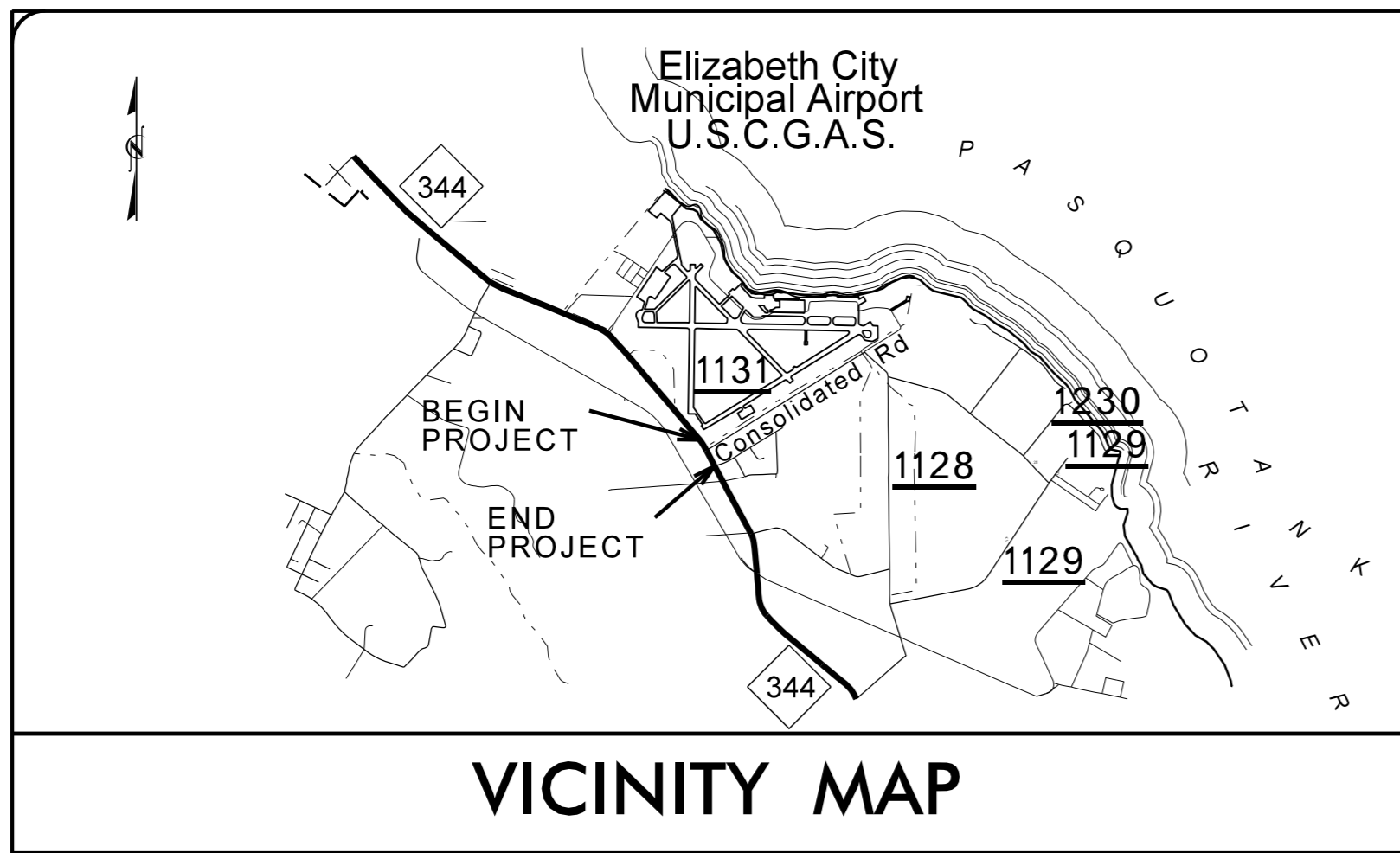


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TIP NUMBER: W-5201B
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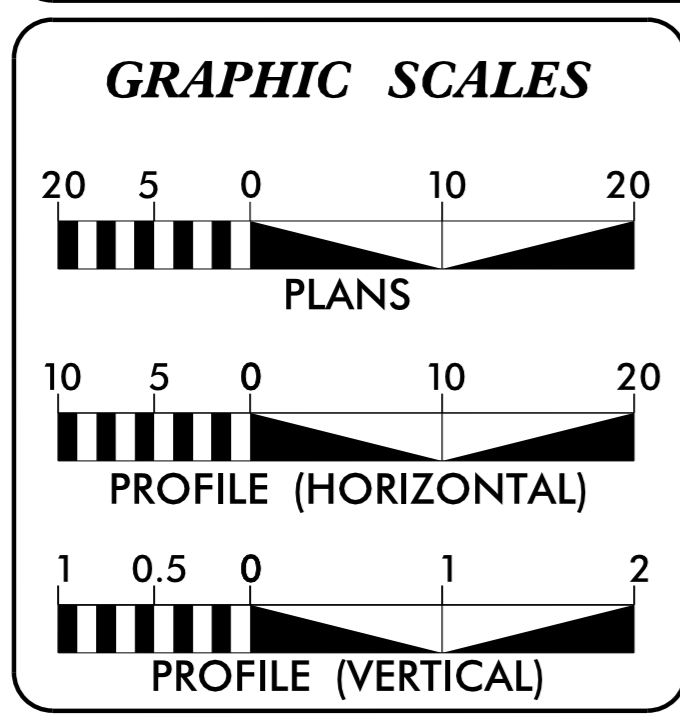
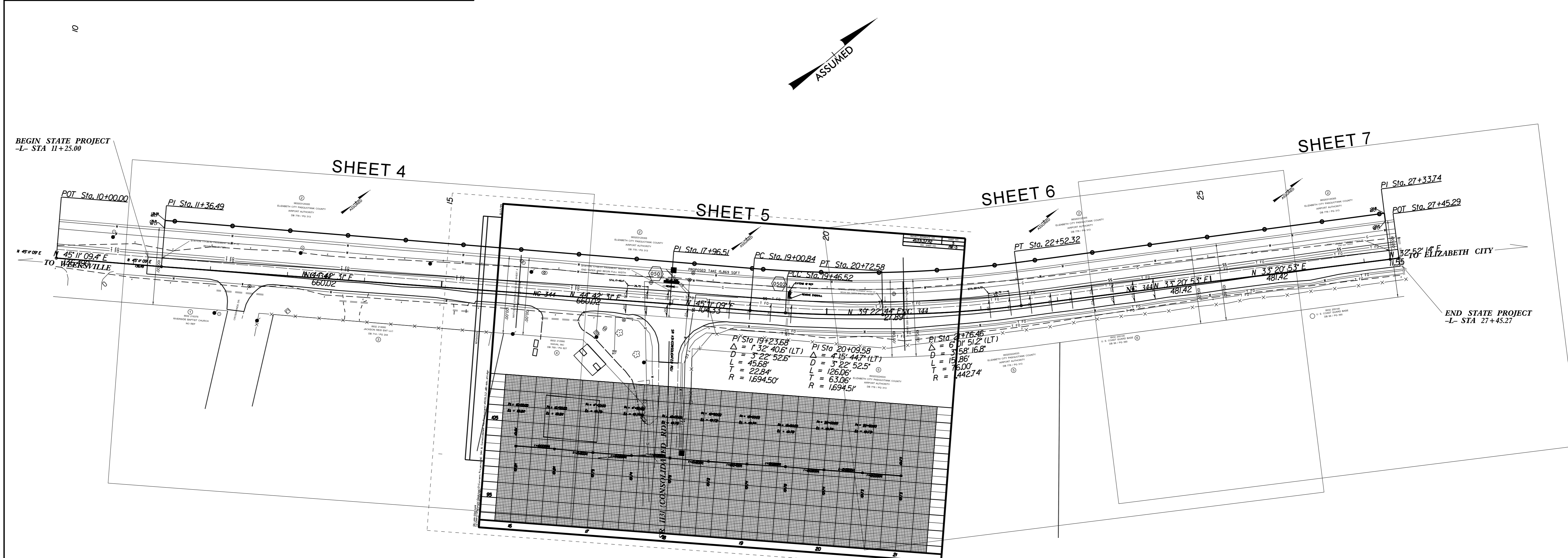


