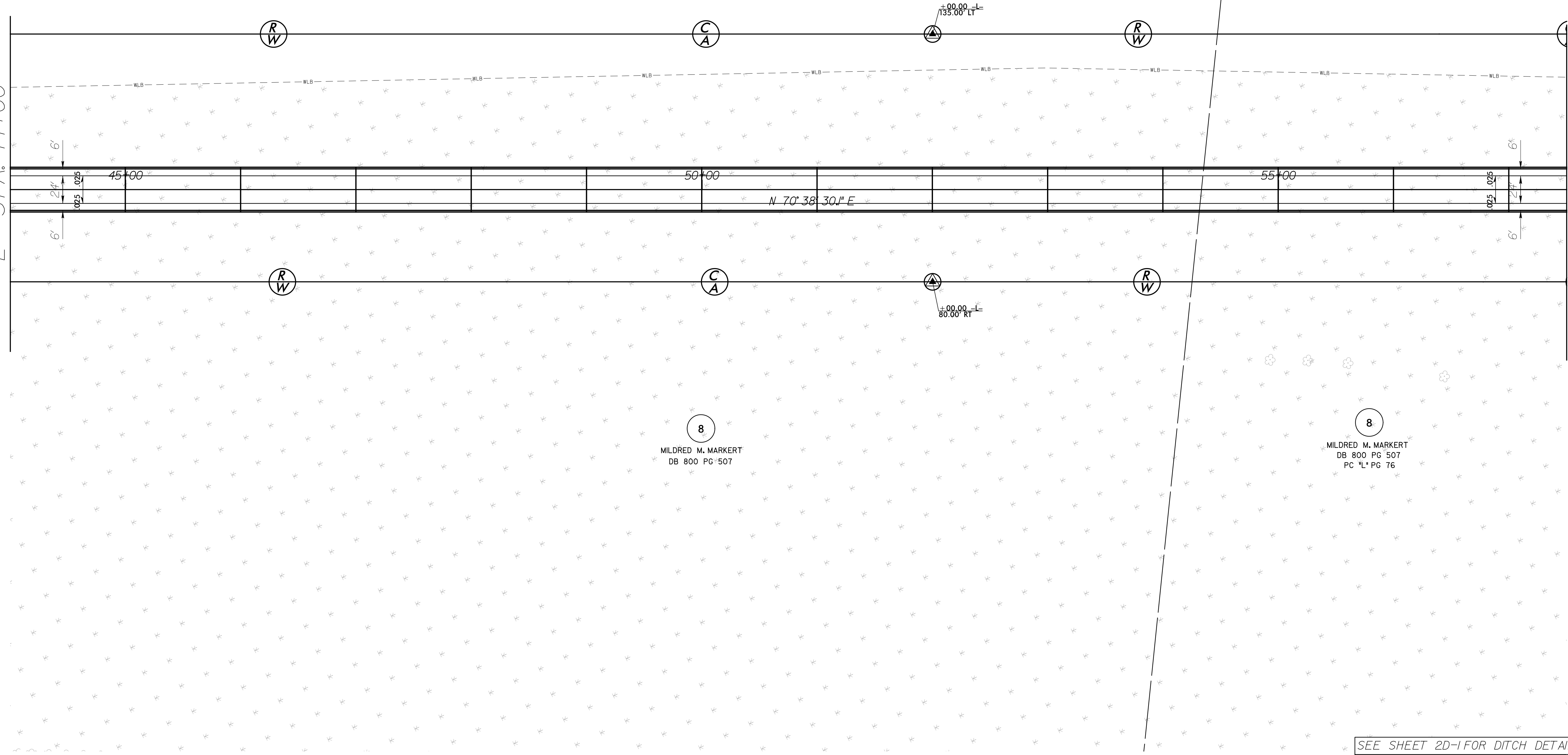
MILDRED M. MARKERT
DB 800 PG 507

8

MILDRED M. MARKERT
DB 800 PG 507
PC *L* PG 76

MATCHLINE SHEET 6
-L- STA. 44+00

MATCHLINE SHEET 8
-L- STA. 57+50



8

MILDRED M. MARKERT
DB 800 PG 507

8

MILDRED M. MARKERT
DB 800 PG 507
PC *L* PG 76

SEE SHEET 2D-I FOR DITCH DETAILS
SEE SHEET 32 FOR -L- PROFILE

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R0376-Fdu-psh07.dgn
C. COCKELEY

6/2/99

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NC License
Number F-0159



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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

8

ROADWAY DESIGN
ENGINEER

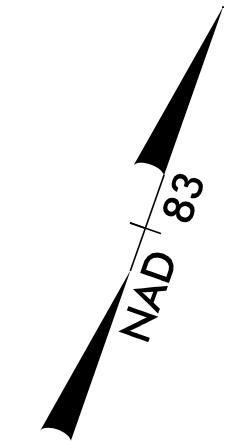
PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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

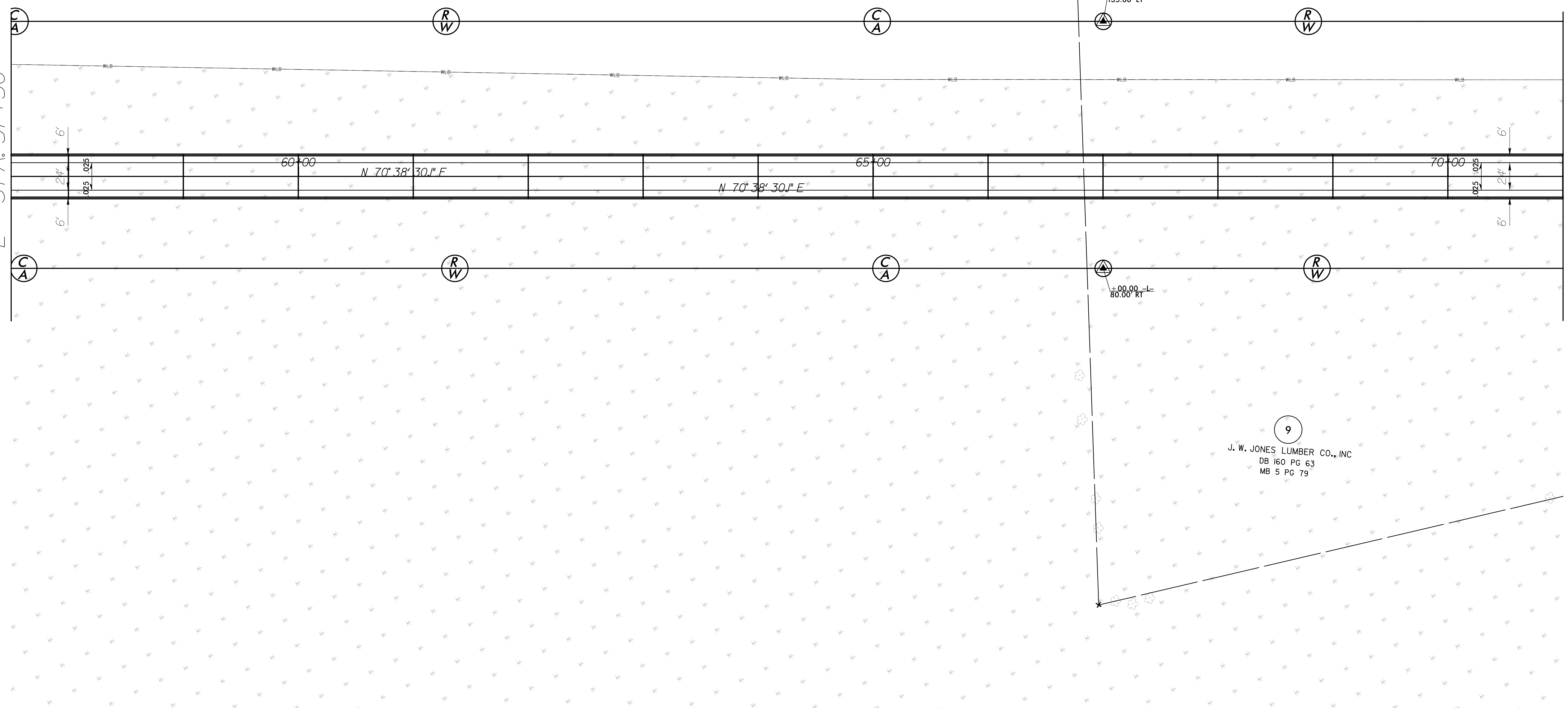
PAVED SHOULDER

8
MILDRED M. MARKERT
DB 800 PG 507
PC "L" PG 76



MATCHLINE SHEET 7
-L- STA. 57+50

MATCHLINE SHEET 9
-L- STA. 71+00



9
J. W. JONES LUMBER CO., INC
DB 160 PG 63
MB 5 PG 79

SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 33 FOR -L- PROFILE

8/3/2020
R6276-Fdu-psh08.dgn
C. DICKLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

9

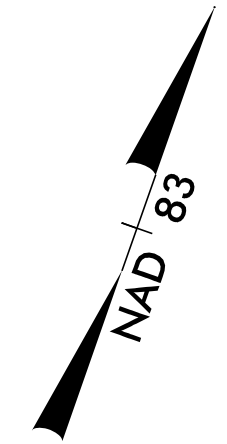
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER

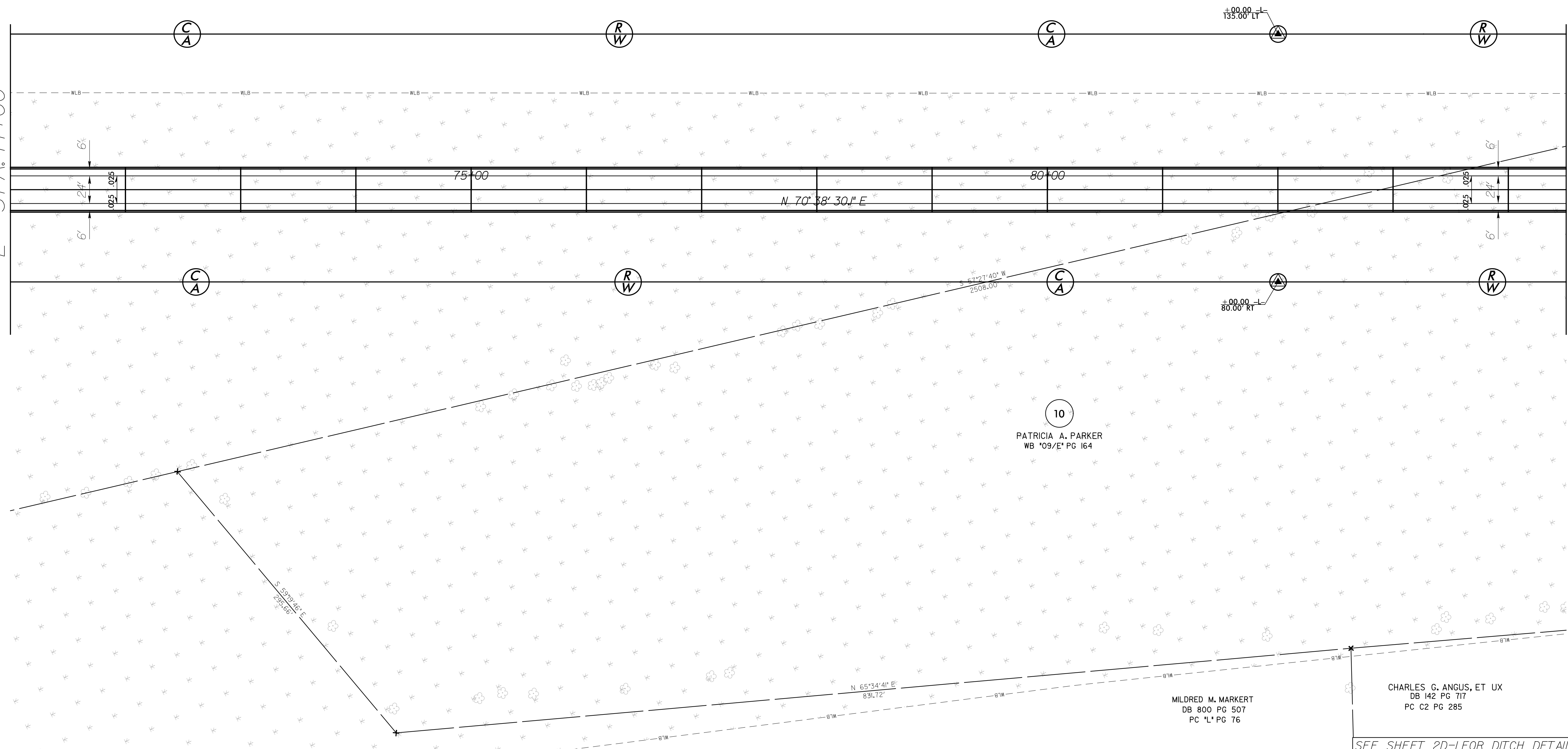


9

J. W. JONES LUMBER CO., INC
DB 160 PG 63
MB 5 PG 79

MATCHLINE SHEET 8
-L- STA. 71+00

MATCHLINE SHEET 10
-L- STA. 84+50



10

PATRICIA A. PARKER
WB '09/E' PG 164

MILDRED M. MARKERT
DB 800 PG 507
PC 'L' PG 76

CHARLES G. ANGUS, ET UX
DB 142 PG 717
PC C2 PG 285

SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 33 FOR -L- PROFILE

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R6276-Fdu-psh09.dgn
C. DICKLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
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RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
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Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

10

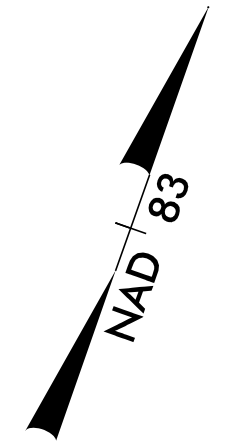
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

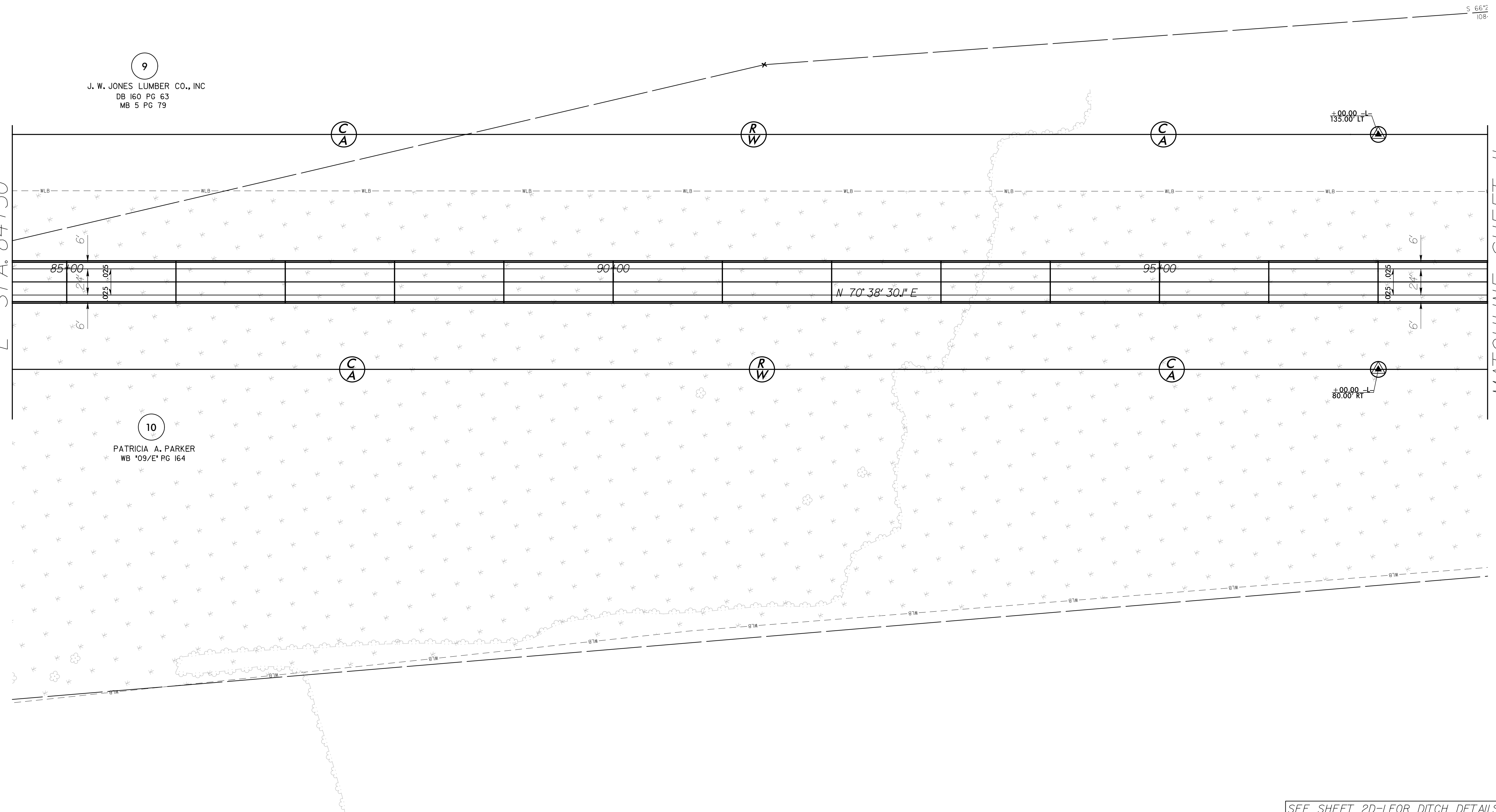
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER



MATCHLINE SHEET 9
-L- STA. 84+50

MATCHLINE SHEET 11
-L- STA. 98+00



9
J. W. JONES LUMBER CO., INC
DB 160 PG 63
MB 5 PG 79

10
PATRICIA A. PARKER
WB '09/E' PG 164

+00.00 -L
135.00 LT

+00.00 -L
80.00 RT

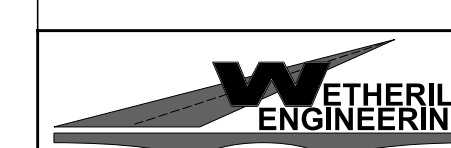
SEE SHEET 2D-I FOR DITCH DETAILS
SEE SHEET 34 FOR -L- PROFILE

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R6376-Fdu-psh10.dgn
C. COCKELEY

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LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111



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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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Number F-0159

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

PROJECT REFERENCE NO. SHEET NO.

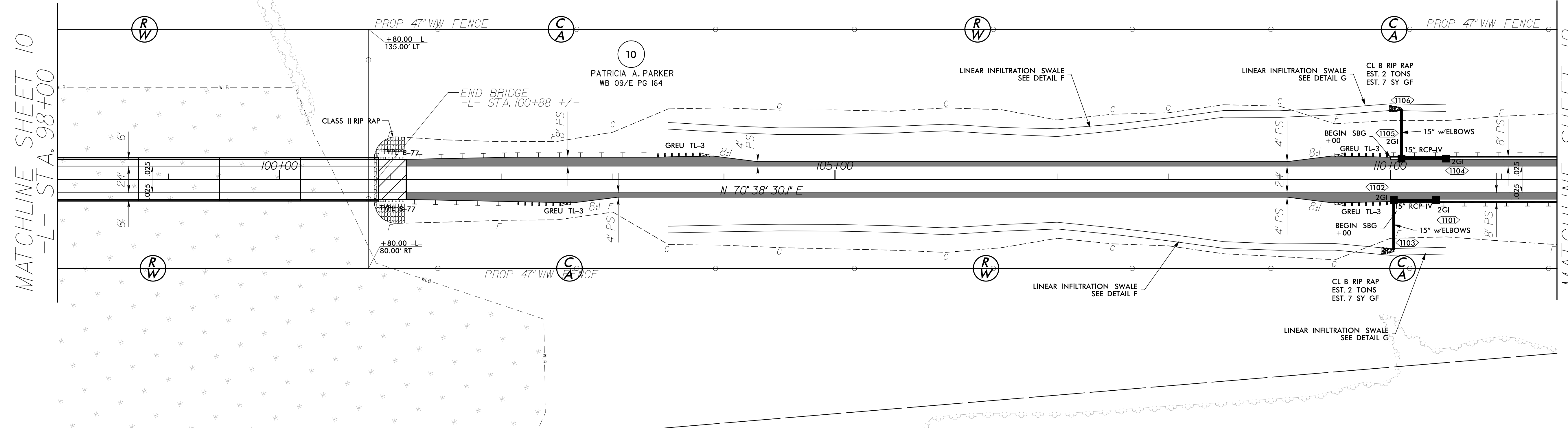
R-2576 II

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS

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



SEE SHEET 2D-1 FOR DITCH DETAILS
 SEE SHEET 47 FOR -Y3B- PROFILE
 SEE SHEET 34 FOR -L- PROFILE

8/3/2020
 R. G. F. - psh11.dgn
 C. COCKLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 12

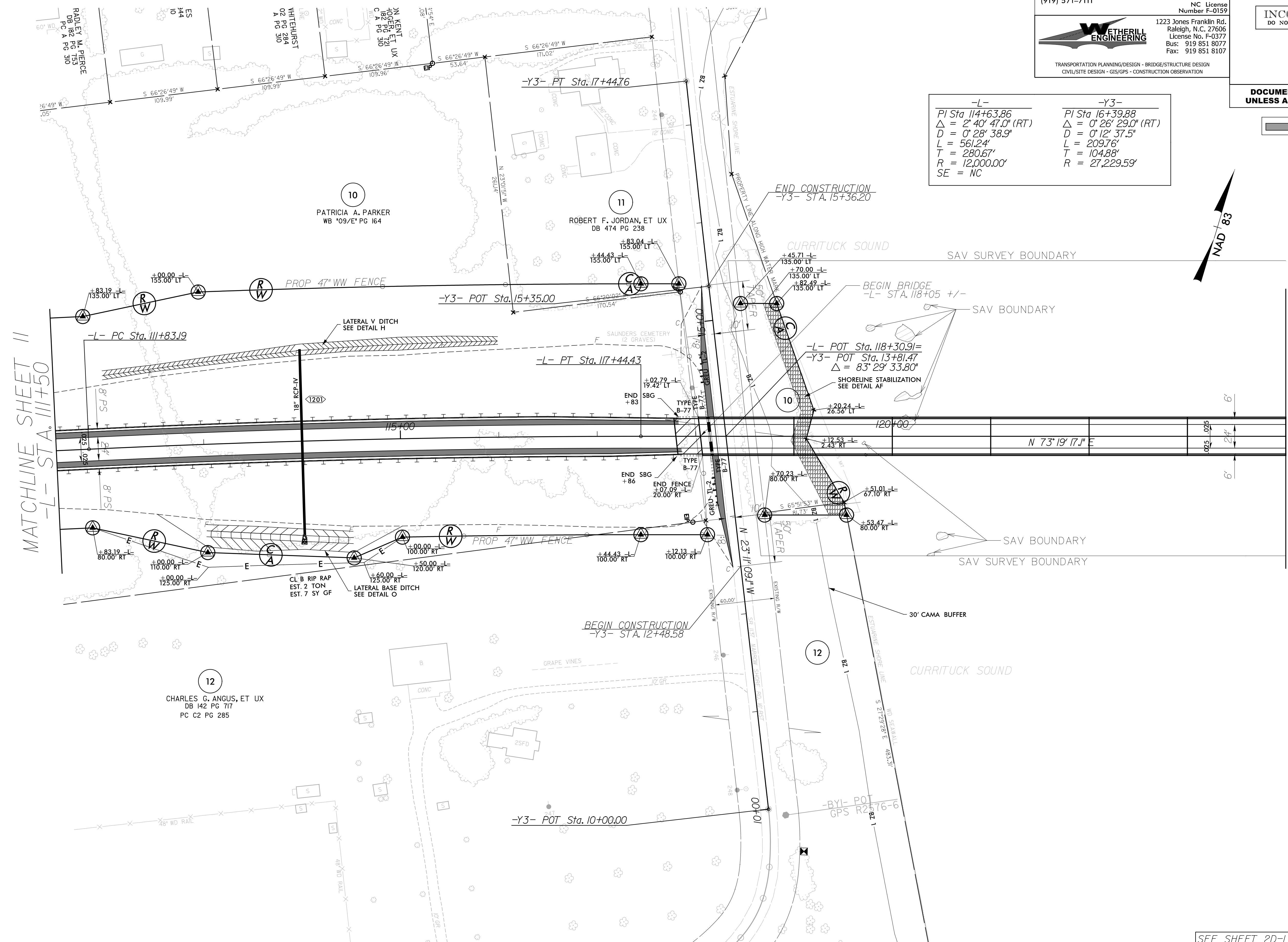
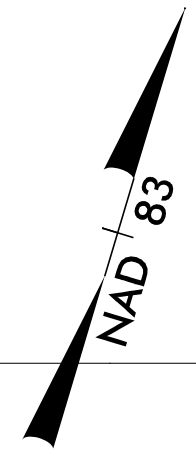
ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



-L-	-Y3-
PI Sta 114+63.86	PI Sta 16+39.88
$\Delta = 2^{\circ} 40' 47.0''$ (RT)	$\Delta = 0^{\circ} 26' 29.0''$ (RT)
D = 0' 28' 38.9"	D = 0' 12' 37.5"
L = 561.24'	L = 209.76'
T = 280.67'	T = 104.88'
R = 12,000.00'	R = 27,229.59'
SE = NC	



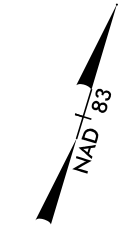
MATCHLINE SHEET 11
-L- STA. 111+50

MATCHLINE SHEET 13
-L- STA. 124+00

SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 35 FOR -L- PROFILE
SEE SHEET 47 FOR -Y3- PROFILE

8/3/2020
R. G. F. - psh12.dgn
C. COCKLEY

NO.	DESCRIPTION



LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919) 273-7111

NC License
 Number E-2576

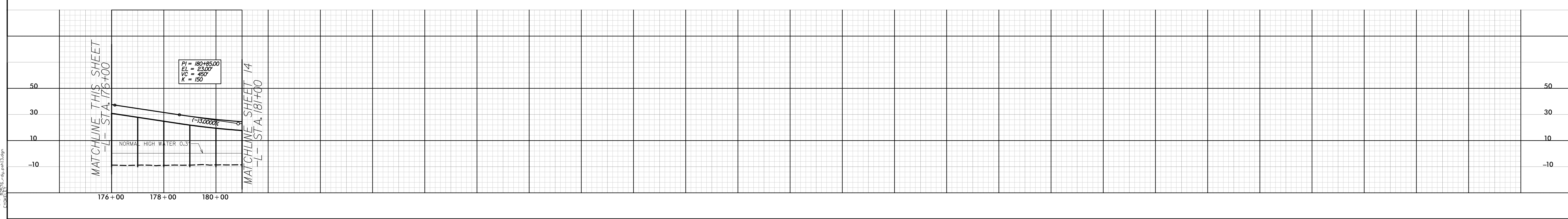
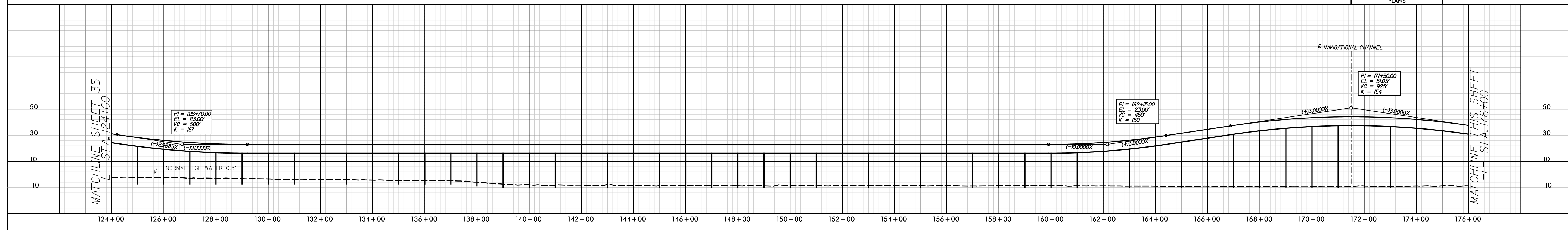
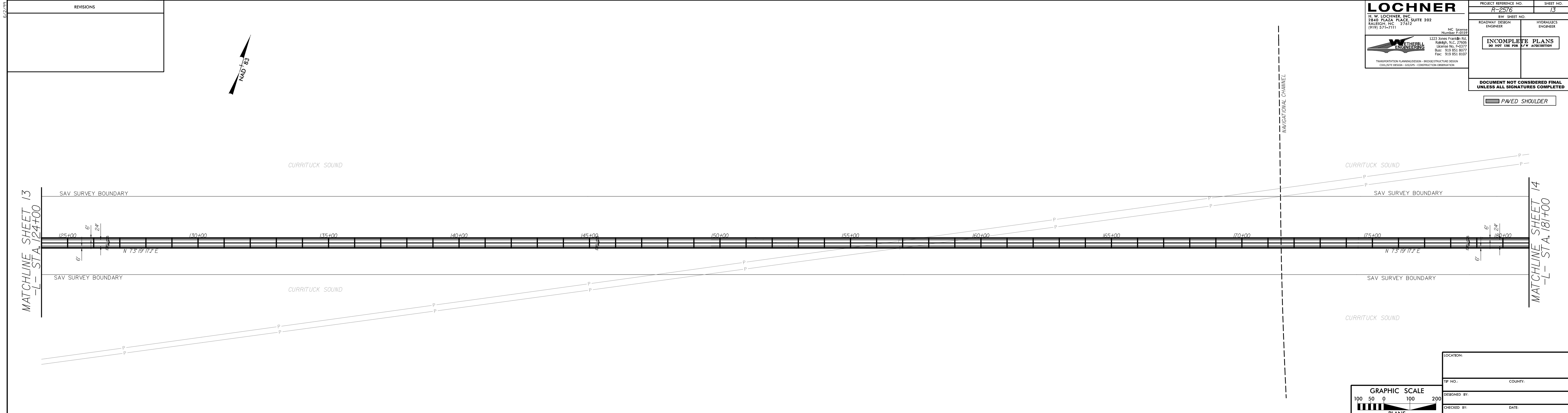
323 South Franklin Rd.
 Raleigh, N.C. 27605
 Phone: (919) 851-8077
 Fax: (919) 851-8100

