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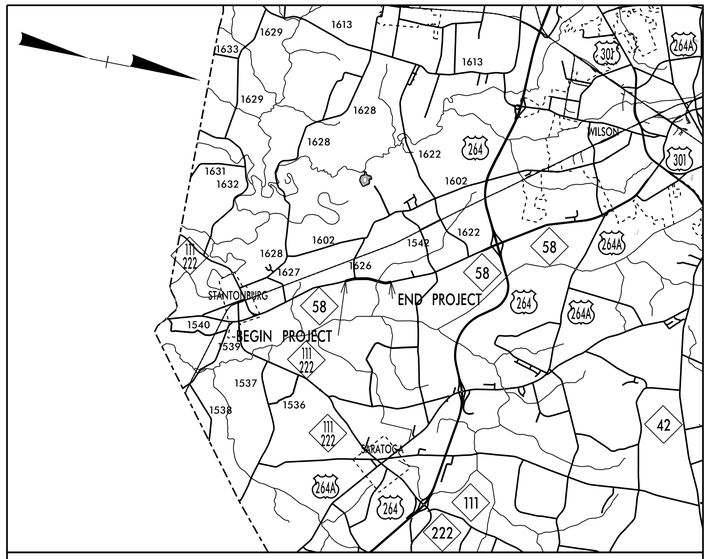
TIP PROJECT: W-5331

CONTRACT: DD00158

See Sheet 1-A For Index of Sheets



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

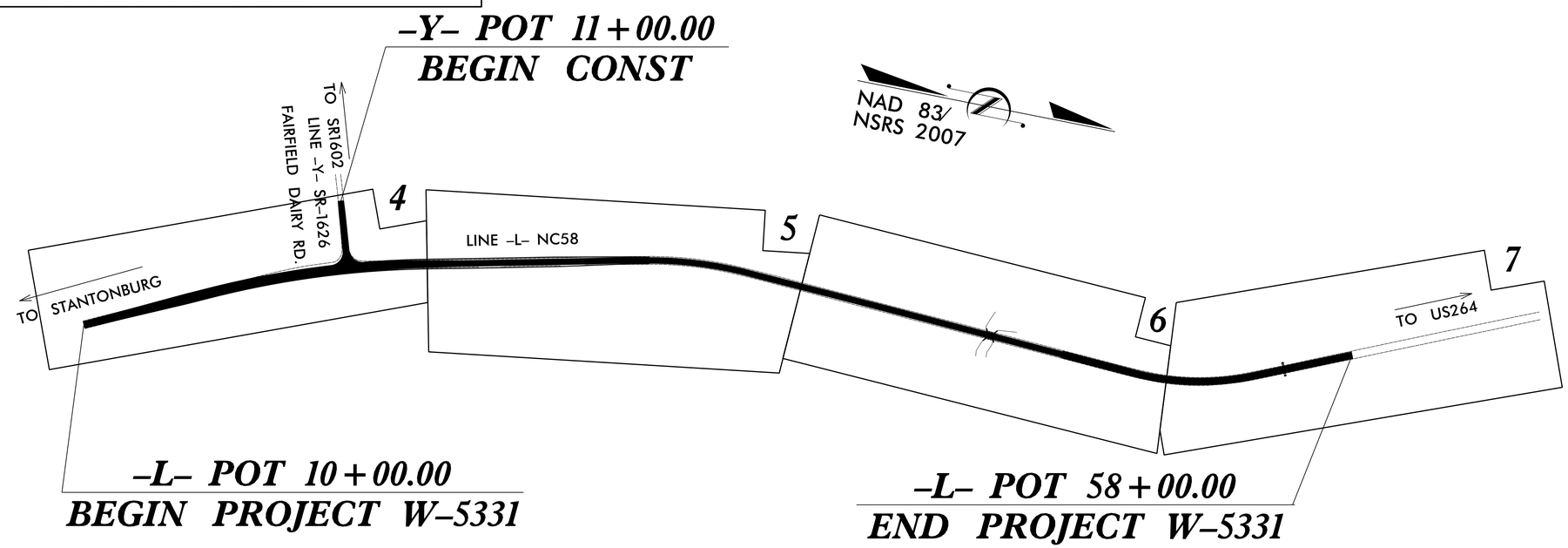
WILSON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5331	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45423.1.1	STP-0058(14)	PE
45423.2.1	STP-0058(14)	R/W & UTIL.
45423.3.FR1	STP-0058(14)	CONST.

LOCATION: NC 58, 0.189 MILES SOUTH OF SR 1626 (FAIRFIELD DAIRY ROAD) NORTHWARD 0.909 MILES.

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING.



GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

V = 60 MPH

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5331 = 0.909 MILES
TOTAL LENGTH TIP PROJECT W-5331 = 0.909 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
Division 4 DDC
509 Ward Blvd., Wilson NC, 27895

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: AUGUST 2013

LETTING DATE: SEPTEMBER 22, 2015

T.M. LITTLE, P.E.
PROJECT ENGINEER

D.R. ETHRIDGE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

8/18/2015
DocuSigned by:
SIGNATURE:
NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY P. PAGE P.E.

ROADWAY DESIGN ENGINEER

8/18/2015
DocuSigned by:
SIGNATURE:
NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY P. PAGE P.E.

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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PROJECT REFERENCE NO.	SHEET NO.
W-5331	1A

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JEREY P. PARKER

DocuSigned by:
42A94DAB185740A...

8/18/2015

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C-1	SURVEY CONTROL SHEET
2A-1	TYPICAL SECTIONS AND PAVEMENT SCHEDULE
3B-1	GUARDRAIL SUMMARY, SUMMARY OF REMOVAL OF EXISTING ASPHALT PAVEMENT, SUMMARY OF MILLING ASPHALT PAVEMENT, SUMMARY OF EARTHWORK, PARCEL INDEX AND SUMMARY OF RIP RAP
3D-1	SUMMARY OF DRAINAGE QUANTITIES
4 THUR 7	PLAN SHEETS
PMP-1 THUR PMP-2	PAVEMENT MARKING PLANS
EC-1 THUR EC-11	EROSION CONTROL PLANS
UC-1 THUR UC-2	UTILITY CONSTRUCTION PLANS
X-1A	CROSS-SECTIONS SUMMARY
X-1 THUR X-12	CROSS-SECTIONS

GENERAL NOTES

GENERAL NOTES: 2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 07/30/12

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

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

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

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

GUARDRAIL:

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

TEMPORARY SHORING:

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

SUBSURFACE PLANS:

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE WILSON ENERGY, PIEDMONT NATURAL GAS, CENTURY LINK, TIME WARNER CABLE AND WILSON COUNTY WATER.

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

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

LIST OF STANDARDS DRAWINGS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
840.72	Pipe Collar
862.01	Guardrail Placement
862.02	Guardrail Installation
876.02	Guide for Rip Rap at Pipe Outlets

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12/05/11

PROJECT REFERENCE NO.	SHEET NO.
W-5331	1B

Note: Not to Scale

****S.U.E. = Subsurface Utility Engineering***

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

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

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

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

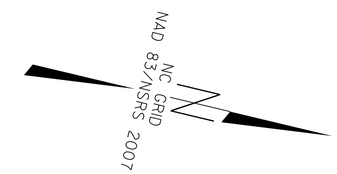
PROJECT REFERENCE NO.	SHEET NO.
W-5331	1C-1
Location and Surveys	

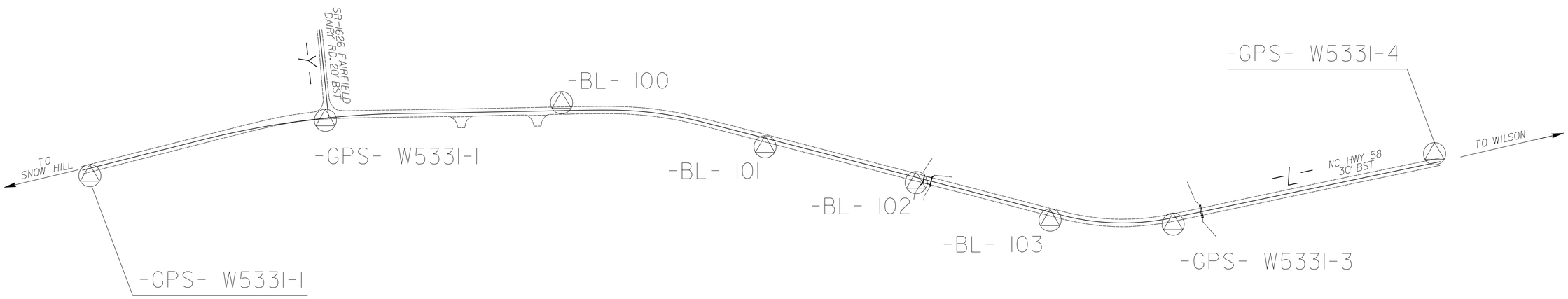
SURVEY CONTROL SHEET W-5331

BASELINE INFORMATION

BL

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	GPS W5331-1	687797.2520	2345924.5410	103.61	10+23.71	28.32 RT
2	GPS W5331-2	688674.7920	2345525.4910	106.01	19+90.56	8.67 RT
100	BL-100	689584.0549	2345273.4693	99.29	29+33.80	31.73 LT
101	BL-101	690413.5614	2345288.0059	90.19	37+64.74	33.45 RT
102	BL-102	691031.9567	2345310.7029	79.00	43+83.49	20.33 RT
103	BL-103	691584.3380	2345353.3984	88.25	49+37.42	30.66 RT
3	GPS W5331-3	692068.1040	2345273.5700	88.30	54+19.95	25.06 RT
4	GPS W5331-4	693035.4320	2344795.4820	98.25	64+97.17	35.73 LT





DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "GPS W5331-2"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 688674.7920(ft) EASTING: 2345525.4910(ft)
ELEVATION: 106.01(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: .99989553
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS W5331-2" TO -L- STATION 10+00.00 IS
S 22° 50' 07.39" E 988.60'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NOTES:

1. *THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:*
   HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/

   THE FILES TO BE FOUND ARE AS FOLLOWS:
   W5331_LS_CONTROL.TXT

   SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

△ *INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.*
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.

NOTE: DRAWING NOT TO SCALE

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PROJECT REFERENCE NO.	SHEET NO.
W-5331	2A-1

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY W. PASS

DocuSigned by: 42A94DAB185740A... 8/18/2015

PAVEMENT DESIGN ENGINEER

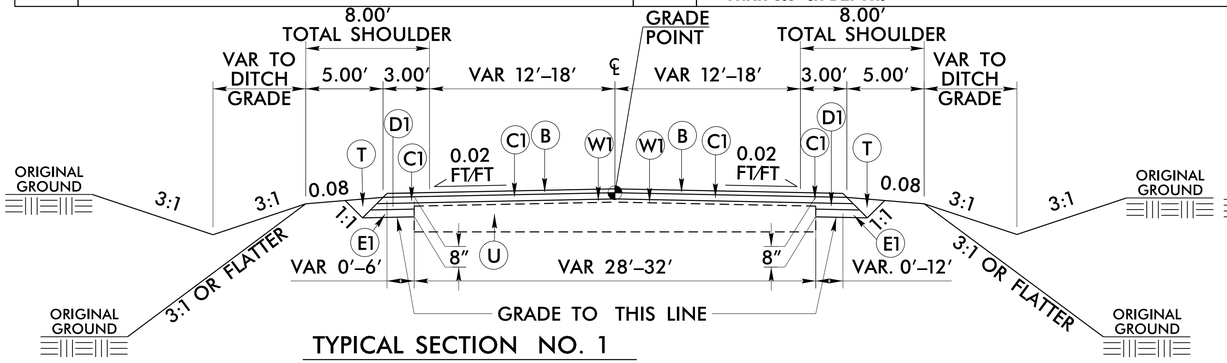
NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY W. PASS

DocuSigned by: 42A94DAB185740A... 8/18/2015

PAVEMENT SCHEDULE

B	PROP. OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED, AT AN AVERAGE RATE OF 90 LBS. PER SQ. YD.	D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.	U	EXISTING PAVEMENT
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.	E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	T	EARTH MATERIAL
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	E2	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING 1 ON THIS SHEET)
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.	E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.	W2	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING 2 ON THIS SHEET)

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

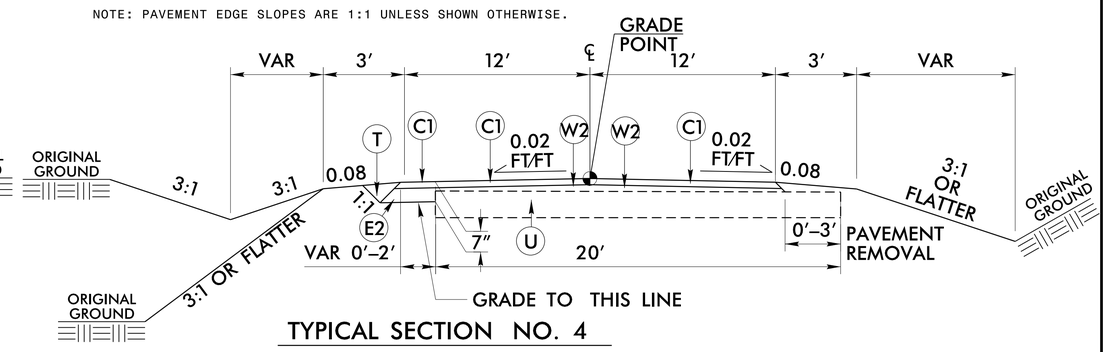


TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1

–L– 10+00 TO 16+80
–L– 20+90 TO 31+25

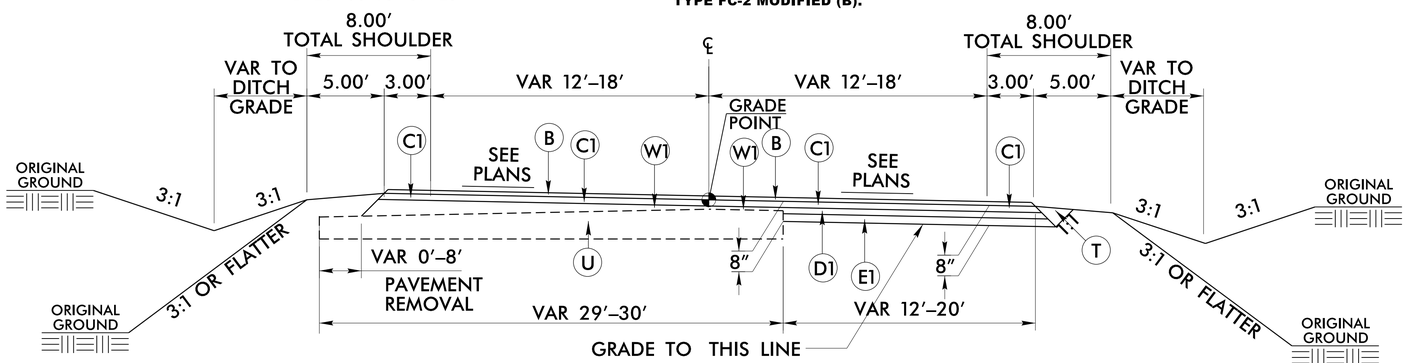
NOTE: 31+25 TO 47+00 RESURFACE WITH 1.5" S9.5B (C1) AND OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED (B).



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4

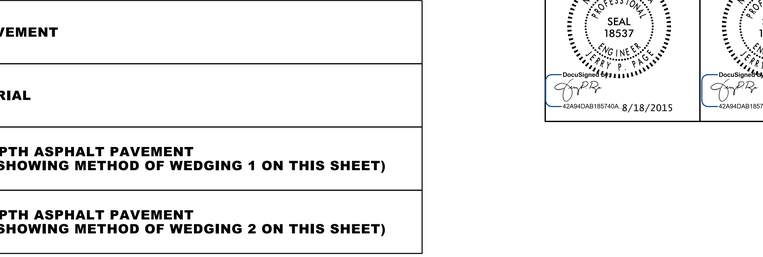
–Y– 11+00 TO 13+30



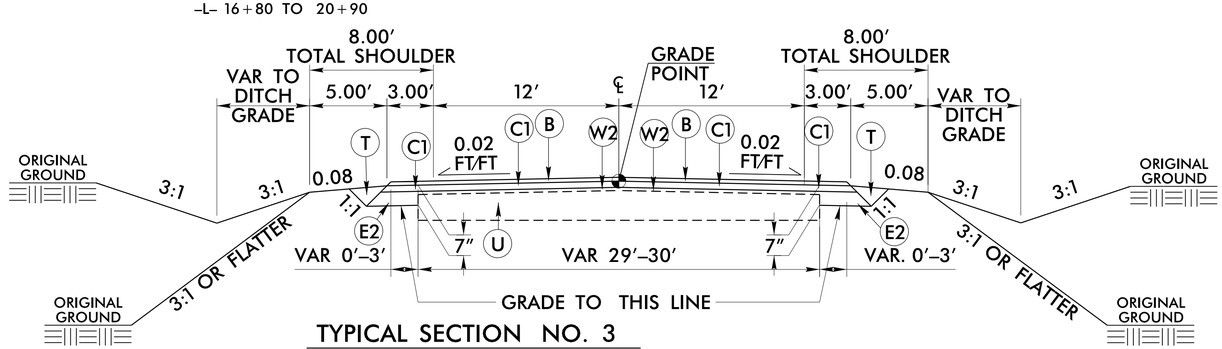
TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

–L– 16+80 TO 20+90



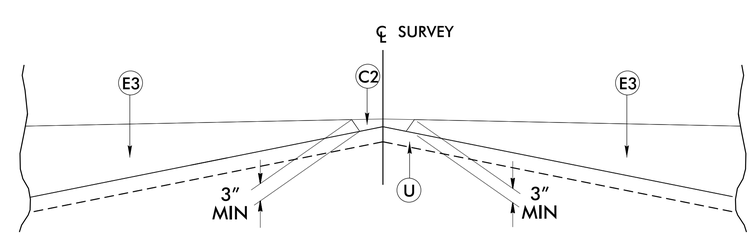
Detail Showing Method of Wedging 1



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3

–L– 47+00 TO 58+00



Detail Showing Method of Wedging 2

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CHECKED BY:	N.A.G	DATE:	8/17/2015

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
W-5331	3B-1

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

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE 350		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & RESET EXISTING GUIDERAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC	TYPE-III	G	NG				
-L-	54+15.00	56+65.00	LT.	250.00			55+43.00	55+37.00	8	11	50	50	1	1			2												
-L-	54+02.50	56+65.00	RT.	262.50			55+37.00	55+43.00	8	11	50	50	1	1			2												
			SUBTOTAL	512.50													4												
	GRAU 350	4@50'=	200.00																										
	TOTAL DEDUCTIONS			-200.00																									
			TOTAL	312.50													4												
ADDITIONAL GUARDRAIL POSTS			10	EA.																									