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
PASQUOTANK COUNTY

LOCATION: NC 344 & CONSOLIDATED RD.(SR 1131)

**TYPE OF WORK: DRAINAGE, GRADING, BASE, PAVING & RESURFACING
FOR LEFT TURN LANE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45331.3.FR2	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
43351.1.2	HRRR-1131(12)	PE	
43551.2.2		R /W & UTIL.	
45531.3.FR2		CONST.	



DESIGN DATA

V = 55 MPH

PROJECT LENGTH

LENGTH ROADWAY STATE PROJECT 45331.3.2 = 0.307 MILES
 LENGTH ROADWAY FEDERAL PROJECT HRRR-1131(12) = 0.307 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
 113 Airport Dr., Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

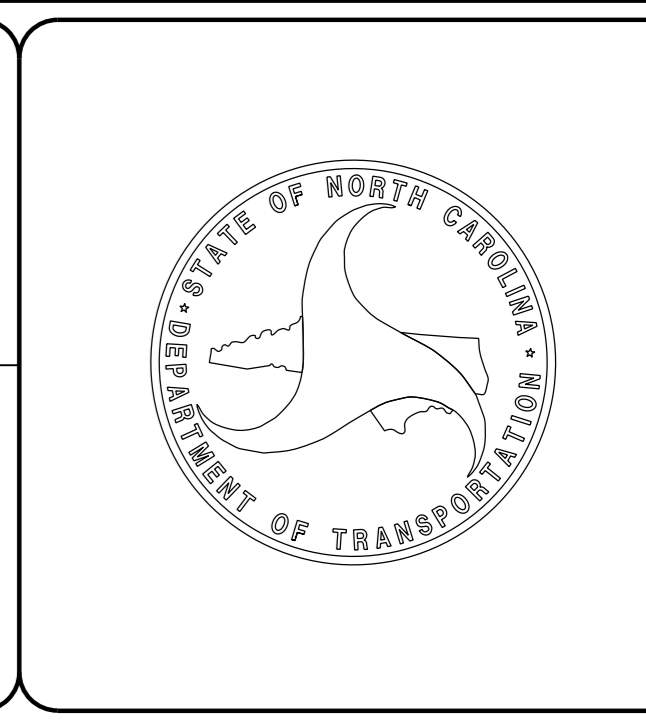
RIGHT OF WAY DATE:
OCTOBER 31, 2013

LETTING DATE:

BARRY HOBBS, PE
 DIVISION PROJECT MANAGER

CHRIS SLACHTA
 DIVISION PROPOSALS ENGINEER

S. P. FENWICK, PLS
 DIVISION DESIGN ENGINEER



SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
3-A	EARTHWORK SUMMARY
3-B	PARCEL INDEX SHEET
3-C	LIST OF PIPES
4 THRU 7	PLAN SHEET PROFILE SHEET
EC-1 THRU EC-7	EROSION CONTROL PLANS
X-1A	CROSS-SECTION SUMMARY
X-1 THRU X-8	CROSS-SECTIONS

GENERAL NOTES:

2012 SPECIFICATIONS
 EFFECTIVE: 01-17-12
 REVISED: 11/01/11

GRADING AND SURFACING OR RESURFACING AND WIDENING:

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

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

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.

DRIVEWAYS:

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

RIGHT-OF-WAY MARKERS:

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

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 11
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 1

04/16/11

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	○ EP
Property Corner	----->
Property Monument	□ ECM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- NLB
Proposed Wetland Boundary	--- NLB
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	○
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	▭
False Sump	▭

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION 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 RW Marker	----- RW ●
Proposed Control of Access Line with Concrete CA 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	○
Storm Sewer	----- S

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	● ●
Recorded U/G Power Line	----- P
Designated U/G Power Line (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	▭
Telephone Pedestal	⊕
Telephone Cell Tower	●
U/G Telephone Cable Hand Hole	▭
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	⊕
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	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	▭
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	⊕
Utility Unknown U/G Line	----- ?UTL
U/G Tank; Water, Gas, Oil	▭
Underground Storage Tank, Approx. Loc.	⊕
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.