WETHERILL
 ENGINEERS
 TRANSPORTATION MANAGEMENT • INFRASTRUCTURE DESIGN
 QUALITY DESIGN • DESIGN • CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	R-2576	SHEET NO.	13
ROW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		INCOMPLETE PLANS	BY NOT THE FIVE (5) A. APPROVED
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

MATCHLINE SHEET 13
-L- STA. 124+00

MATCHLINE SHEET 14
-L- STA. 181+00



B:\13\2576\Drawings\plan13.dwg
11/11/11


NO.	DESCRIPTION

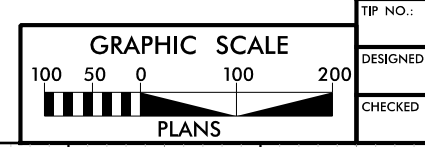
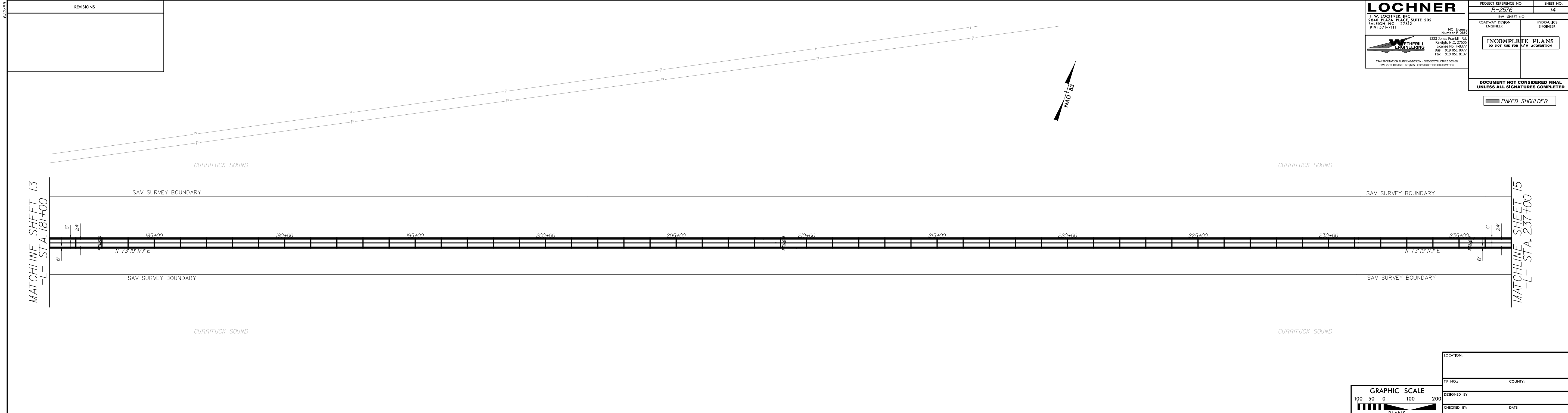
LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919) 273-2711

NC License
 Number: 2-2576

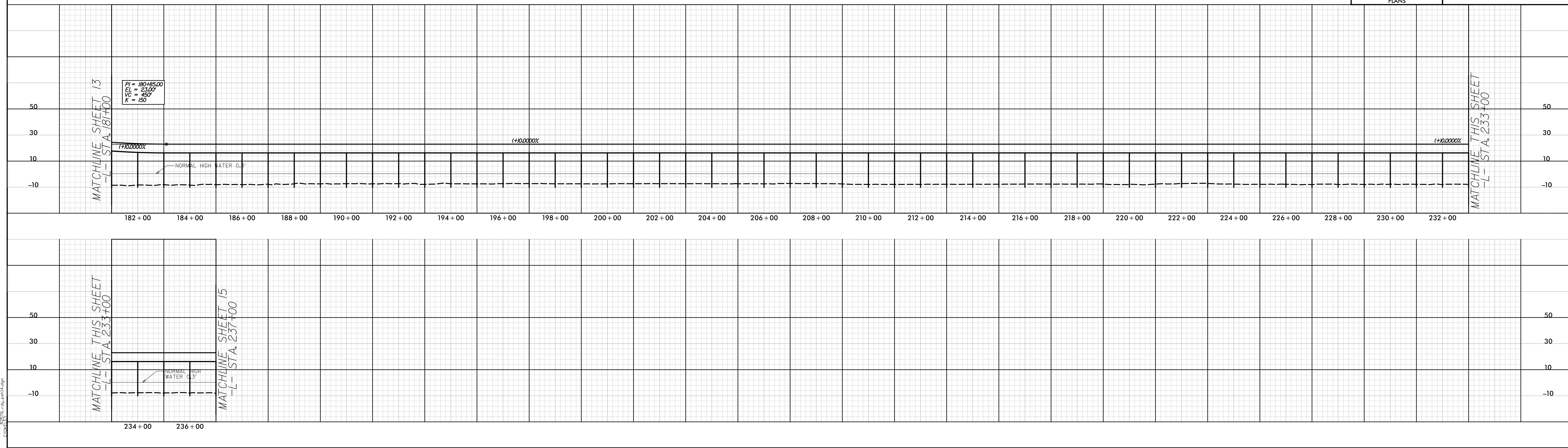
1333 S. HERRING RD.
 RALEIGH, N.C. 27605
 GEORGIA NO. 40277
 BUS: 919 851 8077
 FAX: 919 851 8100

TRANSPORTATION PLANNING/DESIGN • INFRASTRUCTURE DESIGN
 QUALITY DESIGN • DESIGN • CONSTRUCTION ADMINISTRATION

PROJECT REFERENCE NO.	2-2576	SHEET NO.	14
ROW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		INCOMPLETE PLANS	NO NOT FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
			



LOCATION:	
TP NO.:	COUNTY:
DESIGNED BY:	
CHECKED BY:	DATE:



B:\2025\2576\2576.dwg

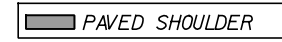
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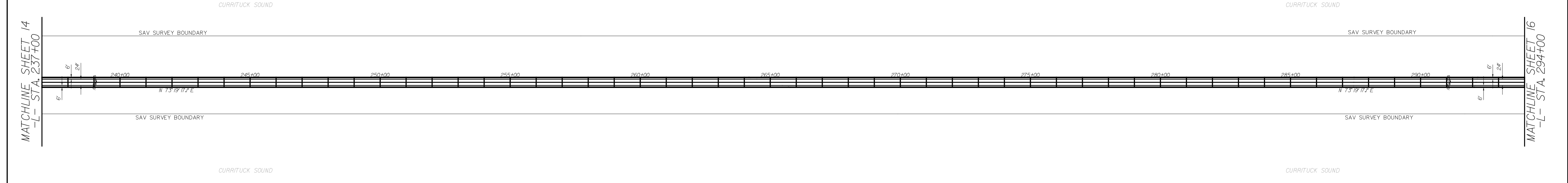
LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919) 273-7111

NC License
 Number: 2-2576

1333 S. HARRIS ROAD
 RALEIGH, N.C. 27605
 GEORGIA: (404) 487-1277
 BLUE: (919) 851-8077
 FAX: (919) 851-8100

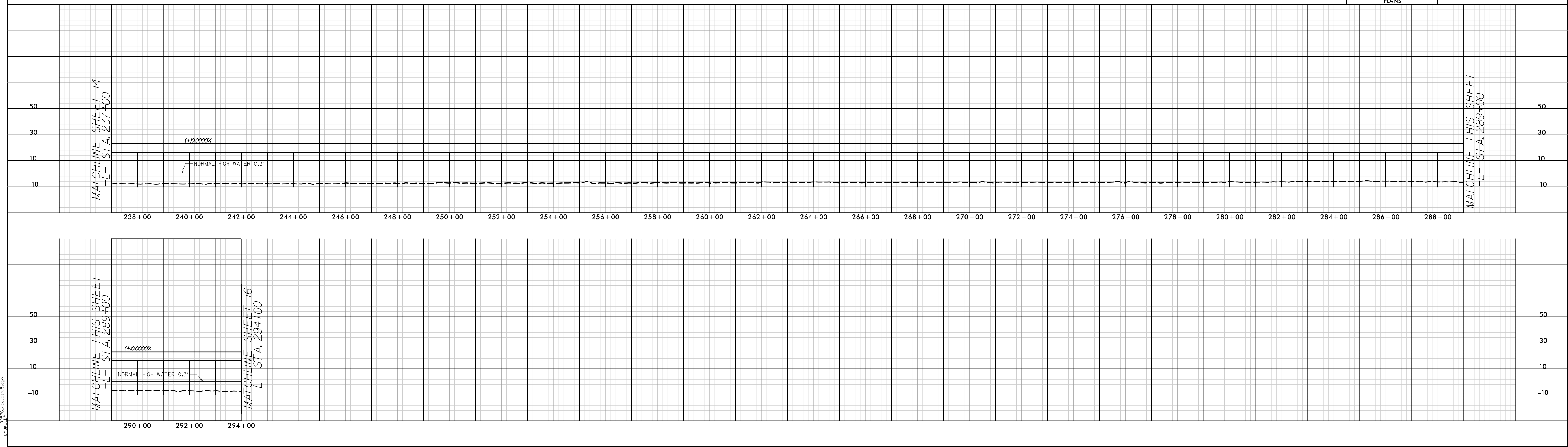
TRANSPORTATION PLANNING/DESIGN • INFRASTRUCTURE DESIGN
 QUALITY DESIGN • DESIGN • CONSTRUCTION ADMINISTRATION

PROJECT REFERENCE NO.	R-2576	SHEET NO.	15
ROW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		INCOMPLETE PLANS	NO NOT FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
			



GRAPHIC SCALE
 100 50 0 100 200
 PLANS

LOCATION: _____
 TP NO.: _____ COUNTY: _____
 DESIGNED BY: _____
 CHECKED BY: _____ DATE: _____



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NO.	DATE	DESCRIPTION

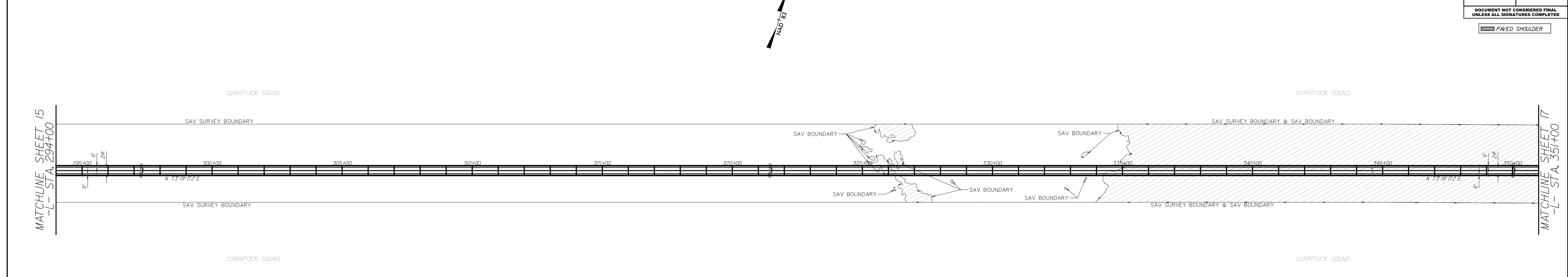
LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919) 273-7111

NC License
 Number: 2-2576

1333 S. HARRIS ROAD
 RALEIGH, N.C. 27605
 GEORGIA No. 00277
 Blue: 919 851 8077
 Fax: 919 851 8100

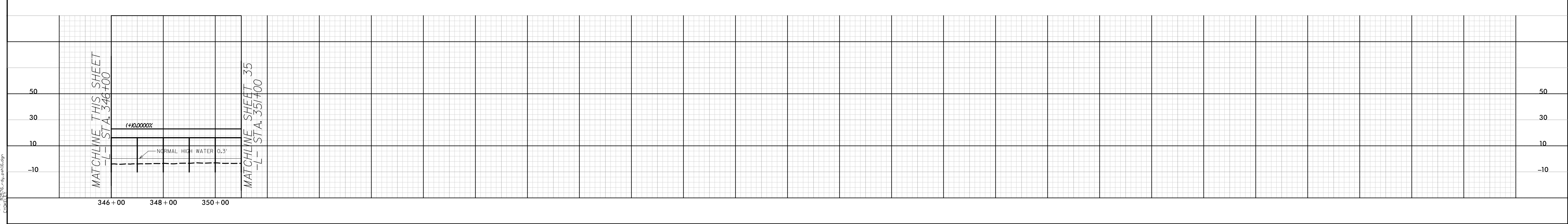
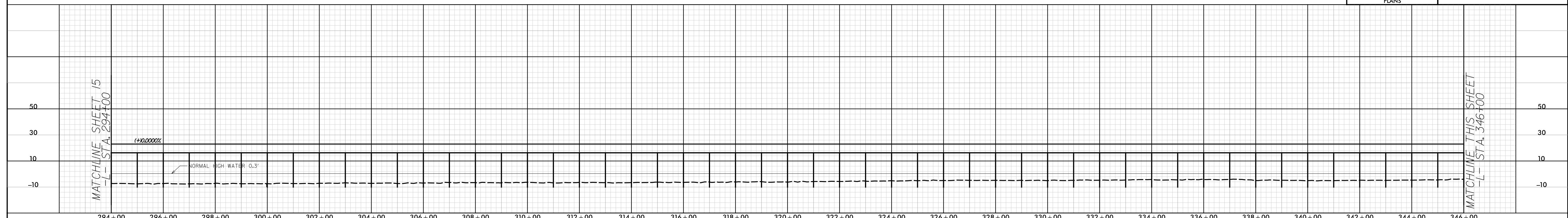
TRANSPORTATION MANAGEMENT • INFRASTRUCTURE DESIGN
 QUALITY DESIGN • DESIGN • CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	R-2576	SHEET NO.	16
ROW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		INCOMPLETE PLANS	NO NOT FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
<input type="checkbox"/> PAVED SHOULDER			



GRAPHIC SCALE
 100 50 0 100 200
 PLANS

LOCATION: _____
 TP NO.: _____ COUNTY: _____
 DESIGNED BY: _____
 CHECKED BY: _____ DATE: _____



B:\2025\2576\2576.dwg

6/2/99

LOCHNER

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2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

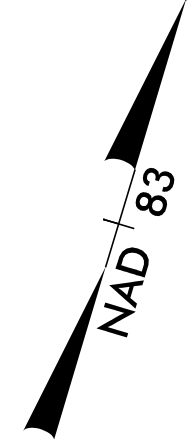
PROJECT REFERENCE NO. SHEET NO.
R-2576 17

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

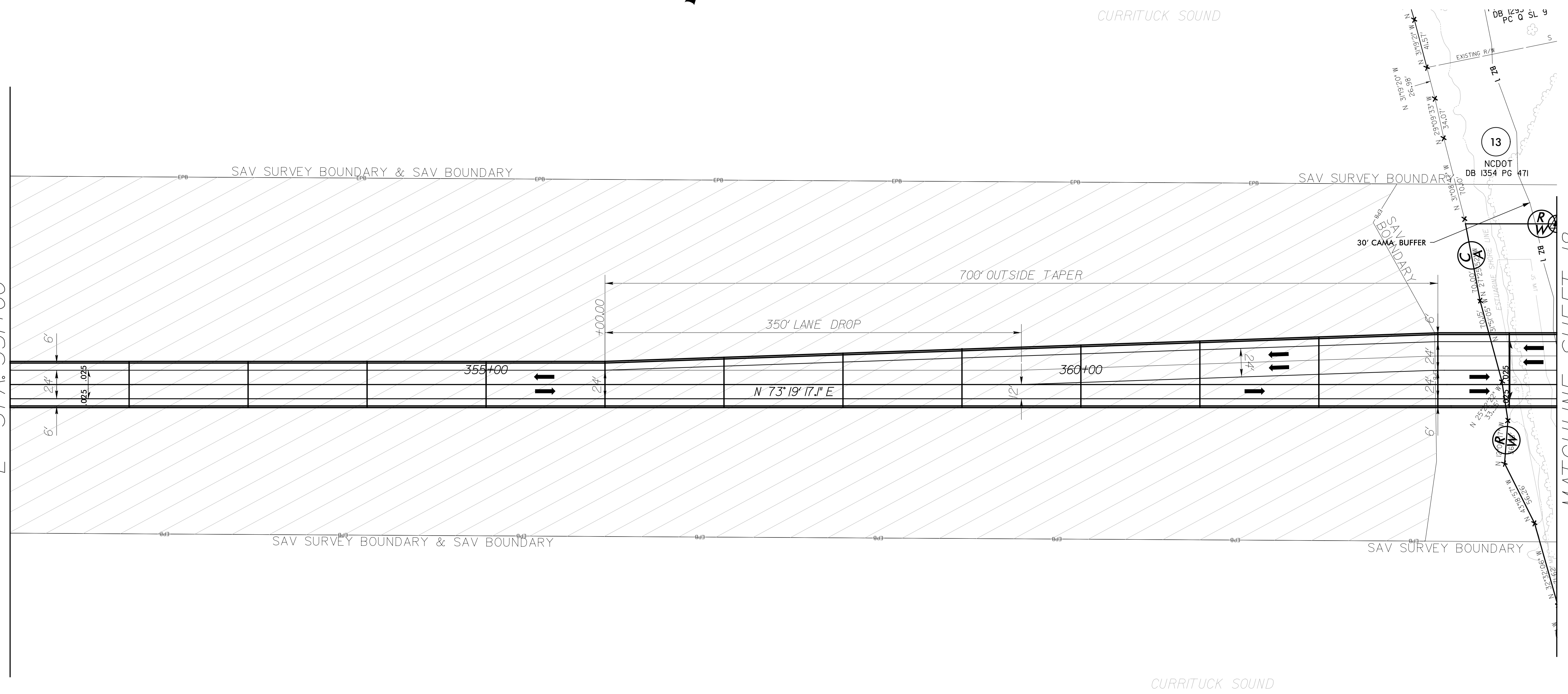
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER



MATCHLINE SHEET 16
-L- STA. 351+00

MATCHLINE SHEET 18
-L- STA. 364+00



SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 35 FOR -L- PROFILE

8/3/2020
R. G. F. - psh17.dgn
C. C. KELLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

PROJECT REFERENCE NO. **R-2576** SHEET NO. **18**

ROADWAY DESIGN ENGINEER
PAVEMENT DESIGN ENGINEER

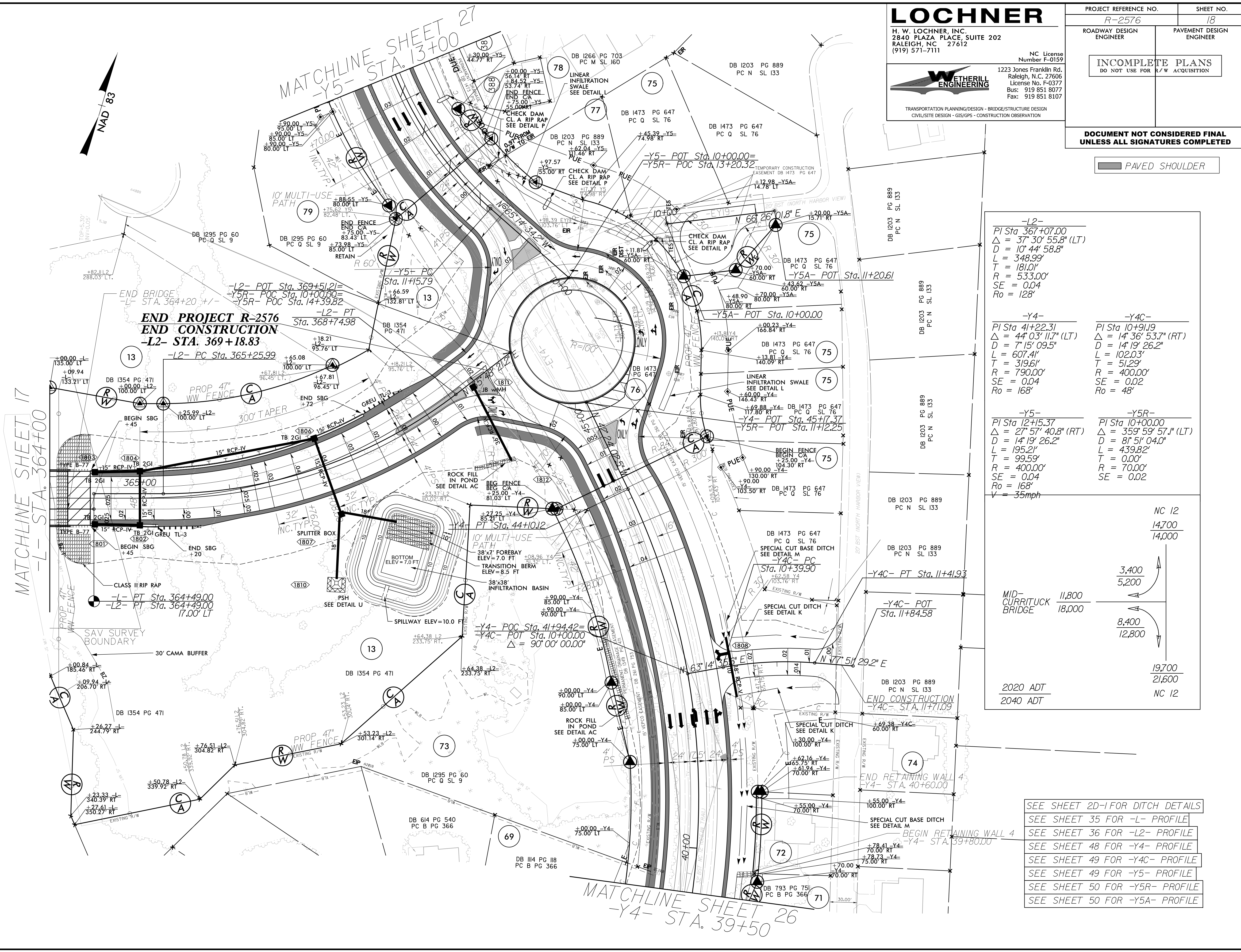
NC License Number F-0159
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

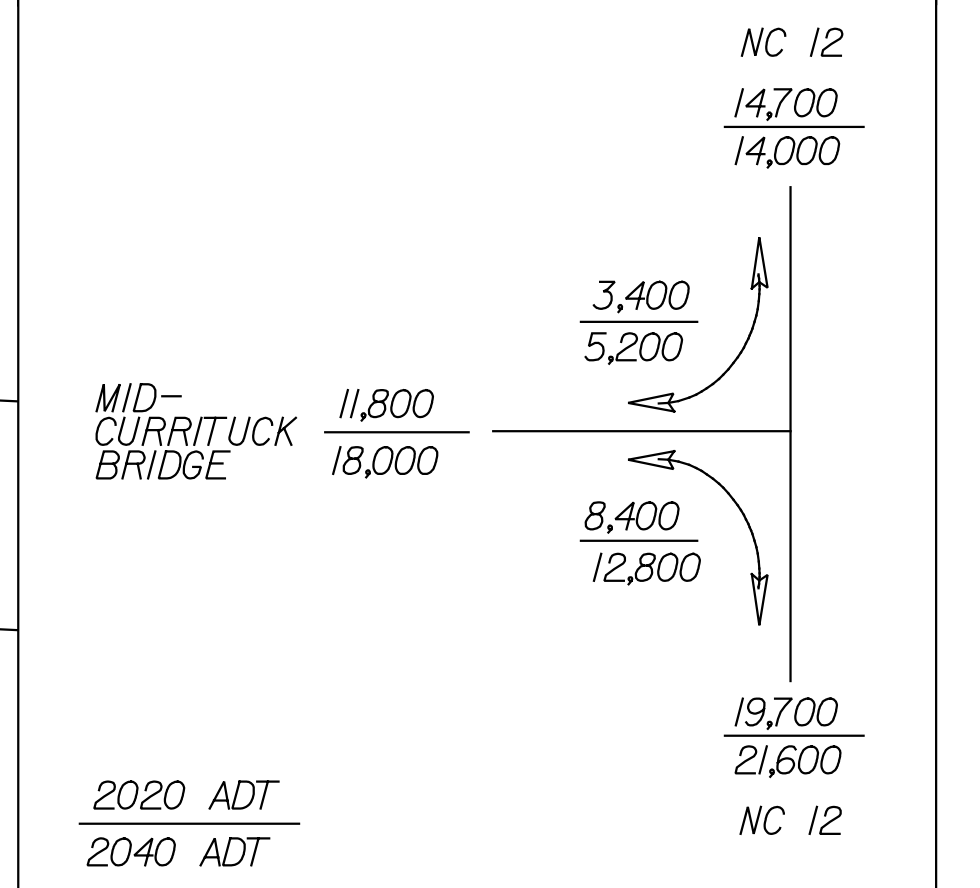
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



END PROJECT R-2576
END CONSTRUCTION
-L2- STA. 369+18.83

<p>-L2- PI Sta 367+07.00 Δ = 37° 30' 55.8" (LT) D = 10' 44' 58.8" L = 348.99' T = 181.0' R = 533.00' SE = 0.04 Ro = 128'</p>	<p>-Y4C- PI Sta 41+22.31 Δ = 44° 03' 11.7" (LT) D = 7' 15' 09.5" L = 607.4' T = 319.6' R = 790.00' SE = 0.04 Ro = 168'</p>
<p>-Y4- PI Sta 12+15.37 Δ = 27° 57' 40.8" (RT) D = 14' 19' 26.2" L = 195.2' T = 99.59' R = 400.00' SE = 0.04 Ro = 168'</p>	<p>-Y5R- PI Sta 10+00.00 Δ = 359° 59' 57.1" (LT) D = 8' 51' 04.0" L = 439.82' T = 0.00' R = 70.00' SE = 0.02 V = 35mph</p>
<p>-Y5- PI Sta 12+15.37 Δ = 27° 57' 40.8" (RT) D = 14' 19' 26.2" L = 195.2' T = 99.59' R = 400.00' SE = 0.04 Ro = 168'</p>	<p>-Y5R- PI Sta 10+00.00 Δ = 359° 59' 57.1" (LT) D = 8' 51' 04.0" L = 439.82' T = 0.00' R = 70.00' SE = 0.02</p>



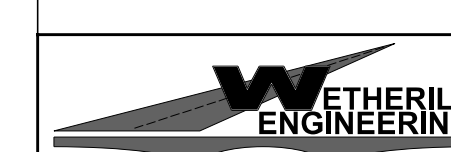
- SEE SHEET 2D-1 FOR DITCH DETAILS
- SEE SHEET 35 FOR -L- PROFILE
- SEE SHEET 36 FOR -L2- PROFILE
- SEE SHEET 48 FOR -Y4- PROFILE
- SEE SHEET 49 FOR -Y4C- PROFILE
- SEE SHEET 49 FOR -Y5- PROFILE
- SEE SHEET 50 FOR -Y5R- PROFILE
- SEE SHEET 50 FOR -Y5A- PROFILE