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

SUMMARY OF REMOVAL OF EXISTING ASPHALT PAVEMENT

STATION TO STATION			LOC	SQUARE YARDS
L	16+83	19+84	LT	201
L	20+15	20+80	LT	28
Y	11+55	13+13	CL	40
TOTAL				269
SAY				270

SUMMARY OF MILLING ASPHALT PAVEMENT, 0"TO 2"

STATION TO STATION			LOC	SQUARE YARDS
L	43+00	45+10	CL	300
TOTAL				300
SAY				300

SUMMARY OF EARTHWORK

Volumes in Cubic Yards

STATION TO STATION				Uncl. Excav.	Undercut	Embank +%	Borrow	Waste
L	10+00.00	TO	20+04.31	1173		649		524
Y	11+00.00	TO	13+20.00	32		65	41	8
L	20+04.31	TO	31+25.00	1239		1034	105	310
L								
L	47+00.00	TO	58+00.00	527		1377	982	132
			SUBTOTAL	2971		3125	1128	974
TOTAL				2971		3125	1128	974
WASTE TO REPLACE BORROW							-230	-230
PROJECT TOTAL				2971		3125	898	744
ESTIMATE TO REPLACE TOPSOIL ON BORROW PIT							56	
GRAND TOTAL				2971		3125	954	744
SAY				3000			2000	
ESTIMATE UNDERCUT					750			

PARCEL INDEX

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAMES
1	4	LANCASTER PROPERTIES
2	4&5	RONALD B. LANCASTER & RONALD B. LANCASTER JR.
3	5	PREMIER PRODUCE, LLC
4	5&6	RONALD B. LANCASTER & RONALD B. LANCASTER JR.
5	5&6	VERNA L. MATTOX
6	6	WILLIAM A. DIXON
7	6&7	DOROTHY B. CRANZ
8	6	ATLAS F. BREWER

SUMMARY OF RIP RAP

LINE	STATION		RIP RAP, CLASS II TONS	RIP RAP, CLASS I TONS	RIP RAP, CLASS B TONS	GEOTEXTILE FOR DRAINAGE SY
L	10+09	LT			3	10
L	11+49	LT			2	7
L	13+87	RT			2	7
L	20+50	RT			5	14
L	25+71	RT			3	10
L	28+79	RT			3	10
L	30+69	LT			3	10
L	31+07	RT			3	10
L	48+90	LT			5	14
L	51+07	LT			2	7
L	54+00	RT			2	7
L	56+63	LT			3	10
L	57+51	RT			2	7
Y	11+55	LT			2	7
Y	13+06	LT			3	10
	TOTAL		0	0	43	140
	SAY		0	0	50	140

COMPUTED BY: D.R. ETHRIDGE DATE: 8/12/2015
CHECKED BY: N.A.GAINEY DATE: 8/12/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5331	3D-1

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

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

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE	THICKNESS OR GAUGE	C.S. PIPE SIZE	THICKNESS OR GAUGE	R.C. PIPE CLASS III SIZE	R.C. PIPE CLASS IV SIZE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. PER PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L- 10+24.52	LT	401													32'																	22'
-L- 11+63.44	LT	402												28'																		21'
-L- 14+02.57	RT	403												32'																		18'
-Y- 11+32.81	LT	404												44'																		34'
-Y- 13+05.24	LT	405																													0.4465	
		405	406										8'																			
-Y- 13+05.70	LT	406																														
-L- 20+04.99	RT	407											80'																			32'
-L- 20+50.00	RT	408											76'																			46'
-L- 25+31.48	RT	501											80'																			93'
-L- 28+36.46	RT	502											88'																			97'
-L- 30+43.84	LT	503													48'																	20'
-L- 30+89.62	RT	504													36'																	19'
-L- 49+43.34	LT	602														112'																69'
-L- 51+27.86	LT	701												40'																		
-L- 53+79.26	RT	702												40'																		
-L- 56+78.44	LT	704													32'																	
-L- 57+64.78	RT	705												28'																		
PROJECT TOTALS													176' 156'	212'	148'	112'														0.4465	471'	
SAY																														0.5		

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

PROJECT REFERENCE NO.	SHEET NO.
W-5331	04
R/W SHEET NO.	04

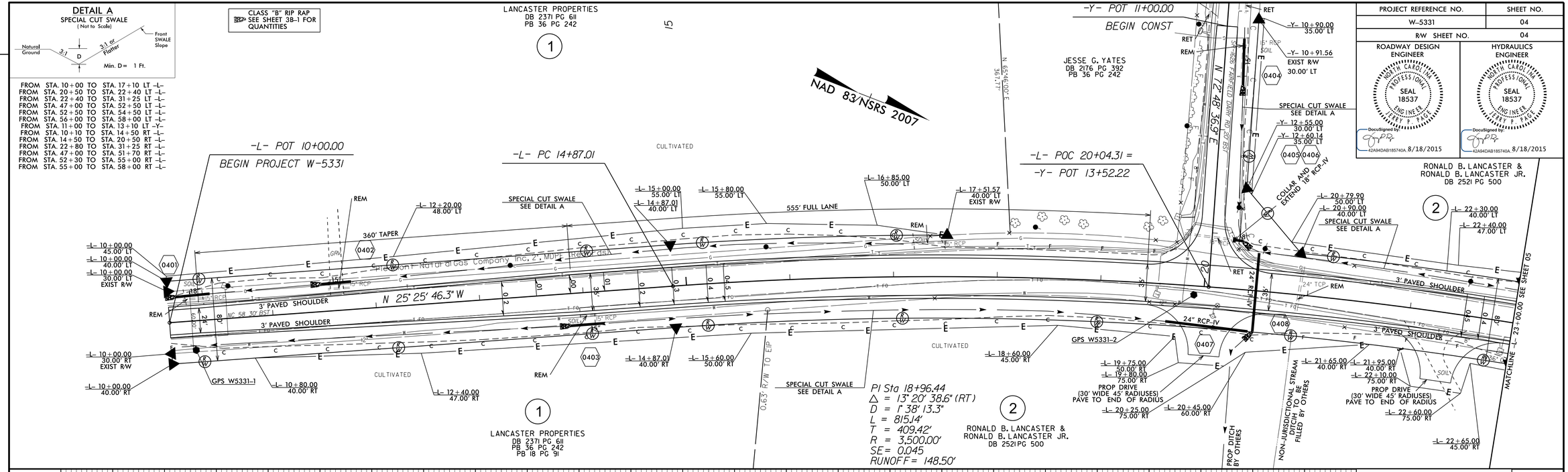
ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY B. PACK — DocuSigned by: 42A94DAB185740A... 8/18/2015

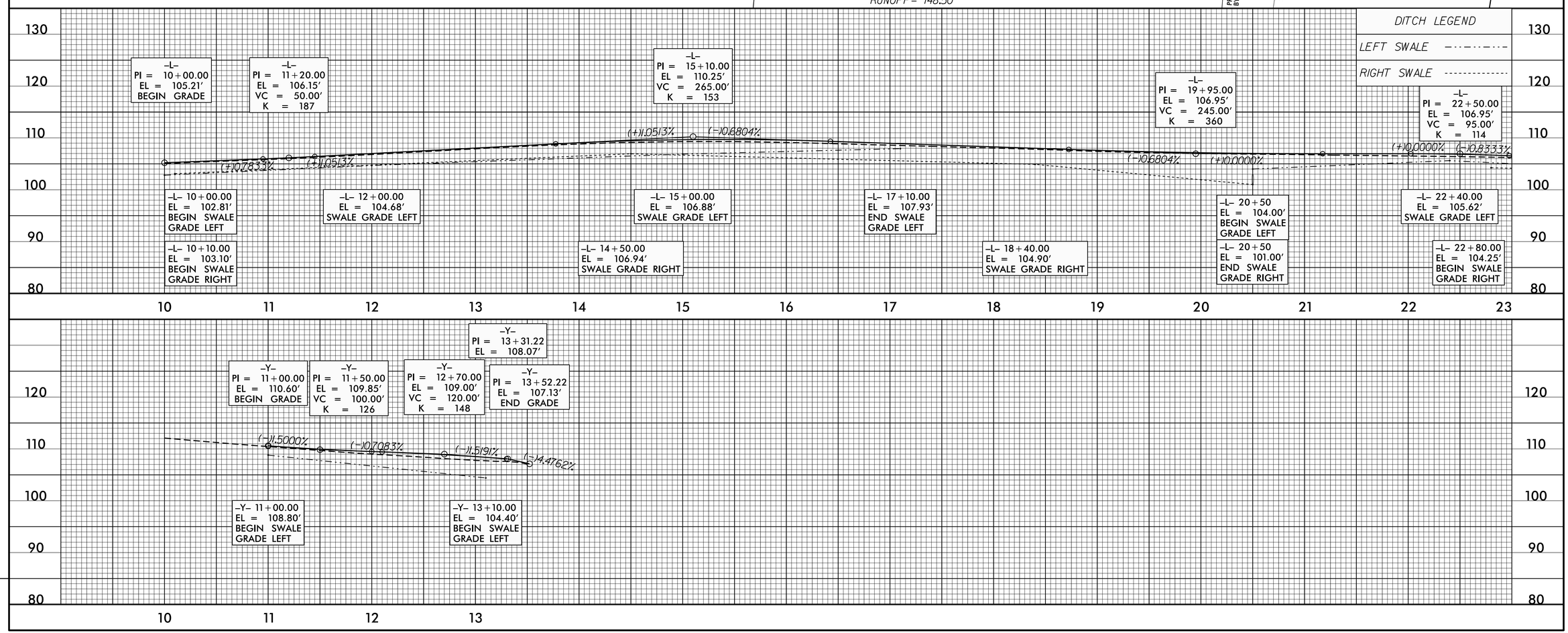
HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY B. PACK — DocuSigned by: 42A94DAB185740A... 8/18/2015

DETAIL A
SPECIAL CUT SWALE
(Not to Scale)

CLASS "B" RIP RAP SEE SHEET 3B-1 FOR QUANTITIES

FROM STA. 10+00 TO STA. 17+10 LT -L-
FROM STA. 20+50 TO STA. 22+40 LT -L-
FROM STA. 22+40 TO STA. 31+25 LT -L-
FROM STA. 47+00 TO STA. 52+50 LT -L-
FROM STA. 52+50 TO STA. 54+50 LT -L-
FROM STA. 56+00 TO STA. 58+00 LT -L-
FROM STA. 11+00 TO STA. 13+10 LT -Y-
FROM STA. 10+10 TO STA. 14+50 RT -L-
FROM STA. 14+50 TO STA. 20+50 RT -L-
FROM STA. 22+80 TO STA. 31+25 RT -L-
FROM STA. 47+00 TO STA. 51+70 RT -L-
FROM STA. 52+30 TO STA. 55+00 RT -L-
FROM STA. 55+00 TO STA. 58+00 RT -L-





REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-5331	05
R/W SHEET NO.	05

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY B. PACK — DocuSigned by: 42A94DAB185740A... 8/18/2015

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY B. PACK — DocuSigned by: 42A94DAB185740A... 8/18/2015

CLASS "B" RIP RAP SEE SHEET 3B-1 FOR QUANTITIES

PI Sta 25+00.99
△ = 0° 12' 49.1" (LT)
D = 0° 06' 52.5"
L = 186.42'
T = 93.21'
R = 50,000.00'

PI Sta 28+20.87
△ = 0° 06' 42.6" (LT)
D = 0° 05' 43.8"
L = 117.10'
T = 58.55'
R = 60,000.00'

RONALD B. LANCASTER & RONALD B. LANCASTER JR. DB 2521 PG 500

U/G TEL WAS MARKED TO THIS POINT BY ONE CALL ON INITIAL SURVEY, BUT ONE-CALL NOW SHOWS NO RECORD OF LINE ON THIS SIDE OF ROAD.

NAD 83/NSRS 2007

RONALD B. LANCASTER & RONALD B. LANCASTER JR. DB 2026 PG 881 PB 18 PG 91

-L- PC 27+62.32
-L- PT 23+02.15
-L- PC 24+07.78
-L- PT 25+94.20
-L- PC 29+91.93
-L- PT 28+79.42
-L- PC 31+28.05
-L- POT 31+25.00
END CONST
BEGIN RESURFACING
-L- PT 31+08.18
-L- PT 34+90.83
-L- PC 36+99.01

N 12° 05' 07.7" W
N 12° 17' 56.8" W
N 12° 24' 39.3" W
N 11° 04' 43.8" W
N 3° 09' 28.6" E

360' TAPER
BL-100
SPECIAL CUT SWALE SEE DETAIL A
3' PAVED SHOULDER
CULTIVATED
WOODS
JURISDICTIONAL STREAM
NC 58 30' BST
18" RCP IV
15" RCP
48" ROPE FENCE
MTL BUS
ISFD
REMOVE AND PAVE DRIVE TO RADIUS (30' WIDE 45' RADIUSES)
0.63' R/W TO RIP
MATCHLINE -L- 23+00.00 SEE SHEET 04
MATCHLINE -L- 37+00.00 SEE SHEET 06

2 — RONALD B. LANCASTER & RONALD B. LANCASTER JR. DB 2521 PG 500

3 — PREMIER PRODUCE, LLC DB 2026 PG 865

4 — RONALD B. LANCASTER & RONALD B. LANCASTER JR. DB 2026 PG 881 PB 18 PG 91

5 — VERNA L. MATTOX DB 1359 PG 687 PB 21 PG 163

PI Sta 30+50.06
△ = 1° 19' 55.6" (RT)
D = 1° 08' 45.3"
L = 116.25'
T = 58.13'
R = 5,000.00'
SE = 0.03
RUNOFF = 81.00'

PI Sta 33+10.38
△ = 14° 14' 12.4" (RT)
D = 3° 55' 27.7"
L = 362.78'
T = 182.33'
R = 1,460.00'
SE = 0.08
RUNOFF = 216.00'

DETAIL A
SPECIAL CUT SWALE
(Not to Scale)

Natural Ground — 3:1 — D — 3:1 or Flatter — Front SWALE Slope

Min. D = 1 Ft.

FROM STA. 10+00 TO STA. 17+10 LT -L-
FROM STA. 20+50 TO STA. 22+40 LT -L-
FROM STA. 22+40 TO STA. 31+25 LT -L-
FROM STA. 47+00 TO STA. 52+50 LT -L-
FROM STA. 52+50 TO STA. 54+50 LT -L-
FROM STA. 56+00 TO STA. 58+00 LT -L-
FROM STA. 11+00 TO STA. 13+10 LT -Y-
FROM STA. 10+10 TO STA. 14+50 RT -L-
FROM STA. 14+50 TO STA. 20+50 RT -L-
FROM STA. 22+80 TO STA. 31+25 RT -L-
FROM STA. 47+00 TO STA. 51+70 RT -L-
FROM STA. 52+30 TO STA. 55+00 RT -L-
FROM STA. 55+00 TO STA. 58+00 RT -L-

REVISIONS

DITCH LEGEND
LEFT SWALE
RIGHT SWALE

-L-
PI = 23+40.00
EL = 106.20'
VC = 50.00'
K = 175

-L-
PI = 25+50.00
EL = 105.05'
VC = 120.00'
K = 174

-L-
PI = 27+40.00
EL = 102.70'
VC = 50.00'
K = 374

-L-
PI = 30+00.00
EL = 99.25'
VC = 50.00'
K = 327

-L-
PI = 31+25.00
EL = 97.40'
END GRADE
BEGIN RESURFACING

(-)0.5476% (-)0.5476% (-)1.2368% (-)1.2368% (-)1.3269% (-)1.3269% (-)1.4800%

-L- 24+30.00
EL = 103.75'
END SWALE
GRADE LEFT

-L- 24+40.00
EL = 103.44'
SWALE GRADE RIGHT

-L- 24+90.00
EL = 101.80'
SWALE GRADE RIGHT

-L- 25+50.00
EL = 102.64'
BEGIN SWALE
GRADE LEFT

-L- 25+80.00
EL = 101.10'
SWALE GRADE RIGHT

-L- 27+70.00
EL = 99.83'
BEGIN SWALE
GRADE LEFT

-L- 27+80.00
EL = 98.70'
SWALE GRADE RIGHT

-L- 28+80.00
EL = 98.00'
SWALE GRADE RIGHT

-L- 29+50.00
EL = 97.64'
SWALE GRADE RIGHT

-L- 31+25.00
EL = 93.85'
END SWALE
GRADE LEFT

-L- 31+25.00
EL = 93.95'
END SWALE
GRADE RIGHT

110 100 90 80

23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

PROJECT REFERENCE NO.	SHEET NO.
W-5331	06
R/W SHEET NO.	06

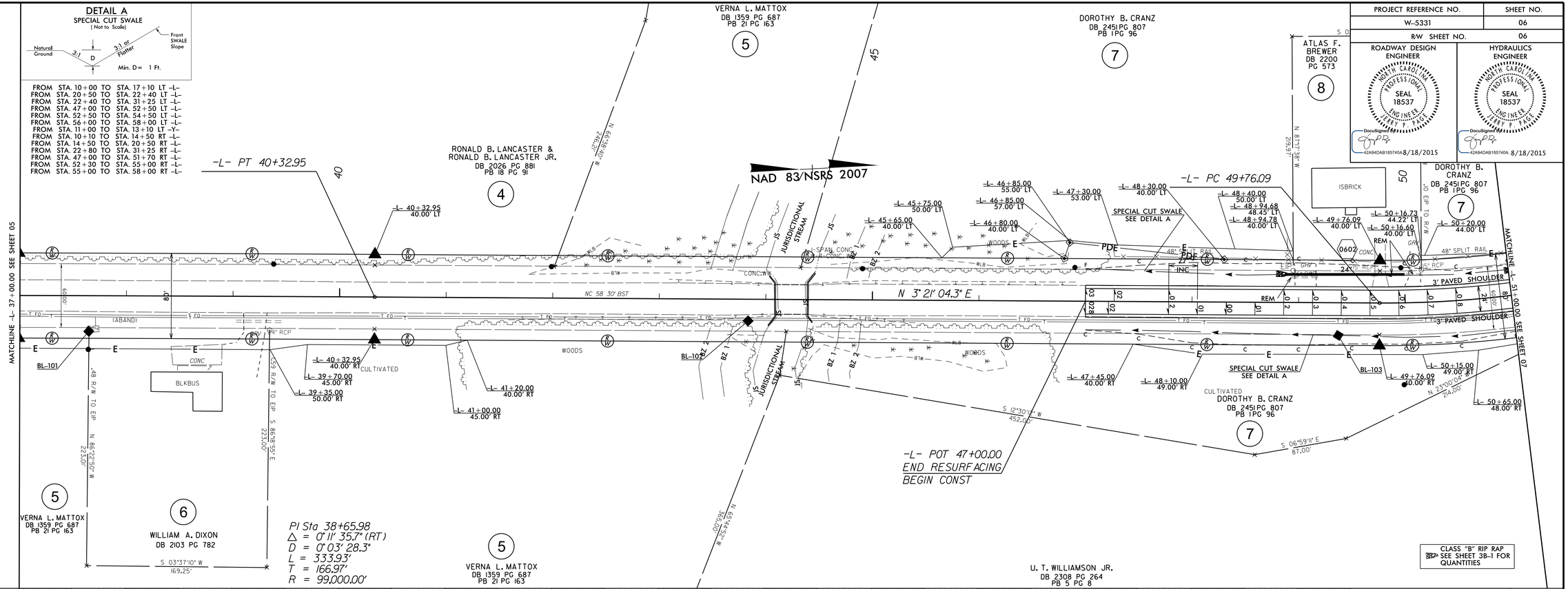
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY B. PAGE
DocuSigned by: 42A84DAB185740A 8/18/2015