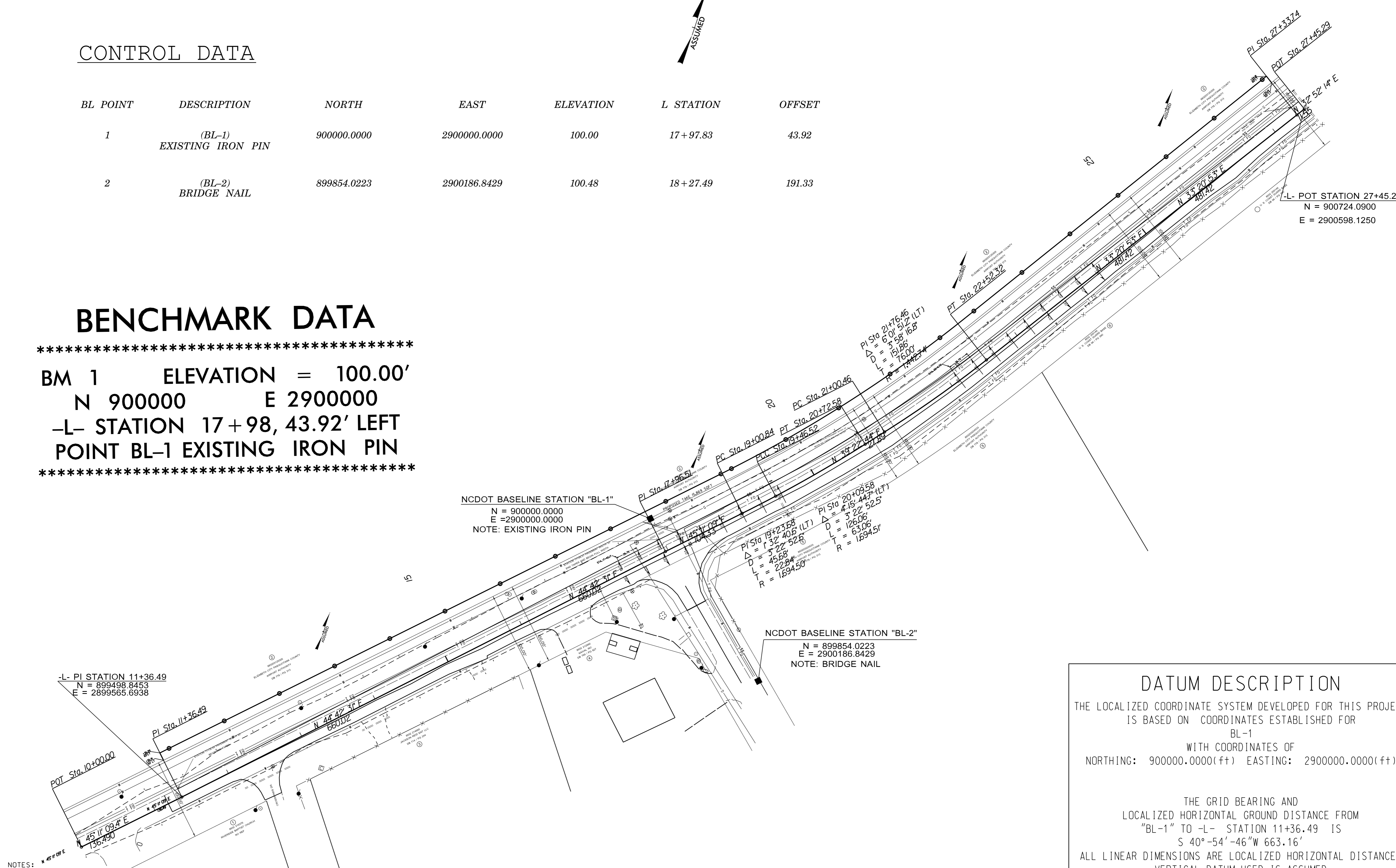
SURVEY CONTROL SHEET

CONTROL DATA

BL POINT	DESCRIPTION	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	(BL-1) EXISTING IRON PIN	900000.0000	2900000.0000	100.00	17+97.83	43.92
2	(BL-2) BRIDGE NAIL	899854.0223	2900186.8429	100.48	18+27.49	191.33

BENCHMARK DATA

 BM 1 ELEVATION = 100.00'
 N 900000 E 2900000
 -L- STATION 17+98, 43.92' LEFT
 POINT BL-1 EXISTING IRON PIN



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON COORDINATES ESTABLISHED FOR BL-1 WITH COORDINATES OF

NORTHING: 900000.0000(±) EASTING: 2900000.0000(±)

THE GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-1" TO -L- STATION 11+36.49 IS

S 40°-54'-46"W 663.16'

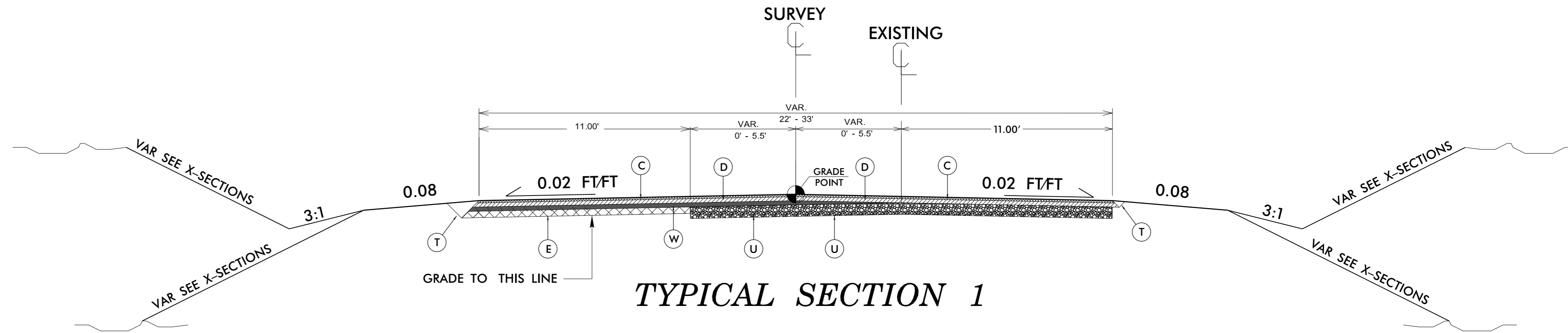
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS ASSUMED

NOTES:
 SITE CALIBRATION PARAMETERS HAVE NOT BEEN DETERMINED FOR THIS PROJECT.
 IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE DIVISION ONE DDC UNIT.

◆ INDICATES CONTROL MONUMENTS SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT DIVISION ONE DDC UNIT.

06-DEC-2013 09:40
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 5/14/99

C	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S 9.5B, AT AN AVERAGE RATE OF 168.0 LBS. PER SQUARE YARD
C1	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S 9.5B TO BE PLACED AT A RATE OF 112 LBS. PER SQ. YD. PER INCH OF DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1.5 INCHES AND NOT GREATER THAN 3 INCHES IN DEPTH.
D	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I 19.0B AT AN AVERAGE RATE OF 285.0 LBS. PER SQUARE YARD
D1	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I 19.0B TO BE PLACED AT A RATE OF 114 LBS. PER SQ. YD. PER INCH OF DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5 INCHES AND NOT GREATER THAN 4 INCHES IN DEPTH.
E	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE TYPE B 25.0B AT AN AVERAGE RATE OF 456.0 LBS. PER SQUARE YARD
E1	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B 25.0B TO BE PLACED AT A RATE OF 114 LBS. PER SQ. YD. PER INCH OF DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3 INCHES AND NOT GREATER THAN 5.5 INCHES IN DEPTH.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)
U	EXISTING PAVEMENT
T	EARTH MATERIAL