8/3/2020
R-2576-Four-psht18.dgn
C. COCKLEY

6/2/99

LOCHNER

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 19

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

NC License Number F-0159
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER

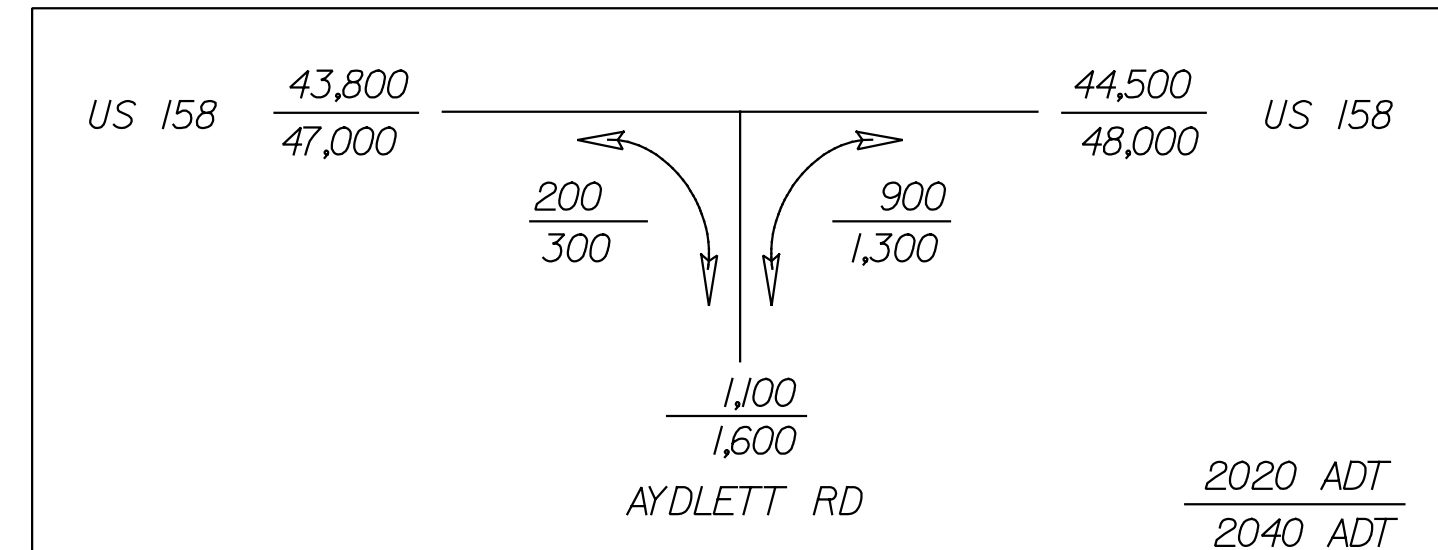
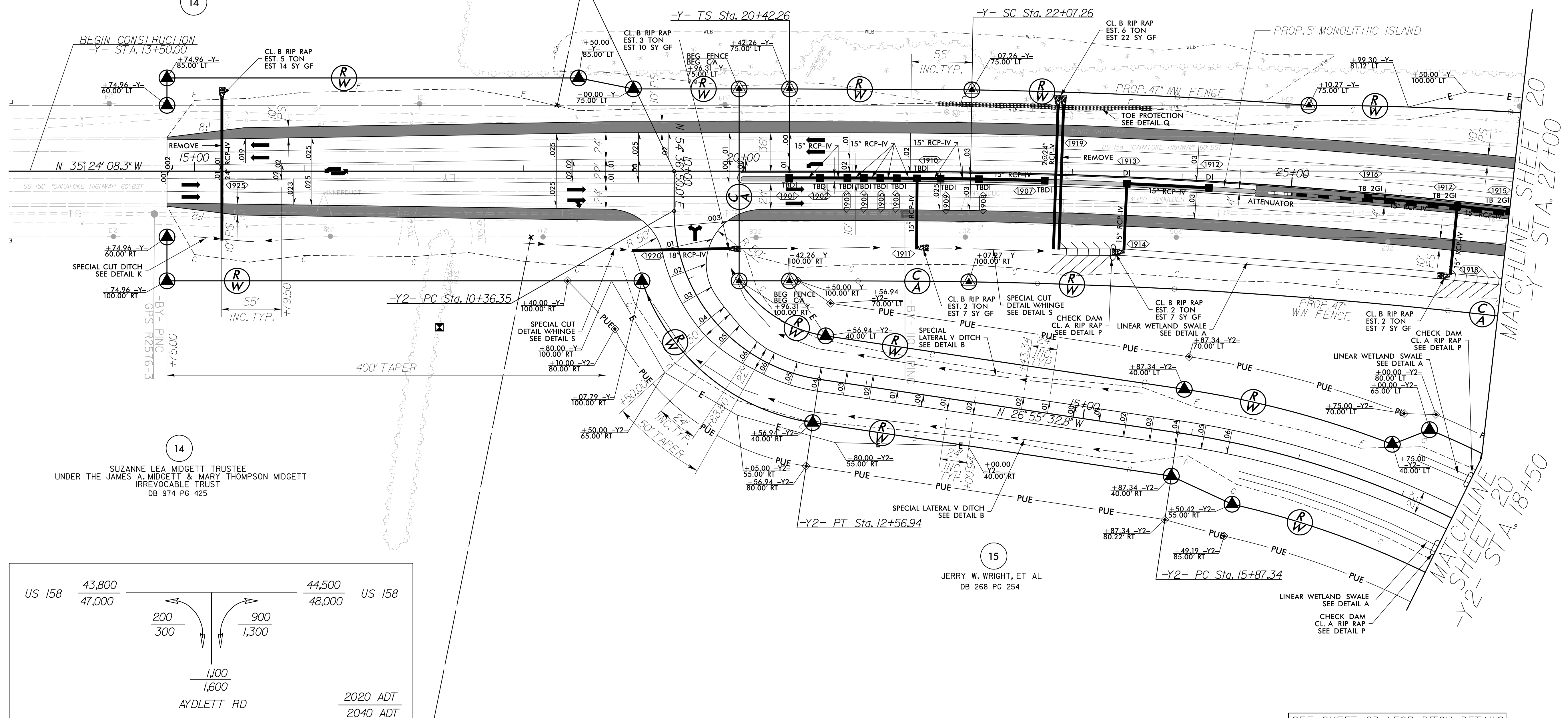
-Y-		
Pls Sta 21+52.26 θs = 0° 55' 36.6" Ls = 165.00' LT = 110.00' ST = 55.00'	PI Sta 27+75.58 Δ = 12° 43' 01.7" (RT) D = 1° 07' 24.4" L = 1,131.98' T = 568.32' R = 850.00' ** SE = 0.06 Ro = 144'	Pls Sta 33+94.24 θs = 0° 55' 36.6" Ls = 165.00' LT = 110.00' ST = 55.00'
-Y2-		
PI Sta 11+70.00 Δ = 8° 32' 22.8" (LT) D = 36° 57' 54.1" L = 220.59' T = 133.65' R = 155.00' SE = 0.06 Ro = 144'	PI Sta 25+74.49 Δ = 95° 09' 21.1" (RT) D = 6° 44' 26.4" L = 1,411.67' T = 930.15' R = 850.00' ** SE = 0.06 Ro = 144'	
** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE		



SUZANNE LEA MIDGETT TRUSTEE
UNDER THE JAMES A. MIDGETT & MARY THOMPSON MIDGETT
IRREVOCABLE TRUST
DB 974 PG 425

-Y- POT Sta. 19+37.18=
-Y2- POT Sta. 10+00.00
Δ = 89° 59' 01.74"

15
JERRY W. WRIGHT, ET AL
DB 268 PG 254



SEE SHEET 20-I FOR DITCH DETAILS
SEE SHEET 36 FOR -Y- PROFILE
SEE SHEET 45 FOR -Y2- PROFILE

8/3/2020
RCS:R6-Fdu-psh19.dgn
C. COCKELEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. **R-2576** SHEET NO. **20**

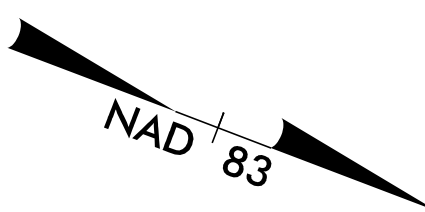
ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

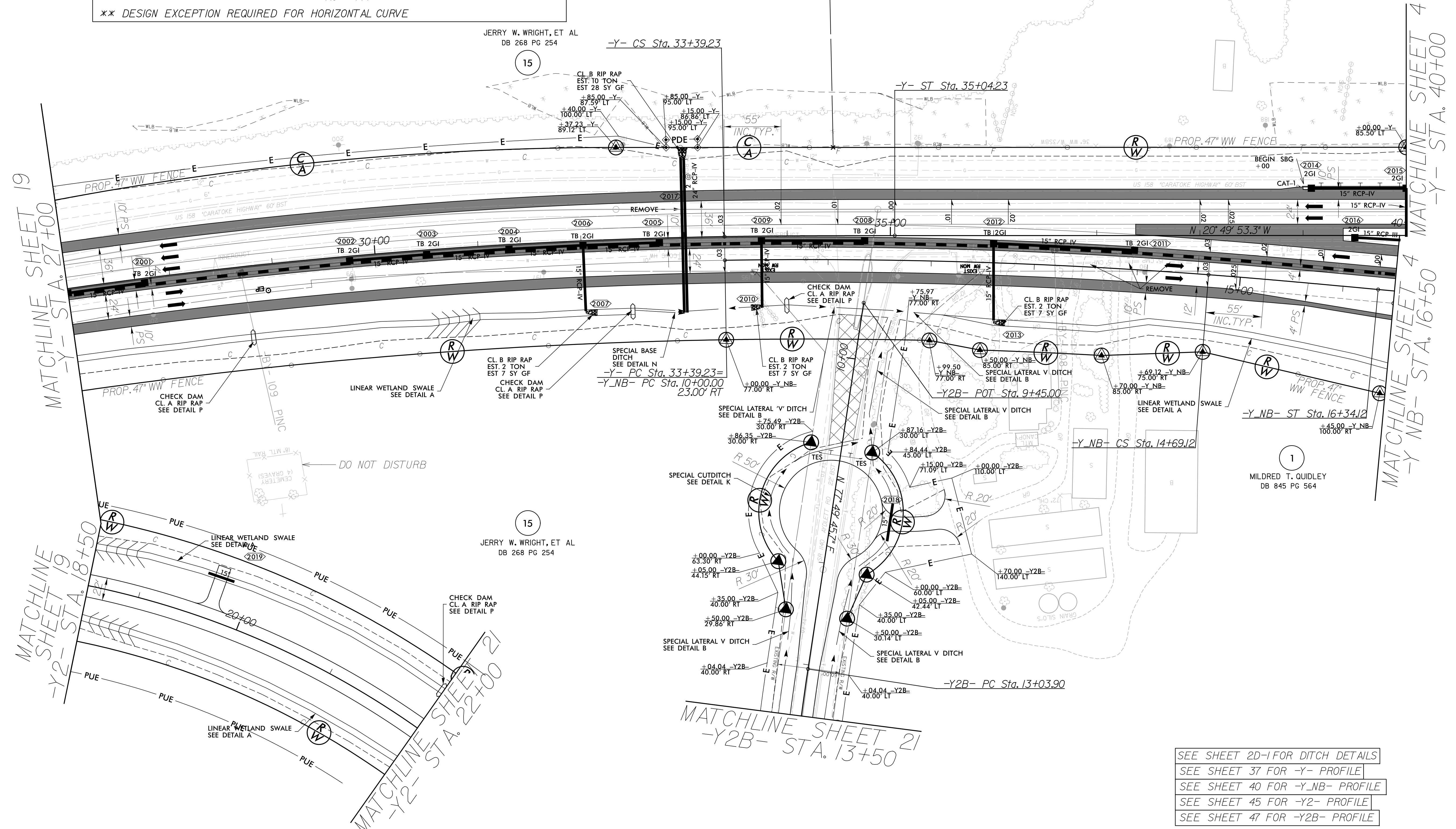


-Y-			
Pls Sta 21+52.26 Θs = 0° 55' 36.6" Ls = 165.00' LT = 110.00' ST = 55.00'	Pls Sta 27+75.58 Δ = 12° 43' 01.7" (RT) D = 1° 07' 24.4" L = 1,131.98' LT = 568.32' R = 5,100.00' SE = 0.03	Pls Sta 33+94.24 Θs = 0° 55' 36.6" Ls = 165.00' LT = 110.00' ST = 55.00'	
-Y_NB-			
Pls Sta 12+34.73 Δ = 5° 17' 39.2" (RT) D = 1° 07' 42.7" L = 469.12' T = 234.73' R = 5,077.00' SE = 0.03	Pls Sta 15+24.12 Θs = 0° 55' 51.8" Ls = 165.00' LT = 110.00' ST = 55.00'	Pls Sta 25+17.49 Δ = 95° 09' 21.1" (RT) D = 6° 44' 26.4" L = 1,411.67' T = 930.15' R = 850.00' ** SE = 0.06 Ro = 144'	Pls Sta 14+46.16 Δ = 8° 07' 45.1" (LT) D = 2° 51' 53.2" L = 283.76' T = 142.12' R = 2,000.00'
** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE			



JERRY W. WRIGHT, ET AL
DB 268 PG 254

MILDRED T. QUIDLEY
DB 845 PG 564
MB 3 PG 10



JERRY W. WRIGHT, ET AL
DB 268 PG 254

MILDRED T. QUIDLEY
DB 845 PG 564

- SEE SHEET 20-I FOR DITCH DETAILS
- SEE SHEET 37 FOR -Y- PROFILE
- SEE SHEET 40 FOR -Y_NB- PROFILE
- SEE SHEET 45 FOR -Y2- PROFILE
- SEE SHEET 47 FOR -Y2B- PROFILE

8/3/2020
R2576-F01-psh20.dgn
C. QUIDLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

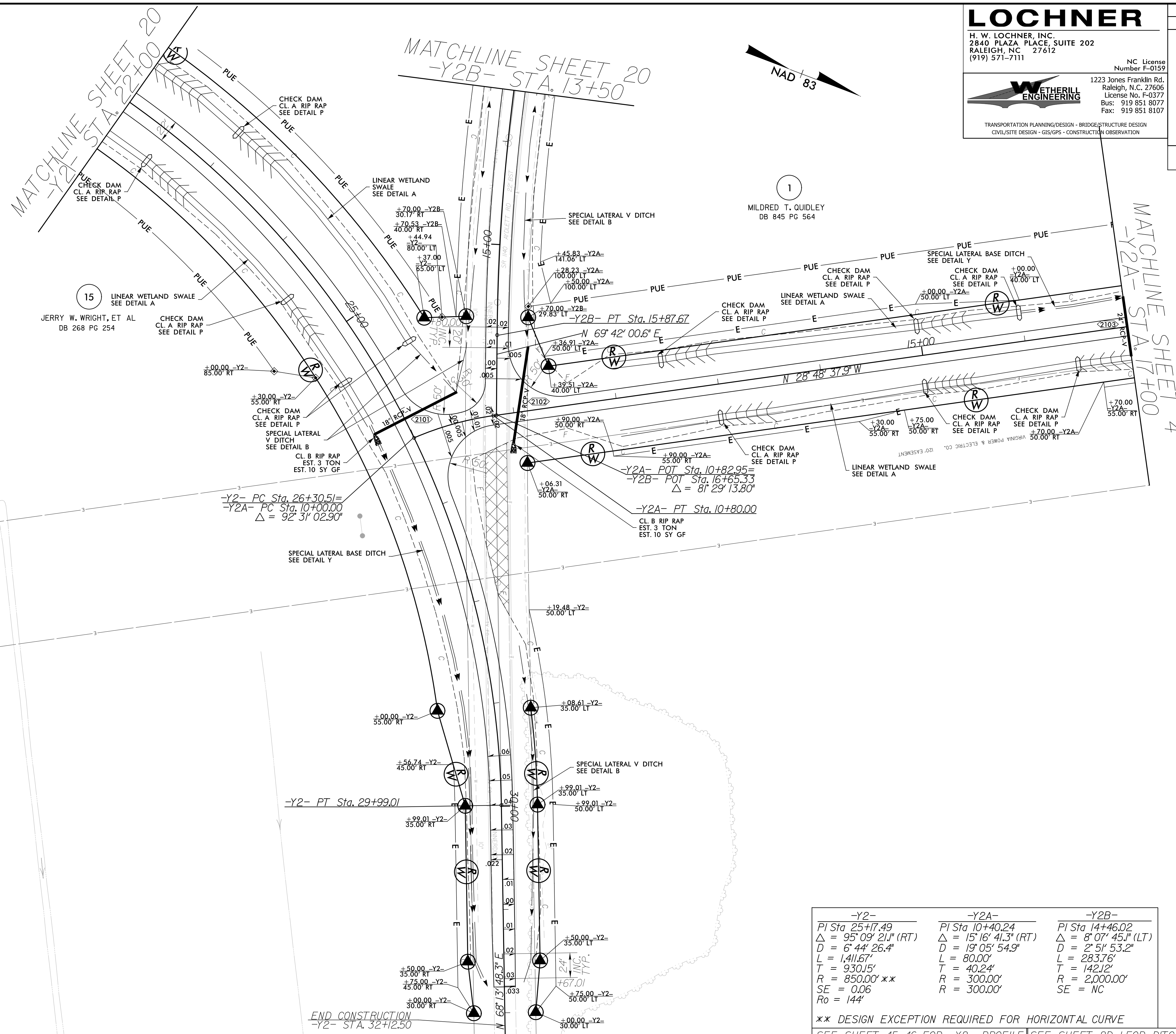
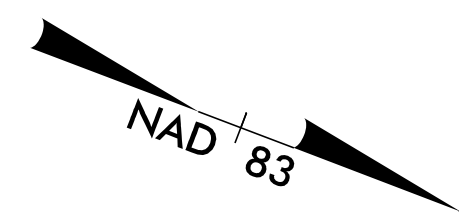
PROJECT REFERENCE NO. SHEET NO.

R-2576 21

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCHLINE SHEET
-Y2- STA. 22+00 20

MATCHLINE SHEET 20
-Y2B- STA. 13+50

MATCHLINE SHEET 4
-Y2A- STA. 17+00

15 JERRY W. WRIGHT, ET AL
DB 268 PG 254

1 MILDRED T. QUIDLEY
DB 845 PG 564

-Y2- PC Sta. 26+30.51=
-Y2A- PC Sta. 10+00.00
 $\Delta = 92^\circ 31' 02.90''$

-Y2A- POT Sta. 10+82.95=
-Y2B- POT Sta. 16+65.33
 $\Delta = 81^\circ 29' 13.80''$

END CONSTRUCTION
-Y2- STA. 32+2.50

-Y2-	-Y2A-	-Y2B-
PI Sta 25+17.49	PI Sta 10+40.24	PI Sta 14+46.02
$\Delta = 95^\circ 09' 21.1''$ (RT)	$\Delta = 15^\circ 16' 41.3''$ (RT)	$\Delta = 8^\circ 07' 45.1''$ (LT)
D = 6' 44" 26.4"	D = 19' 05" 54.9"	D = 2' 51" 53.2"
L = 1,411.67'	L = 80.00'	L = 283.76'
T = 930.15'	T = 40.24'	T = 142.12'
R = 850.00' **	R = 300.00'	R = 2,000.00'
SE = 0.06	R = 300.00'	SE = NC
Ro = 144'		

** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE

SEE SHEET 45-46 FOR -Y2- PROFILE SEE SHEET 2D-1 FOR DITCH DETAILS

SEE SHEET 46 FOR -Y2A- PROFILE

SEE SHEET 47 FOR -Y2B- PROFILE

8/3/2020
R-2576-Fdu-psh21.dgn
M. QUIDLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

22

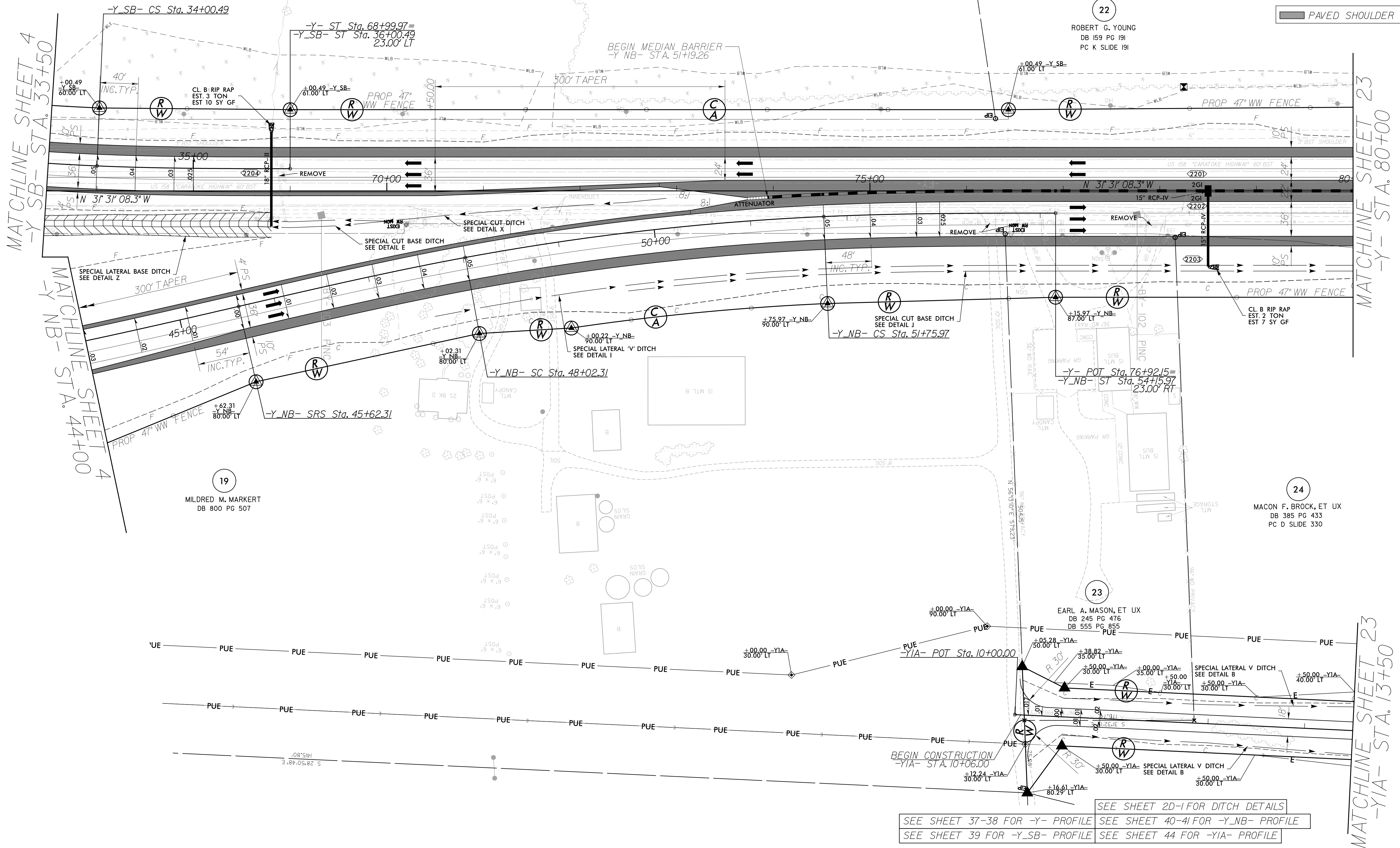
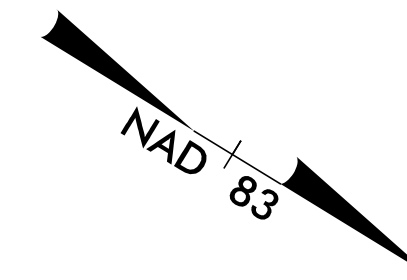
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

-Y_NB-		
PIs Sta 47+22.32	PI Sta 49+89.44	PIs Sta 52+55.98
$\Theta_s = 2^\circ 32' 47.3"$	$\Delta = 7^\circ 55' 45.6" (RT)$	$\Theta_s = 2^\circ 32' 47.3"$
$L_s = 240.00'$	$D = 2^\circ 07' 19.4"$	$L_s = 240.00'$
$LT = 160.02'$	$L = 373.66'$	$LT = 160.02'$
$ST = 80.02'$	$T = 187.13'$	$ST = 80.02'$
	$R = 2,700.00'$	
	$SE = 0.05$	



PAVED SHOULDER

22
ROBERT G. YOUNG
DB 159 PG 191
PC K SLIDE 191

19
MILDRED M. MARKERT
DB 800 PG 507

24
MACON F. BROCK, ET UX
DB 385 PG 433
PC D SLIDE 330

23
EARL A. MASON, ET UX
DB 245 PG 476
DB 555 PG 855

SEE SHEET 2D-I FOR DITCH DETAILS
 SEE SHEET 37-38 FOR -Y- PROFILE
 SEE SHEET 40-41 FOR -Y_NB- PROFILE
 SEE SHEET 39 FOR -Y_SB- PROFILE
 SEE SHEET 44 FOR -YIA- PROFILE

8/3/2020
RGS
6/26/2020
C. DICKLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

PROJECT REFERENCE NO. **R-2576** SHEET NO. **23**

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

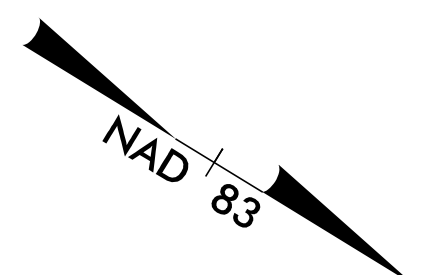
NC License Number F-0159
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

COINJOCK DEVELOPMENT COMPANY, INC
DB 103 PG 363
PC A SLIDE 217

-Y- TS Sta. 90+40.53
-Y- POT Sta. 90+63.30
-YI- POT Sta. 10+00.00
 $\Delta = 90^{\circ} 00' 00.00''$

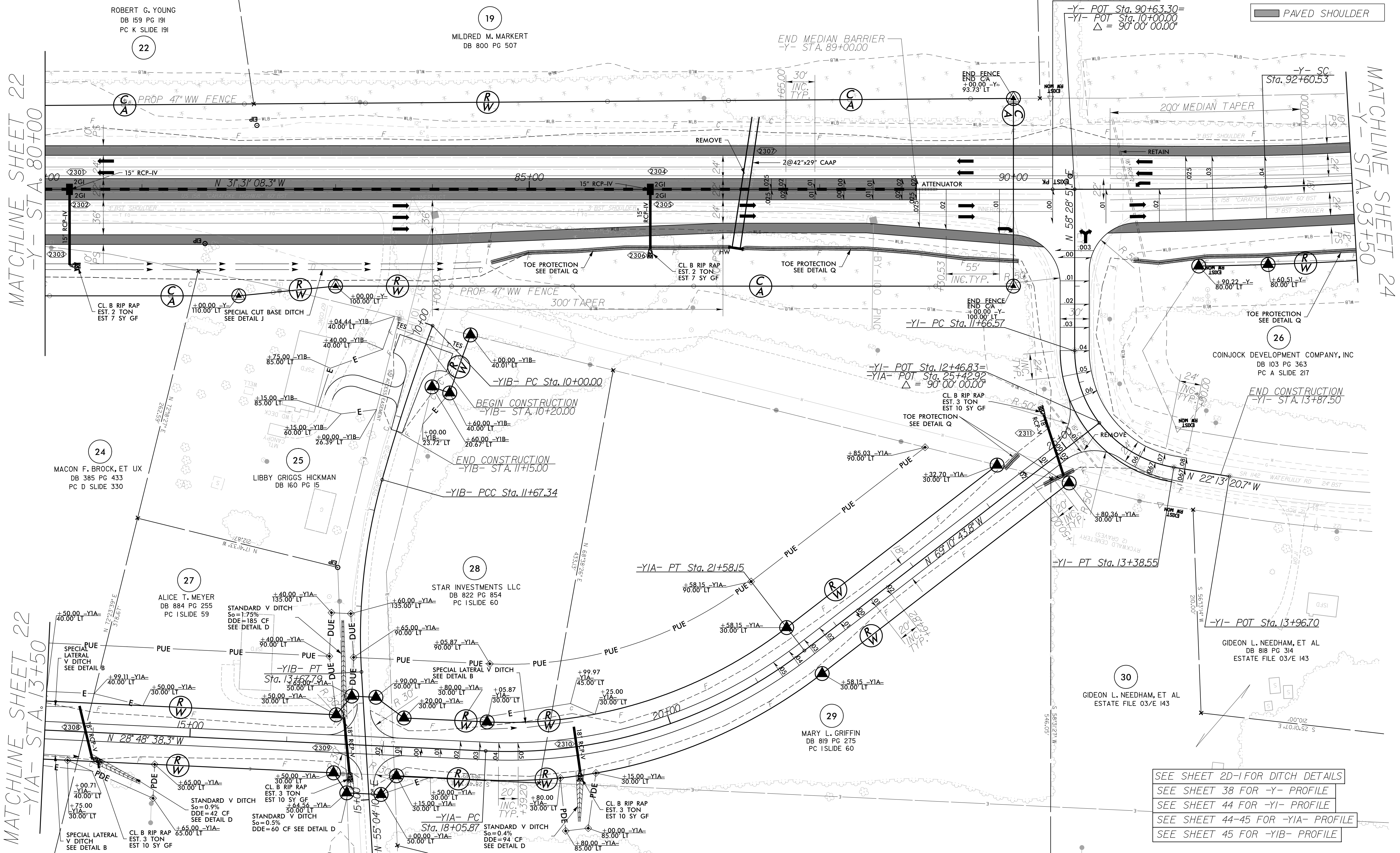
-YI-	-YIA-	-YIB-	-Y-
PI Sta 12+70.31	PI Sta 19+89.68	PI Sta 10+83.72	PIs Sta 91+87.20
$\Delta = 80^{\circ} 42' 12.5''$ (LT)	$\Delta = 40^{\circ} 22' 05.5''$ (LT)	$\Delta = 4^{\circ} 47' 38.4''$ (LT)	$\Theta_s = 1^{\circ} 48' 02.6''$
D = 46' 55" 31.0"	D = 11' 27" 33.0"	D = 2' 51" 53.2"	Ls = 220.00'
L = 171.98'	L = 352.28'	L = 167.34'	LT = 146.67'
T = 103.74'	T = 183.81'	T = 83.72'	ST = 73.34'
R = 122.10'	R = 500.00'	R = 2,000.00'	R = 3,500.00'
SE = 0.06	SE = 0.05	R = 600.00'	SE = 0.04
Ro = 124'	Ro = 100'		



MATCHLINE SHEET 22
-Y- STA. 80+00

MATCHLINE SHEET 24
-Y- STA. 93+50

MATCHLINE SHEET 22
-YIA- STA. 13+50



SEE SHEET 2D-1 FOR DITCH DETAILS
 SEE SHEET 38 FOR -Y- PROFILE
 SEE SHEET 44 FOR -YI- PROFILE
 SEE SHEET 44-45 FOR -YIA- PROFILE
 SEE SHEET 45 FOR -YIB- PROFILE

8/3/2020
RGS 76767-Rd-23.dgn
C:\KELLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



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Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 24

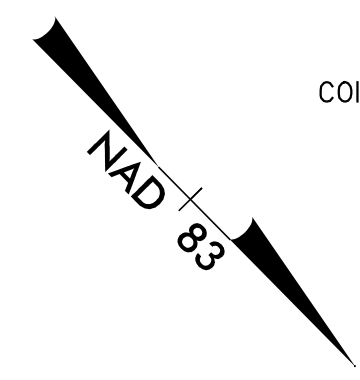
ROADWAY DESIGN ENGINEER

PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

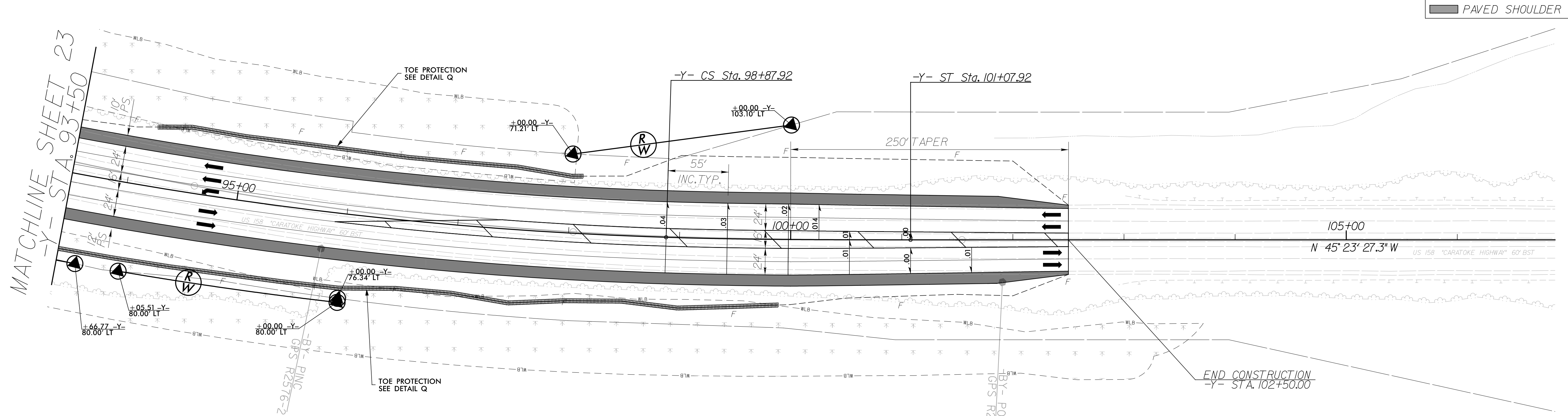
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