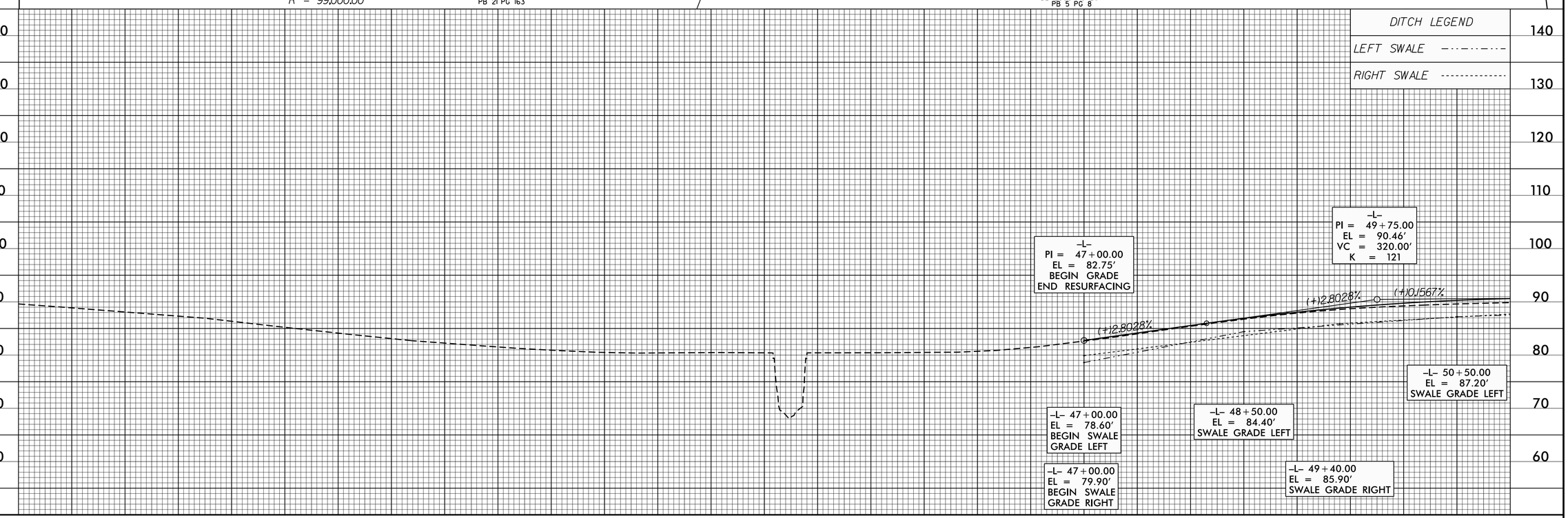
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY B. PAGE
DocuSigned by: 42A84DAB185740A 8/18/2015

REVISIONS

DETAIL A
SPECIAL CUT SWALE
(Not to Scale)

FROM STA. 10+00 TO STA. 17+10 LT -L-
FROM STA. 20+50 TO STA. 22+40 LT -L-
FROM STA. 22+40 TO STA. 31+25 LT -L-
FROM STA. 47+00 TO STA. 52+50 LT -L-
FROM STA. 52+50 TO STA. 54+50 LT -L-
FROM STA. 56+00 TO STA. 58+00 LT -L-
FROM STA. 11+00 TO STA. 13+10 LT -Y-
FROM STA. 10+10 TO STA. 14+50 RT -L-
FROM STA. 14+50 TO STA. 20+50 RT -L-
FROM STA. 22+80 TO STA. 31+25 RT -L-
FROM STA. 47+00 TO STA. 51+70 RT -L-
FROM STA. 52+30 TO STA. 55+00 RT -L-
FROM STA. 55+00 TO STA. 58+00 RT -L-

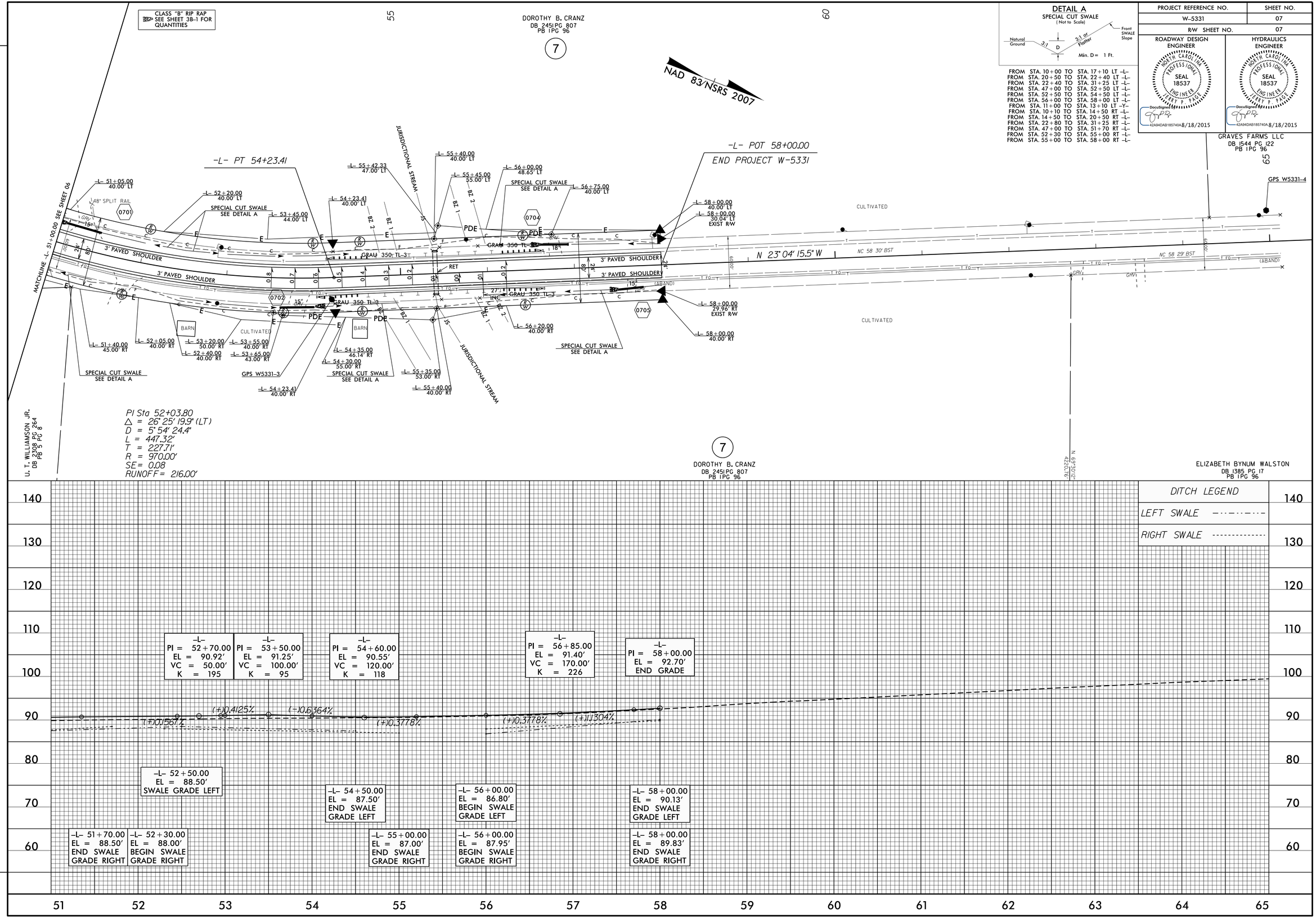




PROJECT REFERENCE NO.	SHEET NO.
W-5331	07
R/W SHEET NO.	07

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY B. PACK
DocuSigned by: 42A94DAB185740A 8/18/2015

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 18537 ENGINEER JERRY B. PACK
DocuSigned by: 42A94DAB185740A 8/18/2015



REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-5331	PMP-1

T.I.P.: W-5331

CONTRACT:

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
WILSON COUNTY

LOCATION: NC 58, 0.189 MILES SOUTH OF SR 1626 (FAIRFIELD DAIRY ROAD) NORTHWARD 0.909 MILES.

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE AND MULT-ILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOL AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

GENERAL NOTES

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

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL	THERMOPLASTIC	RAISED

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

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

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

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

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
THERMOPLASTIC (4", 120 MILS)	
TD	3 FT. - 9 FT./SP WHITE MINISKIP
TE	WHITE SOLID LANE LINE
TF	10 FT. YELLOW SKIP
TH	YELLOW SINGLE CENTER
TI	YELLOW DOUBLE CENTER
THERMOPLASTIC (4", 90 MILS)	
TA	WHITE EDGELINE
THERMOPLASTIC (8", 90 MILS)	
TP	YELLOW DIAGONAL
THERMOPLASTIC (24", 120 MILS)	
T2	WHITE STOPBAR
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	
UA	LEFT TURN ARROW

PAVEMENT MARKING DETAIL

DDC4
17-AUG-2015 16:31
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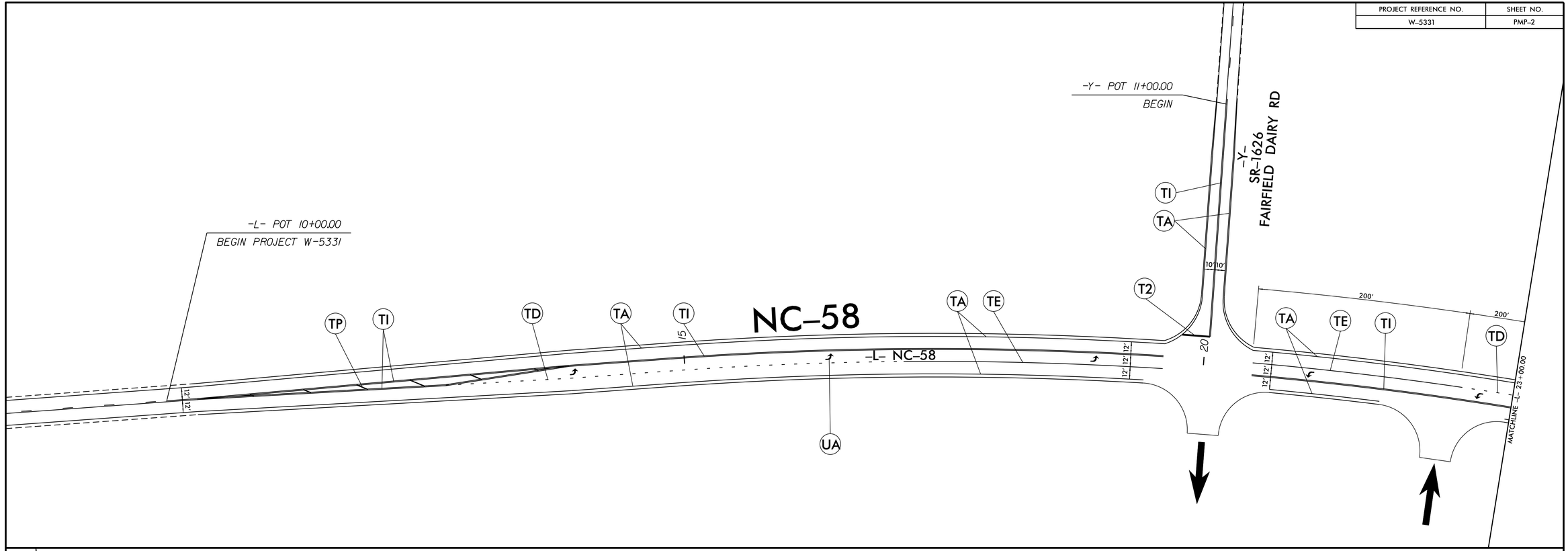
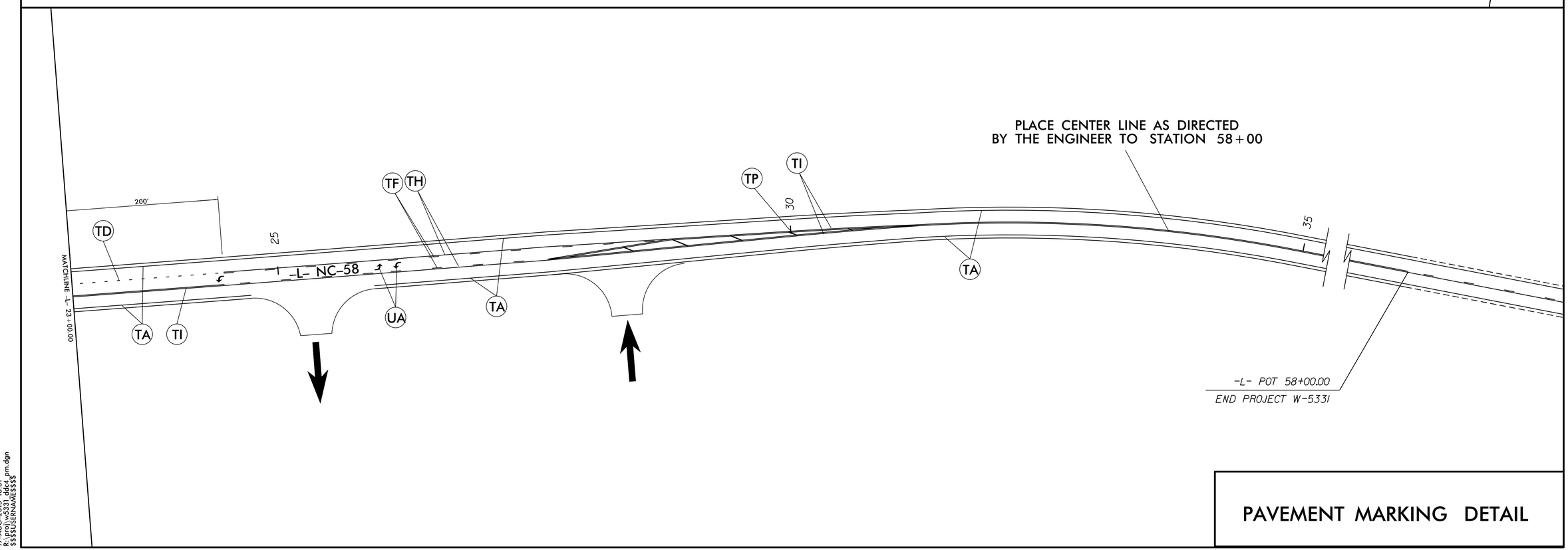
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5331	PMP-2





PAVEMENT MARKING DETAIL

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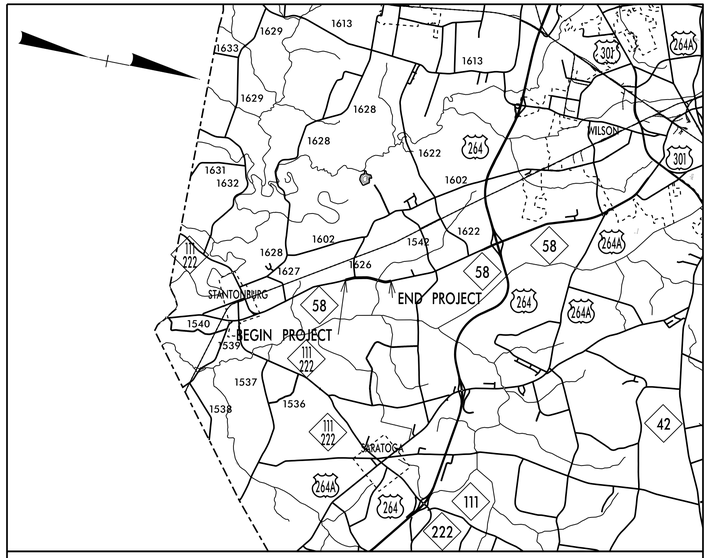
TIP PROJECT: W-5331

See Sheet 1-A For Index of Sheets



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WILSON COUNTY

LOCATION: NC 58, 0.189 MILES SOUTH OF SR 1626 (FAIRFIELD DAIRY ROAD) NORTHWARD 0.909 MILES.

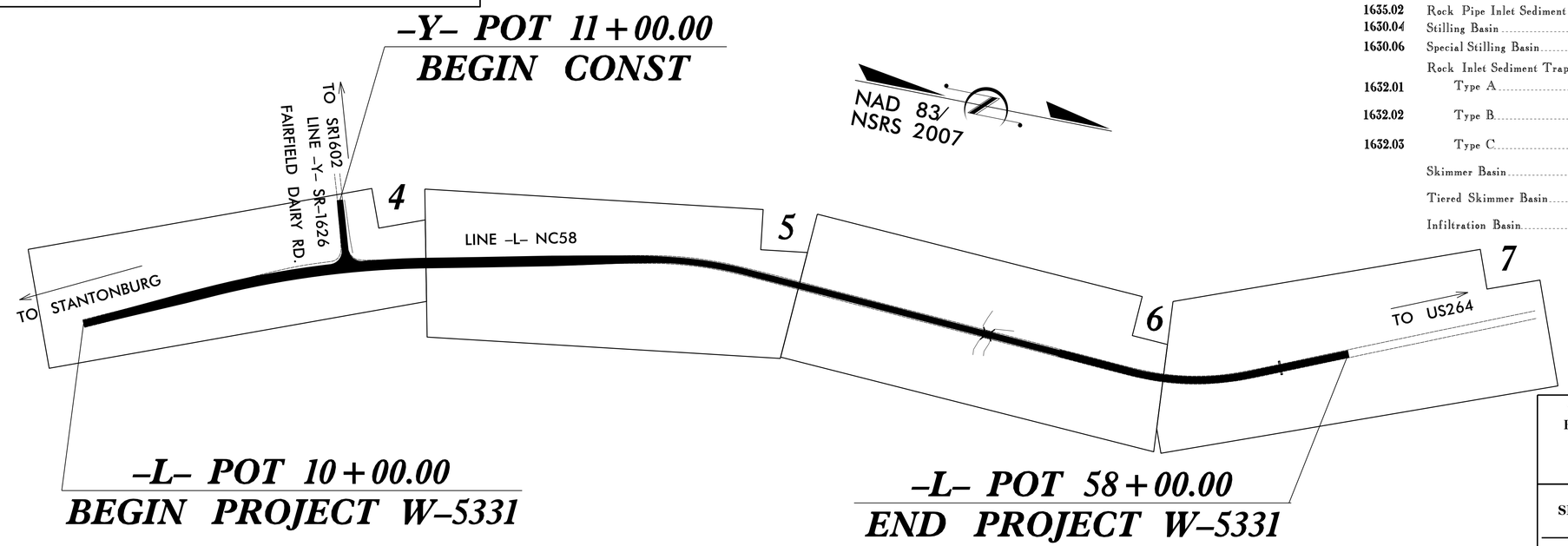
TYPE OF WORK: GRADE, DRAINAGE, AND PAVING.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5331	EC-1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45423.1.1		PE
45423.3.1		CONST

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	SW CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	



THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

GRAPHIC SCALE

0 50
PLANS

0 50
PROFILE (HORIZONTAL)