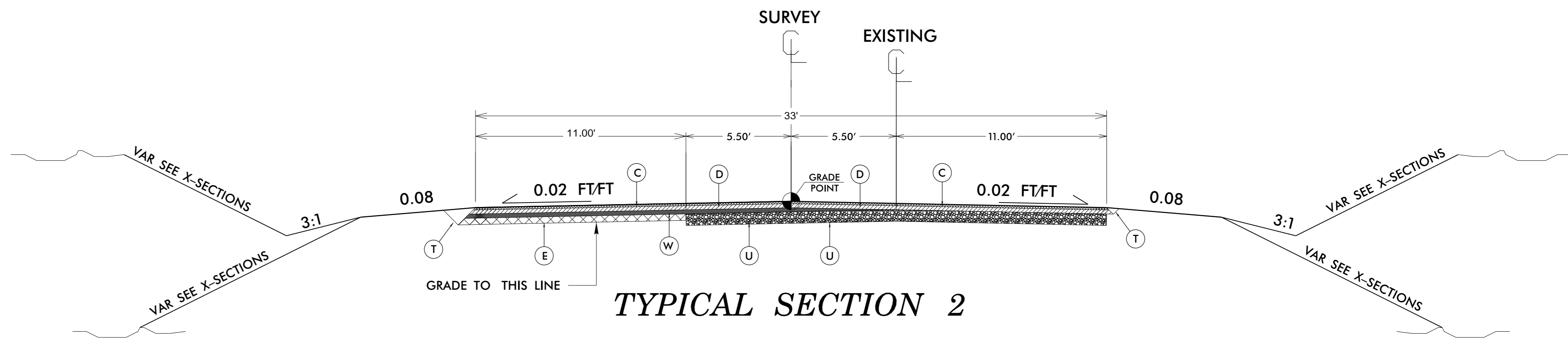


TYPICAL SECTION 1

USE TYPICAL SECTION NUMBER 1

-L1- STA. 11+36.49 to STA. 17+96.51

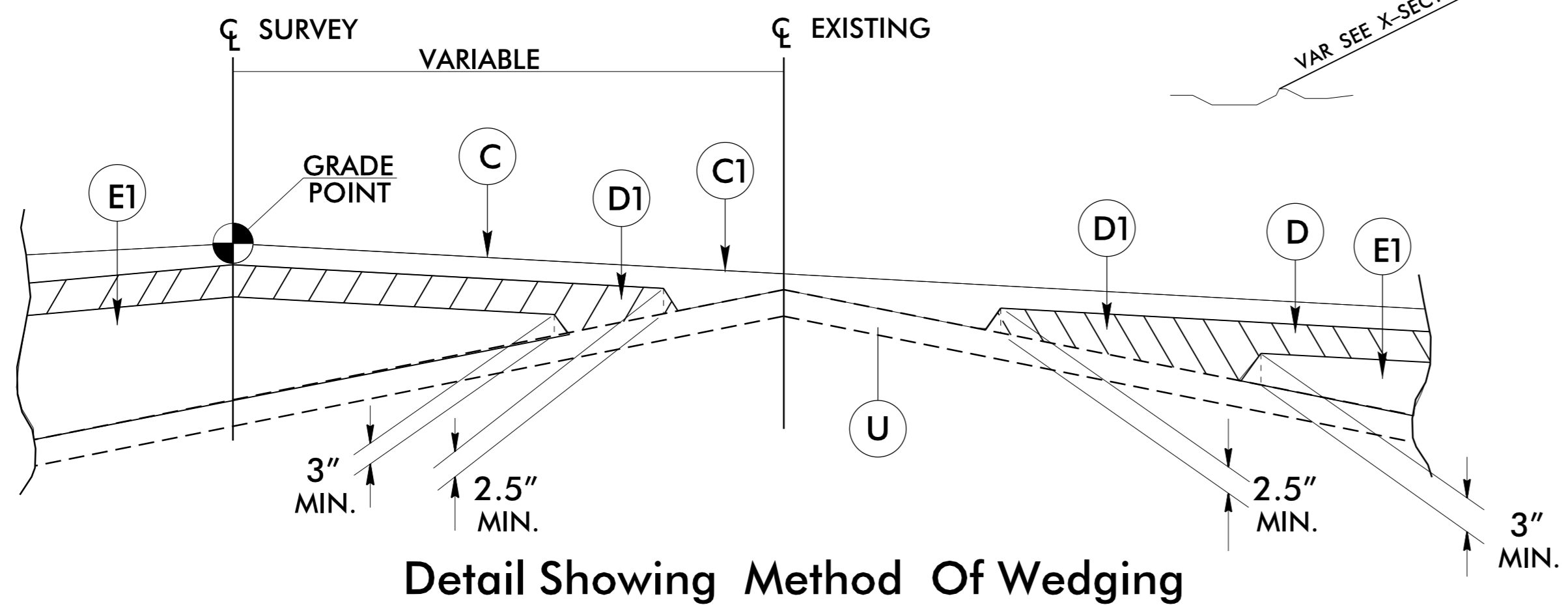
-L1- STA. 20+72.59 to STA. 27+33.72



TYPICAL SECTION 2

USE TYPICAL SECTION NUMBER 2

-L1- STA. 17+96.49 to STA. 20+72.59



Detail Showing Method Of Wedging

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PROJECT NO.	SHEET NO.
45331.3FR2	3

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	0000100000-N	0043000000-N	0318000000-E	0320000000-E	0335300000-E	0343000000-E	0995000000-E	1220000000-E	1330000000-E	1489000000-E	1498000000-E	1525000000-E	1575000000-E
												MOBILIZATION	GRADING	FOUNDATION CONDITIONING MATERIAL, MINOR STRS TON	FOUNDATION CONDITIONING GEOTEXTILE SY	18" DRAINAGE PIPE ^ LF	15" SIDE DRAIN PIPE ^ LF	PIPE REMOVAL LF	INCIDENTAL STONE BASE TONS	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS
454331.3.2	Pasquotank	1	NC 344	LEFT TURN LANE AT SR 1131	2	2		NO	NO	0.307	27.5	1.00	1.00	1.00	12.00	16.00	20.00	20.00	12	183	280	790	460	81.00
TOTAL FOR PROJ NO. 454331.3.2												1.00	1.00	1.00	12.00	16.00	20.00	20.00	12	183	280	790	460	81.00
GRAND TOTAL												1.00	1.00	1.00	12.00	16.00	20.00	20.00	12	183	280	790	460	81.00

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	2253000000-E	4399000000-N	6030000000-E	6071012000-E	6071020000-E	6084000000-E	6090000000-E	6093000000-E	6117000000-N
												PIPE COLLAR	TEMPORARY MULCHING	SILT EXCAVATION	COIR FIBER WATTLE	POLYACRYLAMIDE (PAM)	SEEDING & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	RESPONSE FOR EROSION CONTROL
454331.3.2	Pasquotank	1	NC 344	LEFT TURN LANE AT SR 1131	2	2		NO	NO	0.307	27.5	1.00	1.00	10	108	10	1.0	20	1.00	4
TOTAL FOR PROJ NO. 454331.3.2												1.00	1.00	10	108	10	1.0	20	1.00	4
GRAND TOTAL												1.00	1.00	10	108	10	1.0	20	1.00	4

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	4399000000-N	4685000000-E	4686000000-E	4810000000-E	4900000000-N
												TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES(4" X 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES(4" X 120 MILS)	PAINT PAVEMENT MARKING LINES (4")	PERMANENT RAISED PAVEMENT MARKERS
454331.3.2	Pasquotank	1	NC 344	LEFT TURN LANE AT SR 1131	2	2		NO	NO	0.307	27.5	1.00	3,250	6,050	6,050	85
TOTAL FOR PROJ NO. 454331.3.2												1	3,250	6,050	6,050	85
GRAND TOTAL												1	3,250	6,050	6,050	85

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. + %	BORROW	WASTE
-L- 10 + 00.00	-L- 27 + 45.27	418	1073	655	
SUBTOTALS:		418	1073	655	
GRAND TOTALS:		418	1073	655	
SAY:		420	1080	660	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PARCEL INDEX SHEET

PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	R / W TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	TEMPORARY CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT	PERMANENT UTILITY EASEMENT
1	RIVERSIDE BAPTIST CHURCH	2.99 Ac	0 Sf	2.99 Ac					
2	ELIZ. CITY PASQ. COUNTY AIRPORT AUTH.	33.74 Ac	15,869 Sf		33.38 Ac				
3	JACKSON REID ENT. LLC	1.79 Ac	0 Sf	1.79 Ac					
4	KAIVAL INC.	1.33 Ac	0 Sf	1.33 Ac					
5	ELIZ. CITY PASQ. COUNTY AIRPORT AUTH.	10.49 Ac	0 Sf	10.49 Ac					
6	U.S. COAST GUARD BASE	769.11 Ac	0 Sf	769.11 Ac					

10/26/98
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUB-REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

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

Table with columns for Station, Structure No., Invert Elevation, Pipe Size, Pipe Material (C.S., R.C.), Endwalls, Frame and Grates, and Remarks. Includes a grid for pipe specifications and an abbreviations key.