-Y-		
PIs Sta 91+87.20	PI Sta 95+75.07	PIs Sta 99+61.26
$\Theta_s = 1^{\circ}48'02.6''$	$\Delta = 10^{\circ}16'13.8''$ (LT)	$\Theta_s = 1^{\circ}48'02.6''$
$L_s = 220.00'$	$D = 1^{\circ}38'13.3''$	$L_s = 220.00'$
$LT = 146.67'$	$L = 627.39'$	$LT = 146.67'$
$ST = 73.34'$	$T = 314.54'$	$ST = 73.34'$
	$R = 3,500.00'$	
	$SE = 0.04$	



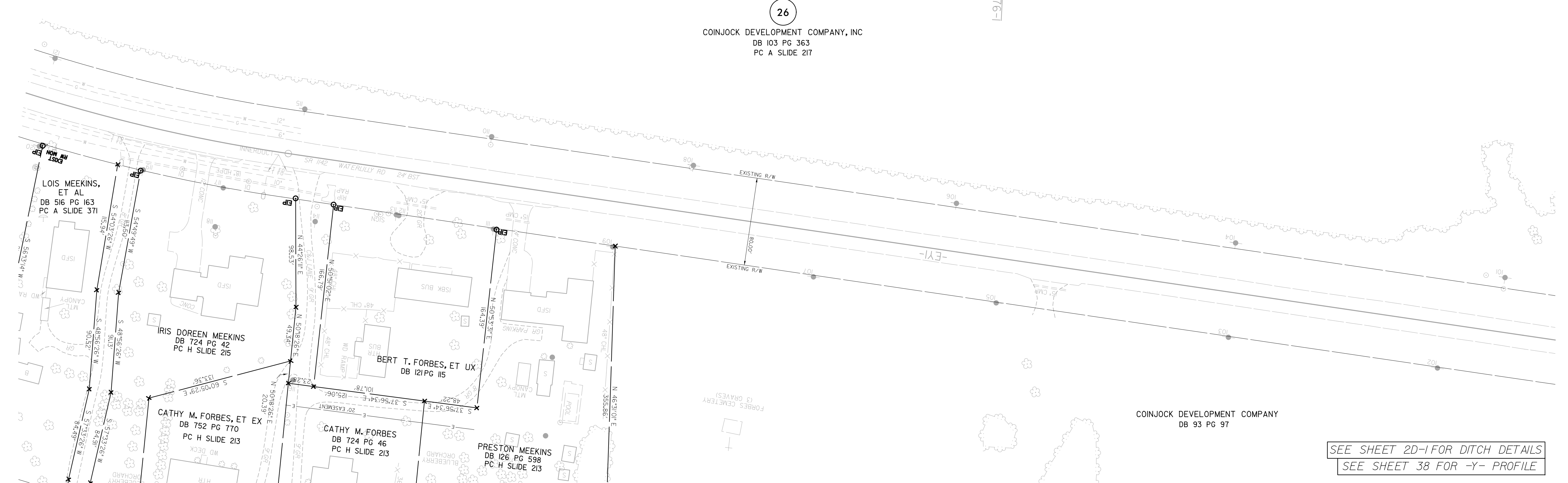
25

COINJOCK DEVELOPMENT COMPANY, INC
DB 103 PG 363
PC A SLIDE 217



26

COINJOCK DEVELOPMENT COMPANY, INC
DB 103 PG 363
PC A SLIDE 217



COINJOCK DEVELOPMENT COMPANY
DB 93 PG 97

SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 38 FOR -Y- PROFILE

8/3/2020
R3276-Fdu-psh24.dgn
C. DICKLEY

6/2/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111



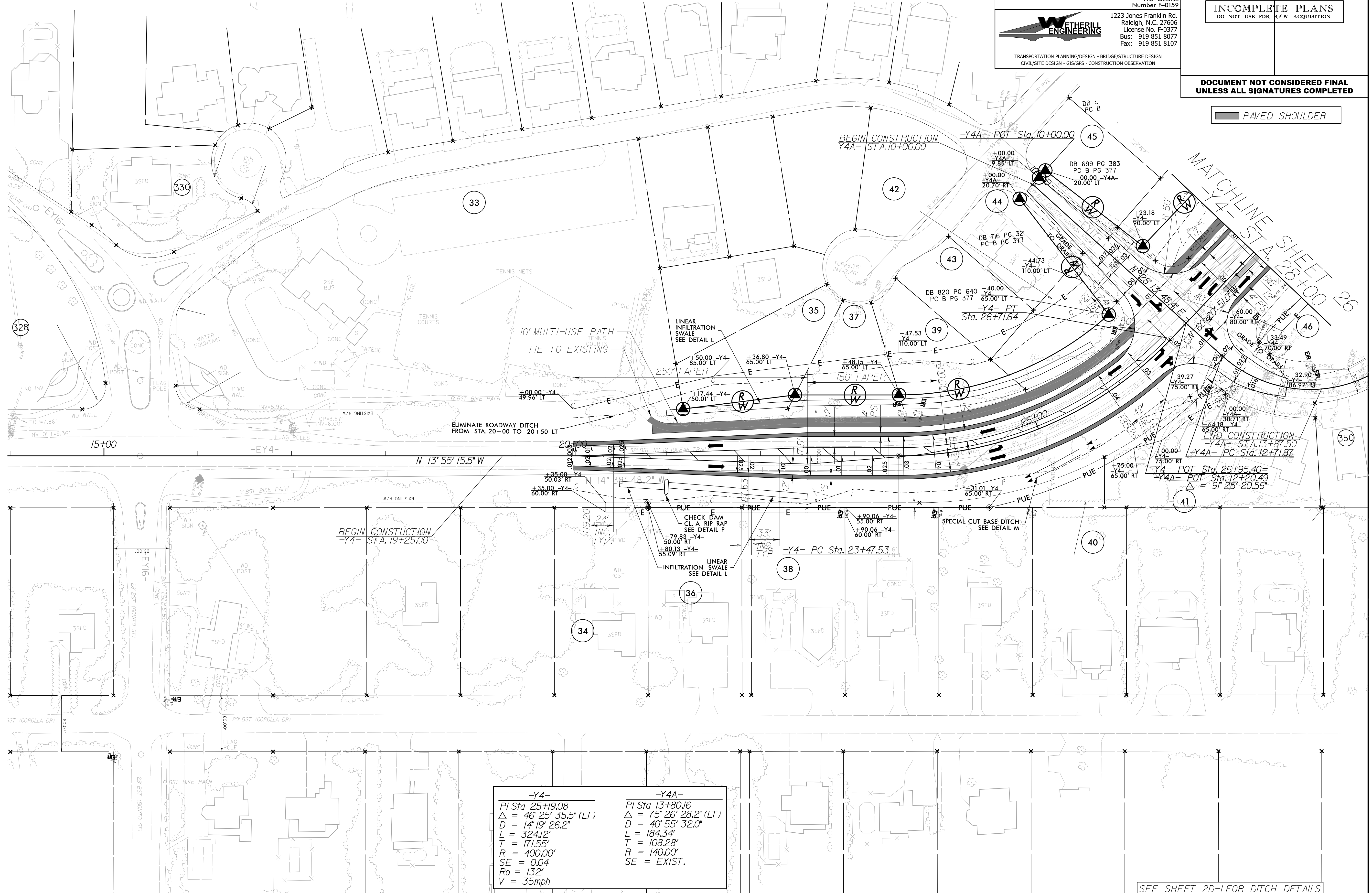
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. **R-2576** SHEET NO. **25**

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



-Y4-	-Y4A-
PI Sta 25+90.08	PI Sta 13+80.16
$\Delta = 46^{\circ} 25' 35.5" (LT)$	$\Delta = 75^{\circ} 26' 28.2" (LT)$
D = 14' 19" 26.2'	D = 40' 55" 32.0'
L = 324.12'	L = 184.34'
T = 171.55'	T = 108.28'
R = 400.00'	R = 140.00'
SE = 0.04	SE = EXIST.
Ro = 132'	
V = 35mph	

SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 48 FOR -Y4- PROFILE
SEE SHEET 49 FOR -Y4A- PROFILE

8/3/2020
R2576-F01-psh25.dgn
C. COCKLEY

6/2/99

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RALEIGH, NC 27612
(919) 571-7111



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

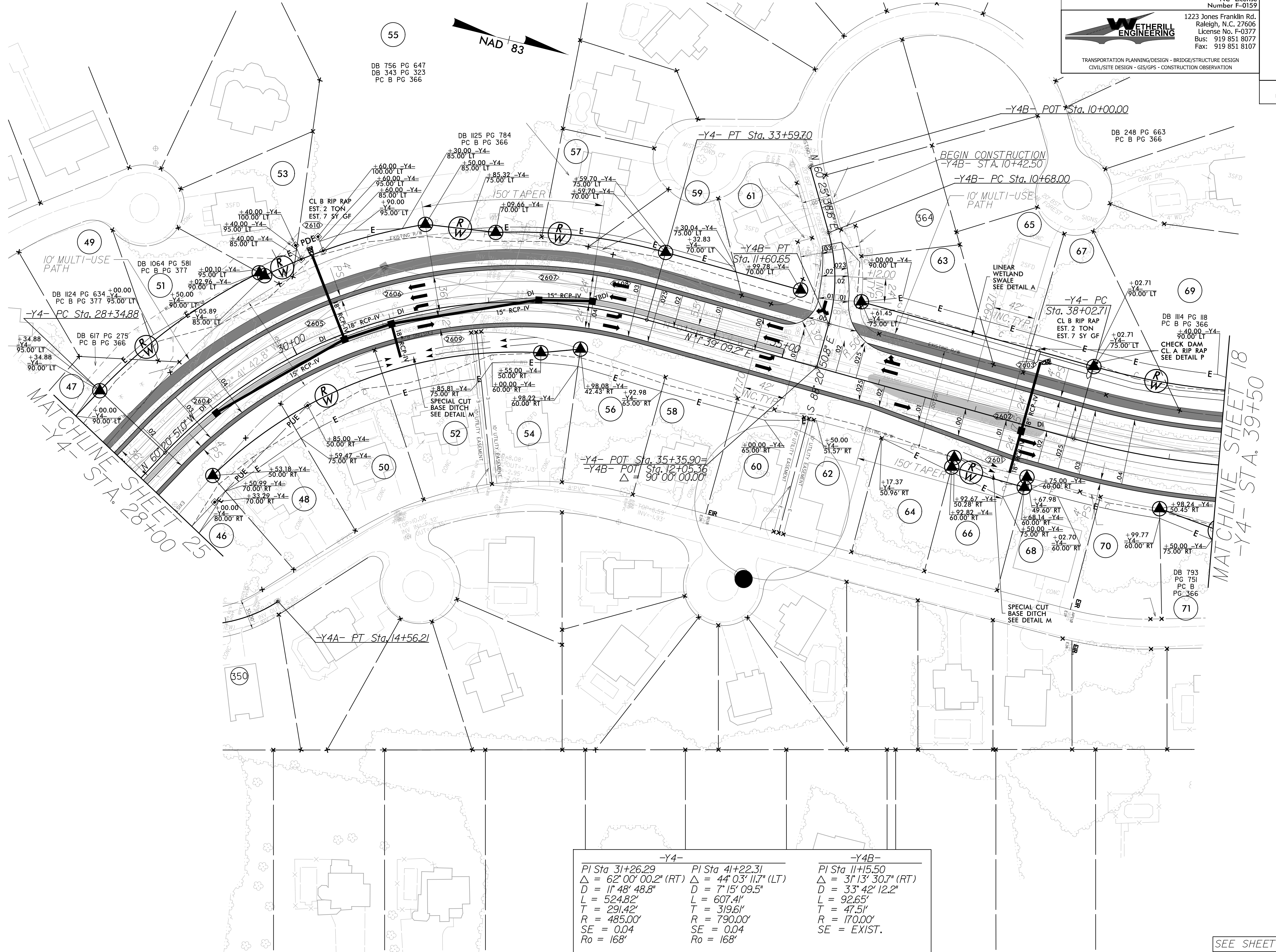
PROJECT REFERENCE NO. **R-2576** SHEET NO. **26**

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER



-Y4-		-Y4B-	
PI Sta 31+26.29	PI Sta 41+22.31	PI Sta 11+5.50	
$\Delta = 62^{\circ}00'00.2''$ (RT)	$\Delta = 44^{\circ}03'11.7''$ (LT)	$\Delta = 31^{\circ}13'30.7''$ (RT)	
$D = 11^{\circ}48'48.8''$	$D = 7^{\circ}15'09.5''$	$D = 33^{\circ}42'12.2''$	
$L = 524.82'$	$L = 607.41'$	$L = 92.65'$	
$T = 291.42'$	$T = 319.61'$	$T = 47.51'$	
$R = 485.00'$	$R = 790.00'$	$R = 170.00'$	
$SE = 0.04$	$SE = 0.04$	$SE = \text{EXIST.}$	
$R_o = 168'$	$R_o = 168'$		

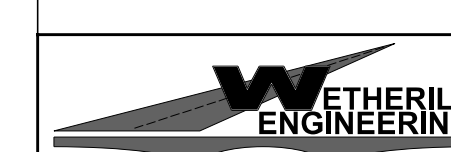
SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 48 FOR -Y4- PROFILE
SEE SHEET 49 FOR -Y4B- PROFILE

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R3276-Road-psh26.dgn
C.DICKLEY

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

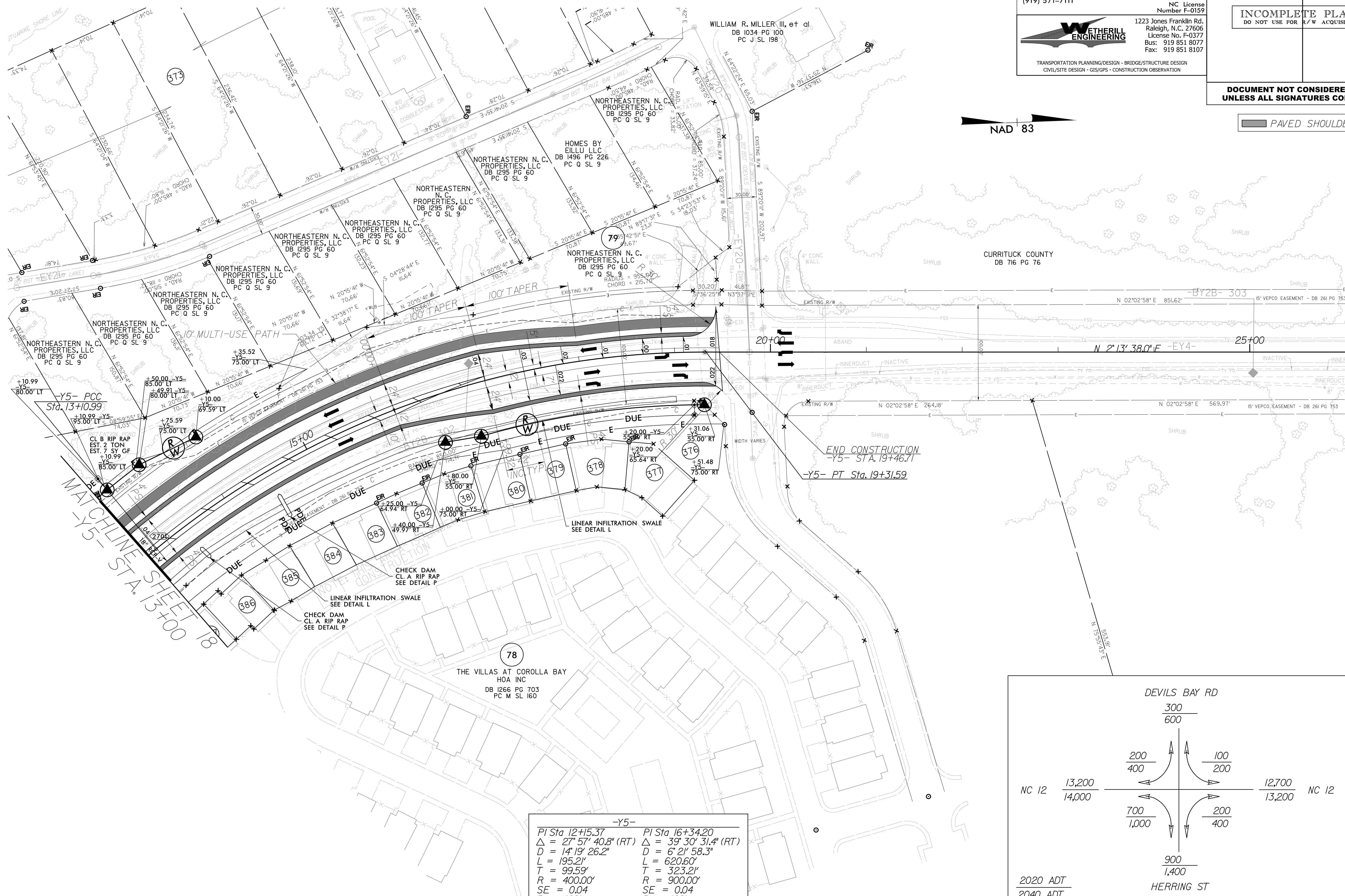
PROJECT REFERENCE NO. R-2576 SHEET NO. 27

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

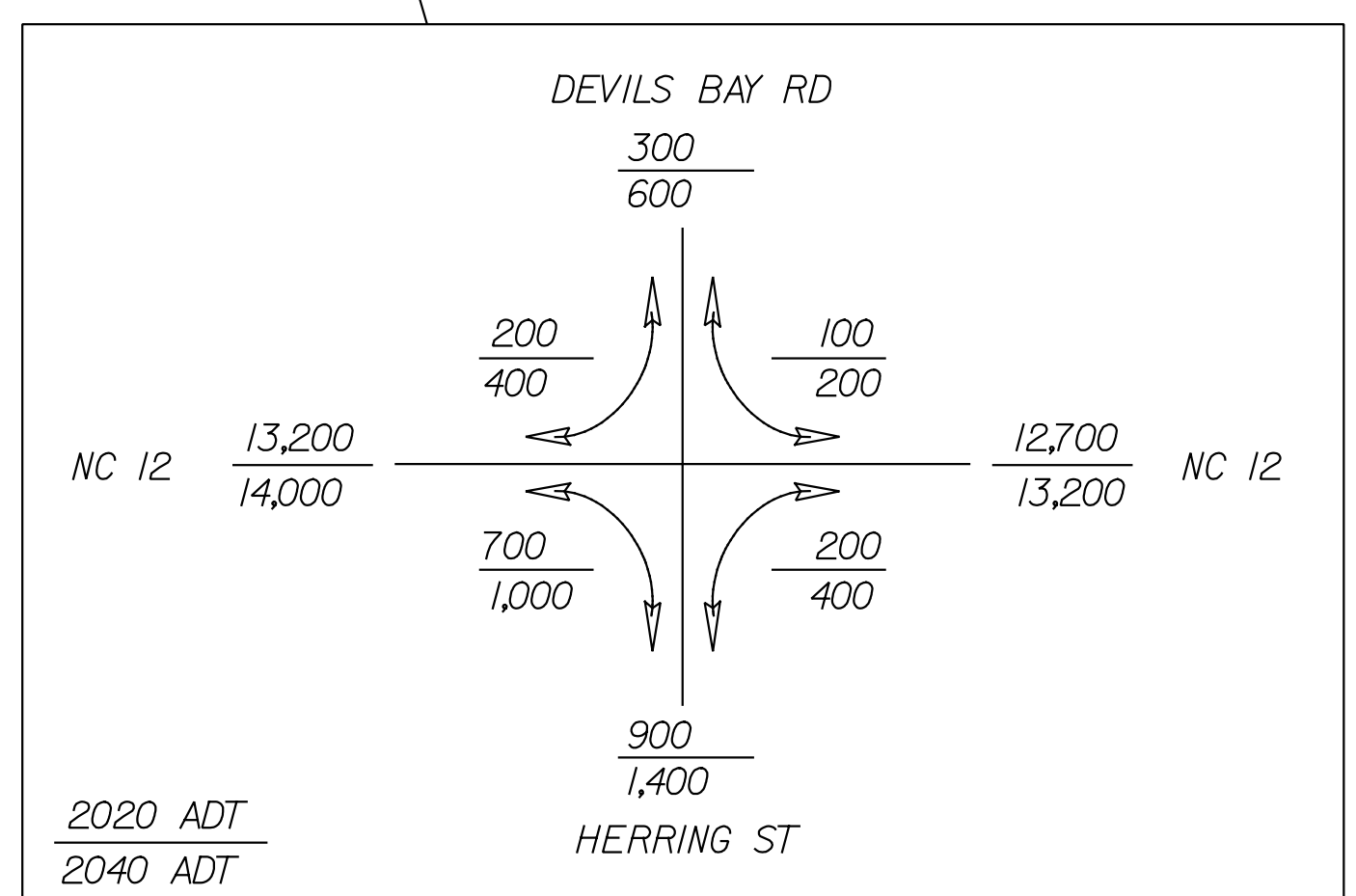
DOCUMENT NOT CONSIDERED FINAL
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PAVED SHOULDER



-Y5-

PI Sta 12+15.37	PI Sta 16+34.20
$\Delta = 27^\circ 57' 40.8''$ (RT)	$\Delta = 39^\circ 30' 31.4''$ (RT)
$D = 14' 19'' 26.2''$	$D = 6' 21' 58.3''$
$L = 195.21'$	$L = 620.60'$
$T = 99.59'$	$T = 323.21'$
$R = 400.00'$	$R = 900.00'$
$SE = 0.04$	$SE = 0.04$
$Ro = 168'$	$Ro = 168'$
$V = 35\text{mph}$	



SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 49 FOR -Y5- PROFILE

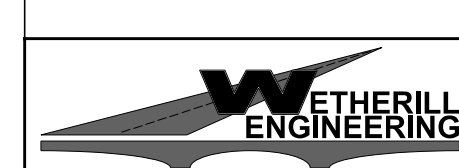
8/3/2020
R. B. F. - psh27.dgn
C. COCKLEY

6/2/99

8/3/2020
RGS
CCKLEY

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1223 Jones Franklin Rd.
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License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

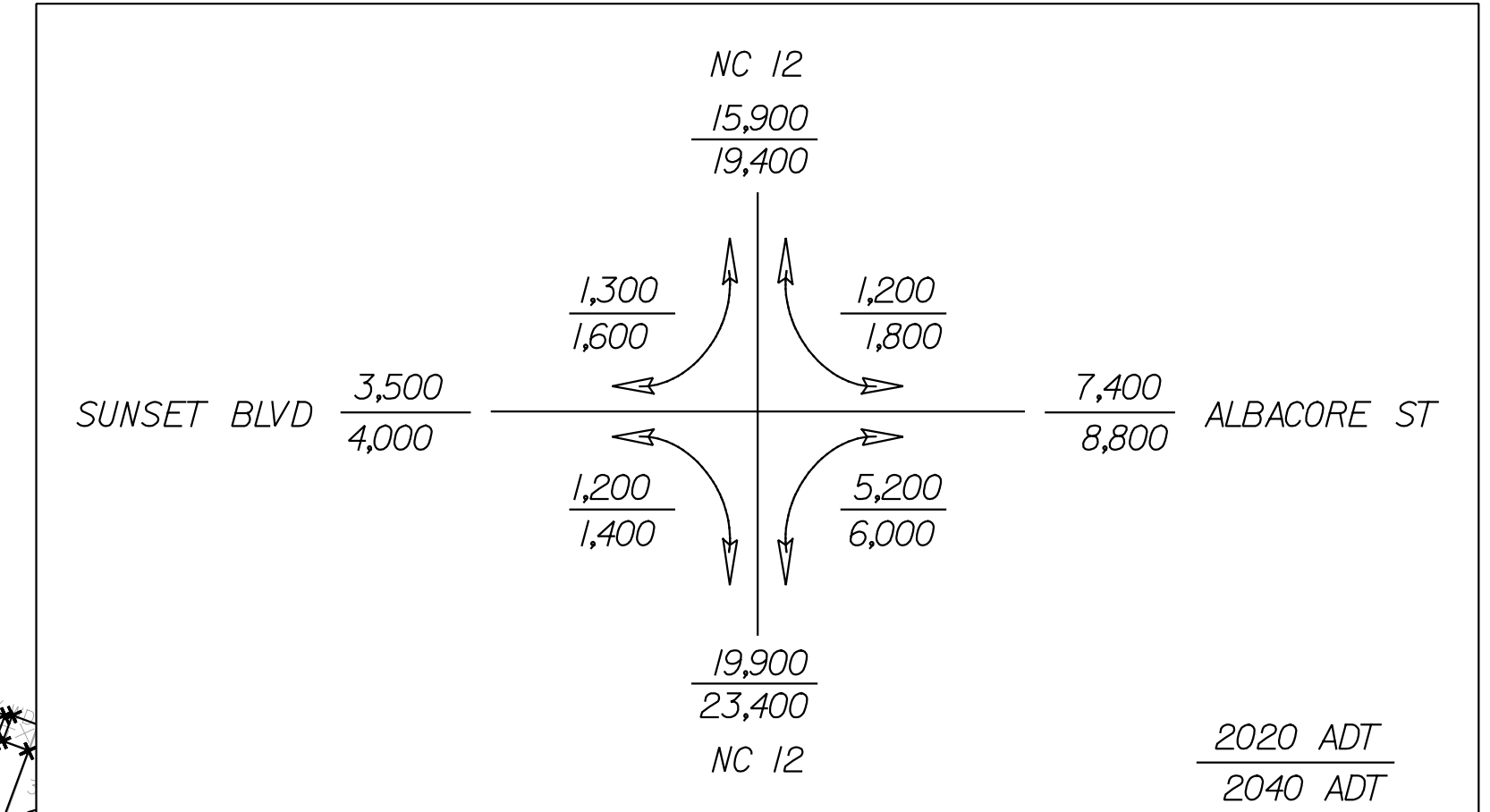
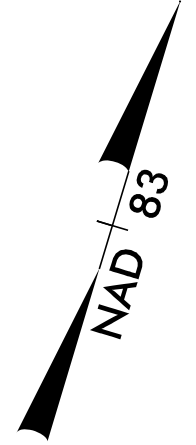
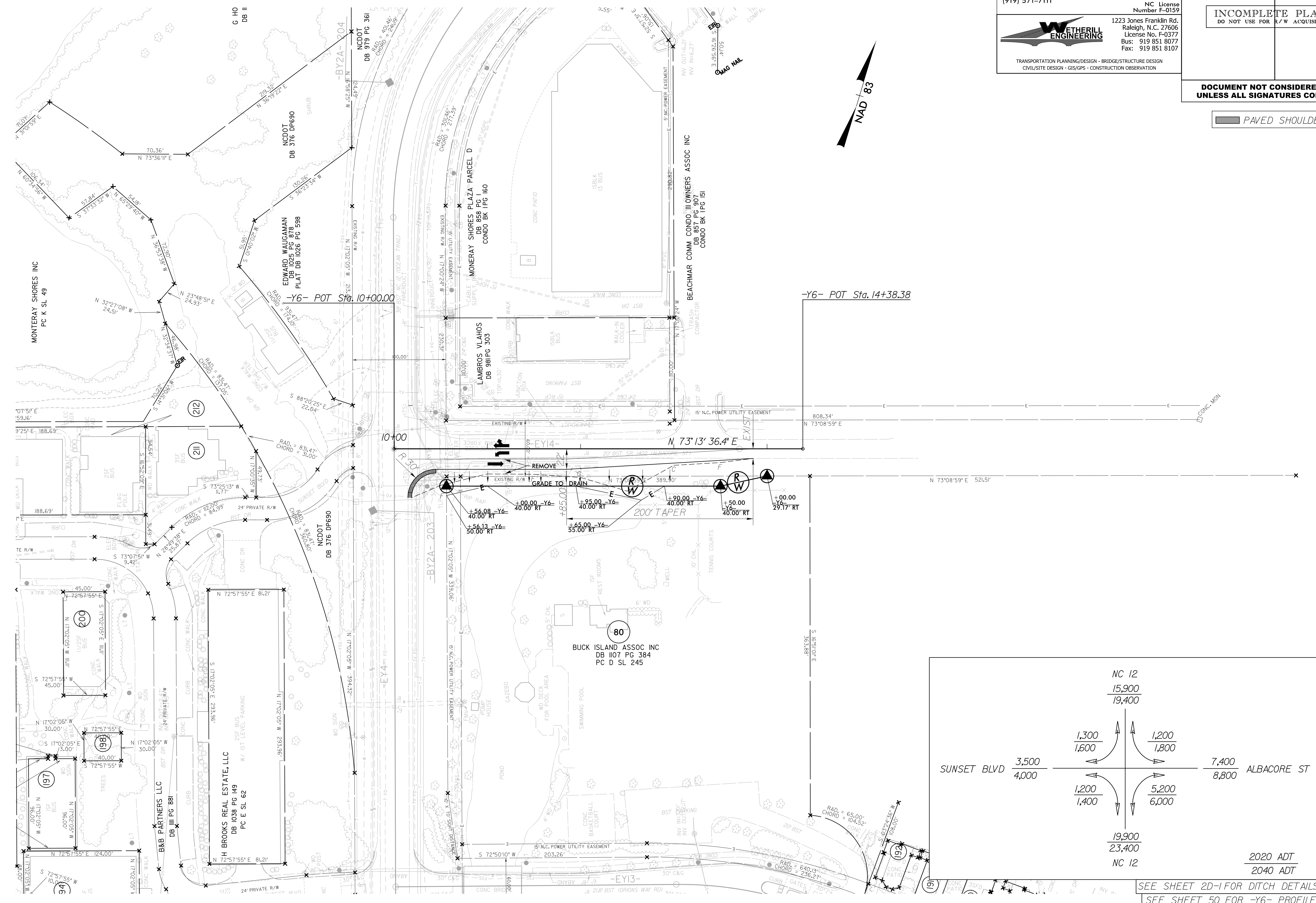
PROJECT REFERENCE NO. **R-2576** SHEET NO. **28**