0 5
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

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

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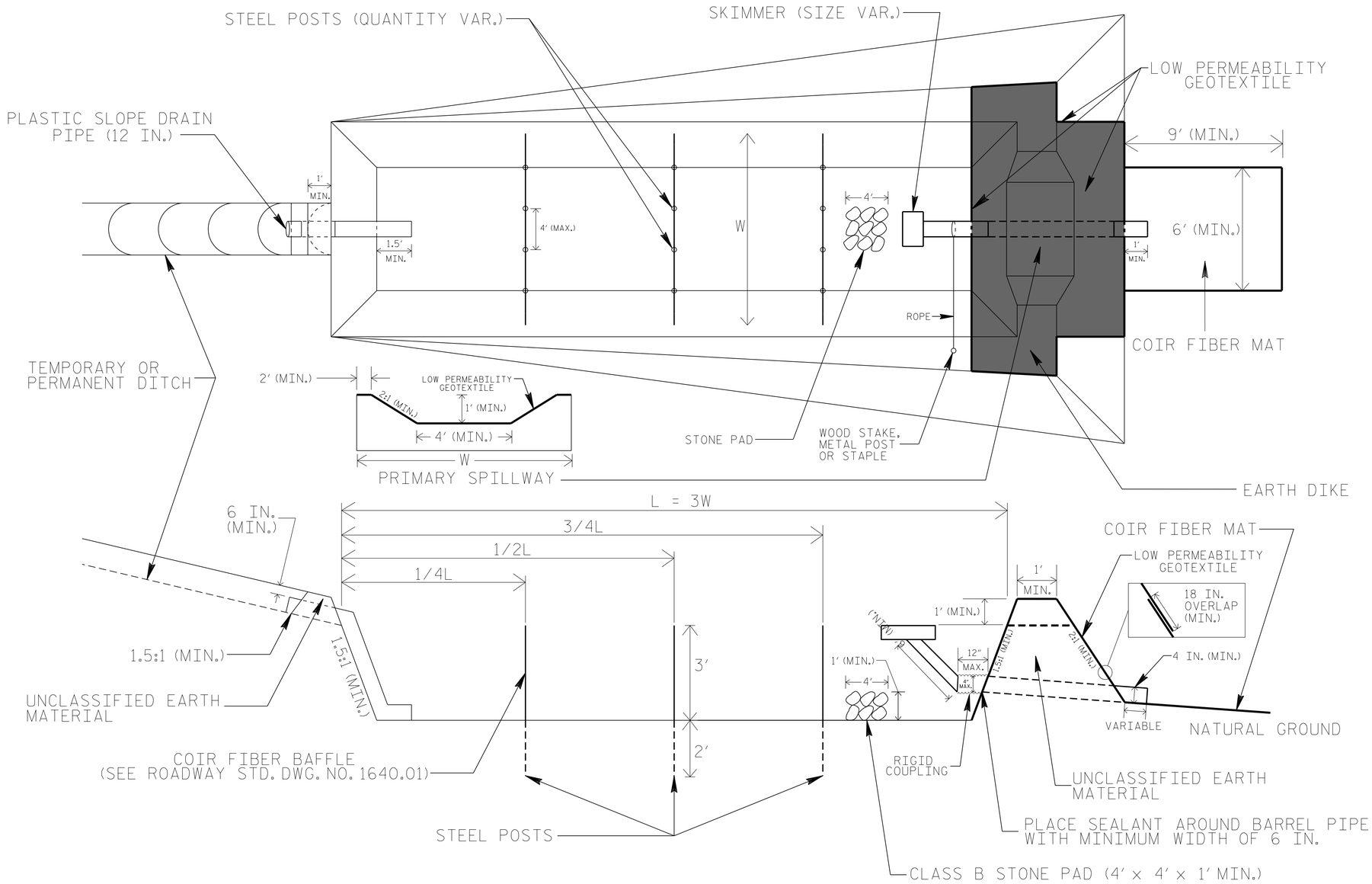
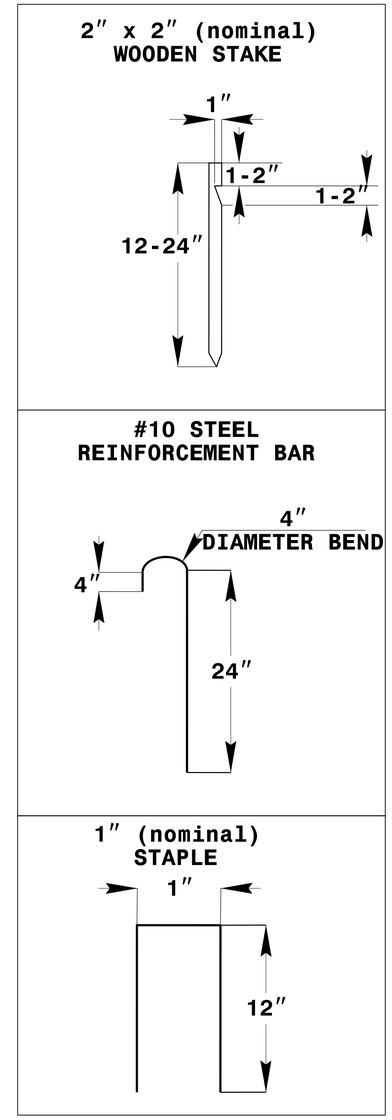
PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL (EAST)





COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-03

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET
MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	10+00	12+00	LEFT	50
4	L	12+00	15+00	LEFT	70
4	L	15+00	17+10	LEFT	50
5	L	25+50	27+70	LEFT	55
5	L	27+70	31+25	LEFT	85
6	L	47+00	48+50	LEFT	35
6	L	48+50	50+50	LEFT	50
7	L	56+00	58+00	LEFT	50
4	L	18+40	20+50	RIGHT	50
5	L	24+40	24+90	RIGHT	50
5	L	25+80	27+80	RIGHT	50
5	L	29+50	31+25	RIGHT	50
6	L	47+00	49+40	RIGHT	50
6-7	L	49+40	51+70	RIGHT	50
4	Y	11+00	13+10	LEFT	50
			SUBTOTAL		795
			ADDITIONAL MATTING		1755
			TOTAL		2550

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

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

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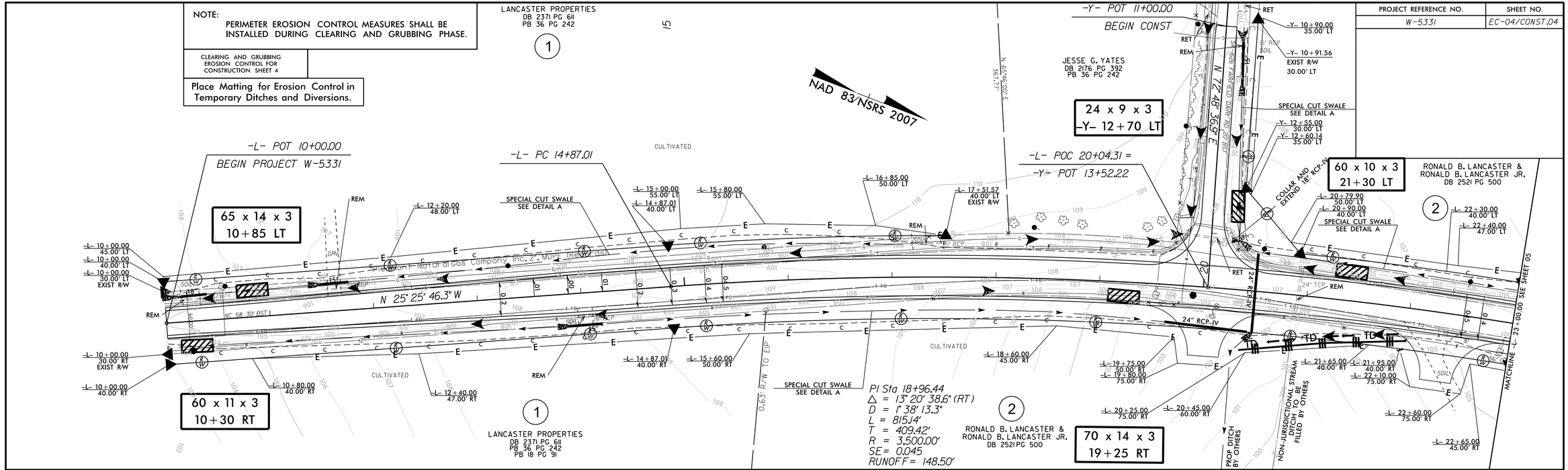
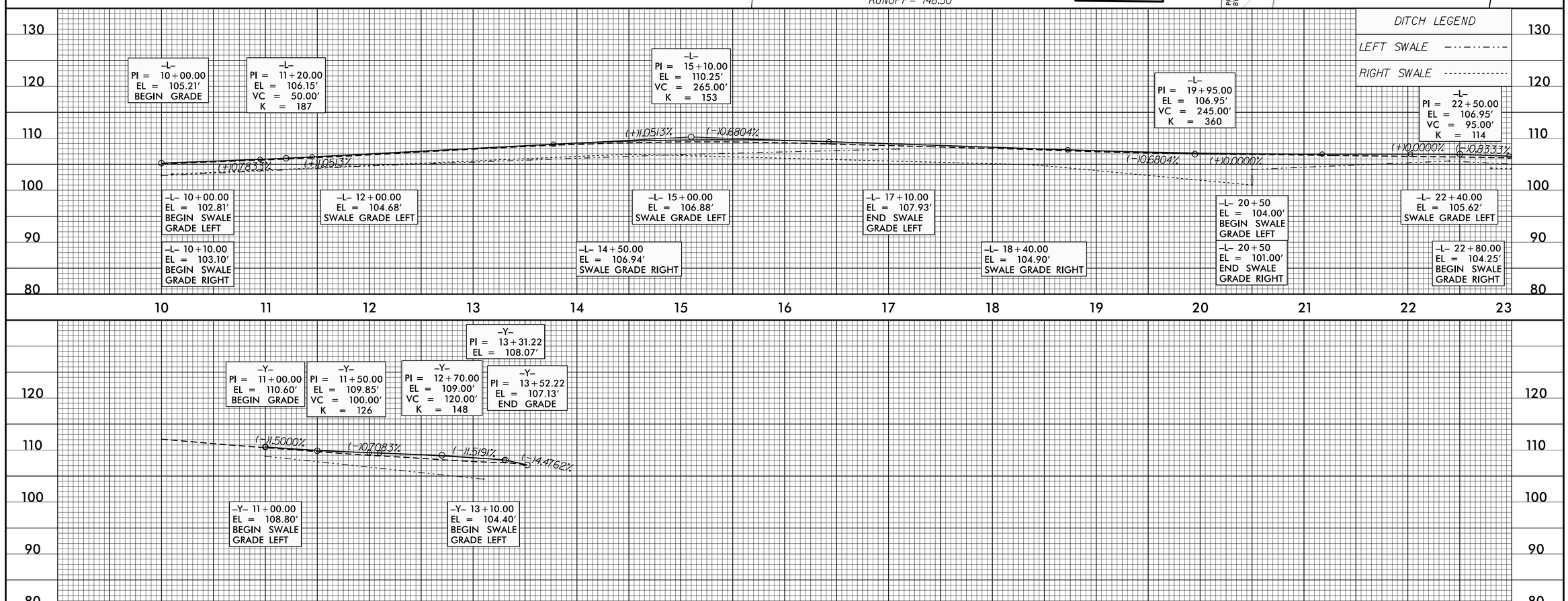
NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

Place Matting for Erosion Control in Temporary Ditches and Diversions.

PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-04/CONST.04





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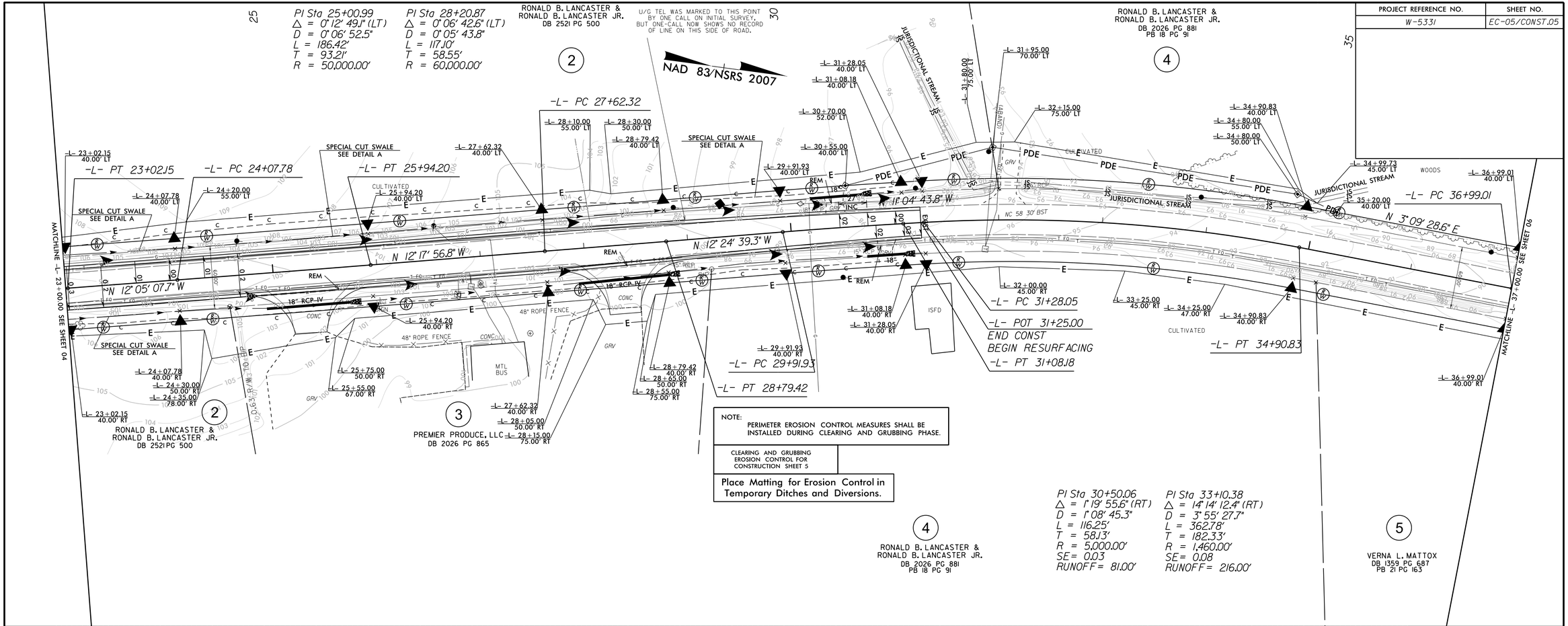
W-5331	EC-05/CONST.05



NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

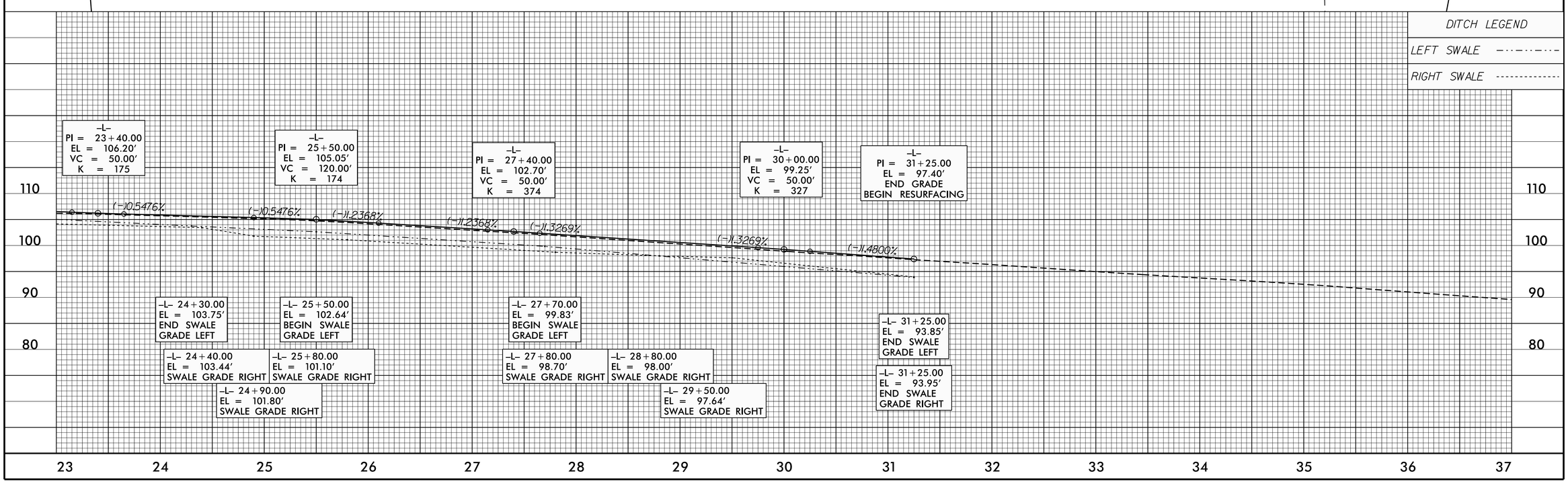
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

Place Matting for Erosion Control in Temporary Ditches and Diversions.

PI Sta 30+50.06
△ = 1° 19' 55.6" (RT)
D = 1° 08' 45.3"
L = 116.25'
T = 58.13'
R = 5,000.00'
SE = 0.03
RUNOFF = 81.00'

PI Sta 33+10.38
△ = 14° 14' 12.4" (RT)
D = 3° 55' 27.7"
L = 362.78'
T = 182.33'
R = 1,460.00'
SE = 0.08
RUNOFF = 216.00'

DITCH LEGEND
LEFT SWALE
RIGHT SWALE



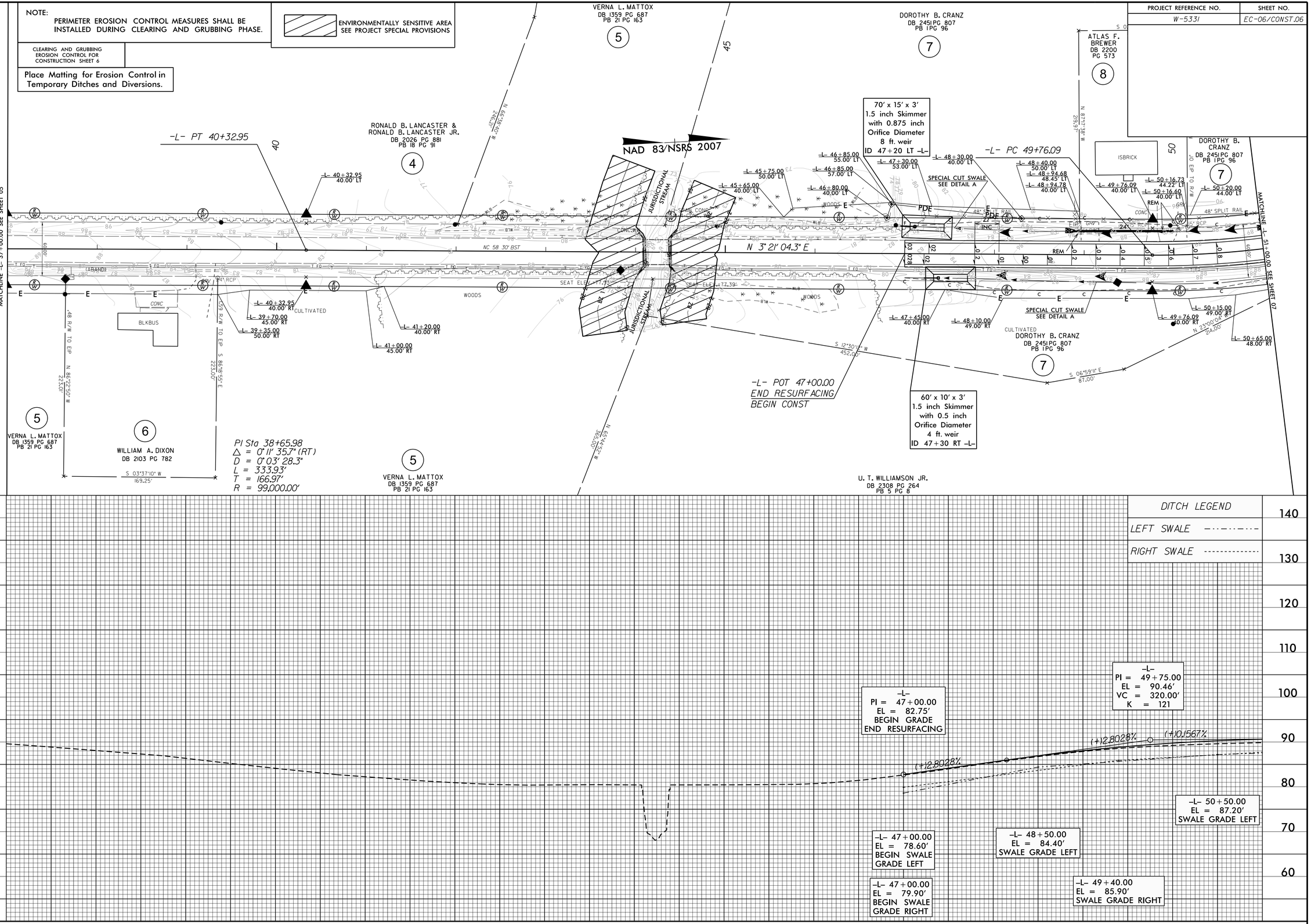
PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-06/CONST.06

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

Place Matting for Erosion Control in Temporary Ditches and Diversions.