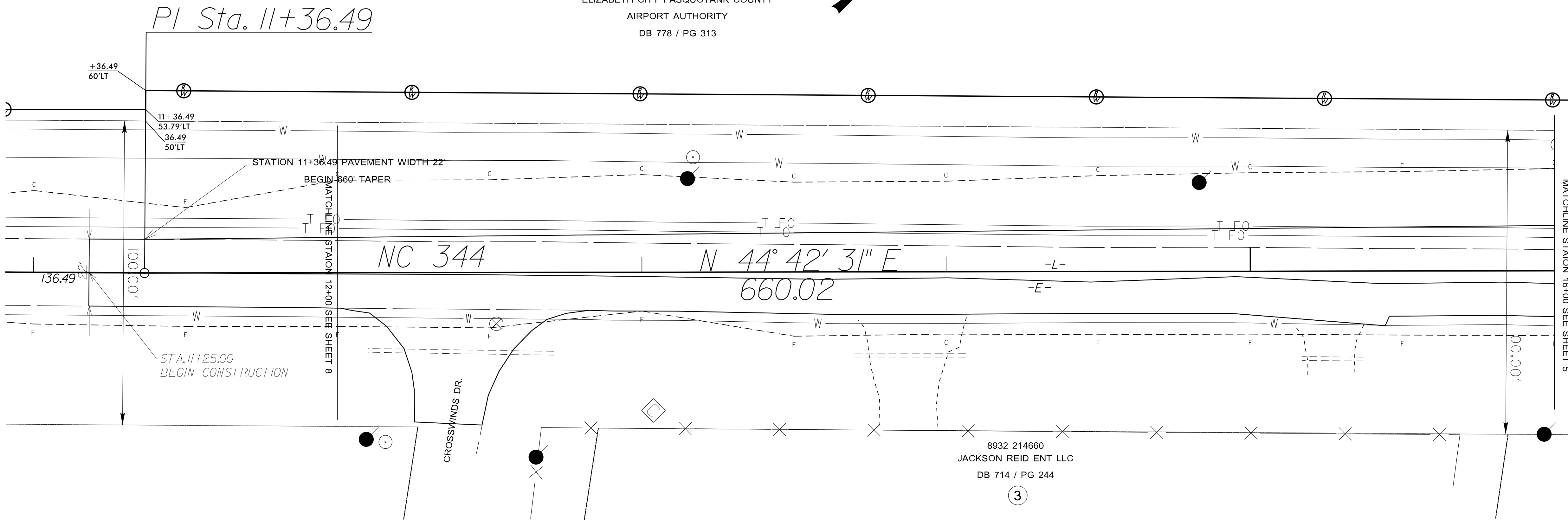
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8/17/99