ROADWAY DESIGN ENGINEER
PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
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PAVED SHOULDER



SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEET 50 FOR -Y6- PROFILE

6/2/99

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Number F-0159



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

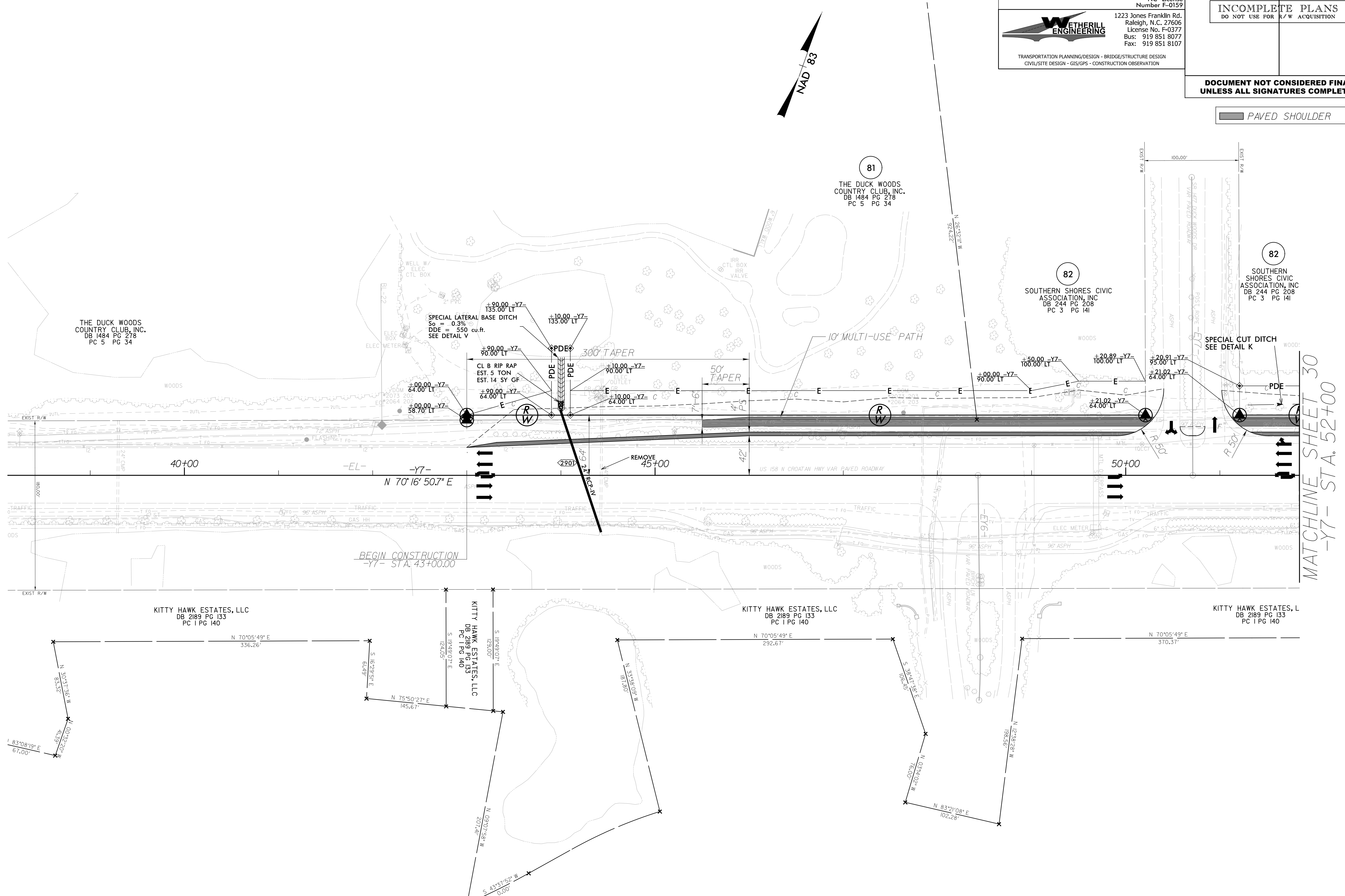
R-2576 29

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

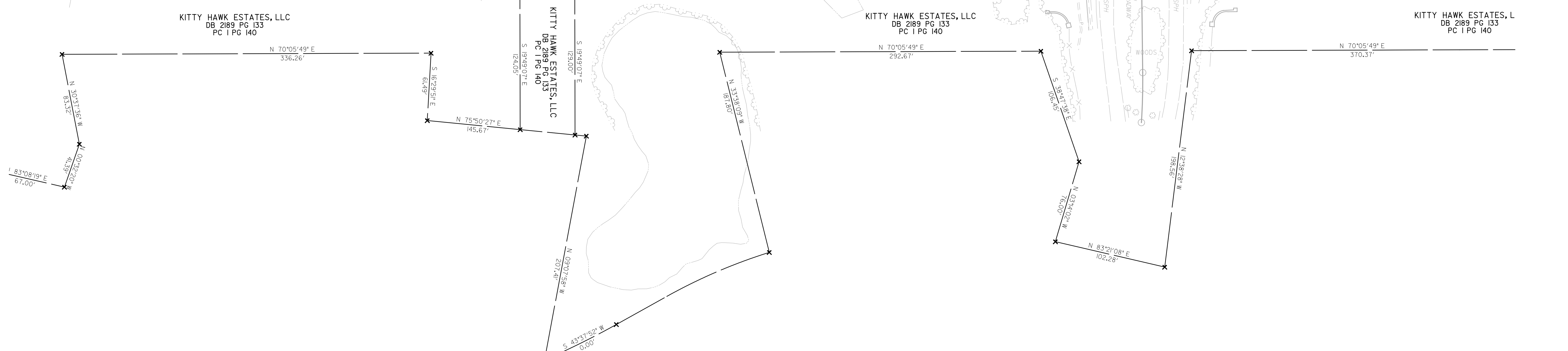
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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PAVED SHOULDER



MATCHLINE SHEET 30
-Y7- STA. 52+00



SEE SHEET 2D-I FOR DITCH DETAILS
SEE SHEET 50 FOR -Y7- PROFILE

8/3/2020
R. G. F. R. D. - psh29.dgn
C. DICKLEY

INCOMPLETE PLANS
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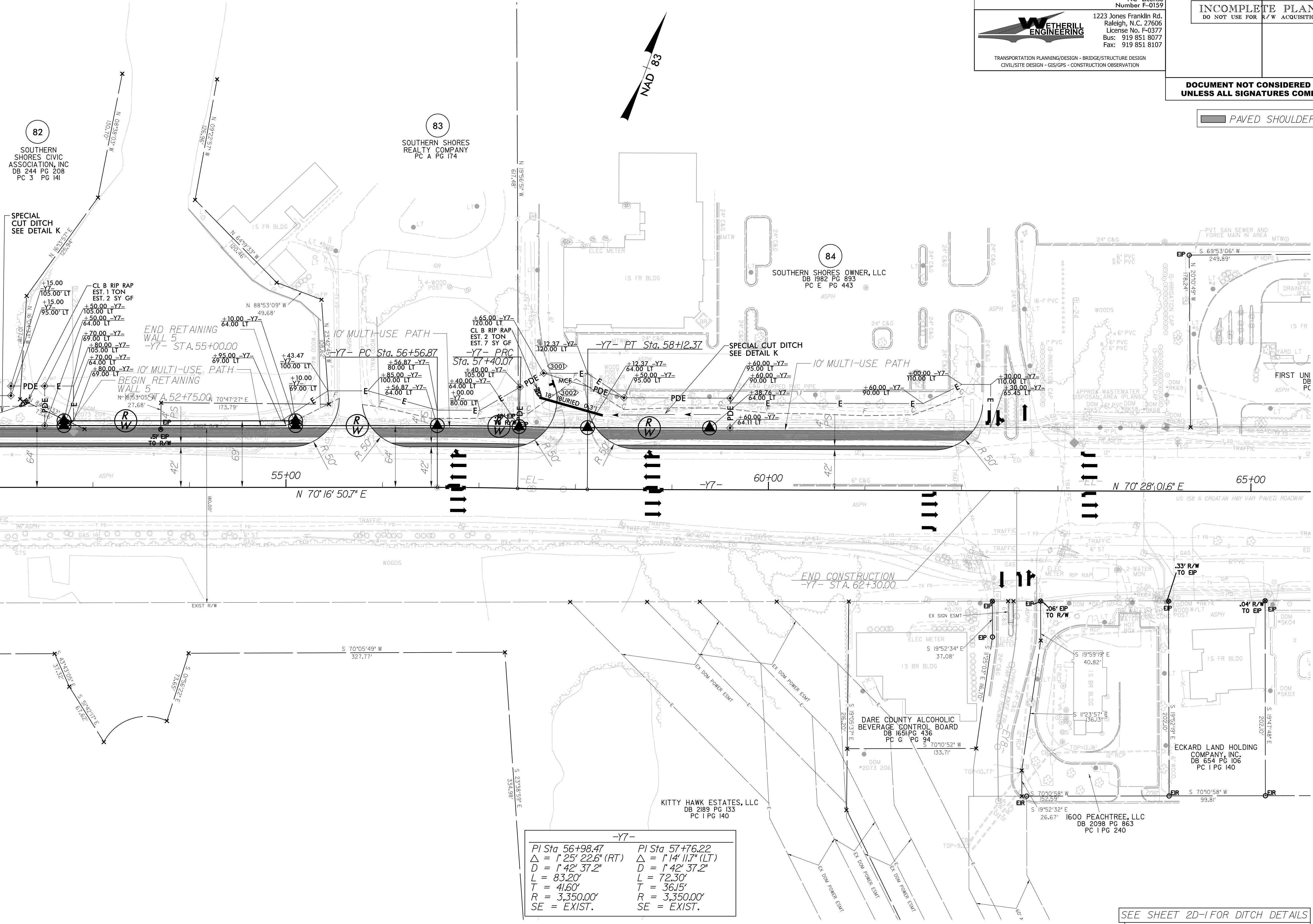
NC License Number F-0159
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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PAVED SHOULDER

MATCHLINE SHEET 29
-Y7- STA. 52+00



-Y7-	
PI Sta. 56+98.47	PI Sta. 57+76.22
$\Delta = 1' 25' 22.6''$ (RT)	$\Delta = 1' 14' 11.7''$ (LT)
$D = 1' 42' 37.2''$	$D = 1' 42' 37.2''$
$L = 83.20'$	$L = 72.30'$
$T = 41.60'$	$T = 36.15'$
$R = 3,350.00'$	$R = 3,350.00'$
SE = EXIST.	SE = EXIST.

SEE SHEET 2D-I FOR DITCH DETAILS
SEE SHEET 5I FOR -Y7- PROFILE

5/28/99

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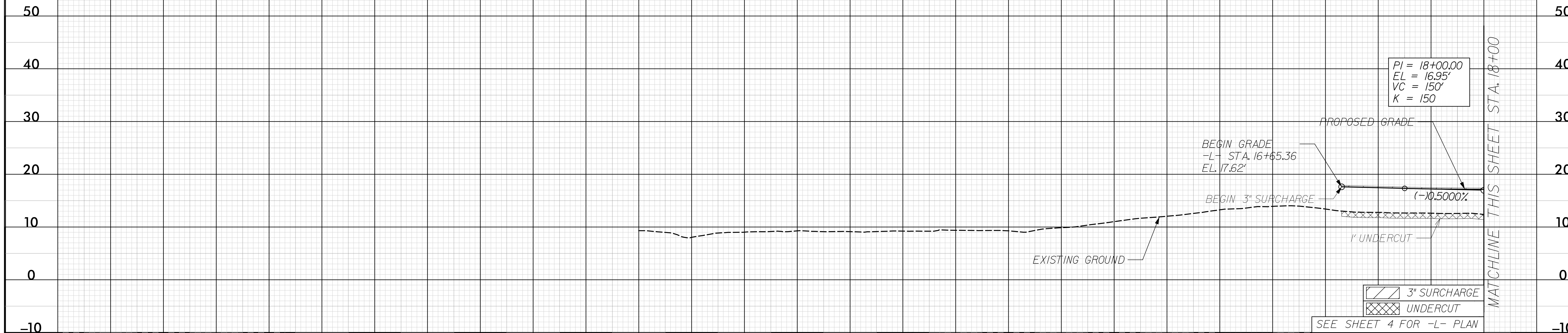
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 31

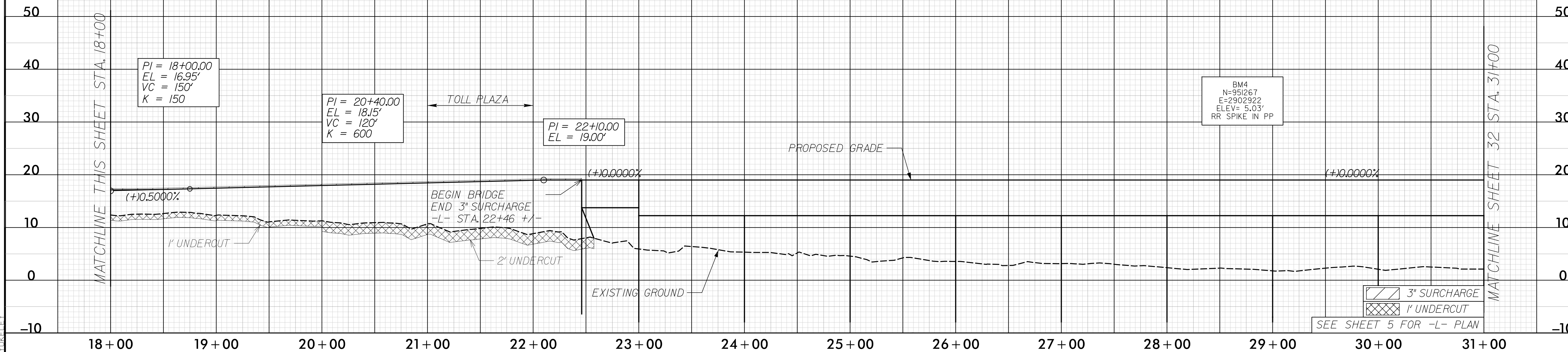
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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8/3/2020
R-2576-Four-pl-31.dgn
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-L-



3' SURCHARGE
1' UNDERCUT
SEE SHEET 5 FOR -L- PLAN

5/28/99

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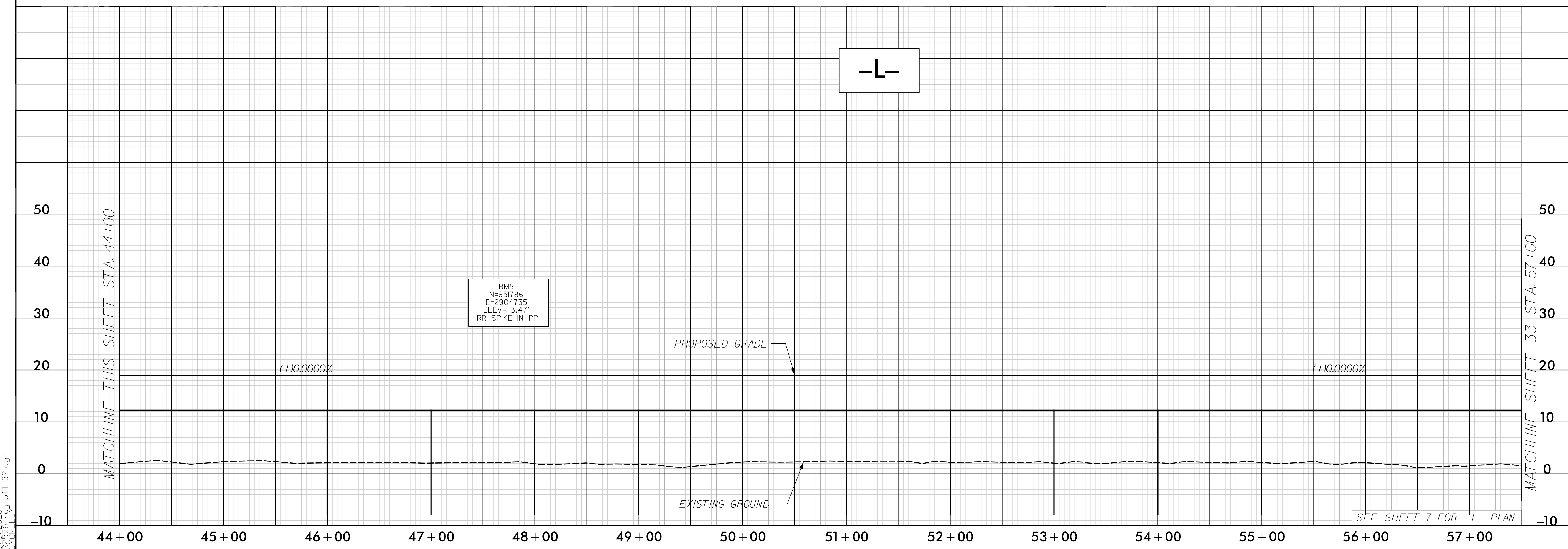
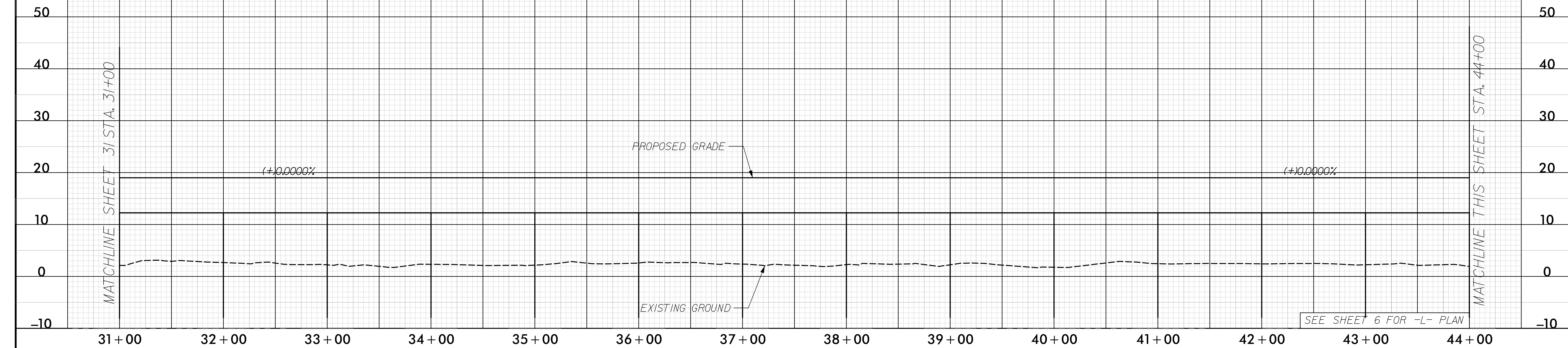
1223 Jones Franklin Rd.
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Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 32

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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R-2576-FGU-P1-32.dgn
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Number F-0159



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

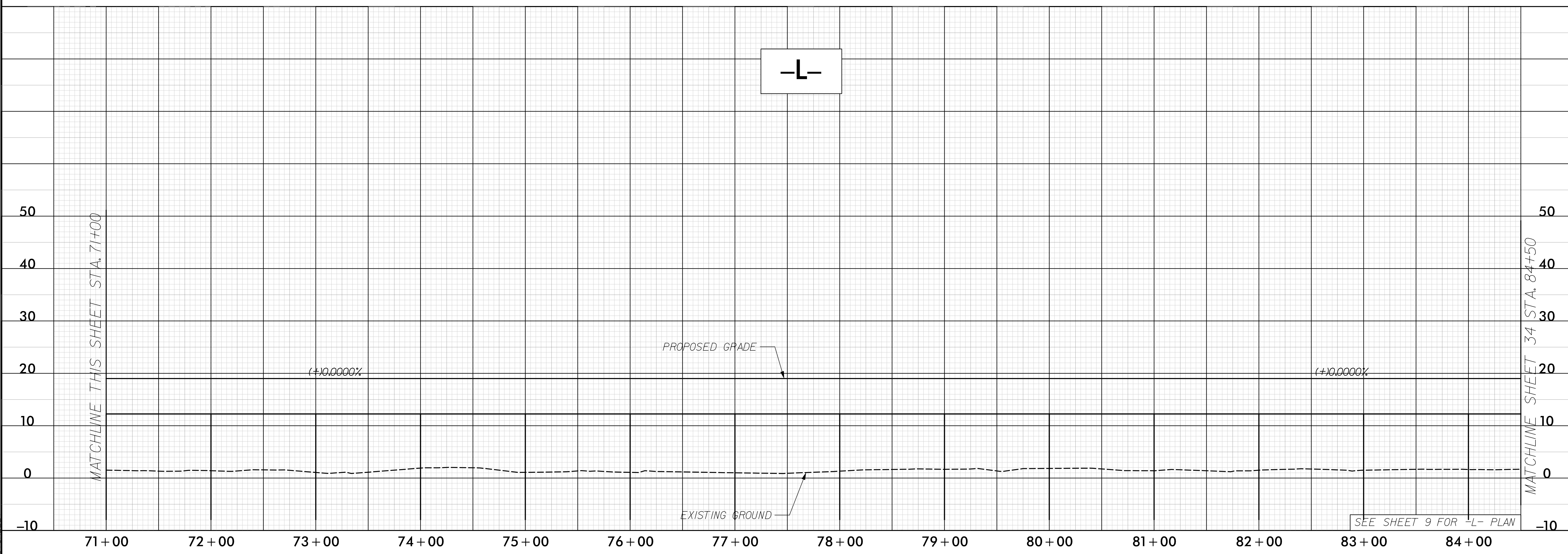
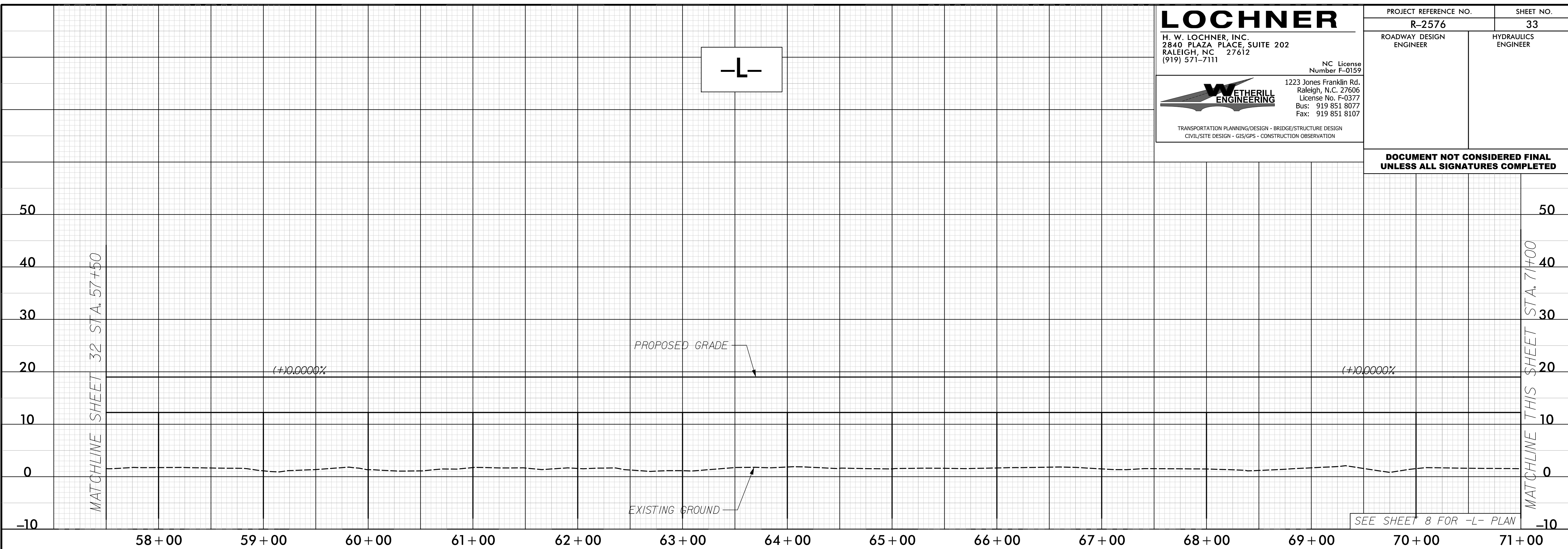
SHEET NO.

33

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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8/3/2020
R03/26/2020
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5/28/99

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

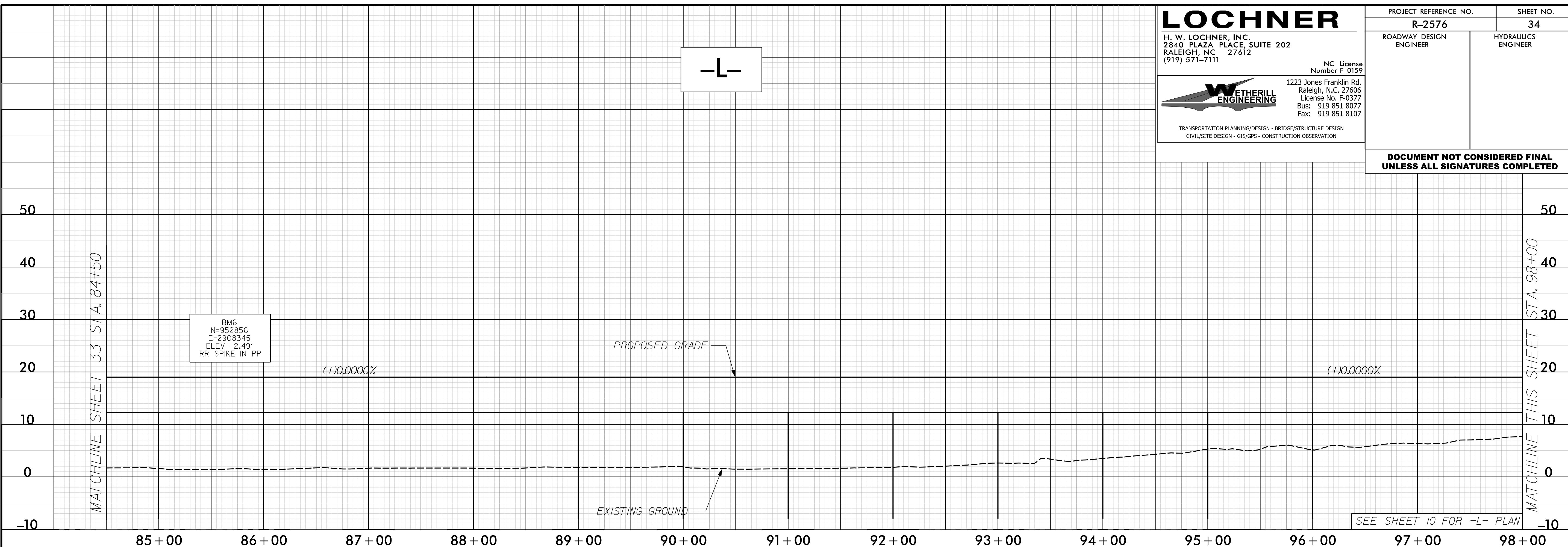
SHEET NO.

34

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

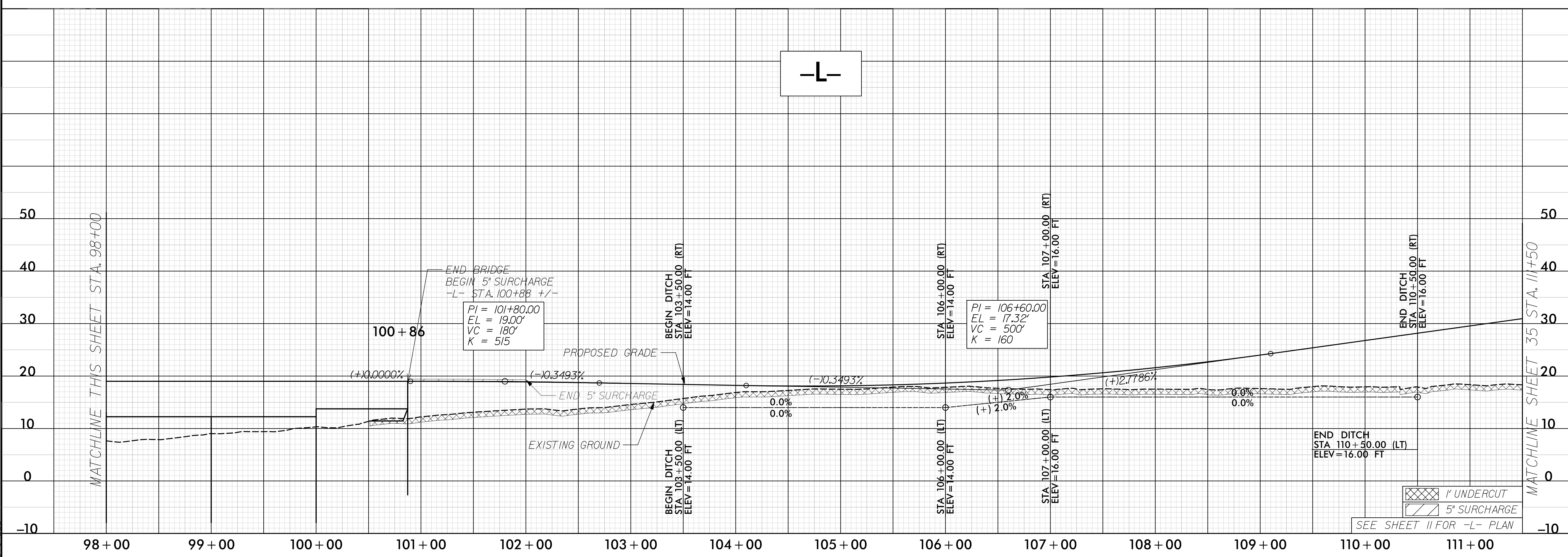
**DOCUMENT NOT CONSIDERED FINAL
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BMG
N=952856
E=2908345
ELEV= 2.49'
RR SPIKE IN PP

-L-

SEE SHEET 10 FOR -L- PLAN



END BRIDGE
BEGIN 5' SURCHARGE
-L- STA. 100+86 +/-
PI = 101+80.00
EL = 19.00'
VC = 180'
K = 515

PI = 106+60.00
EL = 17.32'
VC = 500'
K = 160

1' UNDERCUT
5' SURCHARGE

SEE SHEET 11 FOR -L- PLAN

-L-

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R0076-F04-P1-34.dgn
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WETHERILL
ENGINEERING

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

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SHEET NO.