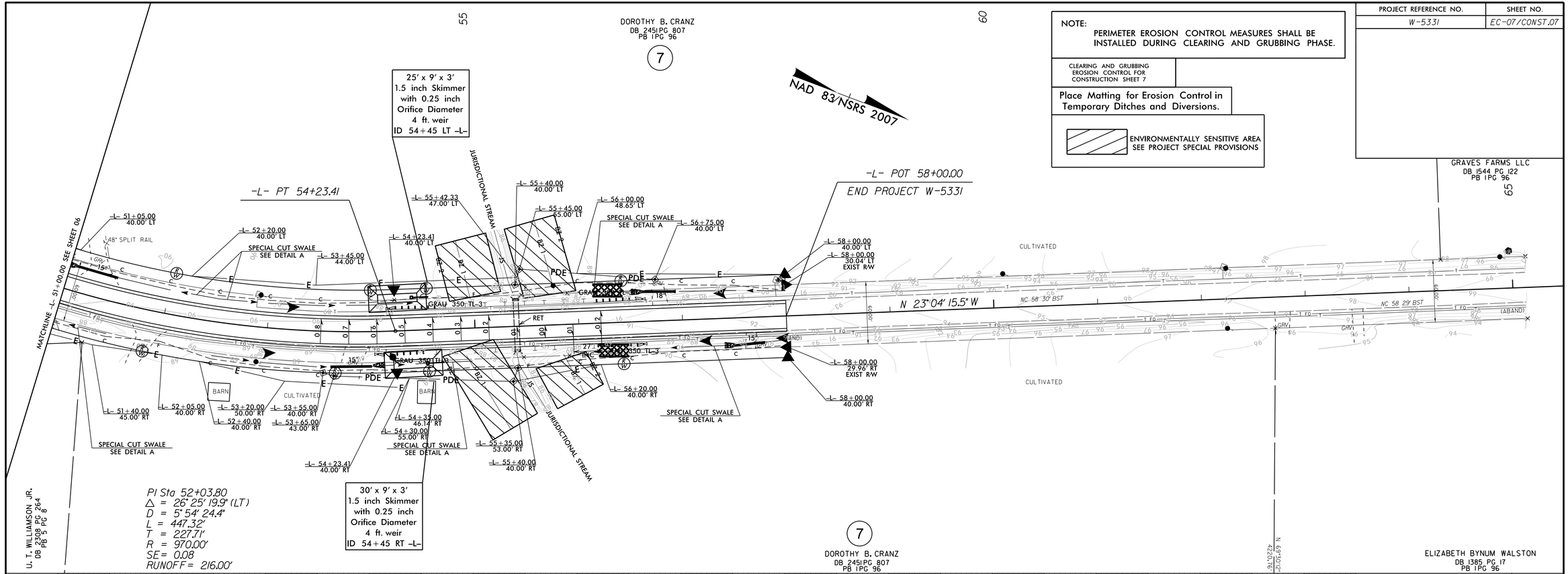
PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-07/CONST.07

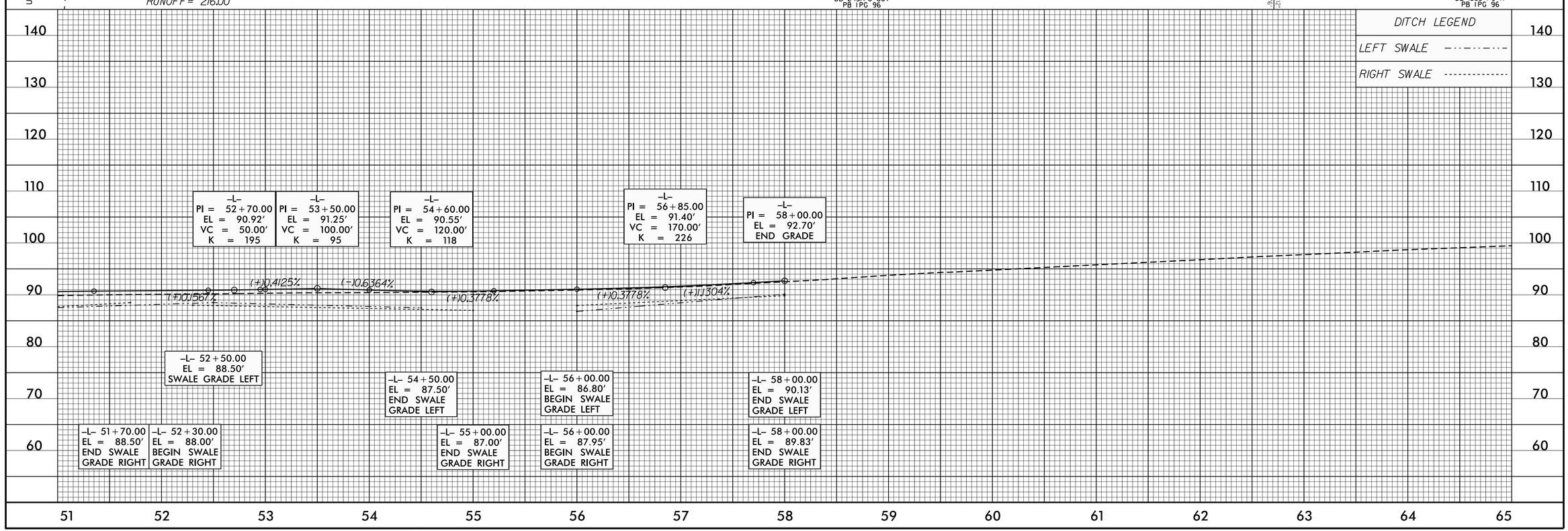
NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

Place Matting for Erosion Control in Temporary Ditches and Diversions.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



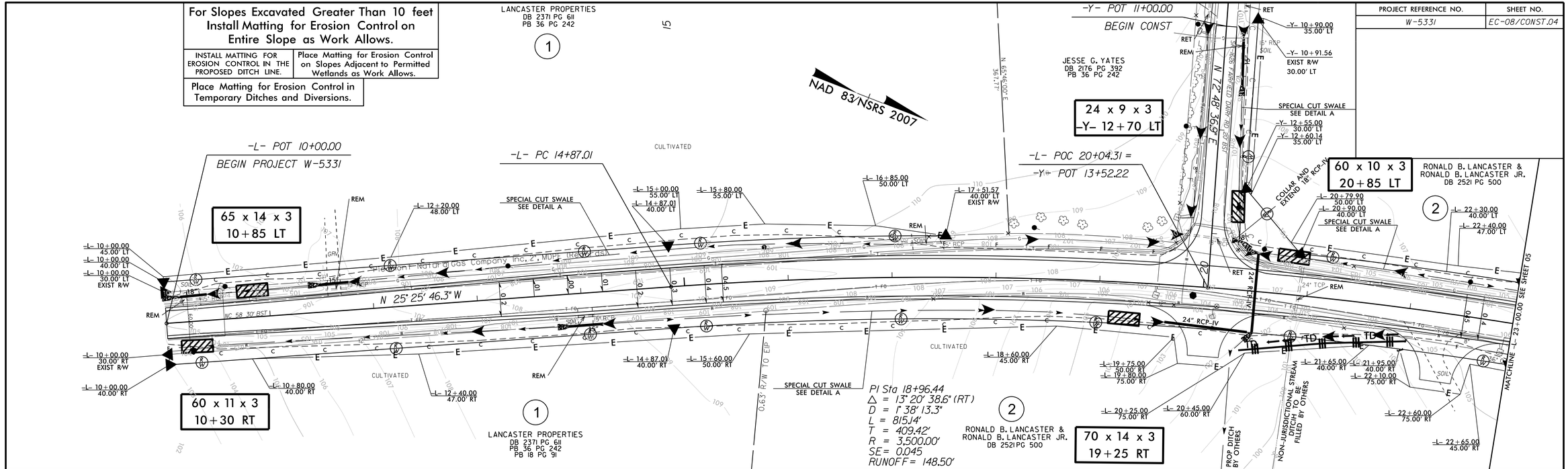


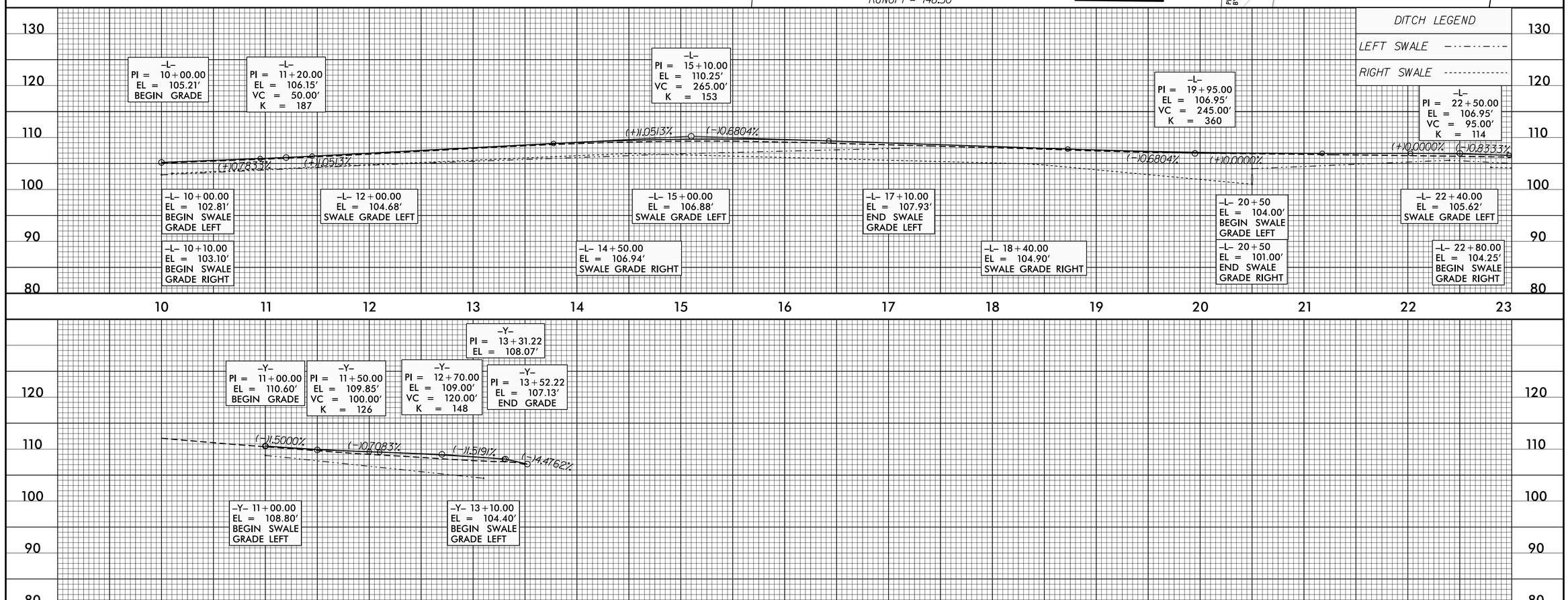
PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-08/CONST.04

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

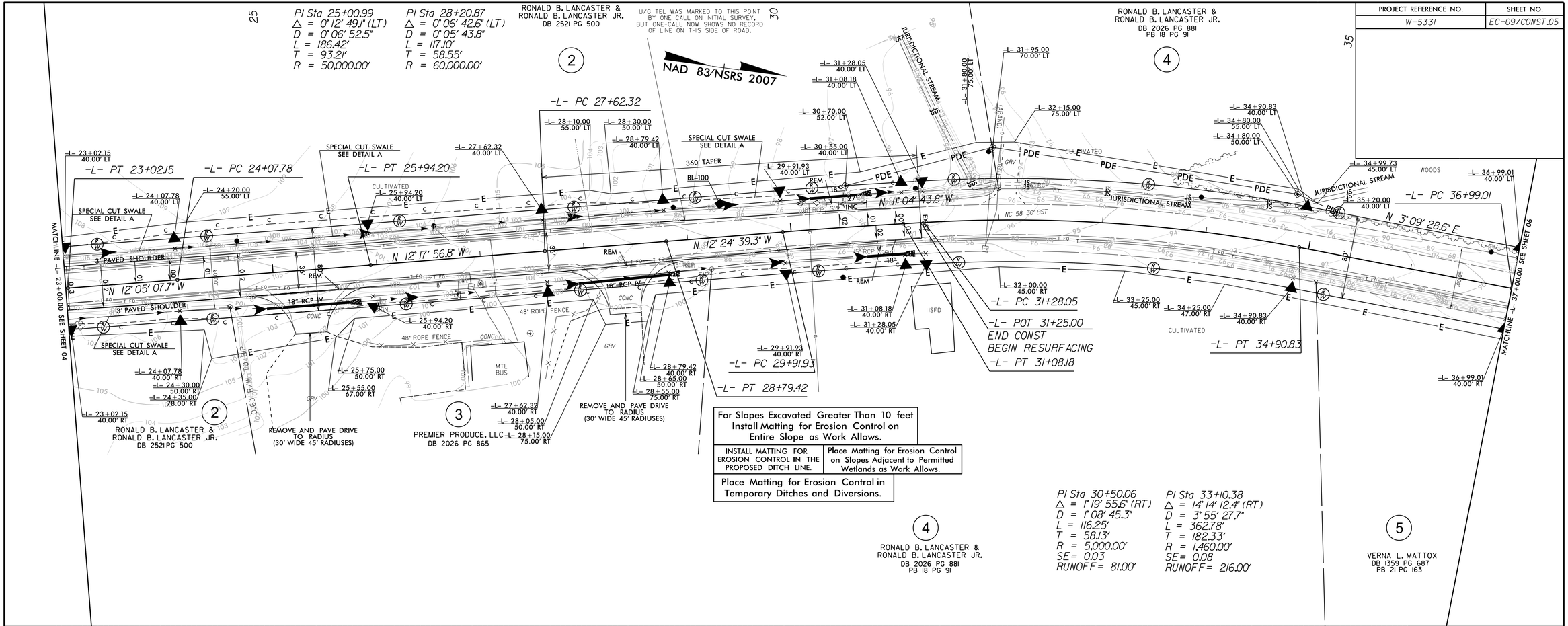
INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.	Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

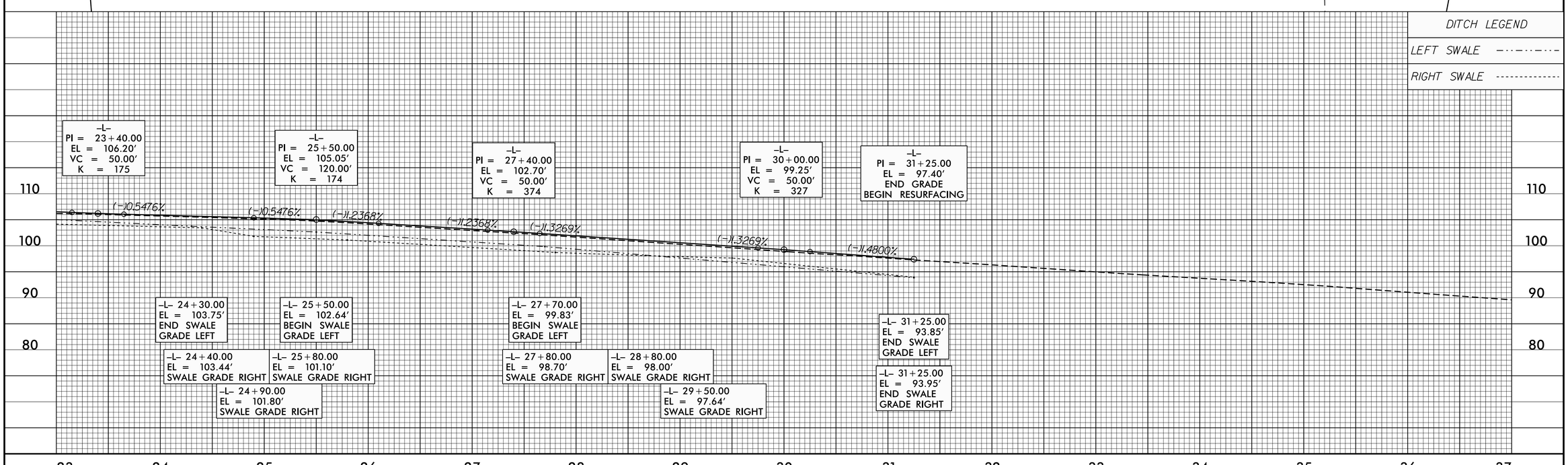
Place Matting for Erosion Control in Temporary Ditches and Diversions.





PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-09/CONST.05





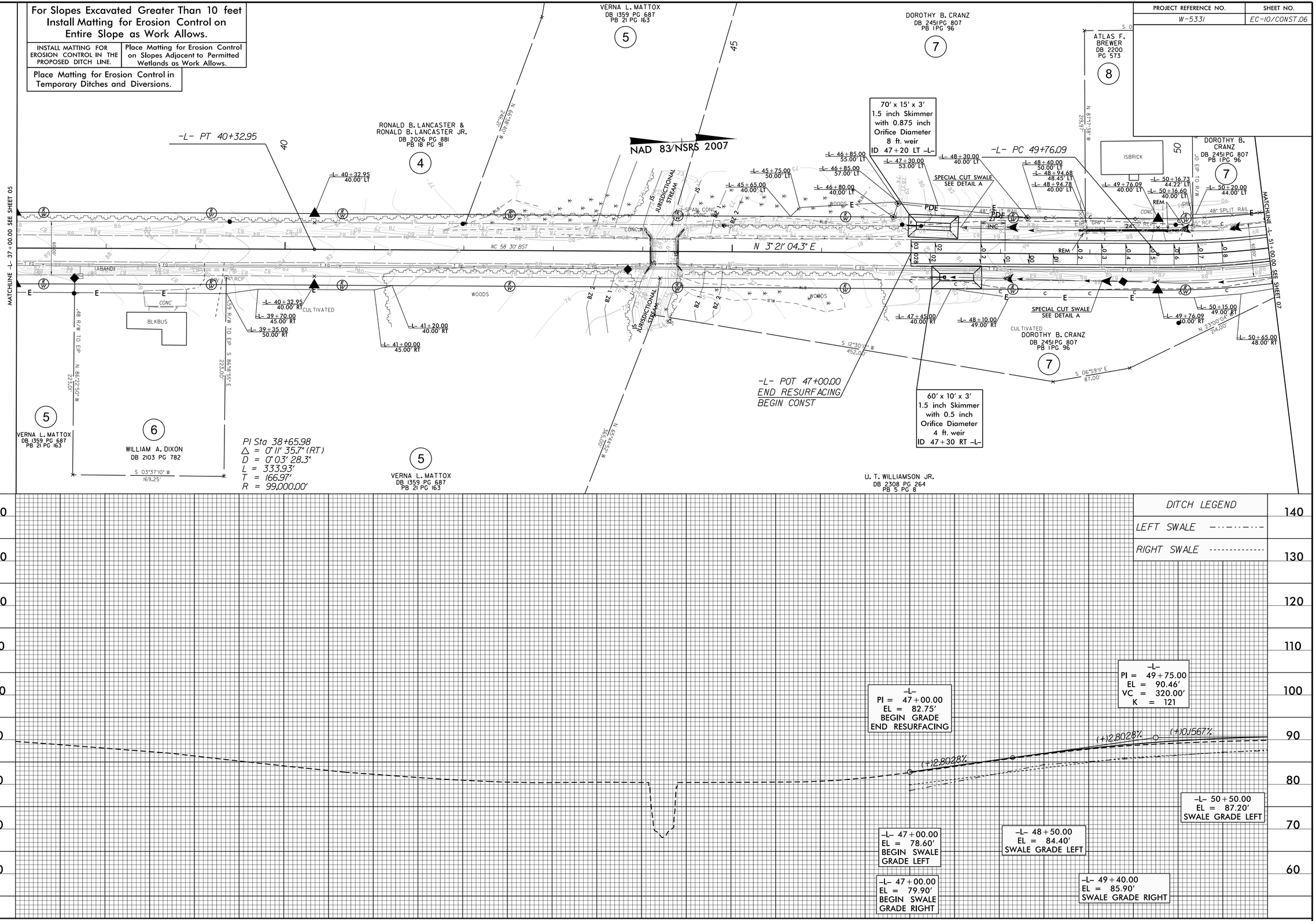
PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-10/CONST.06