②
983203125305
ELIZABETH CITY PASQUOTANK COUNTY
AIRPORT AUTHORITY
DB 778 / PG 313



15

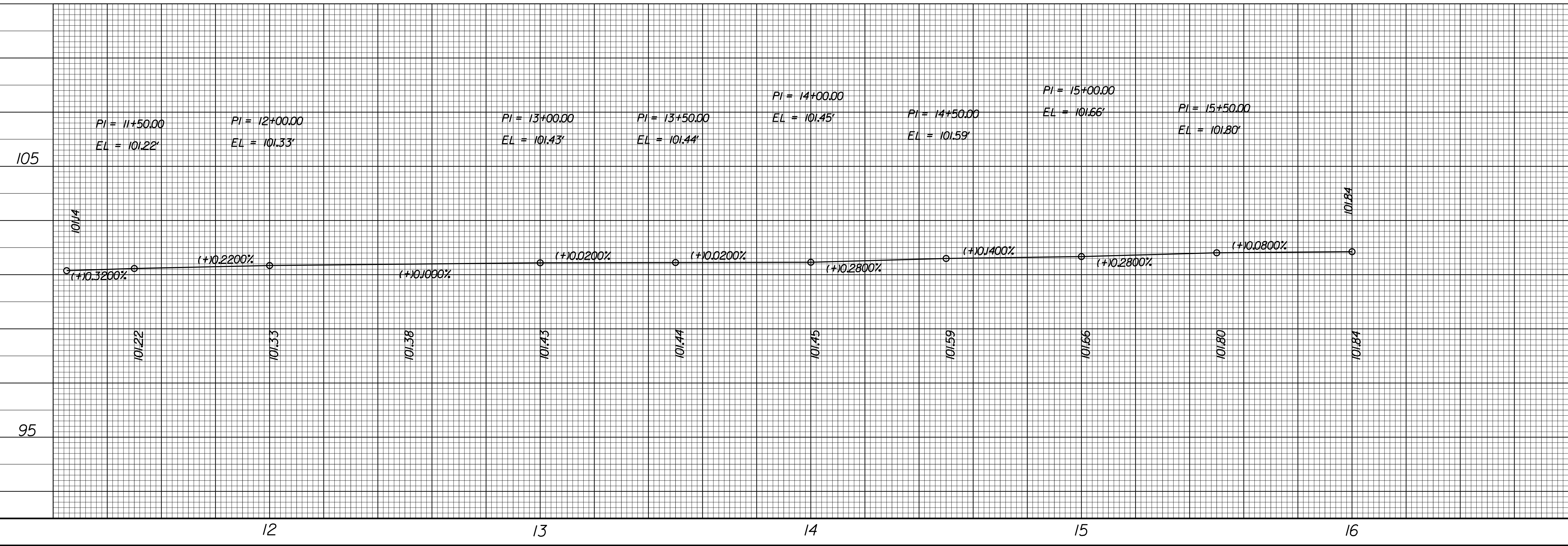


8932 214660
JACKSON REID ENT LLC
DB 714 / PG 244
③

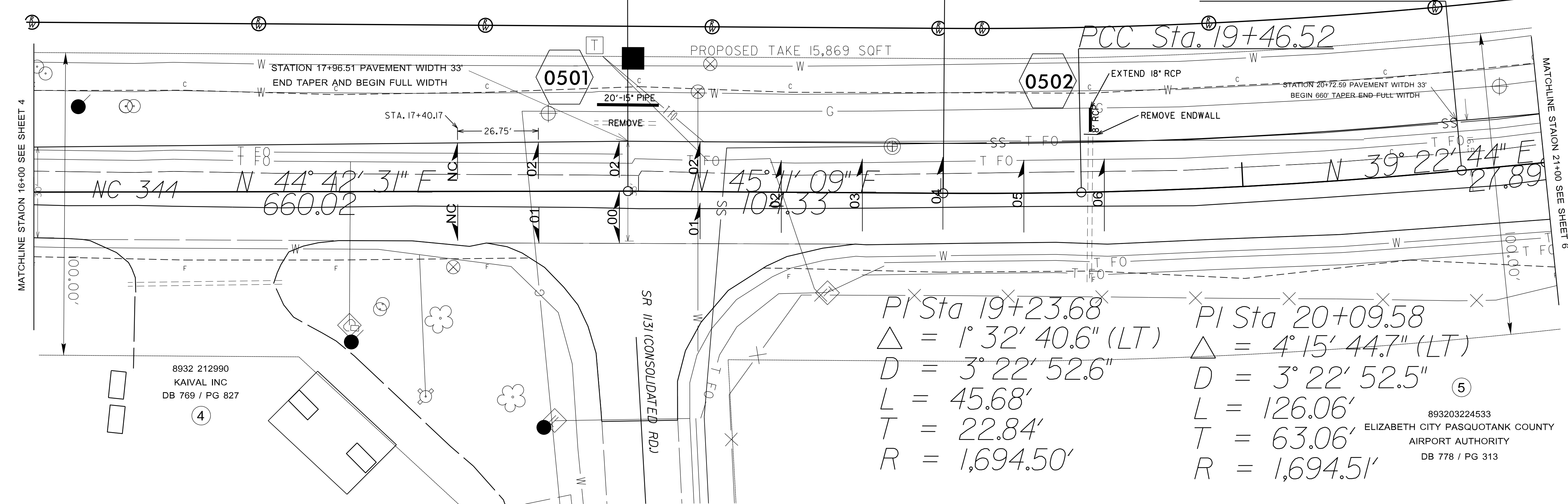
REVISIONS

REVISED LOCATION OF POWER POLE AT STA. 13+15LT 12-05-13

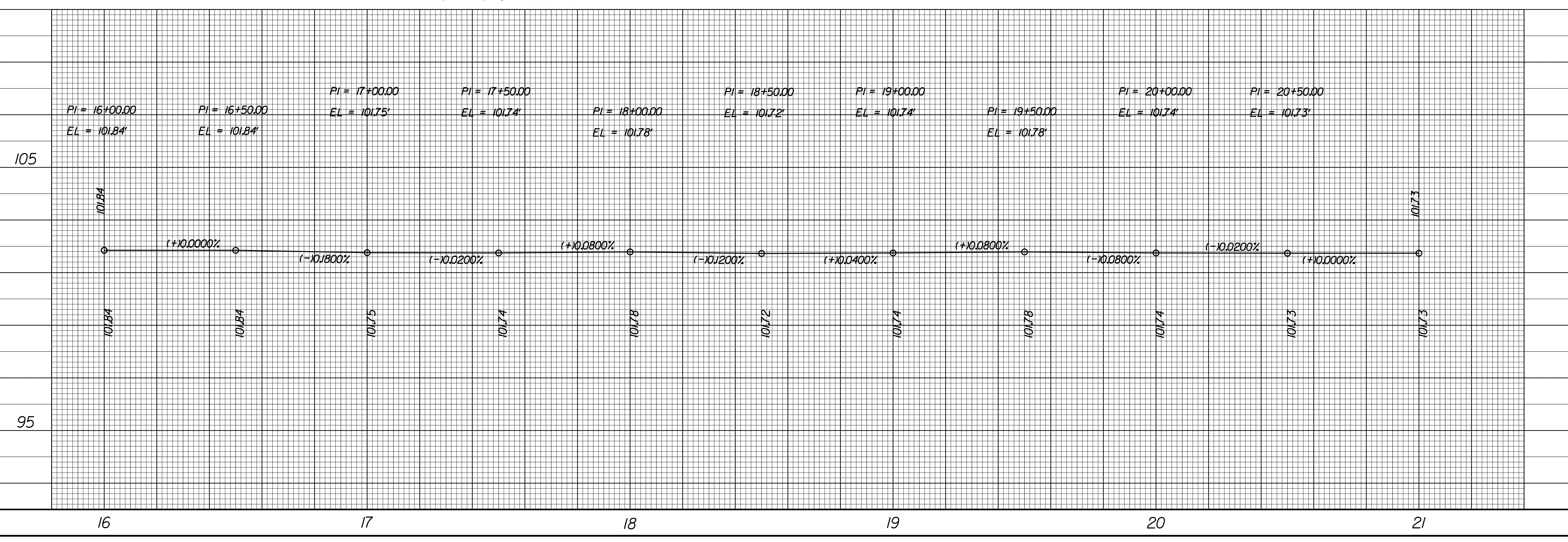
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 AIRPORT AUTHORITY
 DB 778 / PG 313



REVISIONS



8/17/99

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105

95

16

17

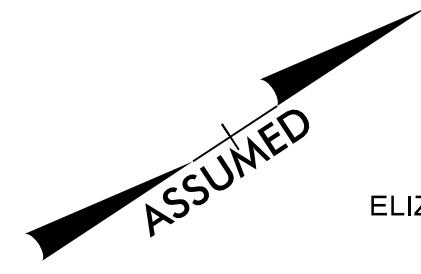
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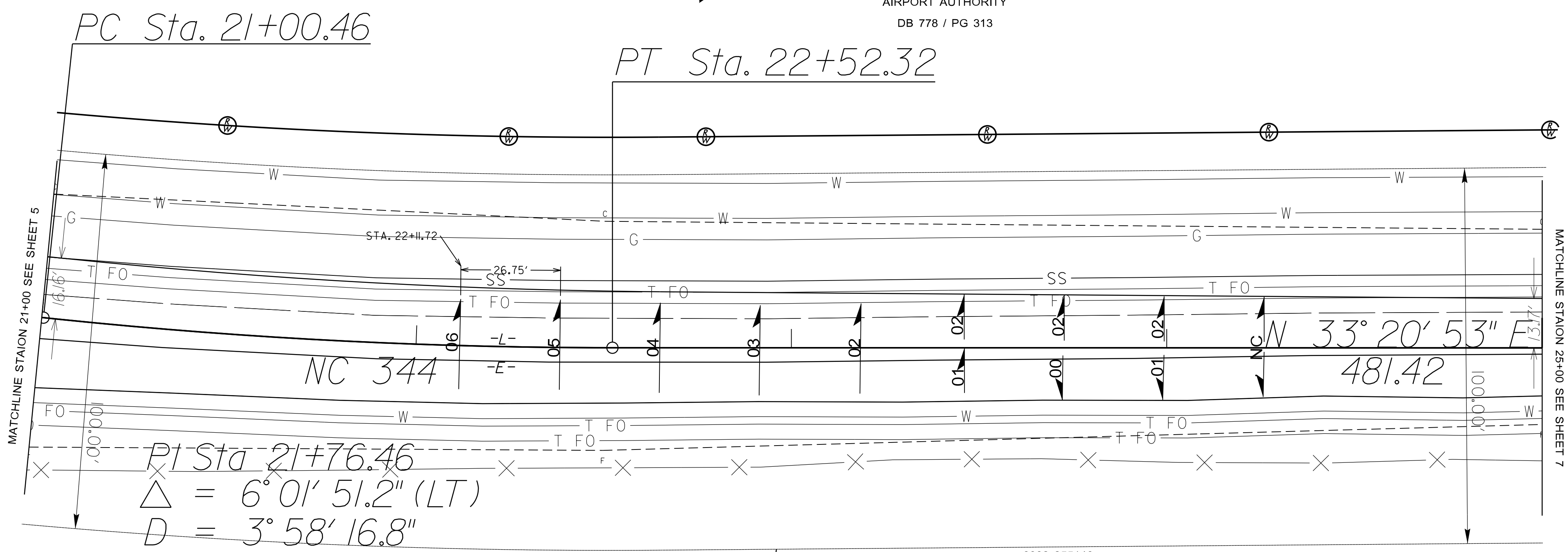
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②
983203125305
ELIZABETH CITY PASQUOTANK COUNTY
AIRPORT AUTHORITY
DB 778 / PG 313