35

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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PIPE HYDRAULIC DATA		
18" RCP-IV Sta. 114+00 -L-		
DRAINAGE AREA	= 3.3	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4.7	CFS
DESIGN HW ELEVATION	= 16.4	FT
100 YEAR DISCHARGE	= 5.2	CFS
100 YEAR HW ELEVATION	= 16.5	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 10.3	CFS
OVERTOPPING ELEVATION	= 18.2	FT

-L-

CL -Y3-
NARROW SHORE RD.

PI = 118+00.00
EL = 49.00'
VC = 900'
K = 156

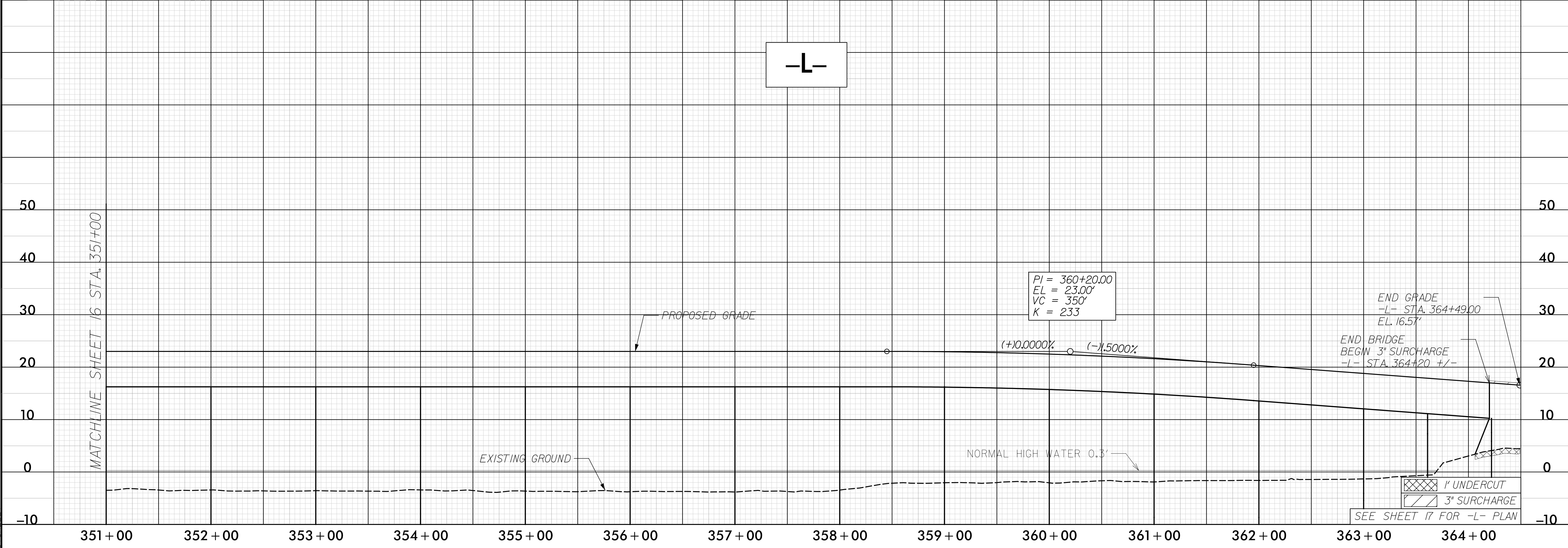
BM8
N=954241
E=2911362
ELEV= 20.17'
RR SPIKE IN 14' PINE



-L-

PI = 360+20.00
EL = 23.00'
VC = 350'
K = 233

END GRADE
-L- STA. 364+49.00
EL. 16.57'
END BRIDGE
BEGIN 3' SURCHARGE
-L- STA. 364+20 +/-



8/3/2020
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

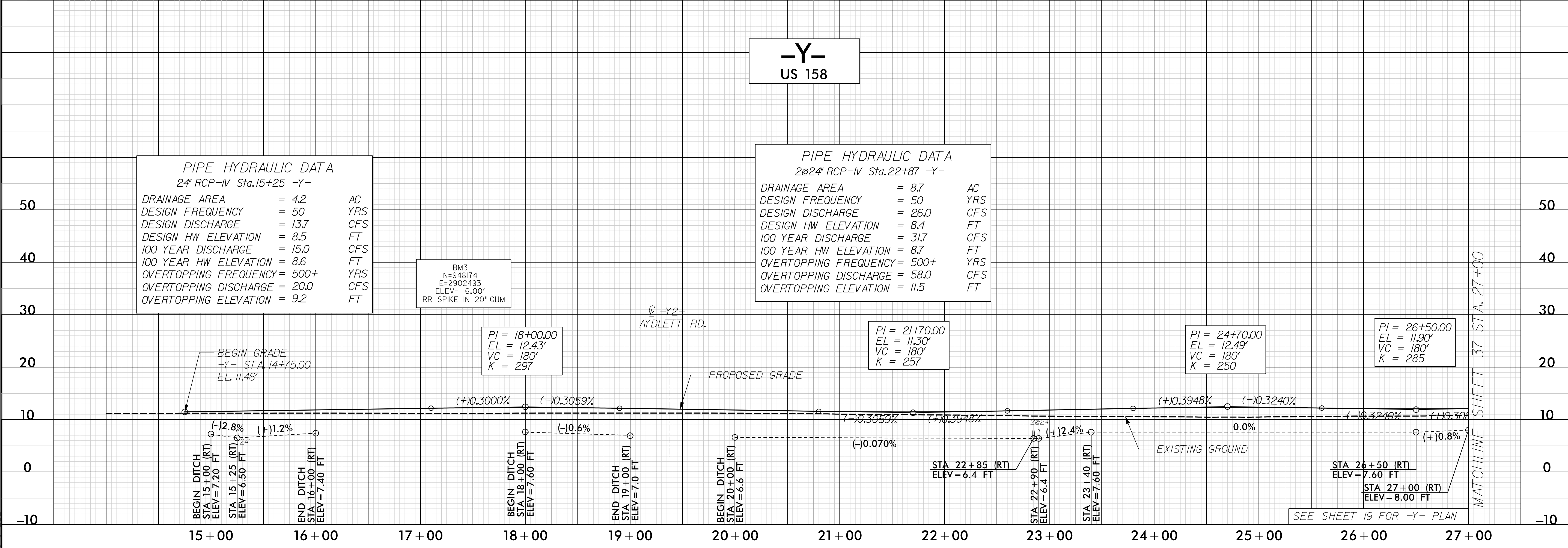
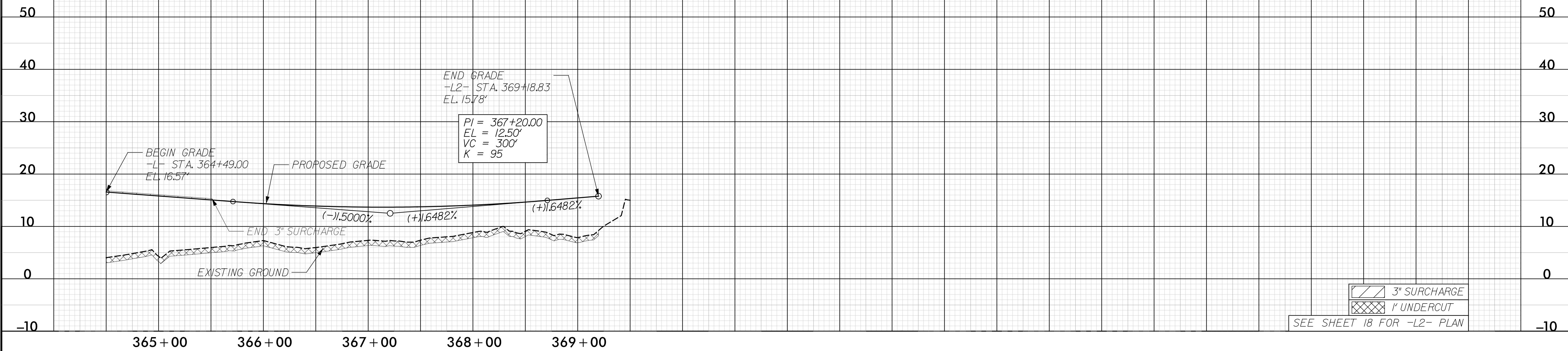
SHEET NO.

36

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

37

ROADWAY DESIGN
ENGINEER

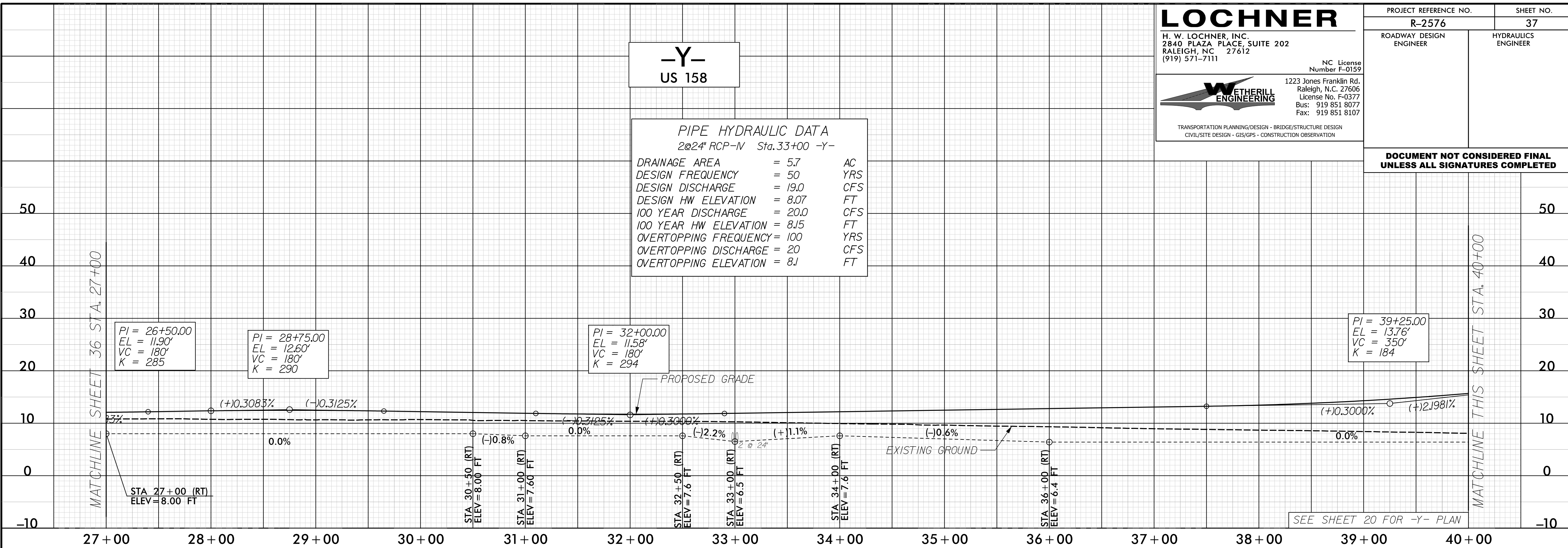
HYDRAULICS
ENGINEER

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-Y-
US 158

PIPE HYDRAULIC DATA
2@24" RCP-IV Sta.33+00 -Y-

DRAINAGE AREA	= 5.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 19.0	CFS
DESIGN HW ELEVATION	= 8.07	FT
100 YEAR DISCHARGE	= 20.0	CFS
100 YEAR HW ELEVATION	= 8.15	FT
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING DISCHARGE	= 20	CFS
OVERTOPPING ELEVATION	= 8.1	FT



-Y-
US 158

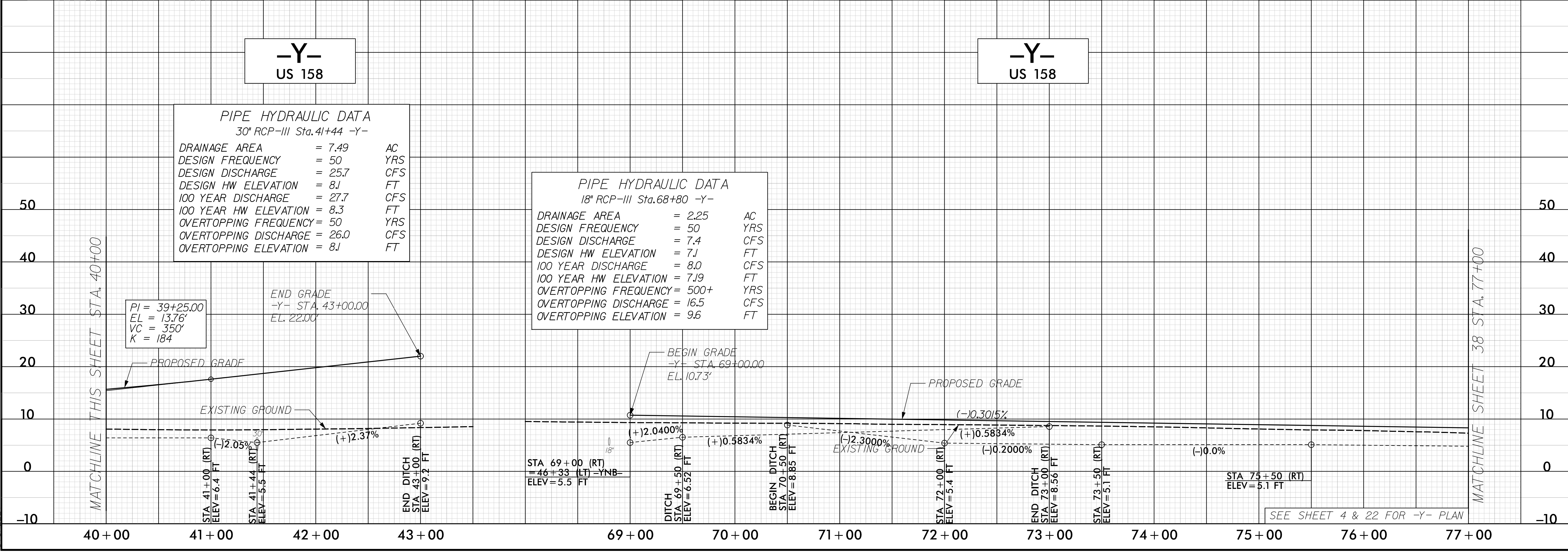
-Y-
US 158

PIPE HYDRAULIC DATA
30" RCP-III Sta.41+44 -Y-

DRAINAGE AREA	= 7.49	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 25.7	CFS
DESIGN HW ELEVATION	= 8.1	FT
100 YEAR DISCHARGE	= 27.7	CFS
100 YEAR HW ELEVATION	= 8.3	FT
OVERTOPPING FREQUENCY	= 50	YRS
OVERTOPPING DISCHARGE	= 26.0	CFS
OVERTOPPING ELEVATION	= 8.1	FT

PIPE HYDRAULIC DATA
18" RCP-III Sta.68+80 -Y-

DRAINAGE AREA	= 2.25	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 7.4	CFS
DESIGN HW ELEVATION	= 7.1	FT
100 YEAR DISCHARGE	= 8.0	CFS
100 YEAR HW ELEVATION	= 7.19	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 16.5	CFS
OVERTOPPING ELEVATION	= 9.6	FT



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NC License
Number F-0159



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Fax: 919 851 8107

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 38

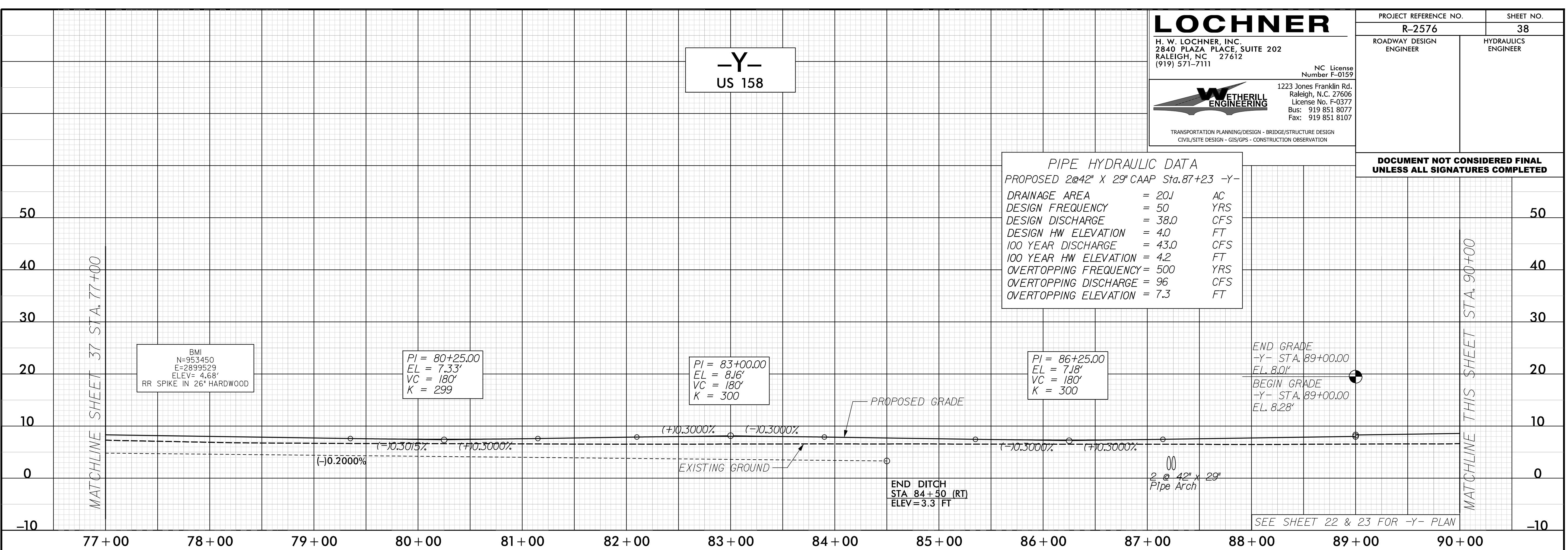
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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

-Y-
US 158

PIPE HYDRAULIC DATA
PROPOSED 2@42" X 29" CAAP Sta.87+23 -Y-

DRAINAGE AREA	= 20.1	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 38.0	CFS
DESIGN HW ELEVATION	= 4.0	FT
100 YEAR DISCHARGE	= 43.0	CFS
100 YEAR HW ELEVATION	= 4.2	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 96	CFS
OVERTOPPING ELEVATION	= 7.3	FT

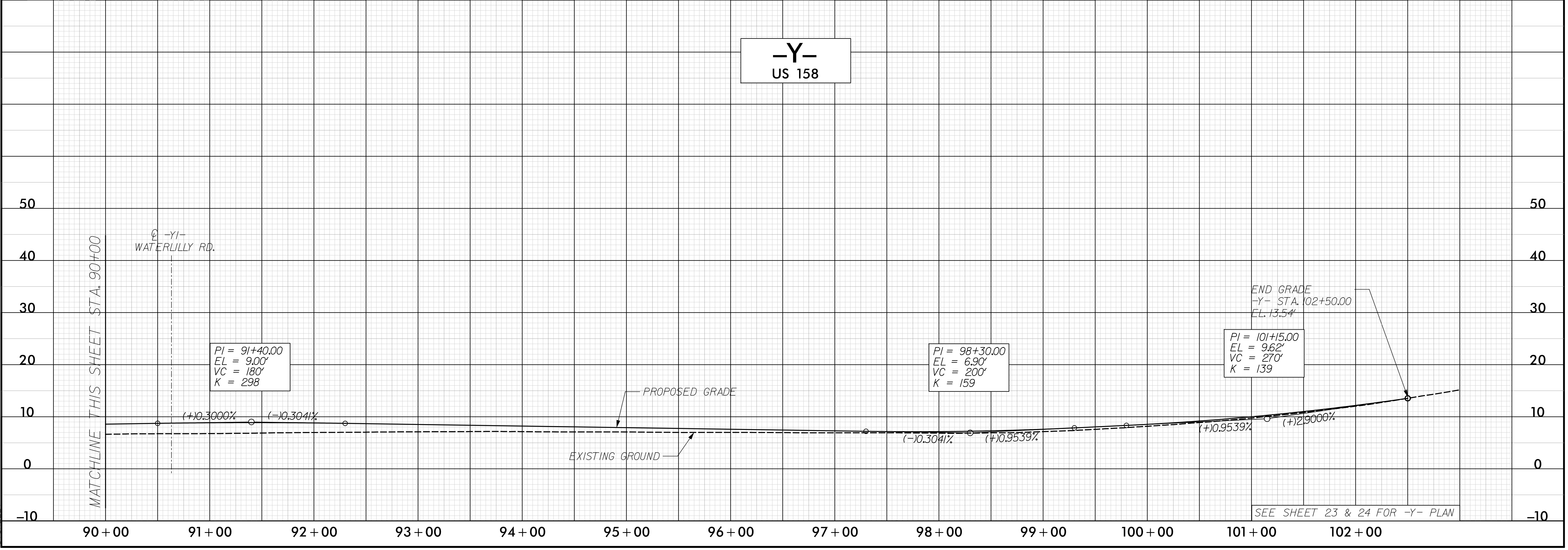


MATCHLINE SHEET 37 STA. 77+00

MATCHLINE THIS SHEET STA. 90+00

77+00 78+00 79+00 80+00 81+00 82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00

-Y-
US 158



MATCHLINE THIS SHEET STA. 90+00

SEE SHEET 23 & 24 FOR -Y- PLAN

90+00 91+00 92+00 93+00 94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00

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-Y_SB- US 158

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 RALEIGH, NC 27612
 (919) 571-7111

NC License
 Number F-0159

WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

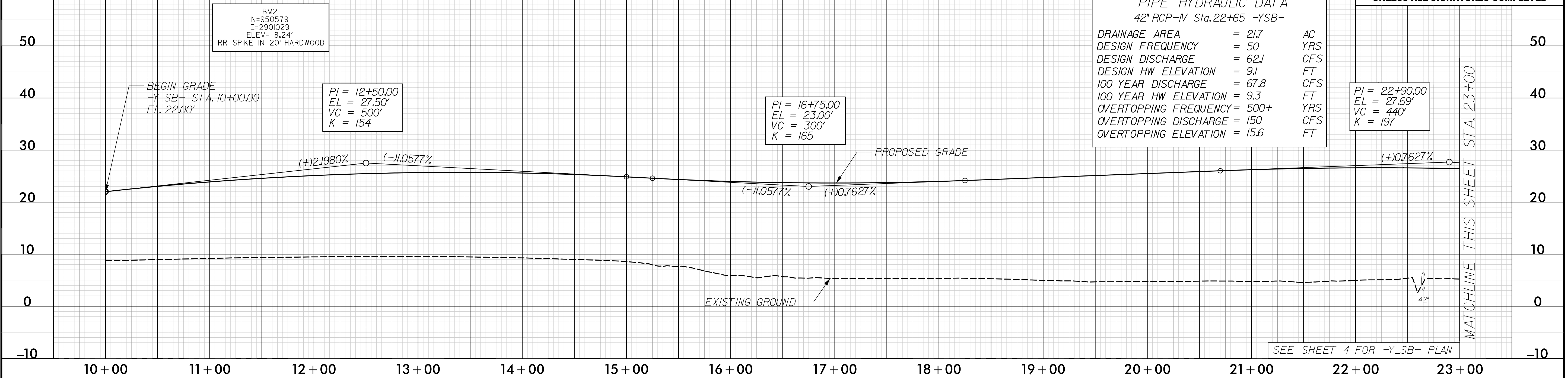
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 39
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PIPE HYDRAULIC DATA
 42" RCP-IV Sta. 22+65 -YSB-

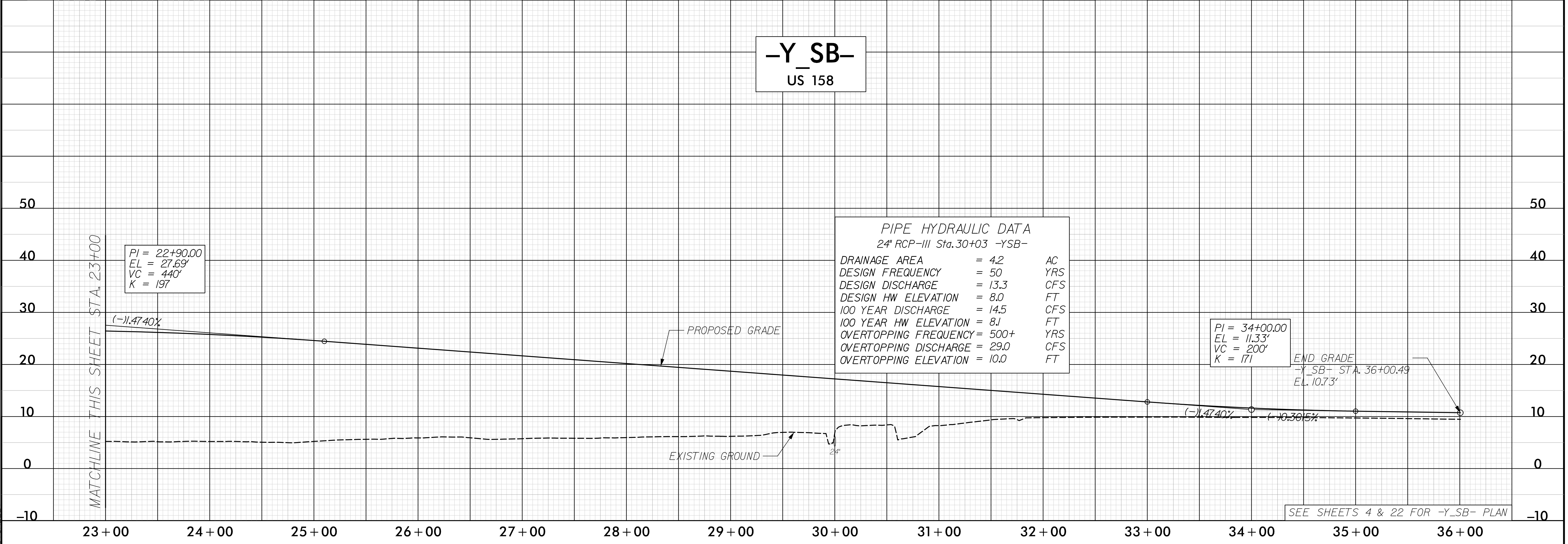
DRAINAGE AREA	= 21.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 62.1	CFS
DESIGN HW ELEVATION	= 9.1	FT
100 YEAR DISCHARGE	= 67.8	CFS
100 YEAR HW ELEVATION	= 9.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 150	CFS
OVERTOPPING ELEVATION	= 15.6	FT



-Y_SB- US 158

PIPE HYDRAULIC DATA
 24" RCP-III Sta. 30+03 -YSB-

DRAINAGE AREA	= 4.2	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 13.3	CFS
DESIGN HW ELEVATION	= 8.0	FT
100 YEAR DISCHARGE	= 14.5	CFS
100 YEAR HW ELEVATION	= 8.1	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 29.0	CFS
OVERTOPPING ELEVATION	= 10.0	FT



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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

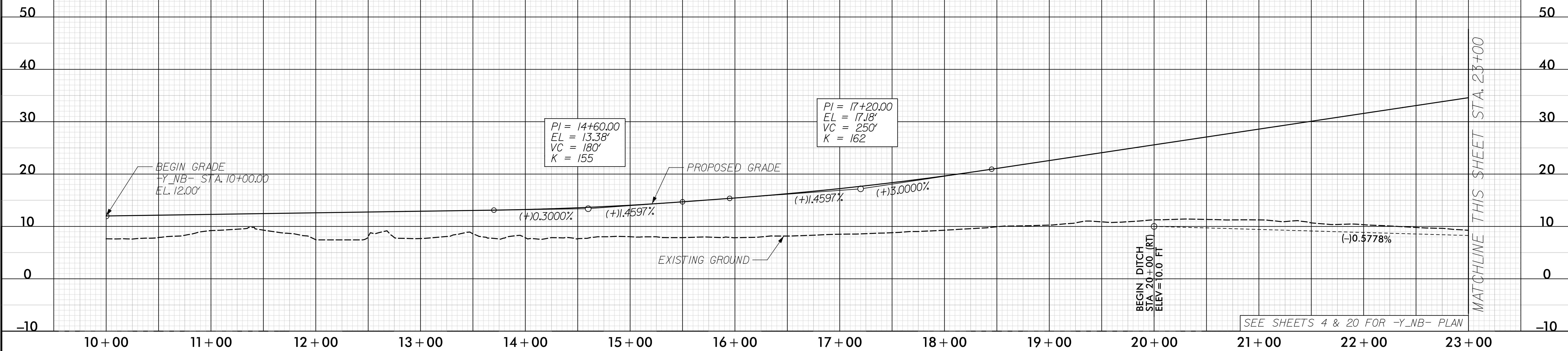
PROJECT REFERENCE NO.
R-2576

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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-Y_NB- US 158



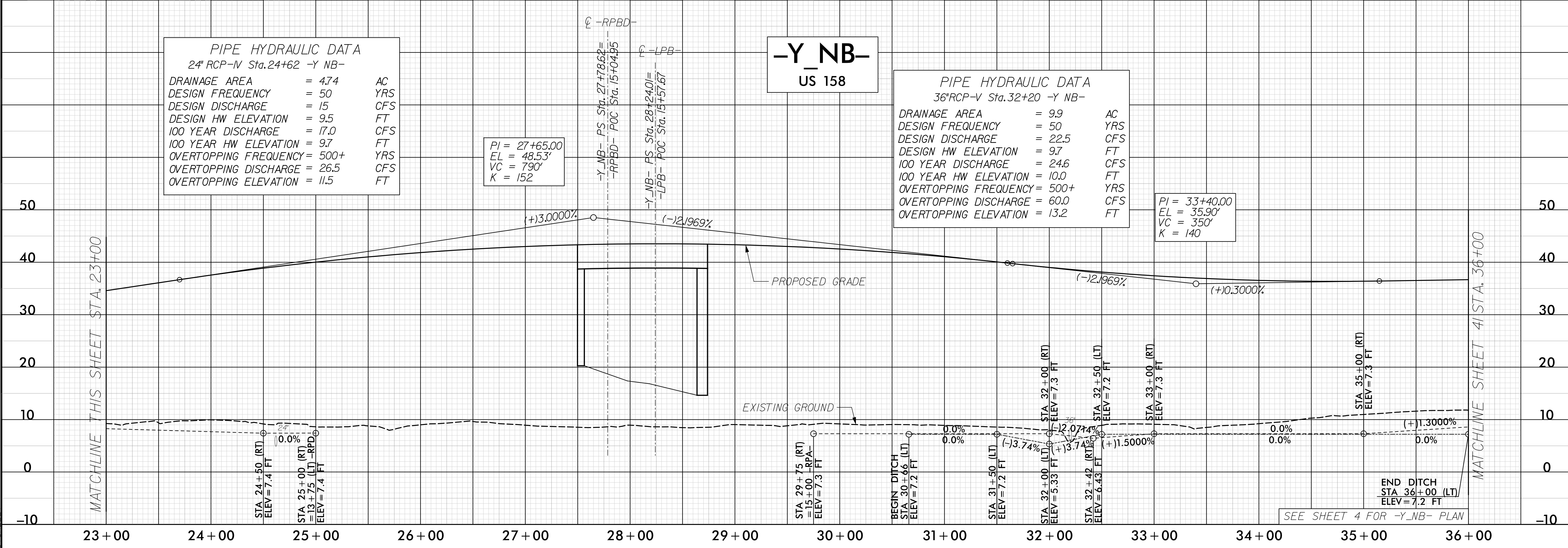
PIPE HYDRAULIC DATA
24" RCP-V Sta. 24+62 -Y NB-

DRAINAGE AREA	= 4.74	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 15	CFS
DESIGN HW ELEVATION	= 9.5	FT
100 YEAR DISCHARGE	= 17.0	CFS
100 YEAR HW ELEVATION	= 9.7	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 26.5	CFS
OVERTOPPING ELEVATION	= 11.5	FT

-Y_NB- US 158

PIPE HYDRAULIC DATA
36" RCP-V Sta. 32+20 -Y NB-

DRAINAGE AREA	= 9.9	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 22.5	CFS
DESIGN HW ELEVATION	= 9.7	FT
100 YEAR DISCHARGE	= 24.6	CFS
100 YEAR HW ELEVATION	= 10.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 60.0	CFS
OVERTOPPING ELEVATION	= 13.2	FT



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SHEET NO.