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

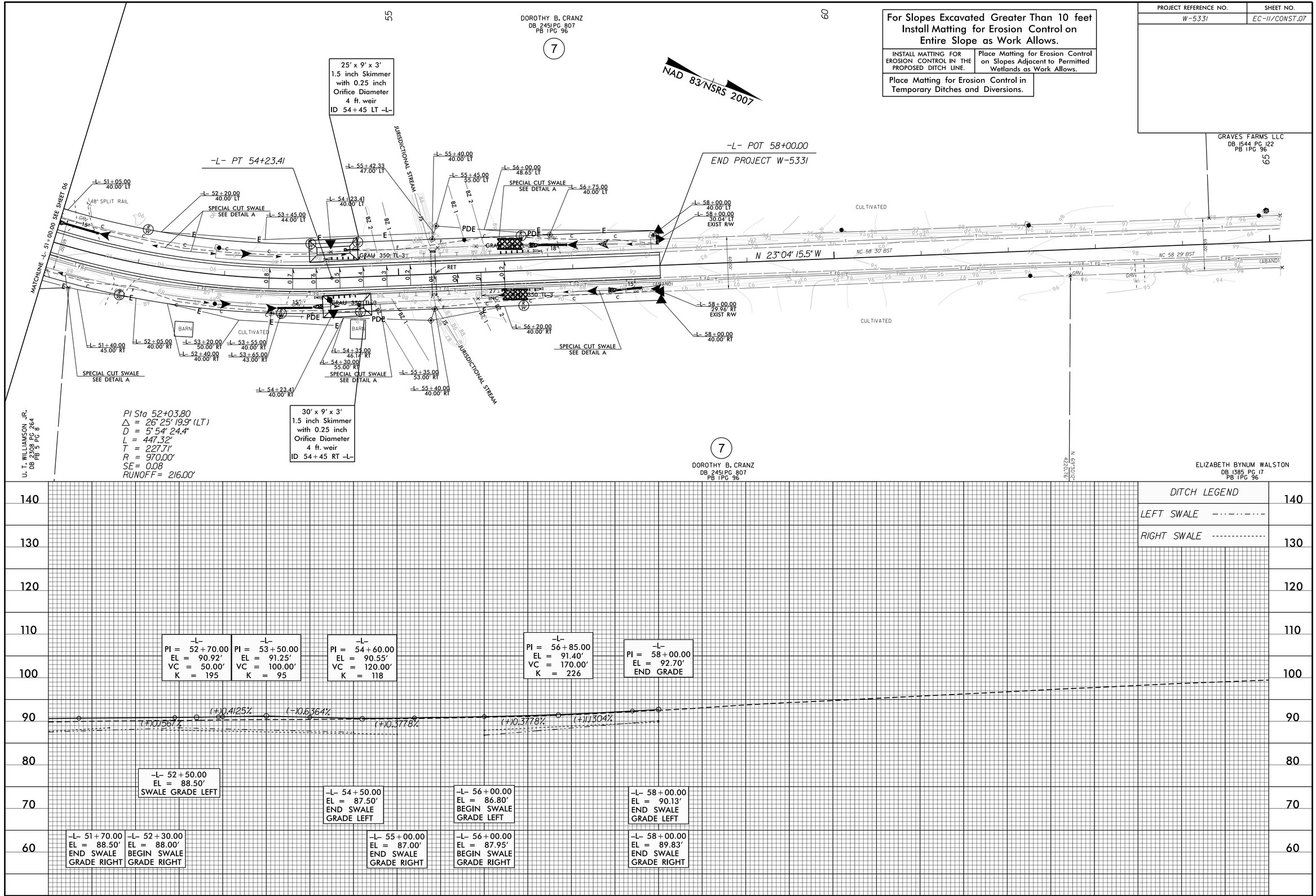
Place Matting for Erosion Control in Temporary Ditches and Diversions.



PROJECT REFERENCE NO.	SHEET NO.
W-5331	EC-11/CONST.07

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

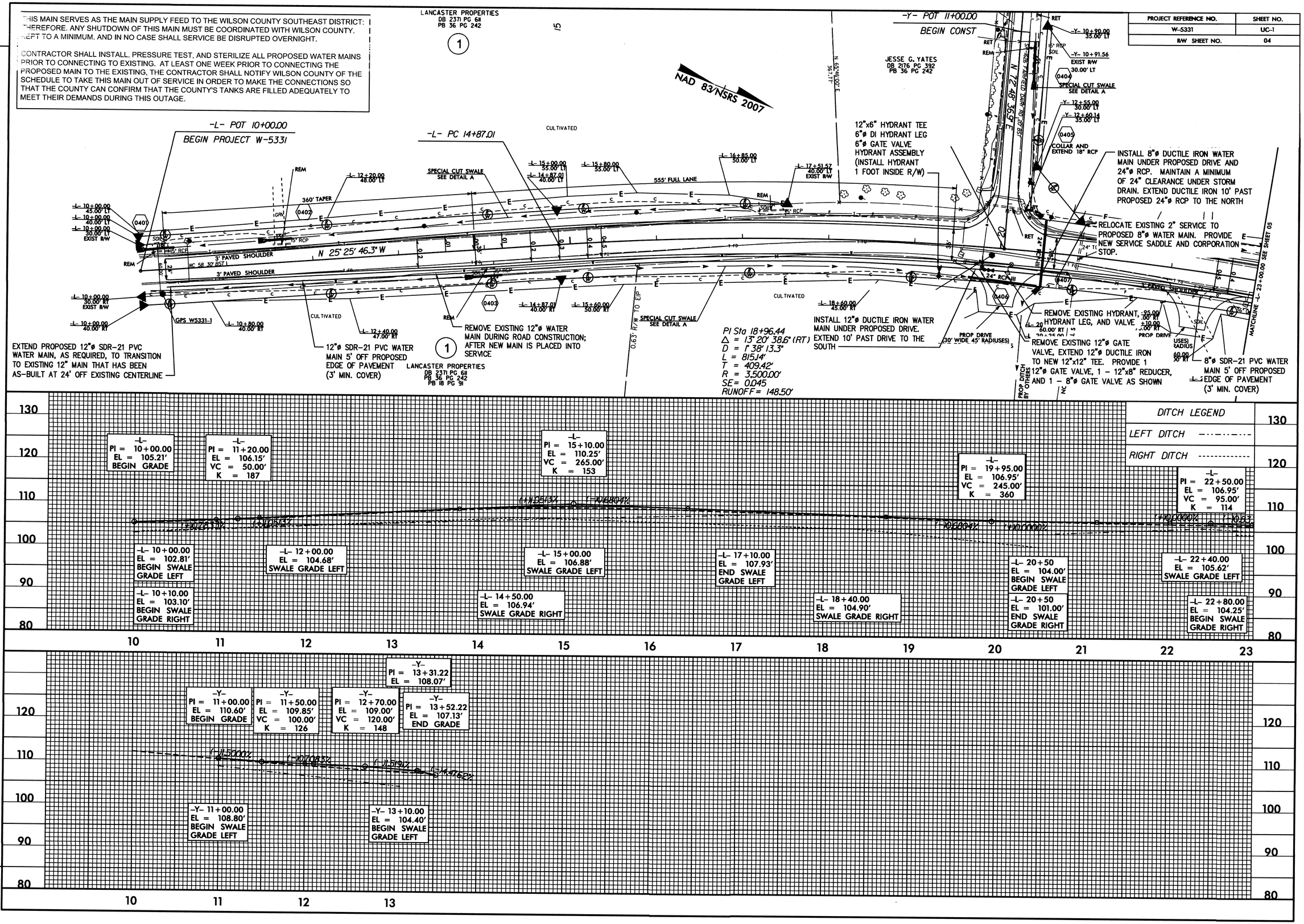
INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.	Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
Place Matting for Erosion Control in Temporary Ditches and Diversions.	



PROJECT REFERENCE NO.	SHEET NO.
W-5331	UC-1
R/W SHEET NO.	04

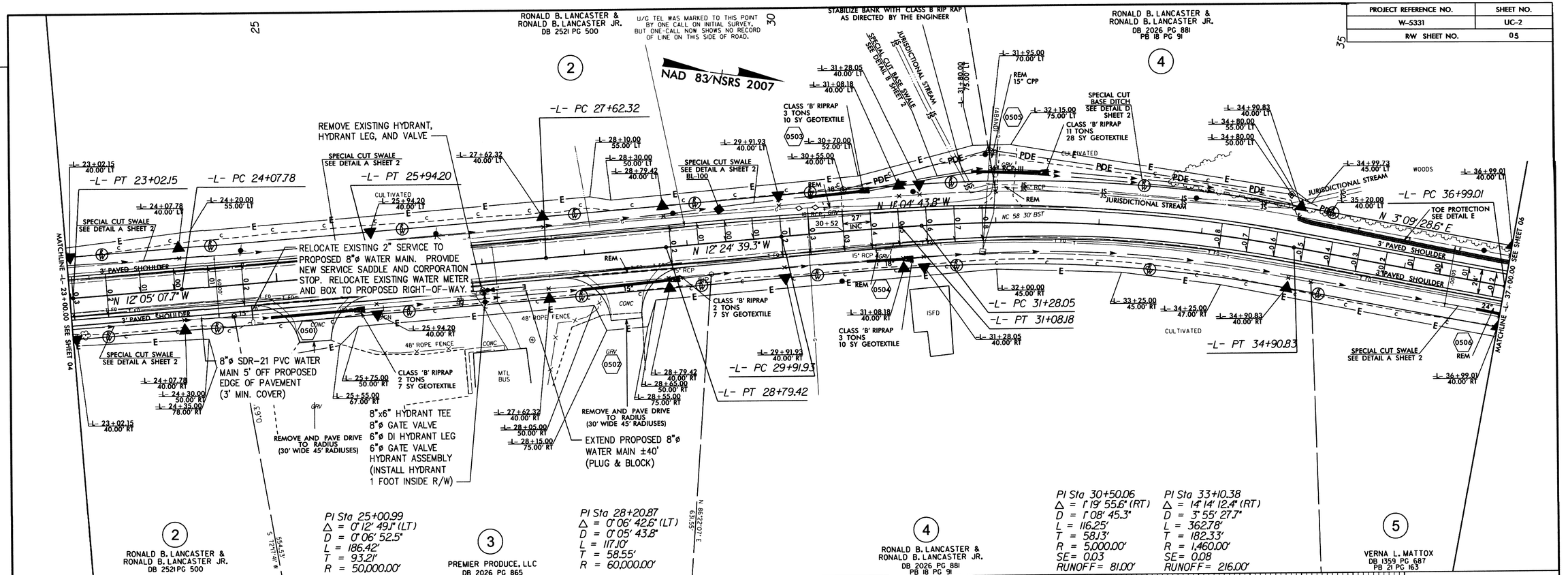
THIS MAIN SERVES AS THE MAIN SUPPLY FEED TO THE WILSON COUNTY SOUTHEAST DISTRICT; THEREFORE, ANY SHUTDOWN OF THIS MAIN MUST BE COORDINATED WITH WILSON COUNTY. KEPT TO A MINIMUM, AND IN NO CASE SHALL SERVICE BE DISRUPTED OVERNIGHT.

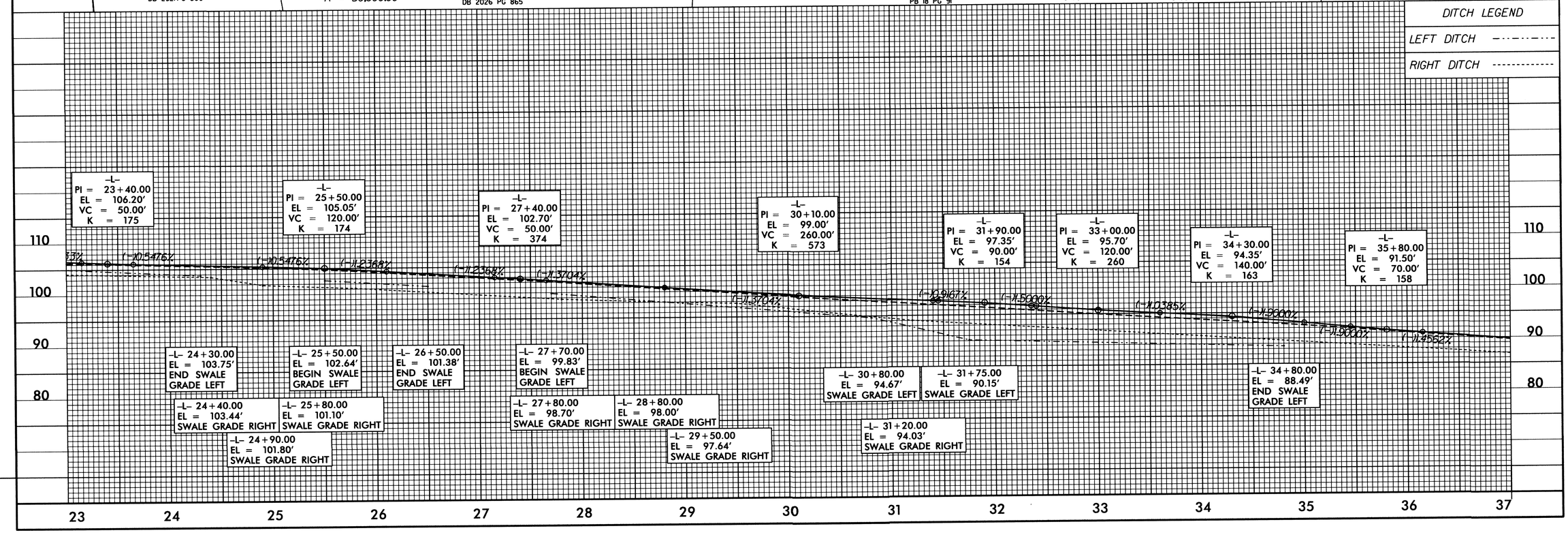
CONTRACTOR SHALL INSTALL, PRESSURE TEST, AND STERILIZE ALL PROPOSED WATER MAINS PRIOR TO CONNECTING TO EXISTING. AT LEAST ONE WEEK PRIOR TO CONNECTING THE PROPOSED MAIN TO THE EXISTING, THE CONTRACTOR SHALL NOTIFY WILSON COUNTY OF THE SCHEDULE TO TAKE THIS MAIN OUT OF SERVICE IN ORDER TO MAKE THE CONNECTIONS SO THAT THE COUNTY CAN CONFIRM THAT THE COUNTY'S TANKS ARE FILLED ADEQUATELY TO MEET THEIR DEMANDS DURING THIS OUTAGE.



REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-5331	UC-2
R/W SHEET NO.	05





REVISIONS

Revision 1-23-2014 MODIFICATION OF THE PROPERTY OWNER'S NAME, R/W AND TEMP. CONSTRUCTION EASEMENT ON PARCEL 2 AND MODIFICATION OF THE TEMP. CONSTRUCTION EASEMENT ON PARCEL 3

PROJ. REFERENCE NO.	SHEET NO.
W-5331	X-1A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CROSS-SECTION SUMMARY

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDES BACKFILL FOR UNDERCUT

STATION L	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
10+00			
10+50	15	6	
11+00	31	11	
11+50	29	13	
12+00	39	15	
12+50	62	15	
13+00	78	15	
13+50	84	16	
14+00	86	18	
14+50	77	28	
15+00	75	42	
15+50	94	45	
16+00	104	42	
16+50	106	33	
17+00	97	21	
17+50	83	12	
18+00	62	10	
18+50	29	16	
19+00	10	33	
19+50	6	57	
20+00	6	68	
20+50	11	47	
21+00	19	115	
21+50	16	96	
22+00	18	59	
22+50	19	49	
23+00	30	44	
23+50	55	36	
24+00	77	28	
24+50	95	23	
25+00	105	16	
25+50	102	12	
26+00	94	22	
26+50	85	31	
27+00	83	31	
27+50	73	31	
28+00	62	24	
28+50	60	18	
29+00	55	25	
29+50	41	32	
30+00	37	33	
30+50	44	24	
31+00	47	23	
31+50			
32+00			
32+50			
33+00			
33+50			
34+00			
34+50			
35+00			
35+50			

STATION L	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
47+00	1	12	
47+50	10	26	
48+00	35	30	
48+50	48	32	
49+00	63	31	
49+50	61	31	
50+00	40	38	
50+50	32	48	
51+00	17	63	
51+50	14	61	
52+00	16	40	
52+50	14	39	
53+00	14	57	
53+50	13	66	
54+00	11	62	
54+50	12	67	
55+00	12	82	
55+50	4	106	
56+00	19	92	
56+50	35	52	
57+00	29	38	
57+50	19	26	
58+00	9	14	

STATION Y	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
11+00			
11+50	6	5	
12+00	6	11	
12+50	6	17	
13+00	11	15	

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

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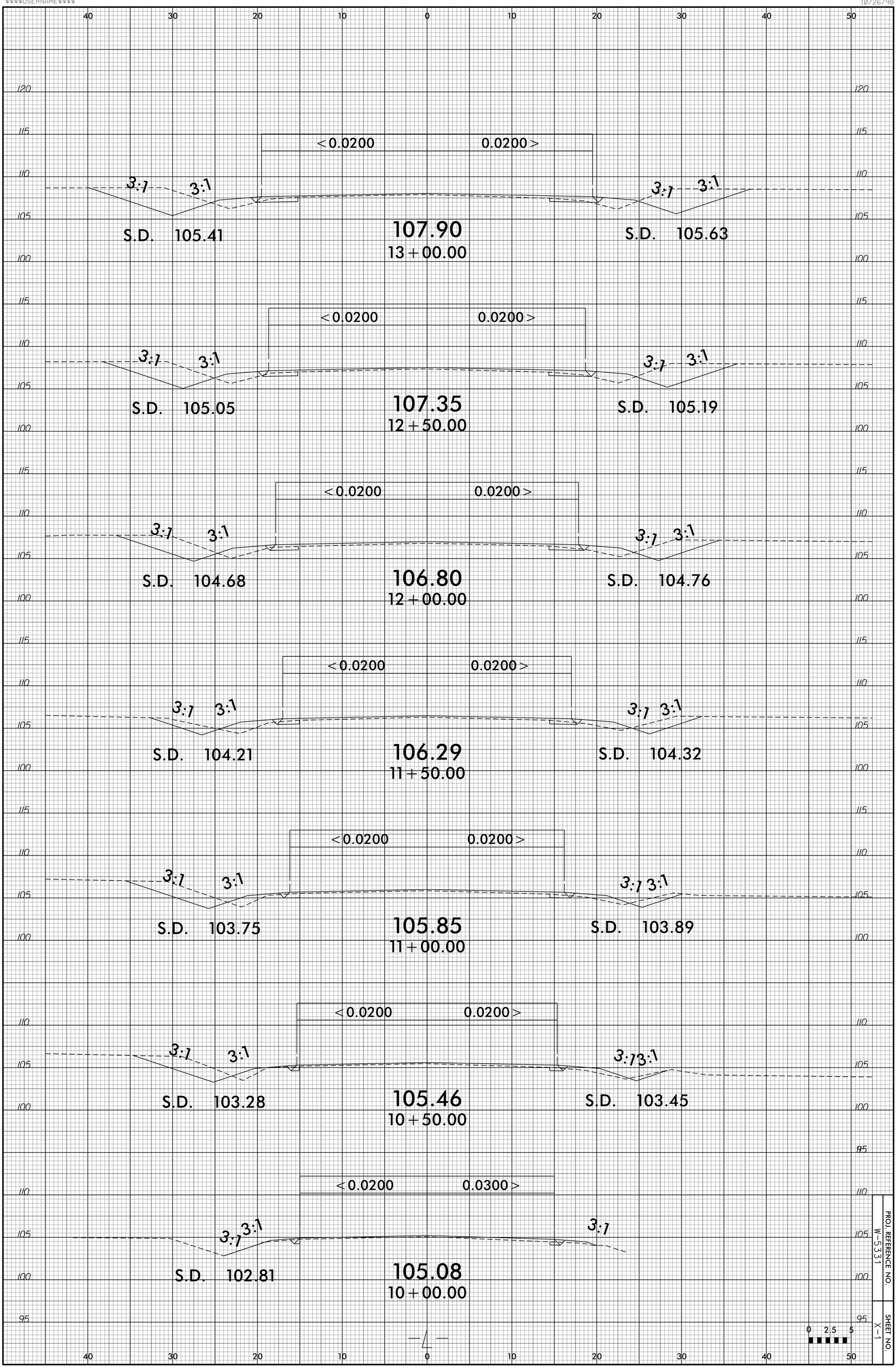