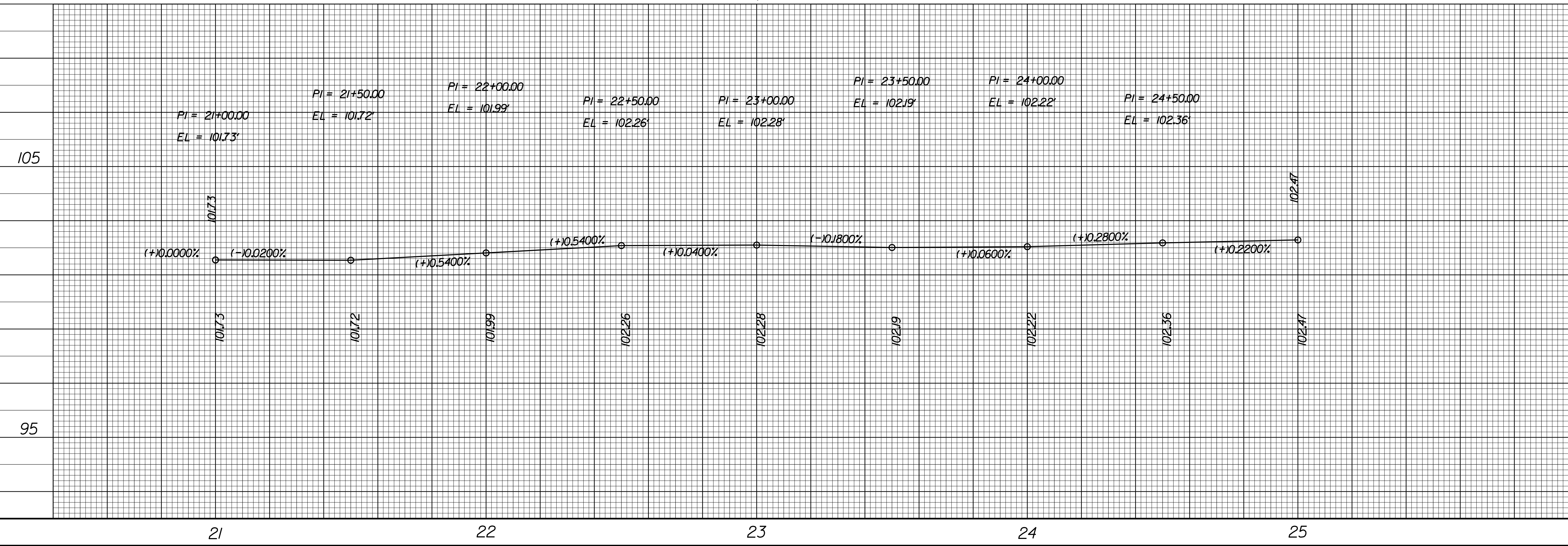


PI Sta. 21+76.46
 $\Delta = 6^{\circ} 01' 51.2''$ (LT)
 $D = 3^{\circ} 58' 16.8''$
 $L = 151.86'$
 $T = 76.00'$
 $R = 1,442.74'$

893203224533
ELIZABETH CITY PASQUOTANK COUNTY
AIRPORT AUTHORITY
DB 778 / PG 313
⑤

8932 255146
U. S. COAST GUARD BASE
DB 96 / PG 390
⑥

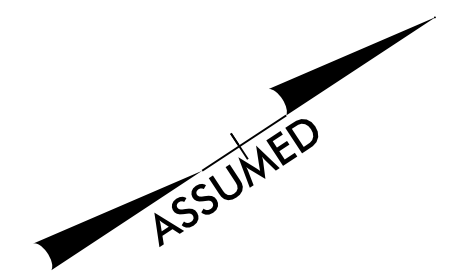
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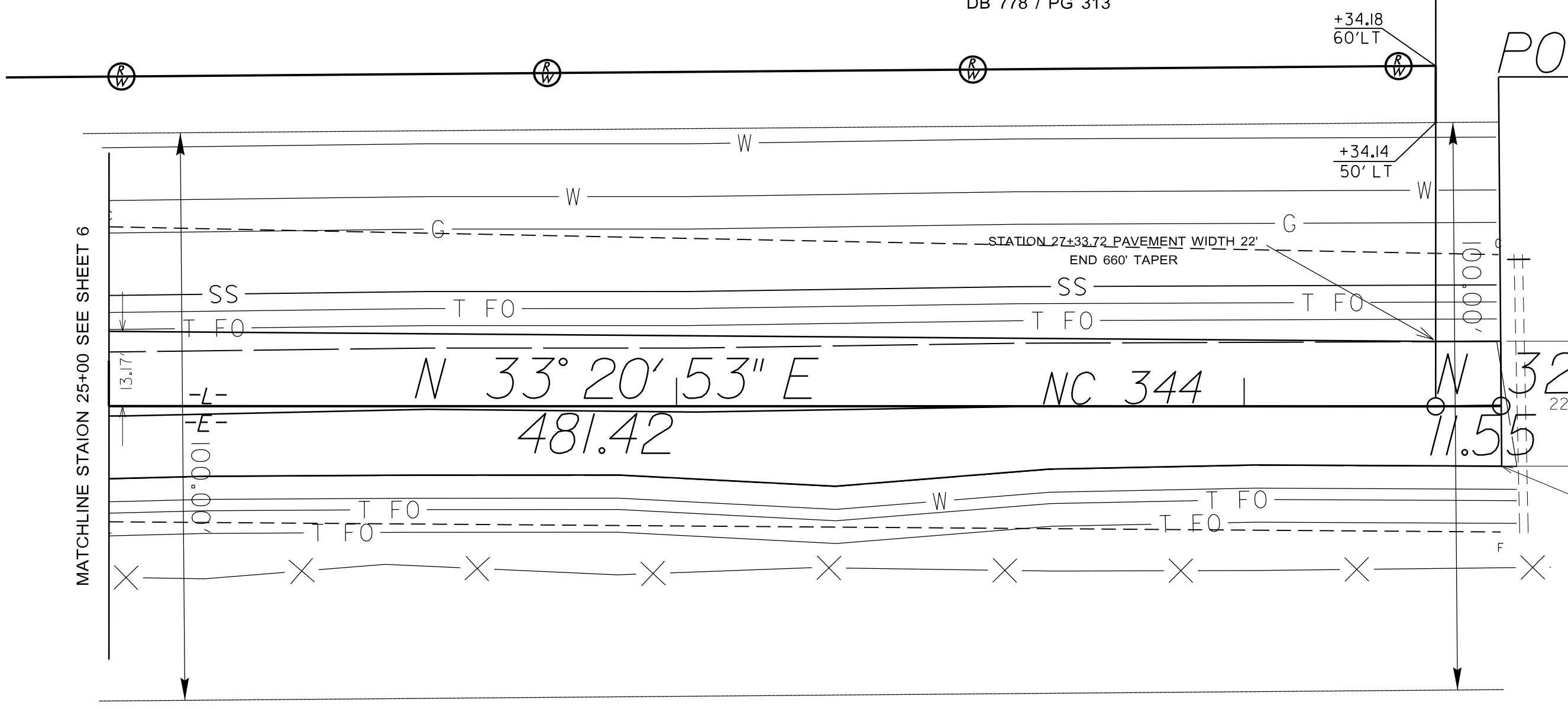