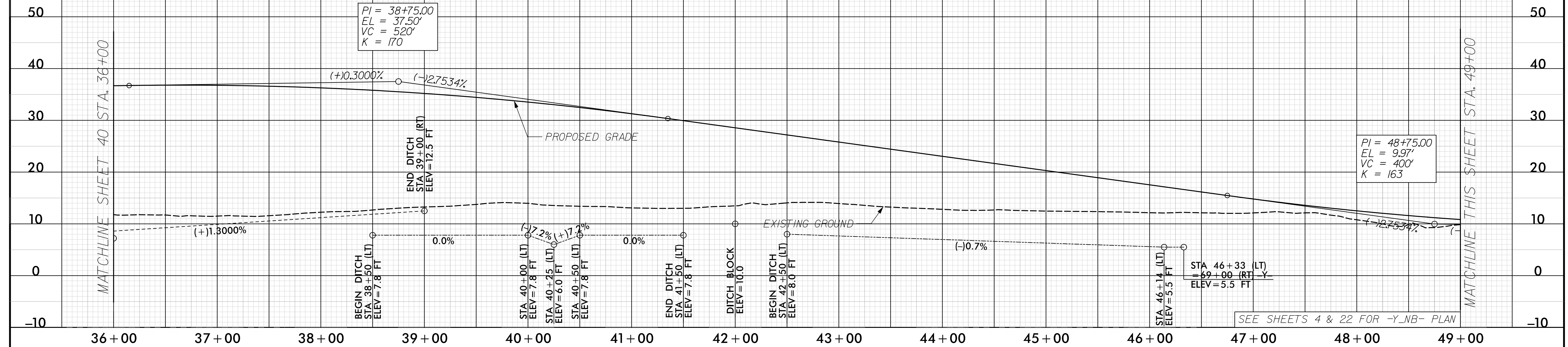
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ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

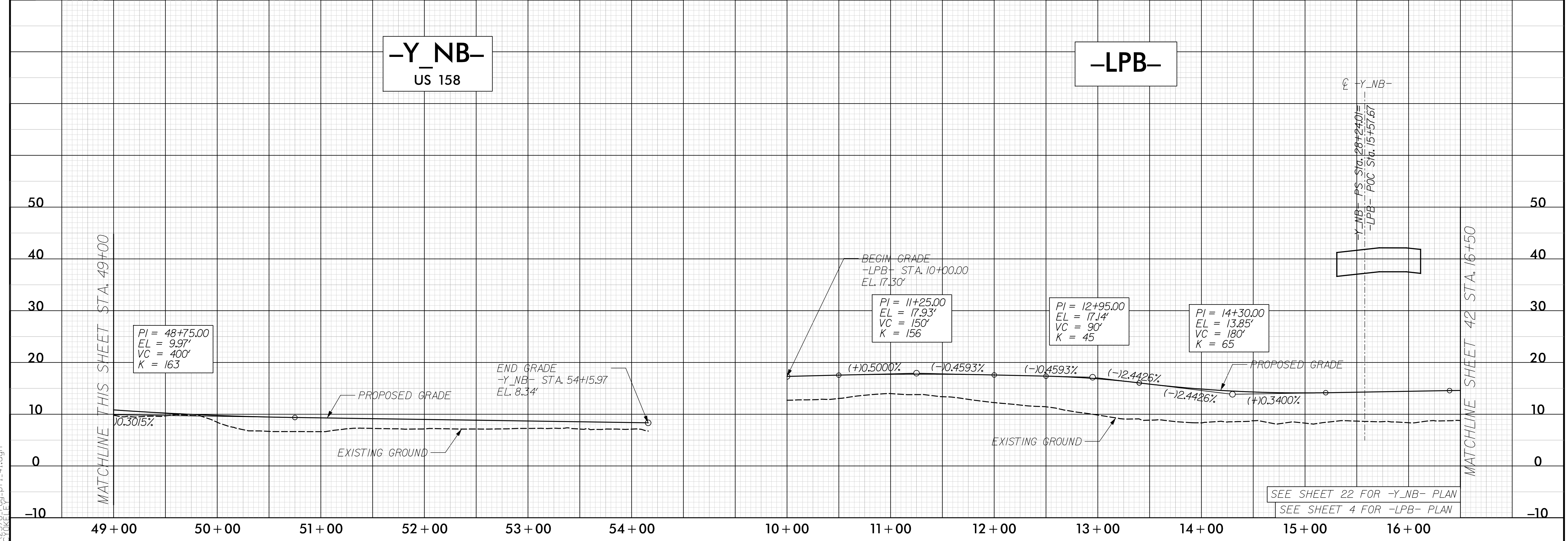
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-Y_NB- US 158



-Y_NB- US 158

-LPB-



SEE SHEET 22 FOR -Y_NB- PLAN
SEE SHEET 4 FOR -LPB- PLAN

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SHEET NO.

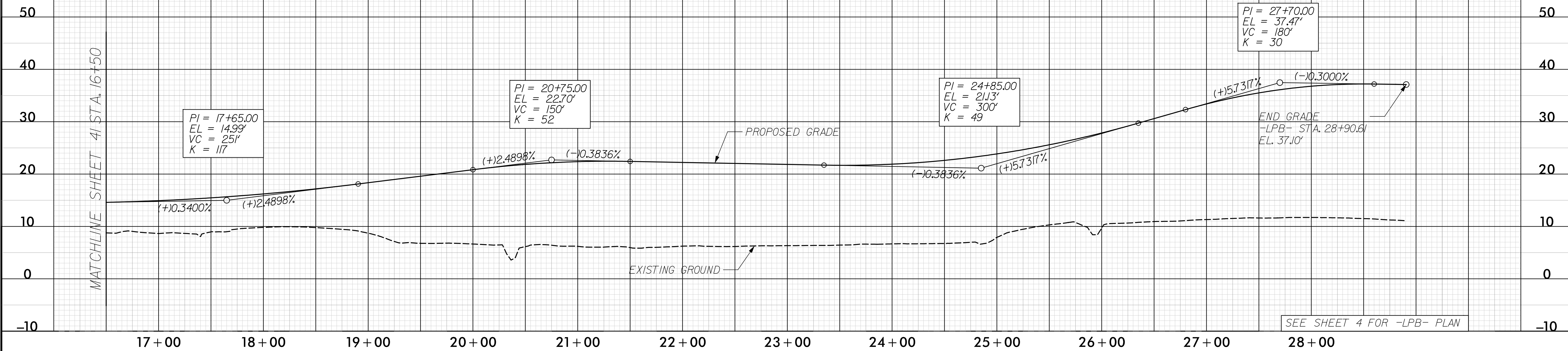
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ROADWAY DESIGN
ENGINEER

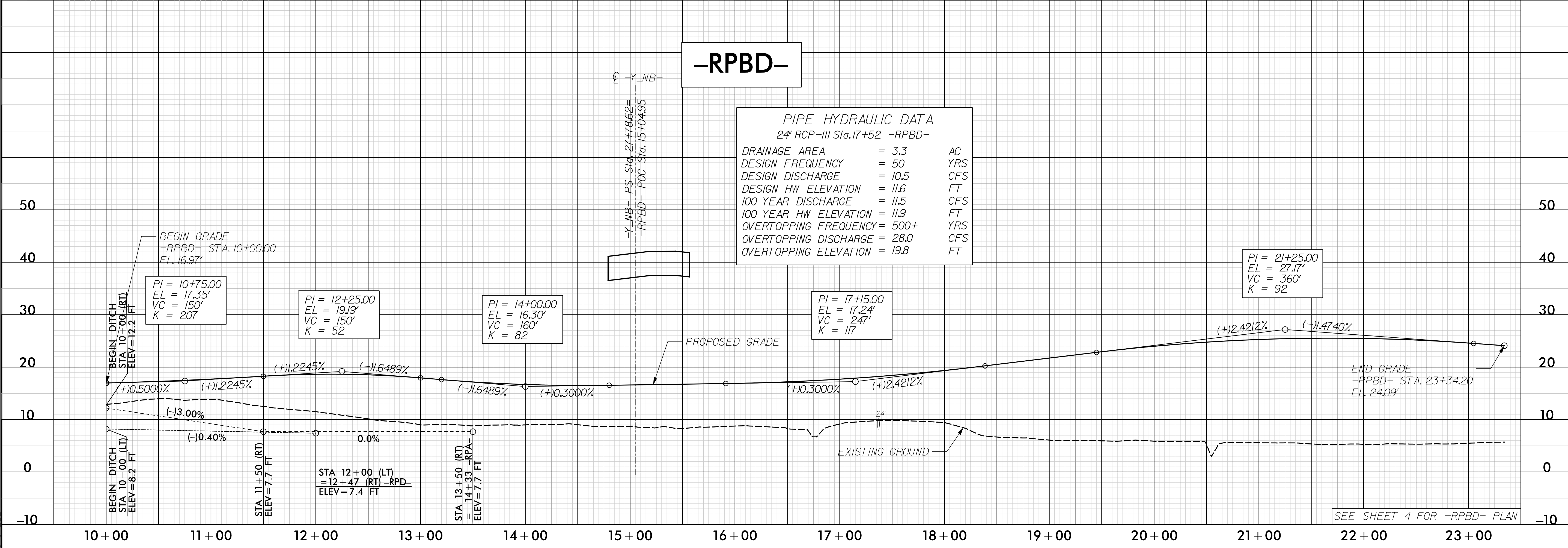
HYDRAULICS
ENGINEER

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-LPB-



-RPBD-



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PROJECT REFERENCE NO.

R-2576

SHEET NO.

43

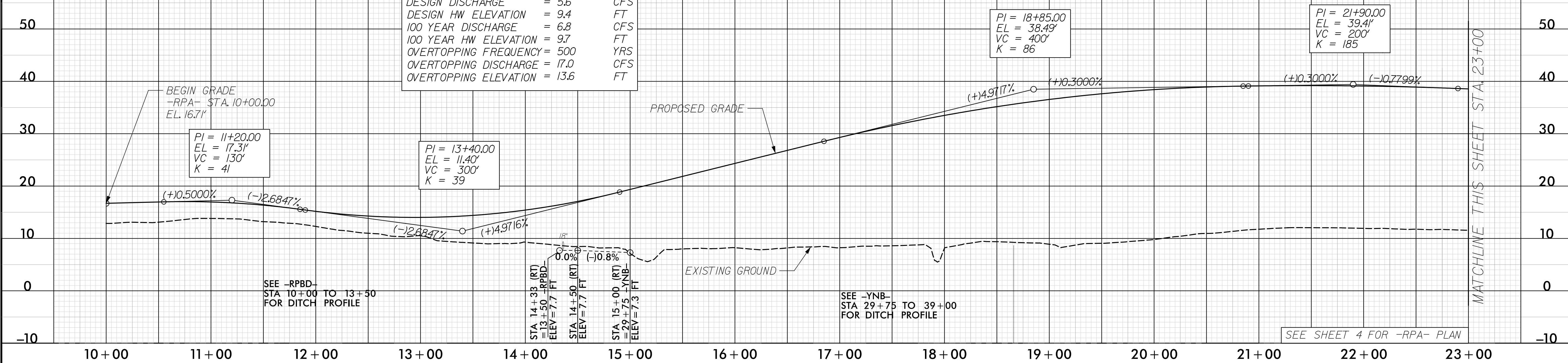
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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PIPE HYDRAULIC DATA
Proposed 18"-III RCP Sta.14+40 -RPA-

DRAINAGE AREA	= 1.46	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 5.6	CFS
DESIGN HW ELEVATION	= 9.4	FT
100 YEAR DISCHARGE	= 6.8	CFS
100 YEAR HW ELEVATION	= 9.7	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 17.0	CFS
OVERTOPPING ELEVATION	= 13.6	FT



-RPA-

PI = 18+85.00
EL = 38.49'
VC = 400'
K = 86

PI = 21+90.00
EL = 39.41'
VC = 200'
K = 185

PI = 11+20.00
EL = 17.31'
VC = 130'
K = 41

PI = 13+40.00
EL = 11.40'
VC = 300'
K = 39

STA 14+33 (RT)
= 13+50 -RPBD-
ELEV = 7.7 FT

STA 14+50 (RT)
ELEV = 7.7 FT

STA 15+00 (RT)
= 29+75 -YNB-
ELEV = 7.3 FT

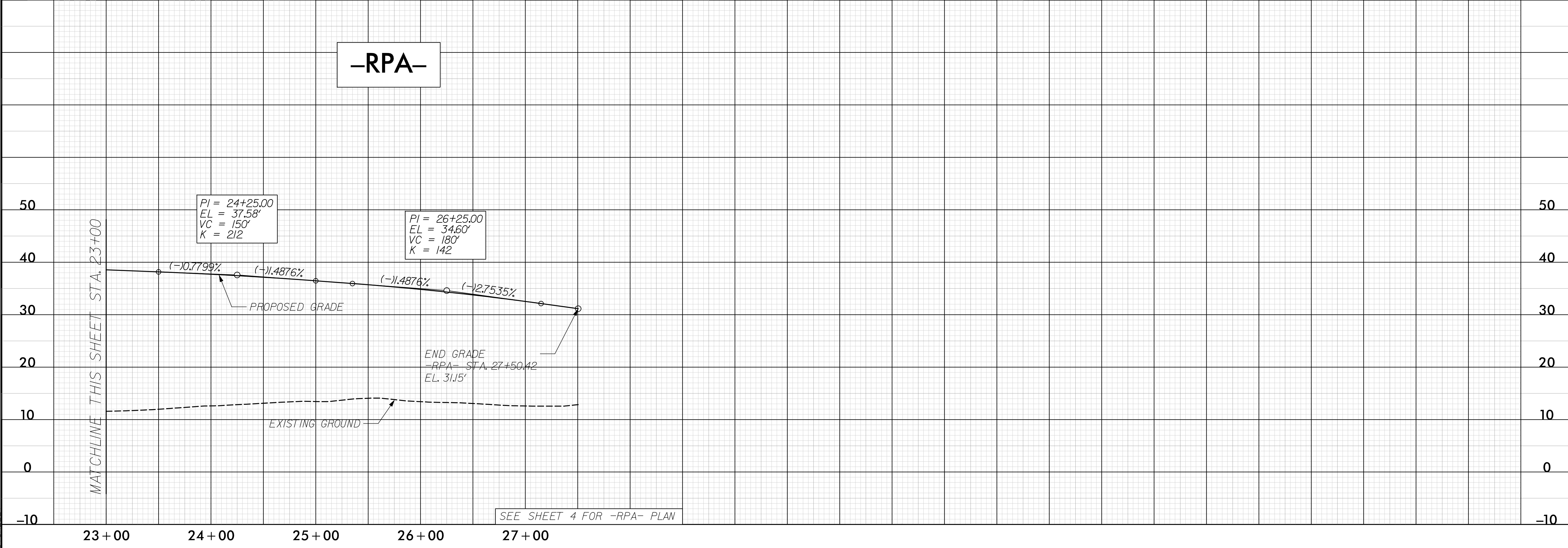
SEE -RPBD-
STA 10+00 TO 13+50
FOR DITCH PROFILE

SEE -YNB-
STA 29+75 TO 39+00
FOR DITCH PROFILE

SEE SHEET 4 FOR -RPA- PLAN

MATCHLINE THIS SHEET STA. 23+00

-RPA-



PI = 24+25.00
EL = 37.58'
VC = 150'
K = 212

PI = 26+25.00
EL = 34.60'
VC = 180'
K = 142

END GRADE
-RPA- STA. 27+50.42
EL. 31.15'

SEE SHEET 4 FOR -RPA- PLAN

MATCHLINE THIS SHEET STA. 23+00

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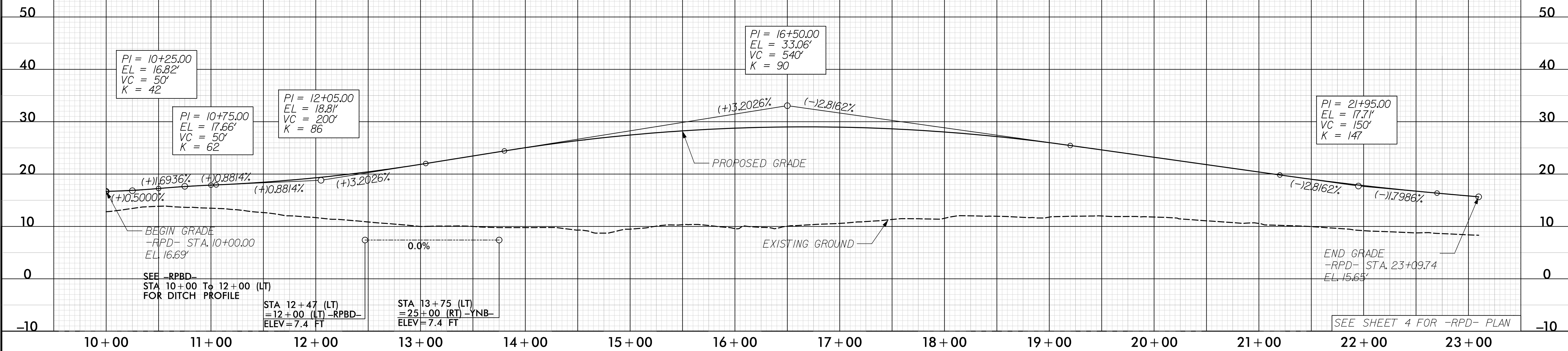
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 44

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

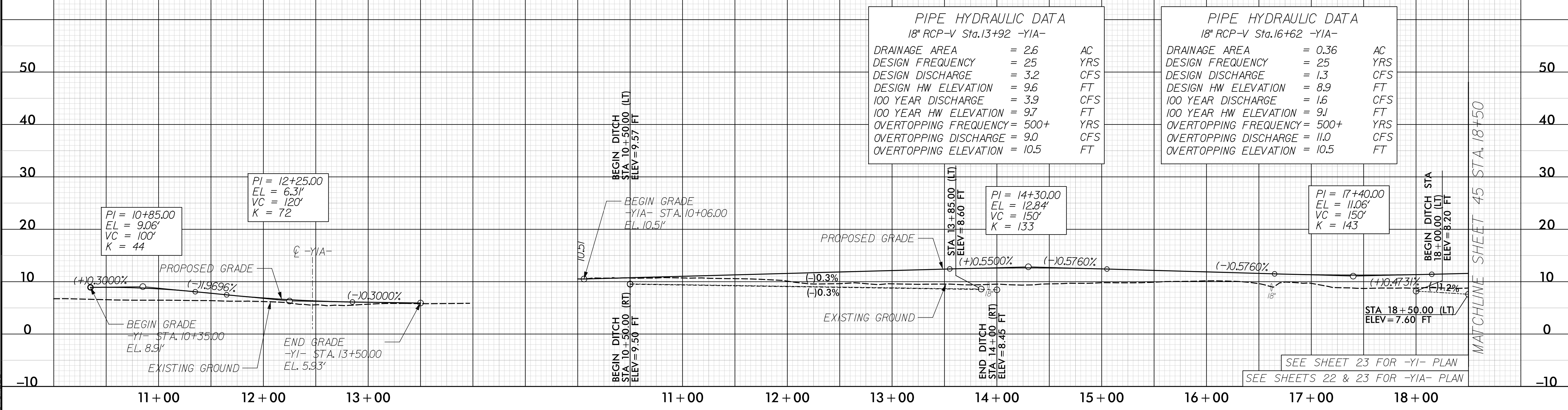
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-RPD-



-Y1- WATERLILLY RD

-Y1A-



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PROJECT REFERENCE NO. SHEET NO.

R-2576 45

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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-Y1A-

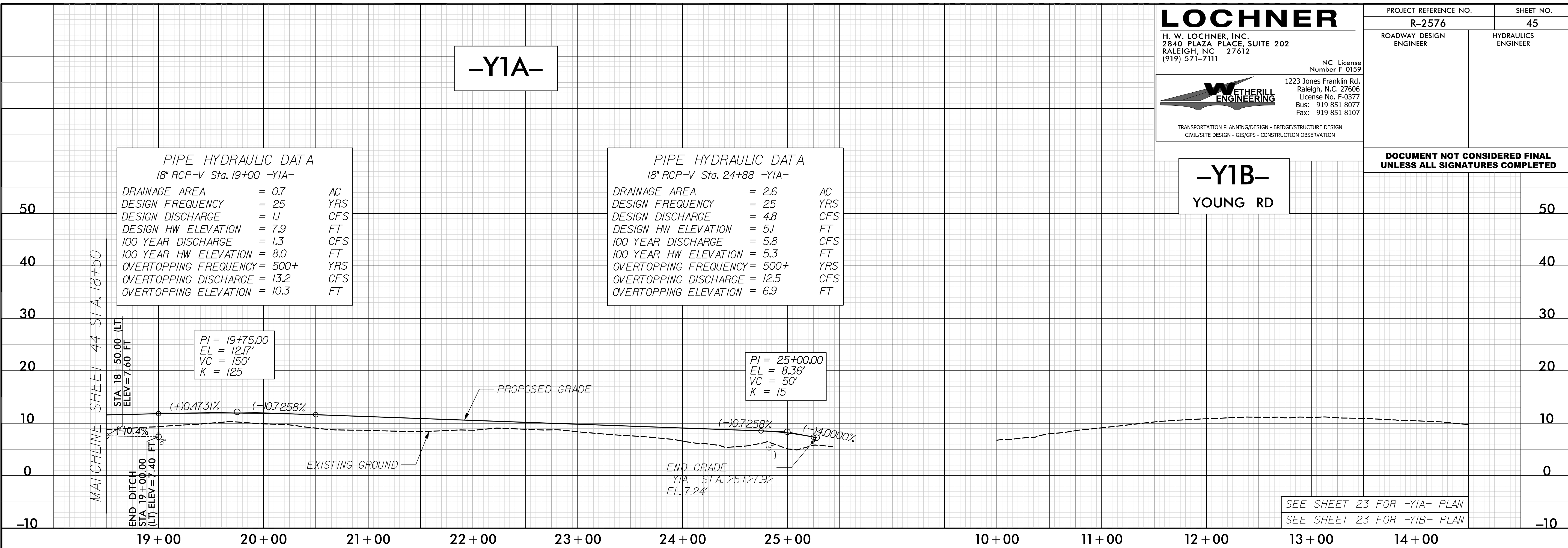
PIPE HYDRAULIC DATA
18" RCP-V Sta. 19+00 -Y1A-

DRAINAGE AREA	= 0.7	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 1.1	CFS
DESIGN HW ELEVATION	= 7.9	FT
100 YEAR DISCHARGE	= 1.3	CFS
100 YEAR HW ELEVATION	= 8.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 13.2	CFS
OVERTOPPING ELEVATION	= 10.3	FT

PIPE HYDRAULIC DATA
18" RCP-V Sta. 24+88 -Y1A-

DRAINAGE AREA	= 2.6	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.8	CFS
DESIGN HW ELEVATION	= 5.1	FT
100 YEAR DISCHARGE	= 5.8	CFS
100 YEAR HW ELEVATION	= 5.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 12.5	CFS
OVERTOPPING ELEVATION	= 6.9	FT

-Y1B- YOUNG RD



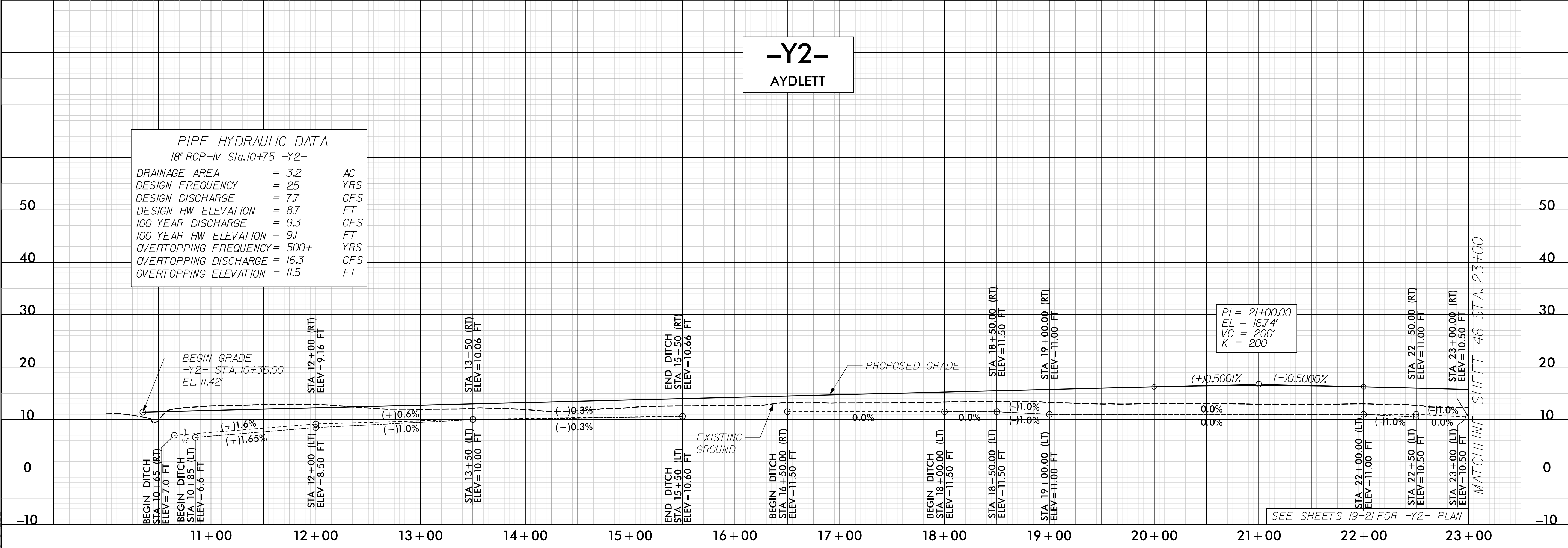
SEE SHEET 23 FOR -Y1A- PLAN
SEE SHEET 23 FOR -Y1B- PLAN

-Y2- AYDLETT

PIPE HYDRAULIC DATA
18" RCP-V Sta. 10+75 -Y2-

DRAINAGE AREA	= 3.2	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 7.7	CFS
DESIGN HW ELEVATION	= 8.7	FT
100 YEAR DISCHARGE	= 9.3	CFS
100 YEAR HW ELEVATION	= 9.1	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 16.3	CFS
OVERTOPPING ELEVATION	= 11.5	FT