PROJ. REFERENCE NO.
W-5331

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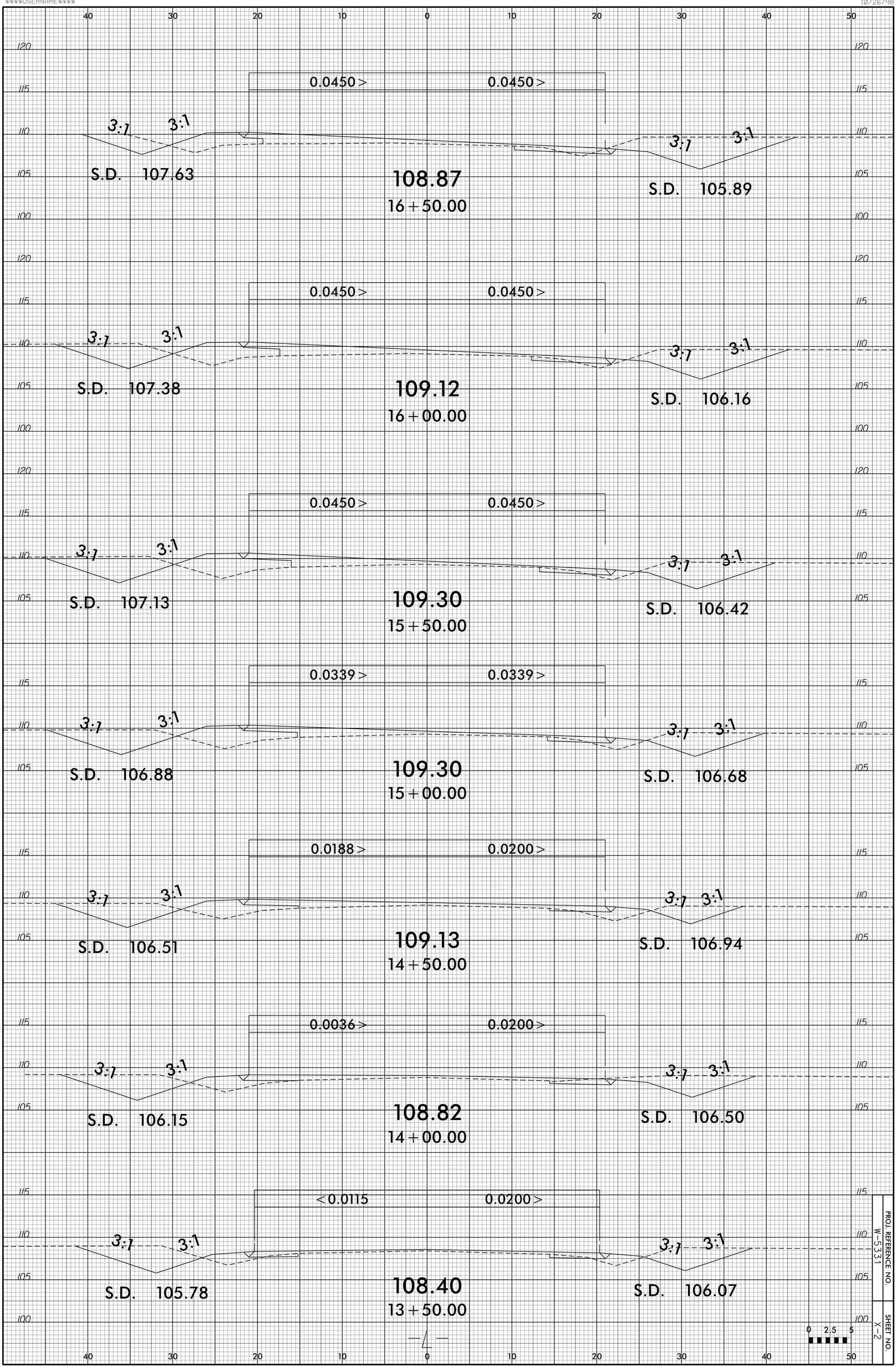
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S.D. 105.89
0.0450 >
0.0450 >
3:1
3:1
3:1
3:1
S.D. 107.38
109.12
16 + 00.00
S.D. 106.16
0.0450 >
0.0450 >
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3:1
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109.30
15 + 50.00
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15 + 00.00
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13 + 50.00
S.D. 106.07
0 2.5 5
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W-5331
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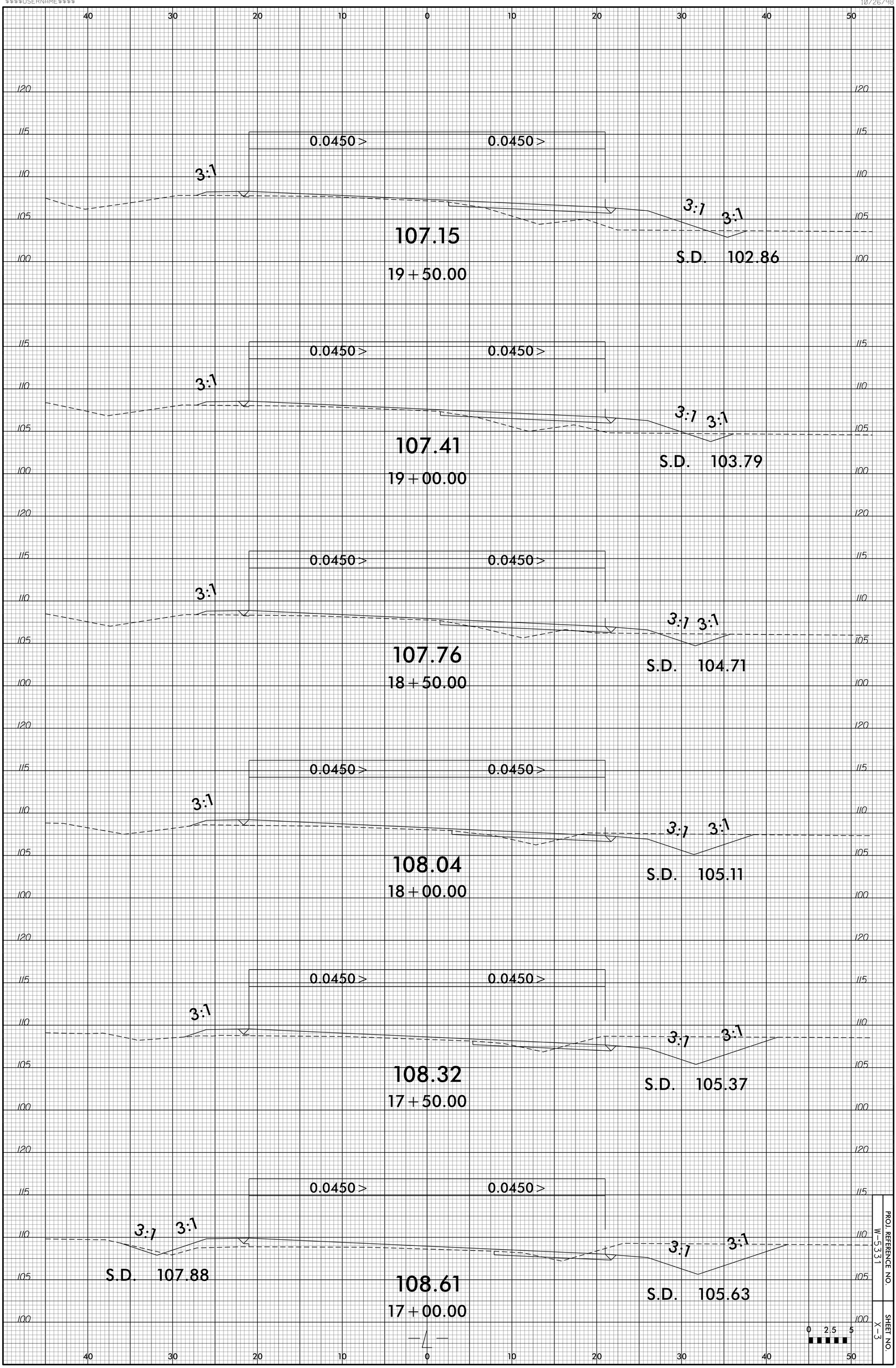

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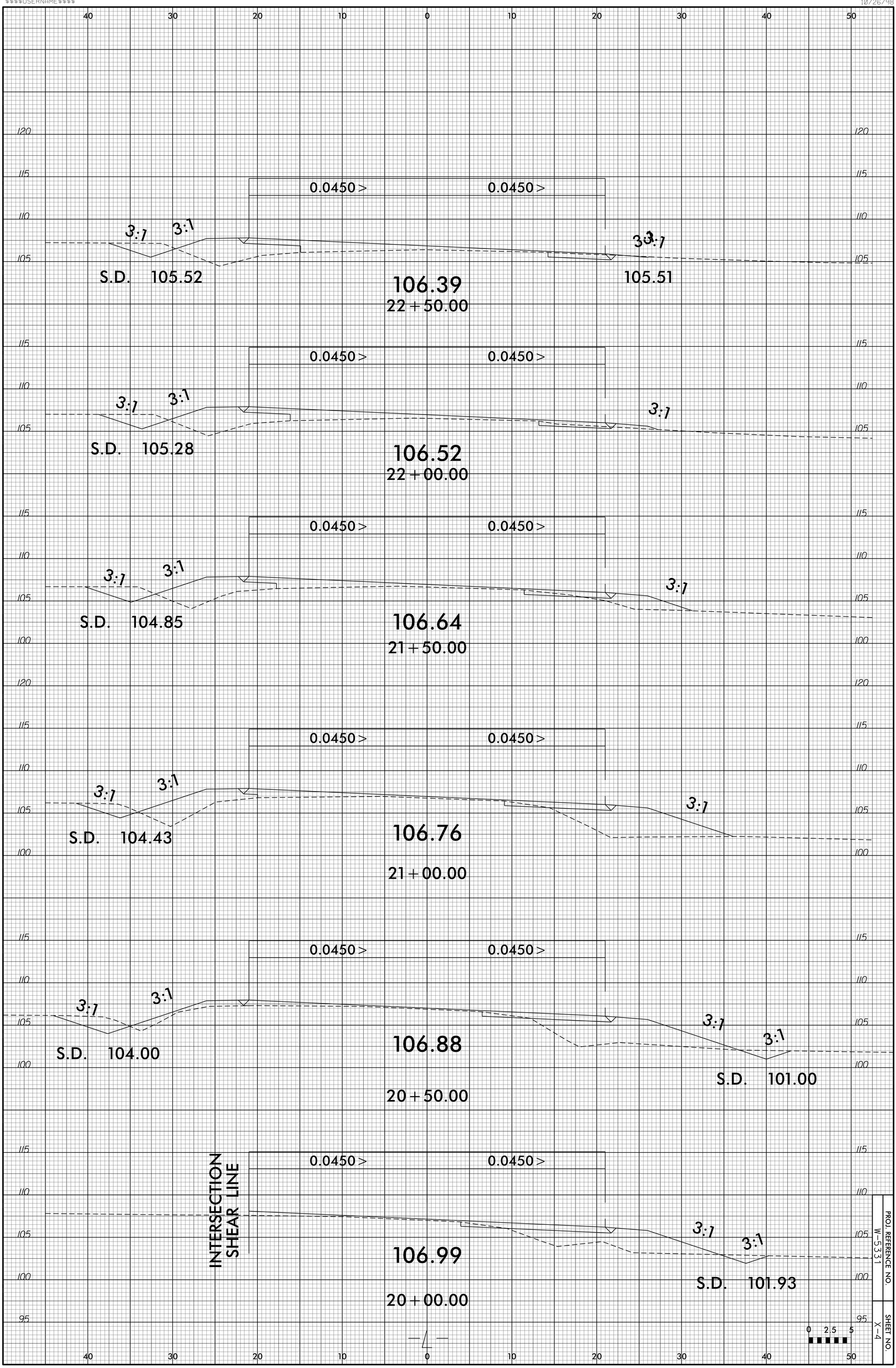

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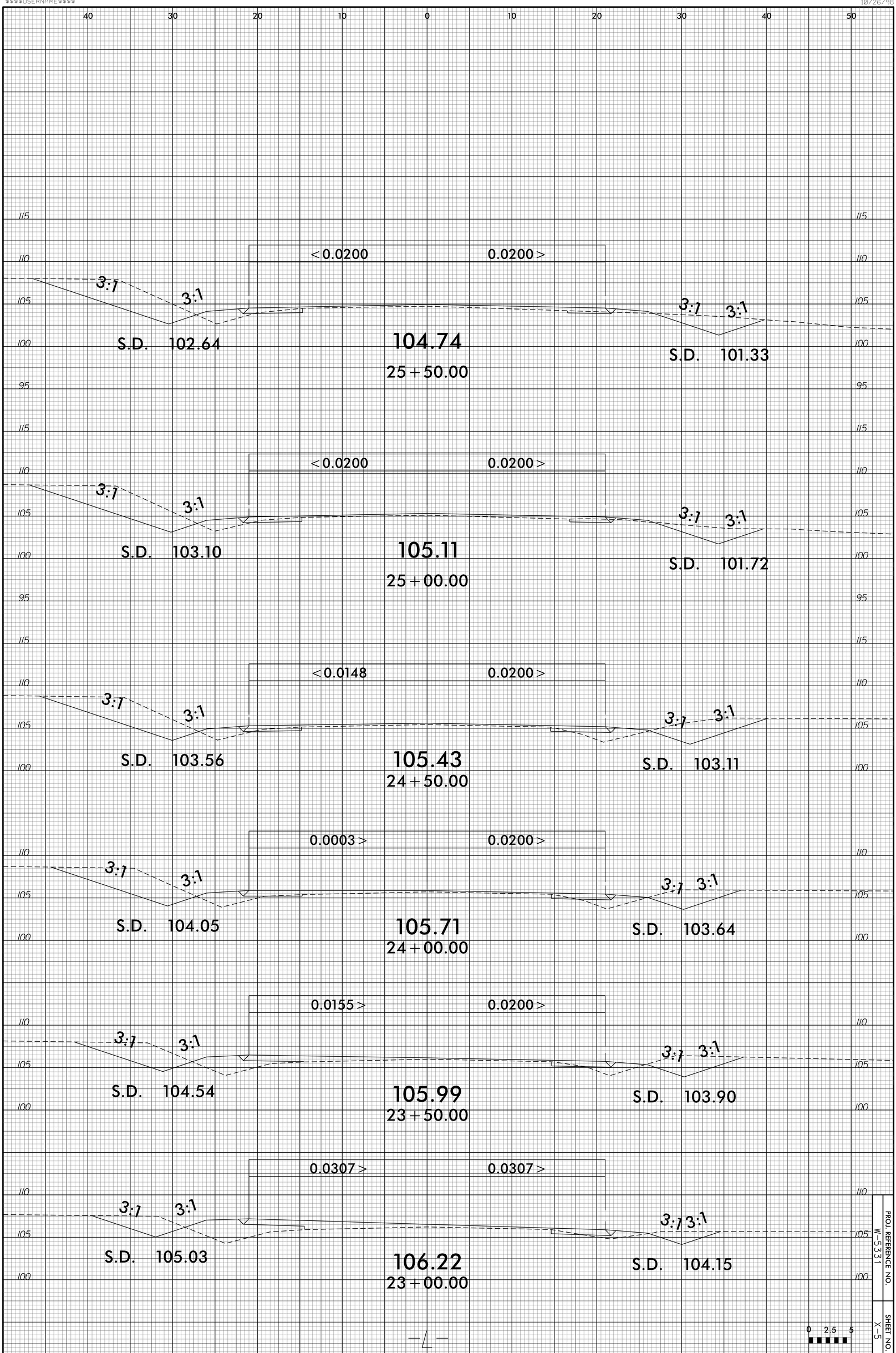

PROJ. REFERENCE NO. W-5331

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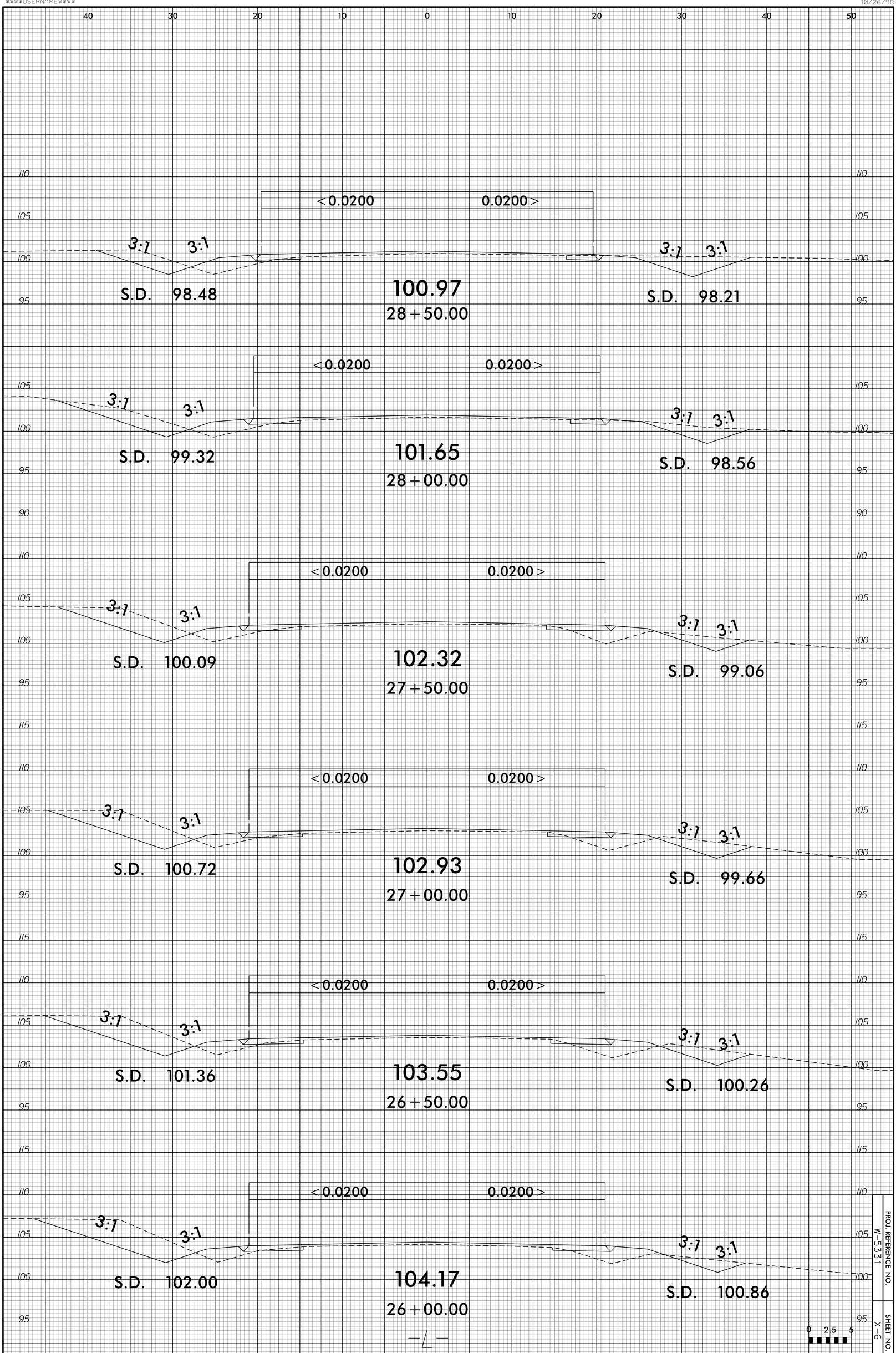

PROJ. REFERENCE NO.
W-5331

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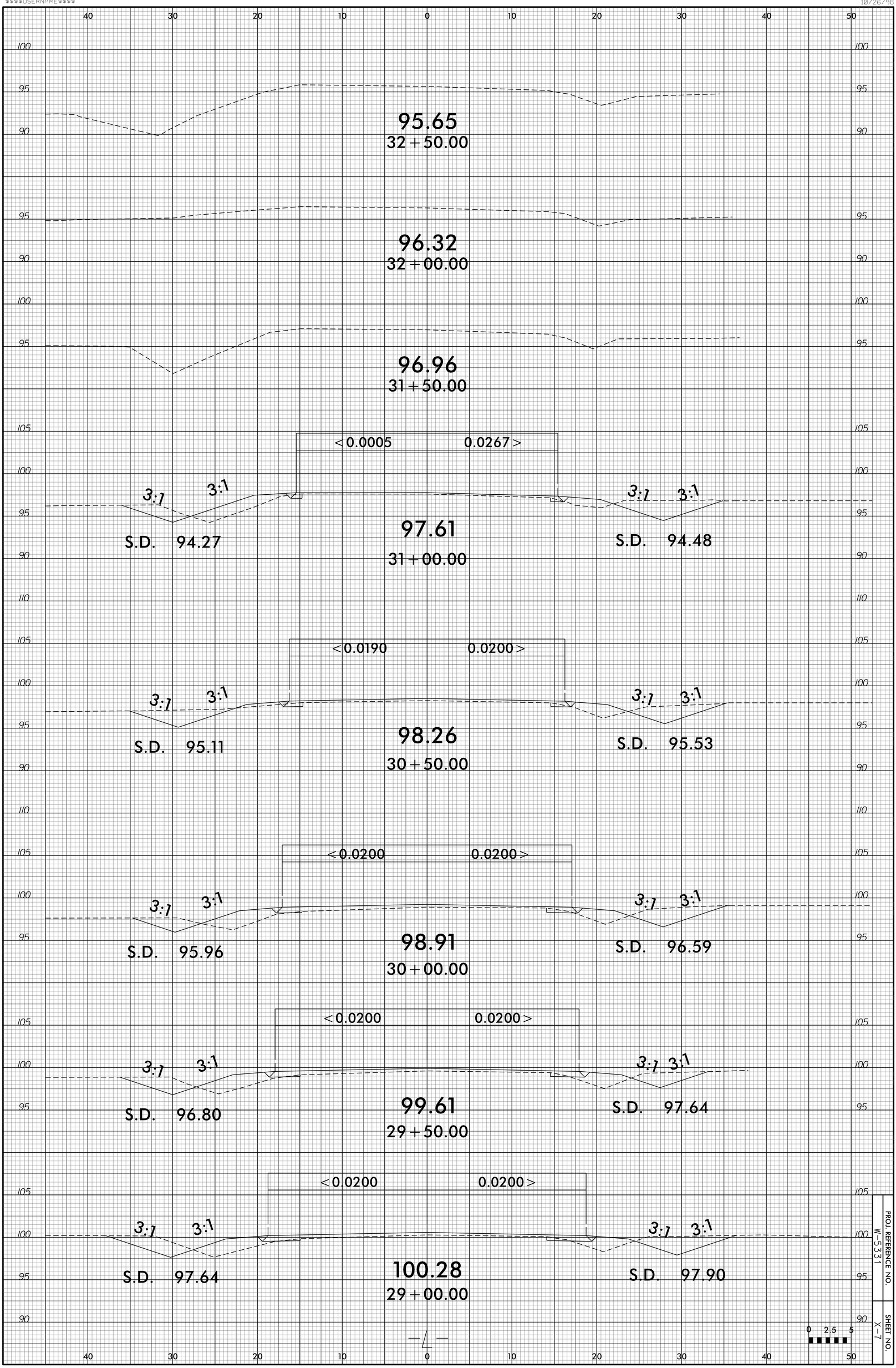
10/26/98



PROJ. REFERENCE NO. W-5331

SHEET NO. X-7

17-AUG-2015 15:16
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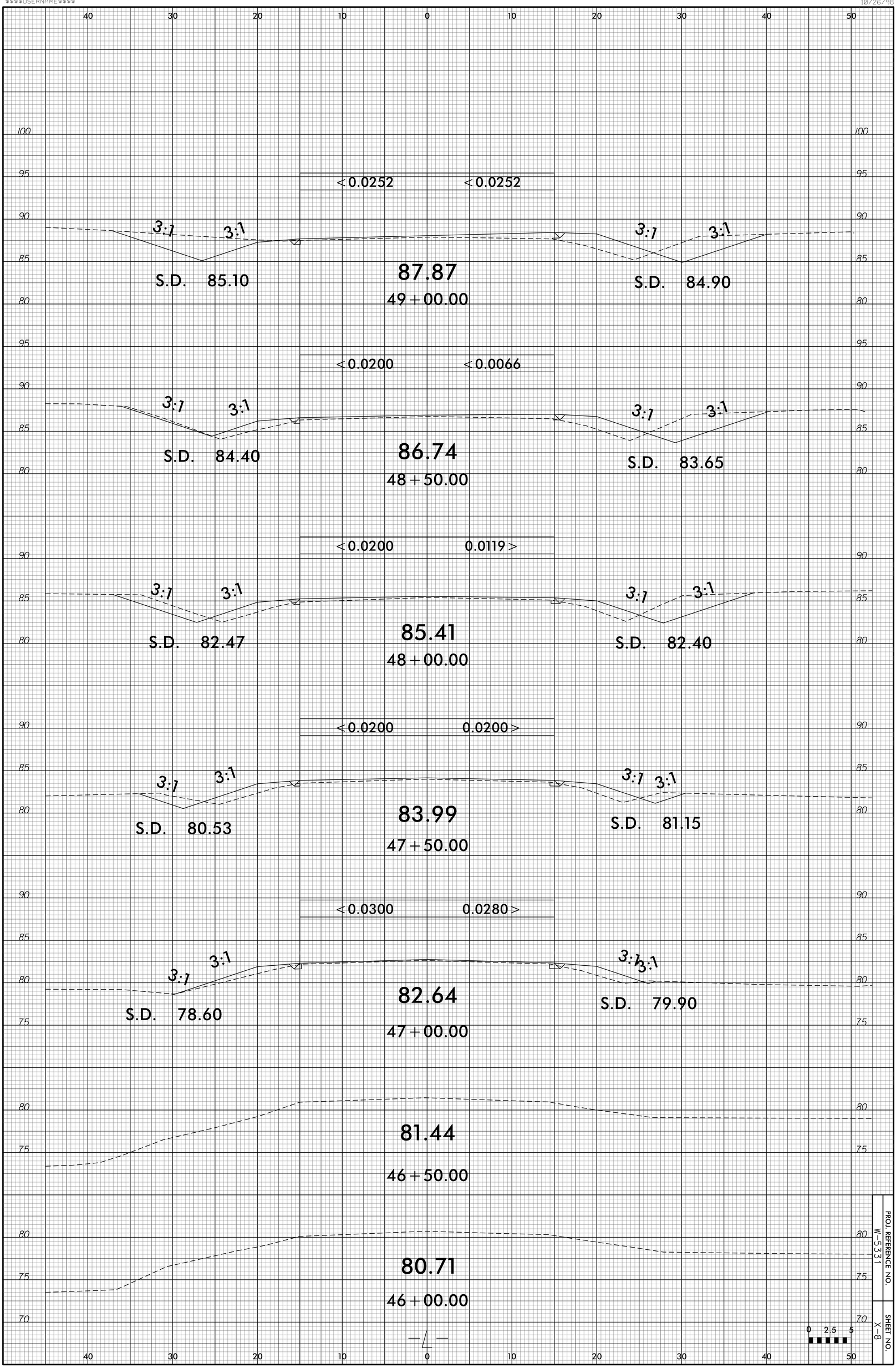
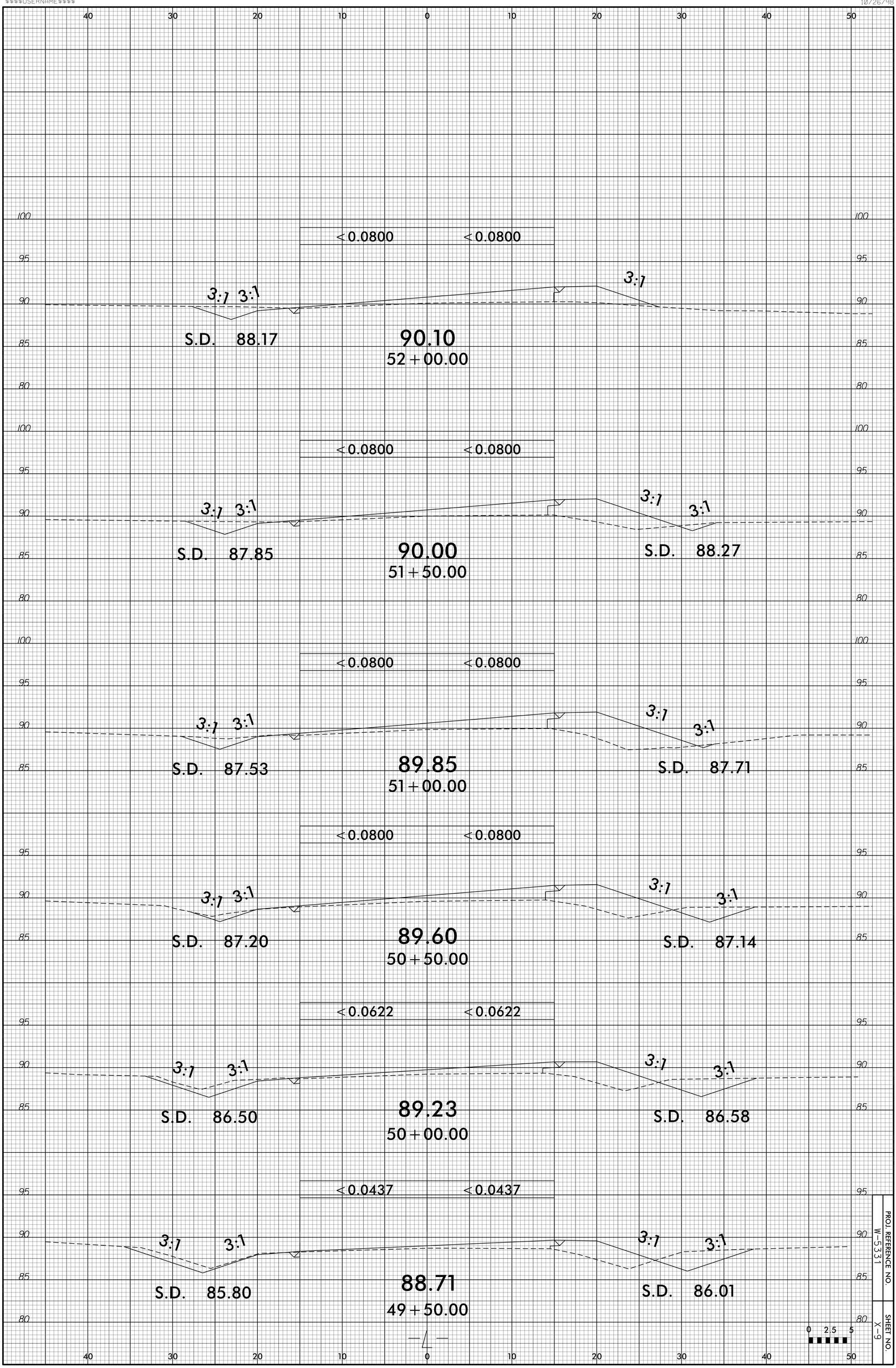


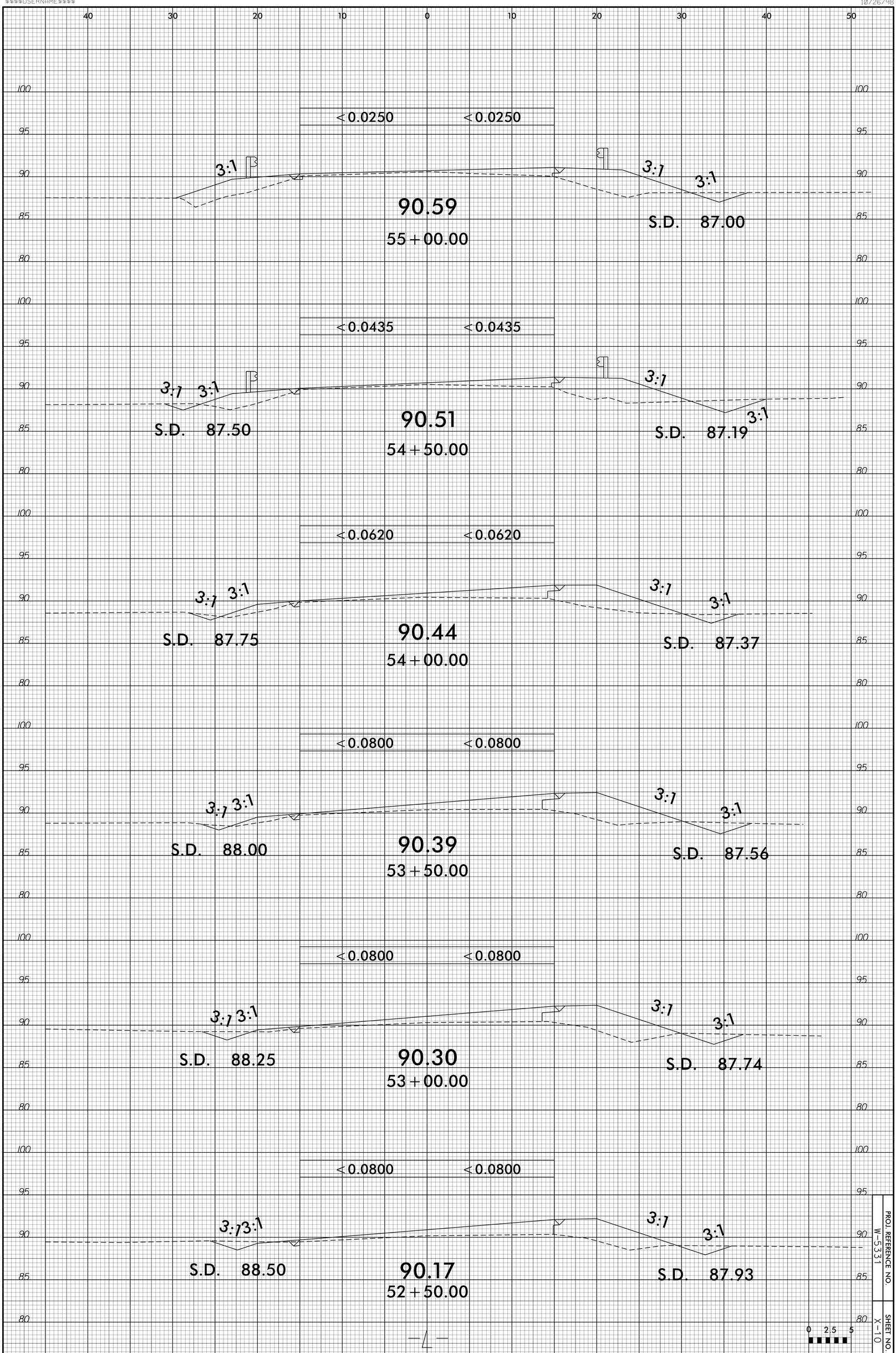
PROJ. REFERENCE NO.
W-5331

SHEET NO.
X-8



PROJ. REFERENCE NO. W-5331

SHEET NO. X-9



PROJ. REFERENCE NO. W-5331

SHEET NO. X-10

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10/26/98

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PROJ. REFERENCE NO. W-5331

SHEET NO. X-11

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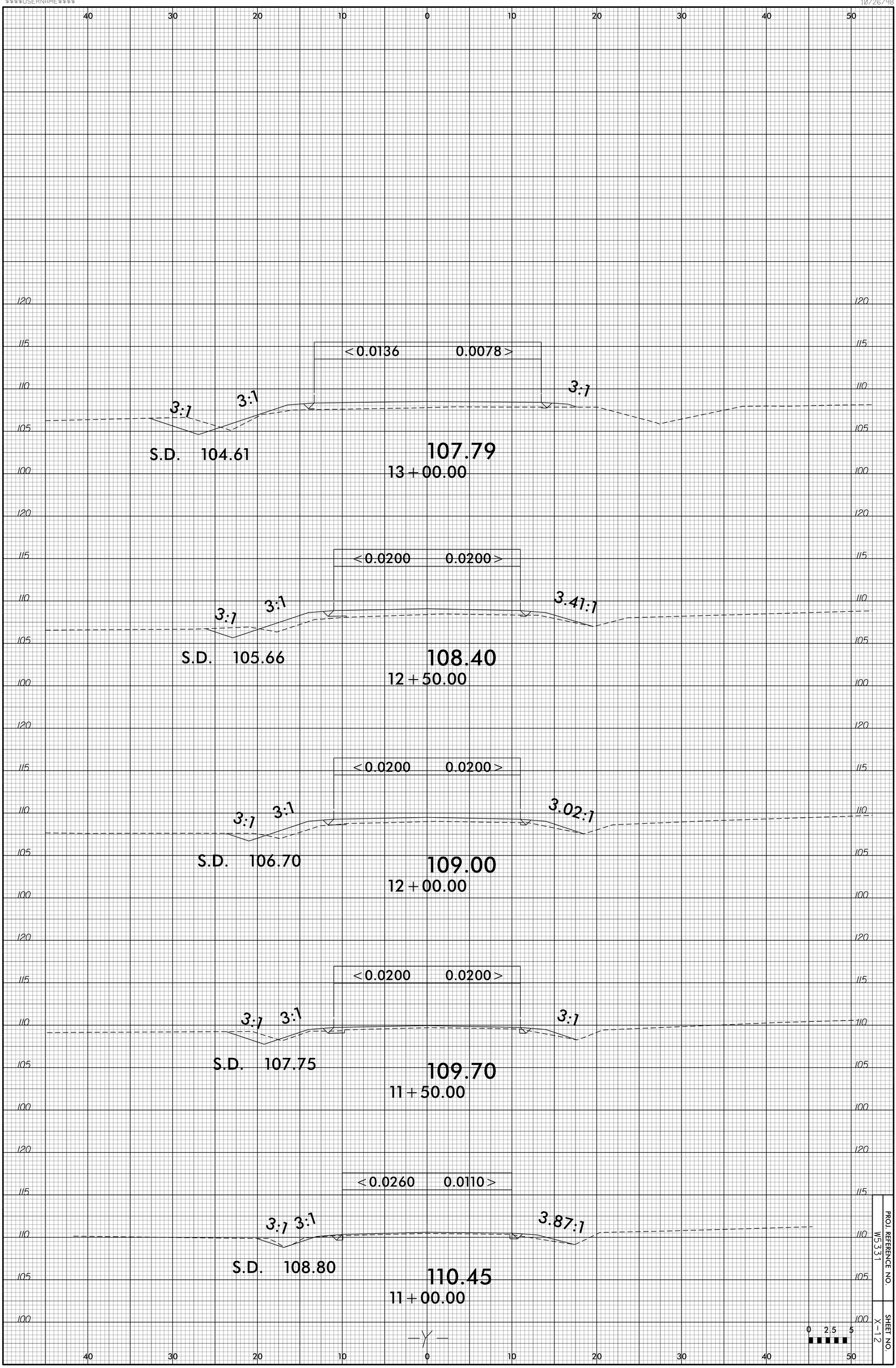
10/26/98



PROJ. REFERENCE NO.
W5331

SHEET NO.
X-12