PI = 21+00.00
EL = 16.74'
VC = 200'
K = 200



SEE SHEETS 19-21 FOR -Y2- PLAN

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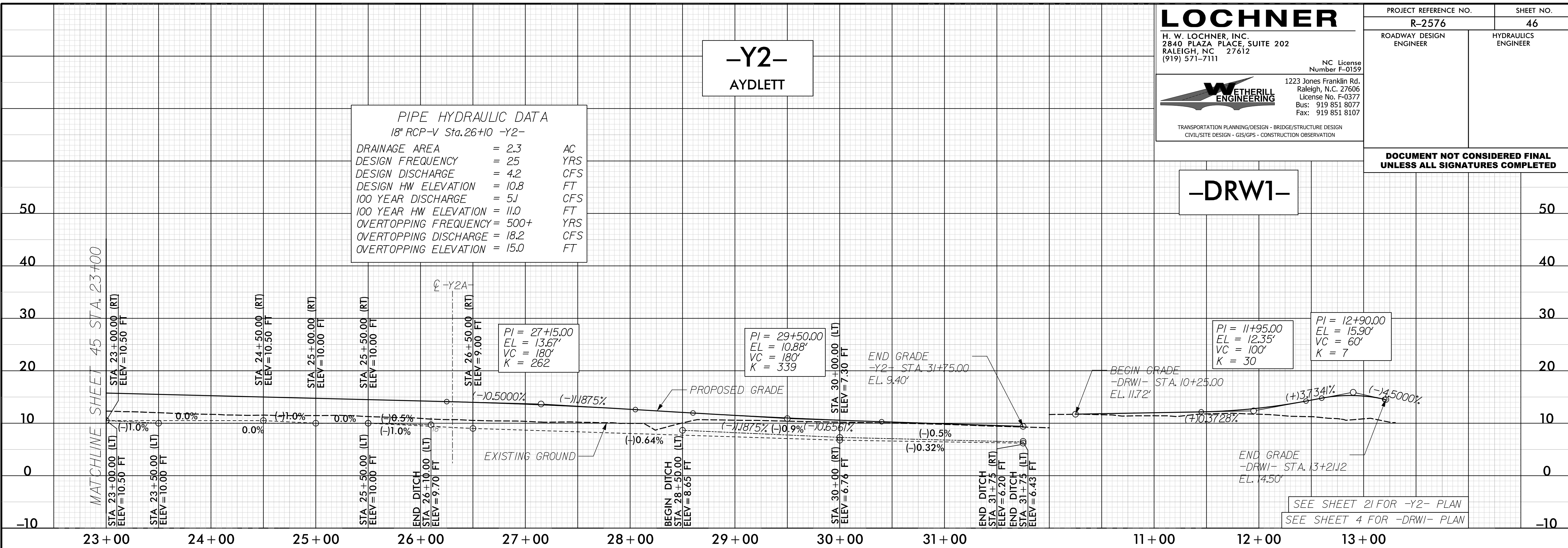
-Y2-
AYDLETT

PIPE HYDRAULIC DATA
 18" RCP-V Sta.26+10 -Y2-

DRAINAGE AREA	= 2.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.2	CFS
DESIGN HW ELEVATION	= 10.8	FT
100 YEAR DISCHARGE	= 5.1	CFS
100 YEAR HW ELEVATION	= 11.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 18.2	CFS
OVERTOPPING ELEVATION	= 15.0	FT

-DRW1-

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-Y2A-

PIPE HYDRAULIC DATA
 18" RCP-V Sta.11+04 -Y2A-

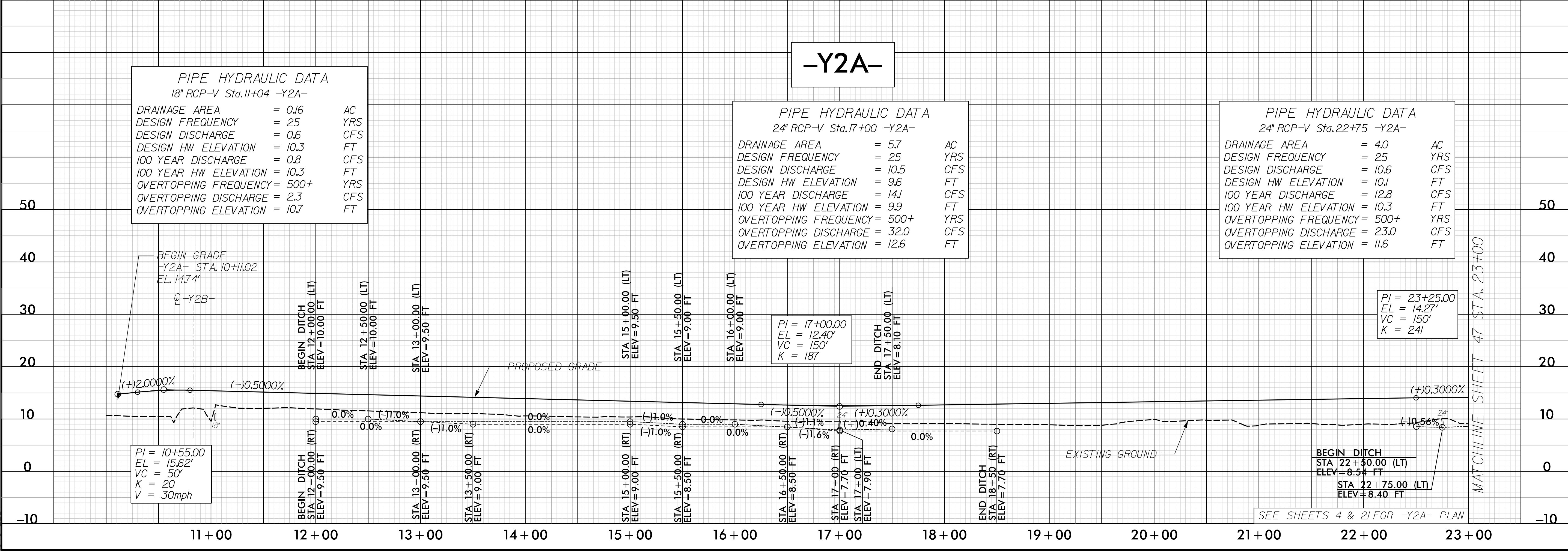
DRAINAGE AREA	= 0.16	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 0.6	CFS
DESIGN HW ELEVATION	= 10.3	FT
100 YEAR DISCHARGE	= 0.8	CFS
100 YEAR HW ELEVATION	= 10.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 2.3	CFS
OVERTOPPING ELEVATION	= 10.7	FT

PIPE HYDRAULIC DATA
 24" RCP-V Sta.17+00 -Y2A-

DRAINAGE AREA	= 5.7	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 10.5	CFS
DESIGN HW ELEVATION	= 9.6	FT
100 YEAR DISCHARGE	= 14.1	CFS
100 YEAR HW ELEVATION	= 9.9	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 32.0	CFS
OVERTOPPING ELEVATION	= 12.6	FT

PIPE HYDRAULIC DATA
 24" RCP-V Sta.22+75 -Y2A-

DRAINAGE AREA	= 4.0	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 10.6	CFS
DESIGN HW ELEVATION	= 10.1	FT
100 YEAR DISCHARGE	= 12.8	CFS
100 YEAR HW ELEVATION	= 10.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 23.0	CFS
OVERTOPPING ELEVATION	= 11.6	FT



SEE SHEETS 4 & 21 FOR -Y2A- PLAN

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PROJECT REFERENCE NO. R-2576 SHEET NO. 47

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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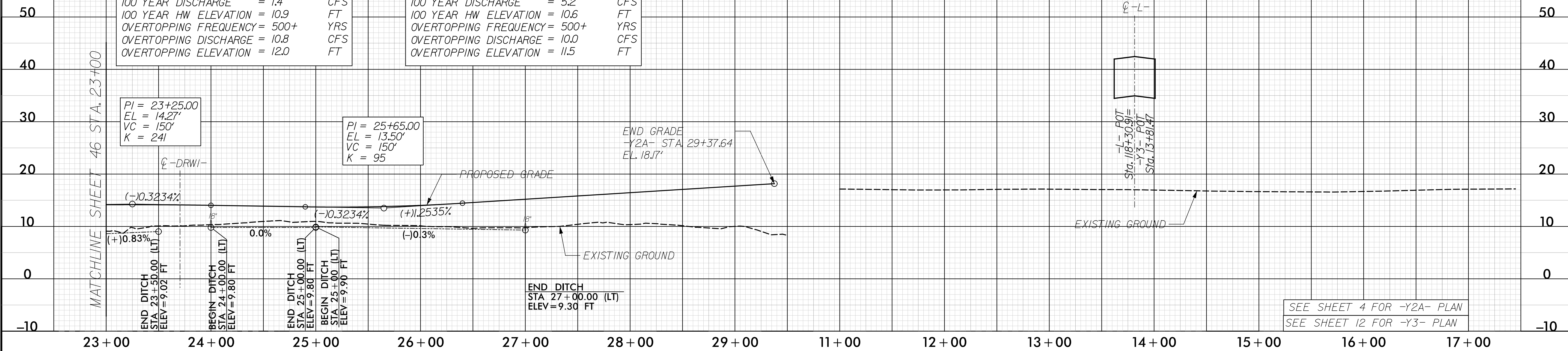
-Y3- NARROW SHORE RD

PIPE HYDRAULIC DATA
18" RCP-III Sta. 24+00 -Y2A-

DRAINAGE AREA	= 0.6	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 1.2	CFS
DESIGN HW ELEVATION	= 10.9	FT
100 YEAR DISCHARGE	= 1.4	CFS
100 YEAR HW ELEVATION	= 10.9	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 10.8	CFS
OVERTOPPING ELEVATION	= 12.0	FT

PIPE HYDRAULIC DATA
18" RCP-III Sta. 27+00 -Y2A-

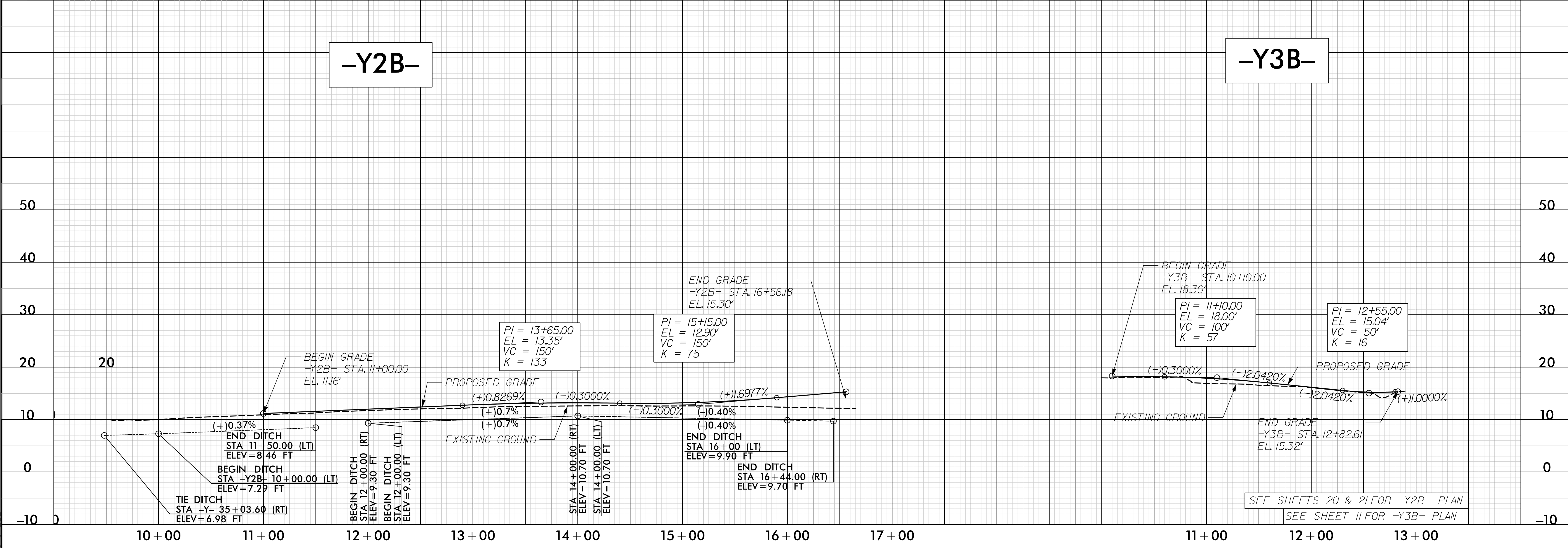
DRAINAGE AREA	= 1.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.4	CFS
DESIGN HW ELEVATION	= 10.5	FT
100 YEAR DISCHARGE	= 5.2	CFS
100 YEAR HW ELEVATION	= 10.6	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 10.0	CFS
OVERTOPPING ELEVATION	= 11.5	FT



SEE SHEET 4 FOR -Y2A- PLAN
SEE SHEET 12 FOR -Y3- PLAN

-Y2B-

-Y3B-



SEE SHEETS 20 & 21 FOR -Y2B- PLAN
SEE SHEET 11 FOR -Y3B- PLAN

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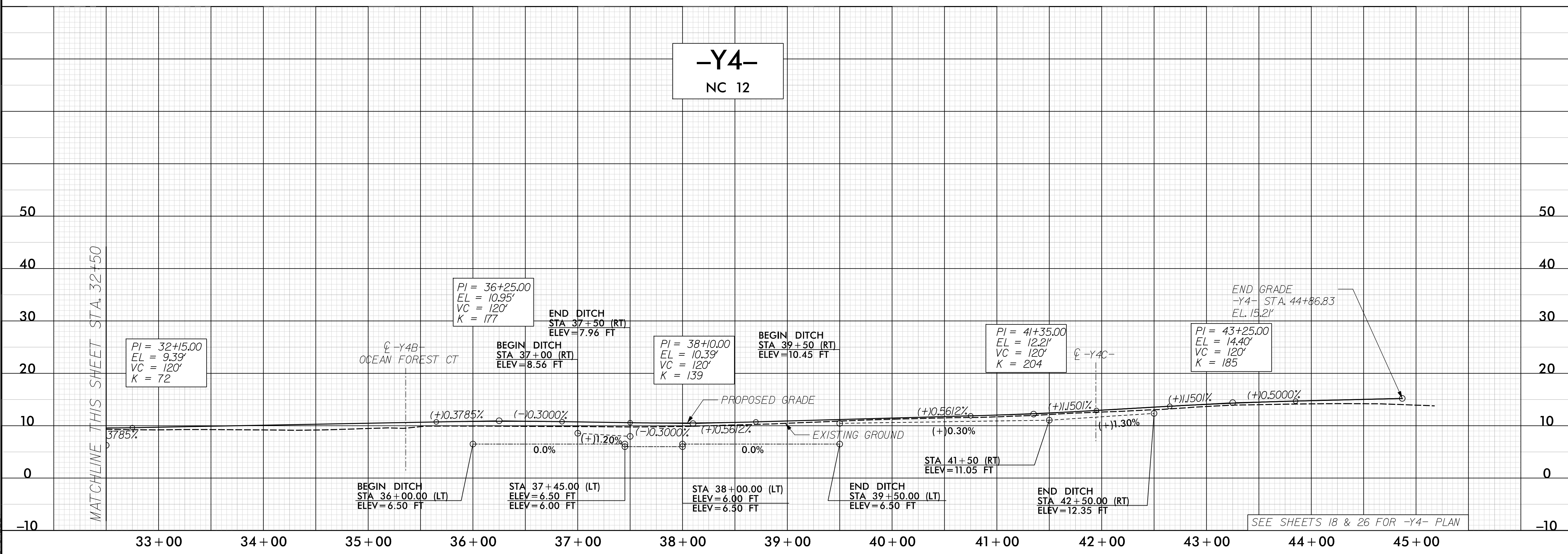
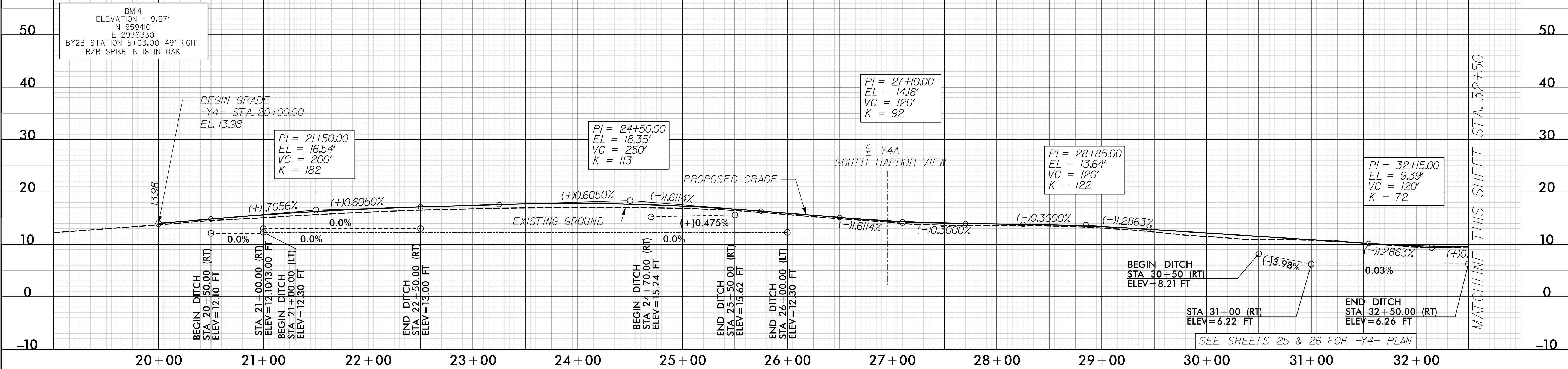
SHEET NO.

48

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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PROJECT REFERENCE NO. SHEET NO.

R-2576 49

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

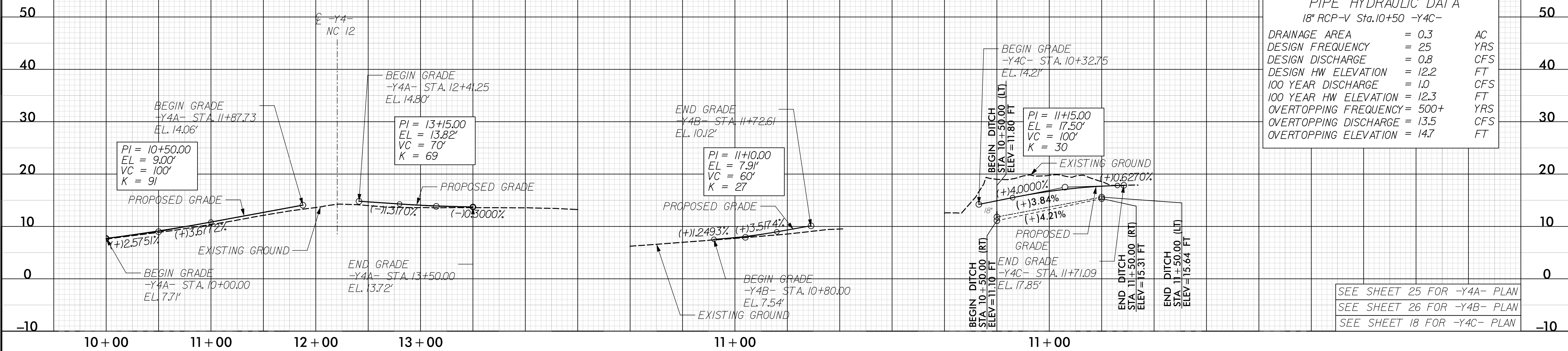
**DOCUMENT NOT CONSIDERED FINAL
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-Y4A- SOUTH HARBOR VIEW

-Y4B- OCEAN FOREST CT

-Y4C-

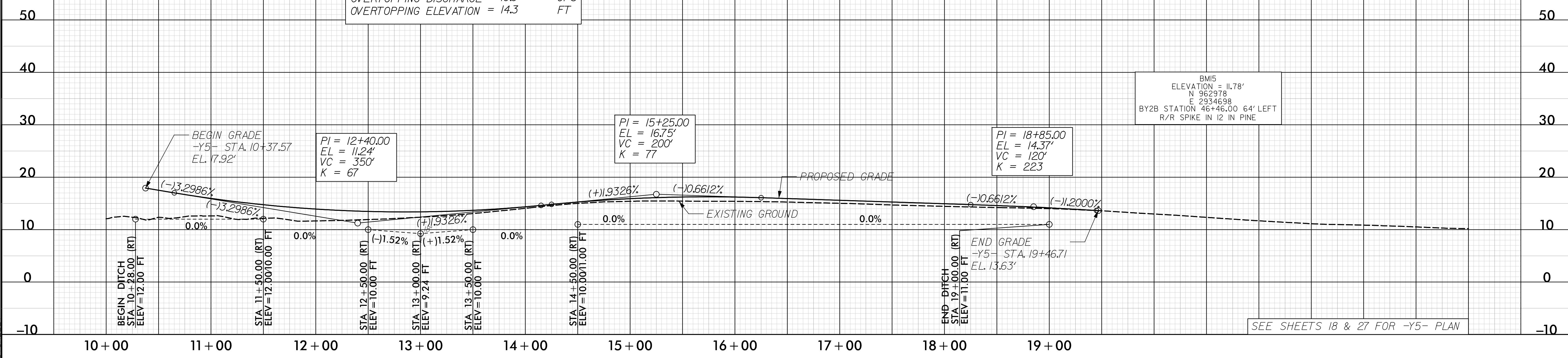
PIPE HYDRAULIC DATA		
18" RCP-V Sta.10+50 -Y4C-		
DRAINAGE AREA	= 0.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 0.8	CFS
DESIGN HW ELEVATION	= 12.2	FT
100 YEAR DISCHARGE	= 1.0	CFS
100 YEAR HW ELEVATION	= 12.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 13.5	CFS
OVERTOPPING ELEVATION	= 14.7	FT



SEE SHEET 25 FOR -Y4A- PLAN
SEE SHEET 26 FOR -Y4B- PLAN
SEE SHEET 18 FOR -Y4C- PLAN

-Y5- NC 12

PIPE HYDRAULIC DATA		
18" RCP-1 Sta.13+00 -Y5-		
DRAINAGE AREA	= 2.1	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 8.2	CFS
DESIGN HW ELEVATION	= 10.9	FT
100 YEAR DISCHARGE	= 8.8	CFS
100 YEAR HW ELEVATION	= 11.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 19.9	CFS
OVERTOPPING ELEVATION	= 14.3	FT



SEE SHEETS 18 & 27 FOR -Y5- PLAN

8/3/2020
R:\0616-Four-pfl-49.dgn
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5/28/99

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

50

ROADWAY DESIGN
ENGINEER

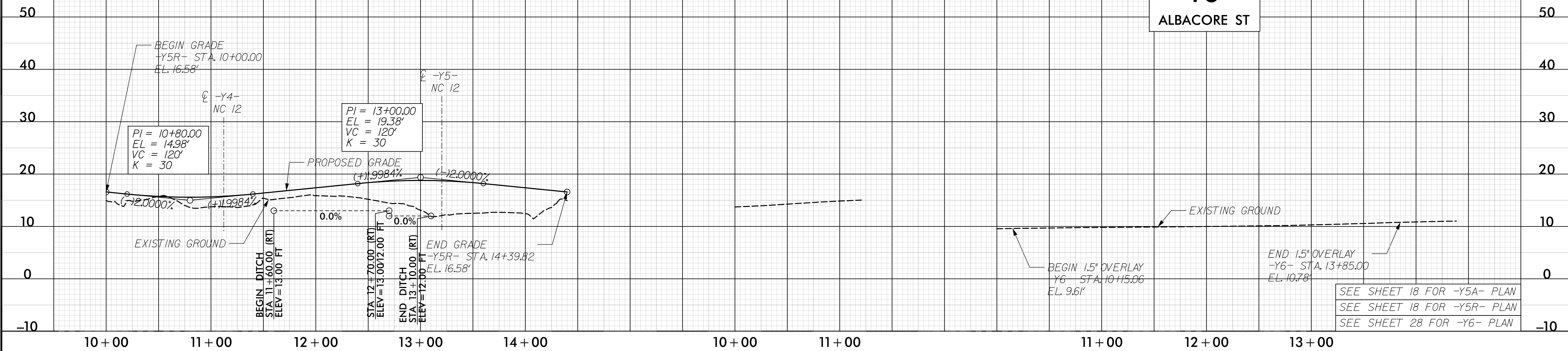
HYDRAULICS
ENGINEER

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

-Y5R- ROUNABOUT

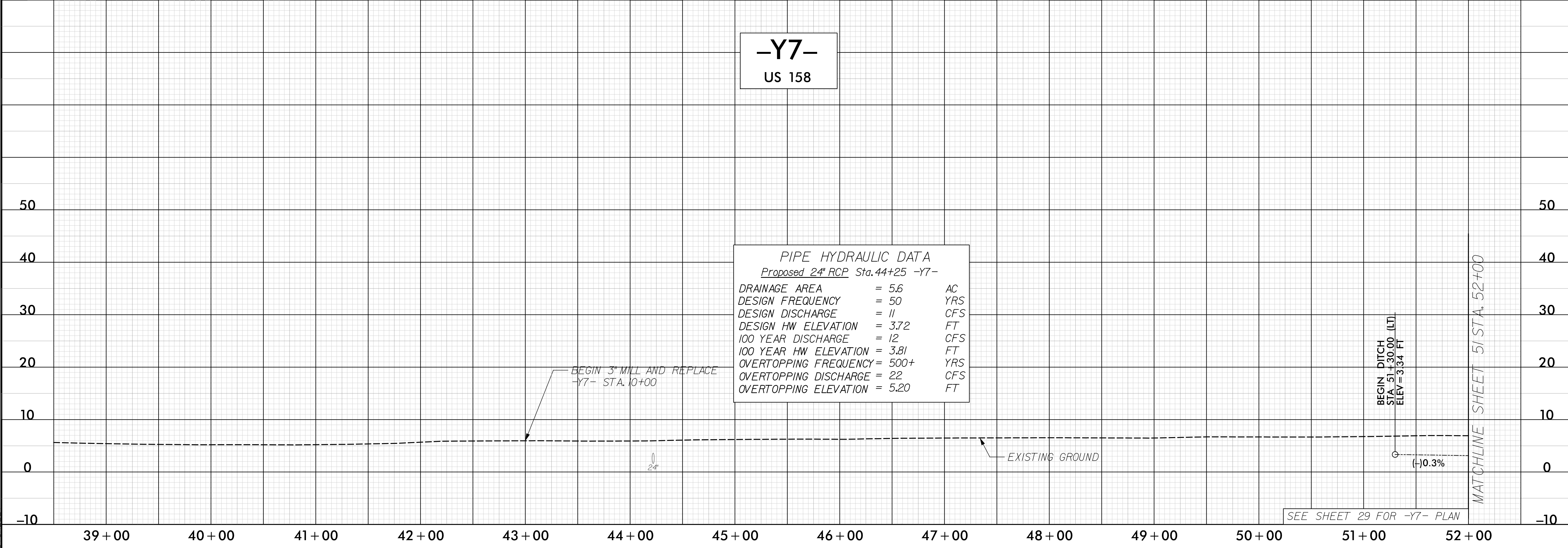
-Y5A- NORTH HARBOR VIEW

-Y6- ALBACORE ST



SEE SHEET 18 FOR -Y5A- PLAN
SEE SHEET 18 FOR -Y5R- PLAN
SEE SHEET 28 FOR -Y6- PLAN

-Y7- US 158



PIPE HYDRAULIC DATA		
Proposed 24" RCP Sta. 44+25 -Y7-		
DRAINAGE AREA	= 5.6	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 11	CFS
DESIGN HW ELEVATION	= 3.72	FT
100 YEAR DISCHARGE	= 12	CFS
100 YEAR HW ELEVATION	= 3.81	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 22	CFS
OVERTOPPING ELEVATION	= 5.20	FT

SEE SHEET 29 FOR -Y7- PLAN

MATCHLINE SHEET 51 STA. 52+00

8/3/2020
R-2576-F04-P1-50.dgn
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

51

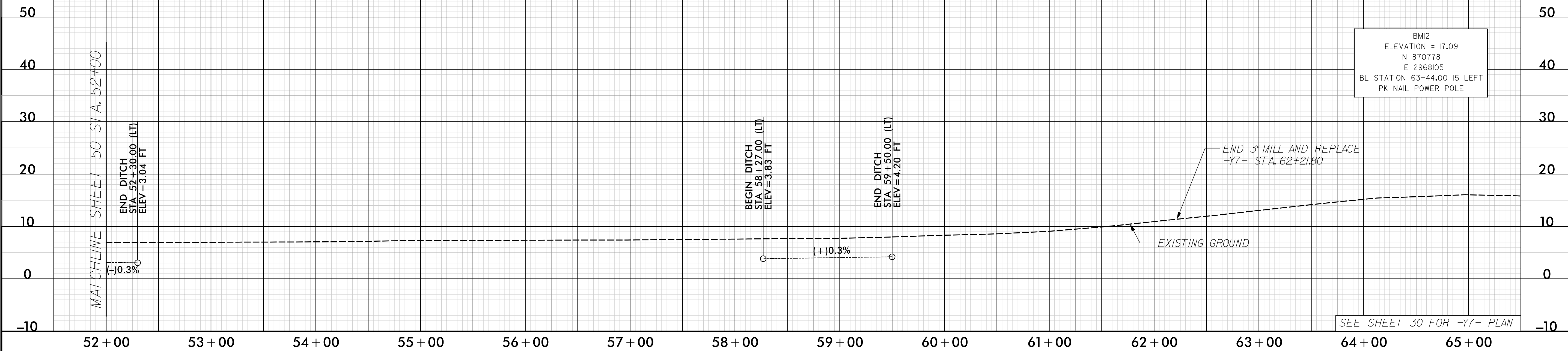
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

-Y7-
US 158

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

BMI2
ELEVATION = 17.09
N 870778
E 2968105
BL STATION 63+44.00 IS LEFT
PK NAIL POWER POLE



SEE SHEET 30 FOR -Y7- PLAN

8/3/2020
R-2576-FGU-pfl-51.dgn
C. COLEBY