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AIRPORT AUTHORITY
DB 778 / PG 313

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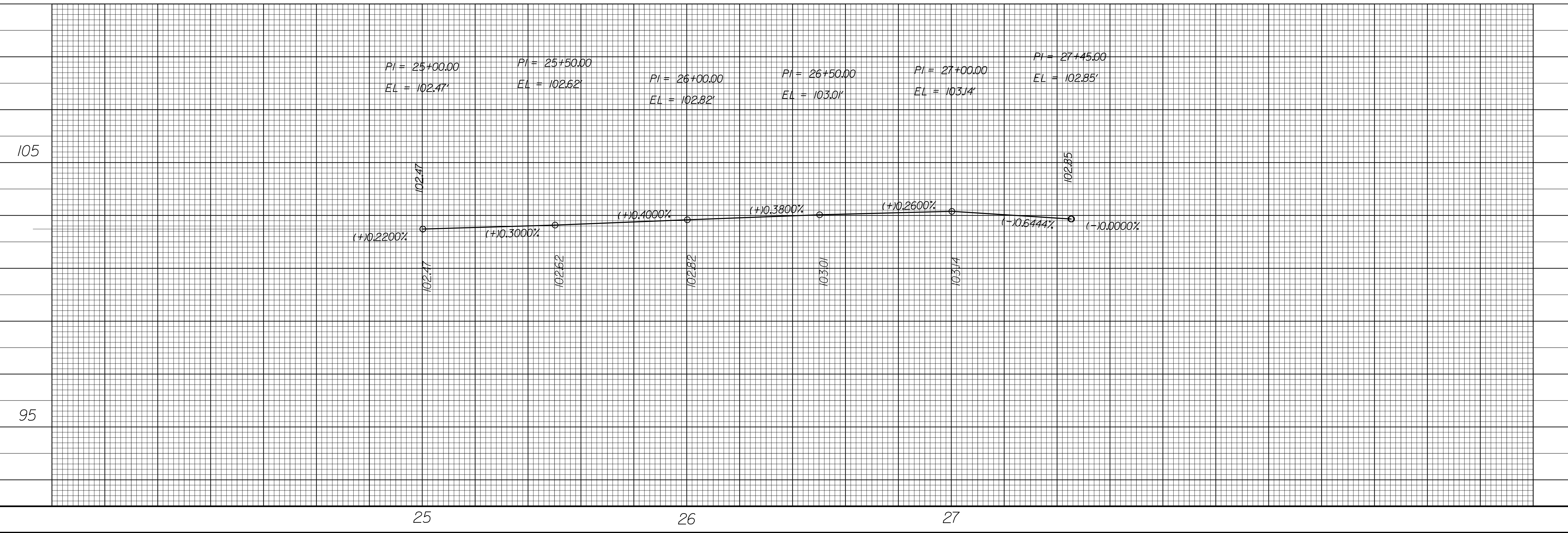
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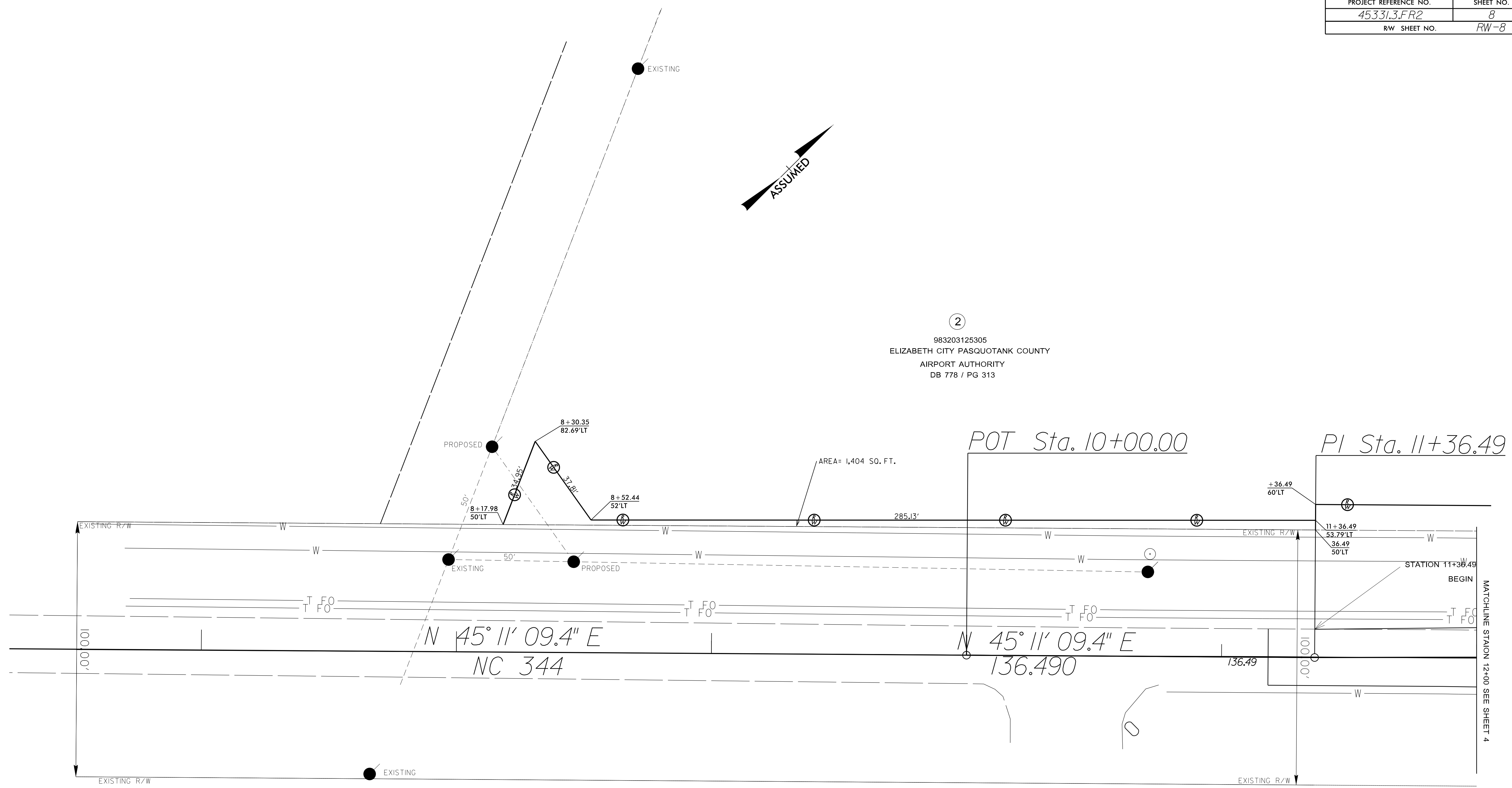
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 AIRPORT AUTHORITY
 DB 778 / PG 313



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TIP PROJECT: W5210B

CONTRACT# DA00XXX

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

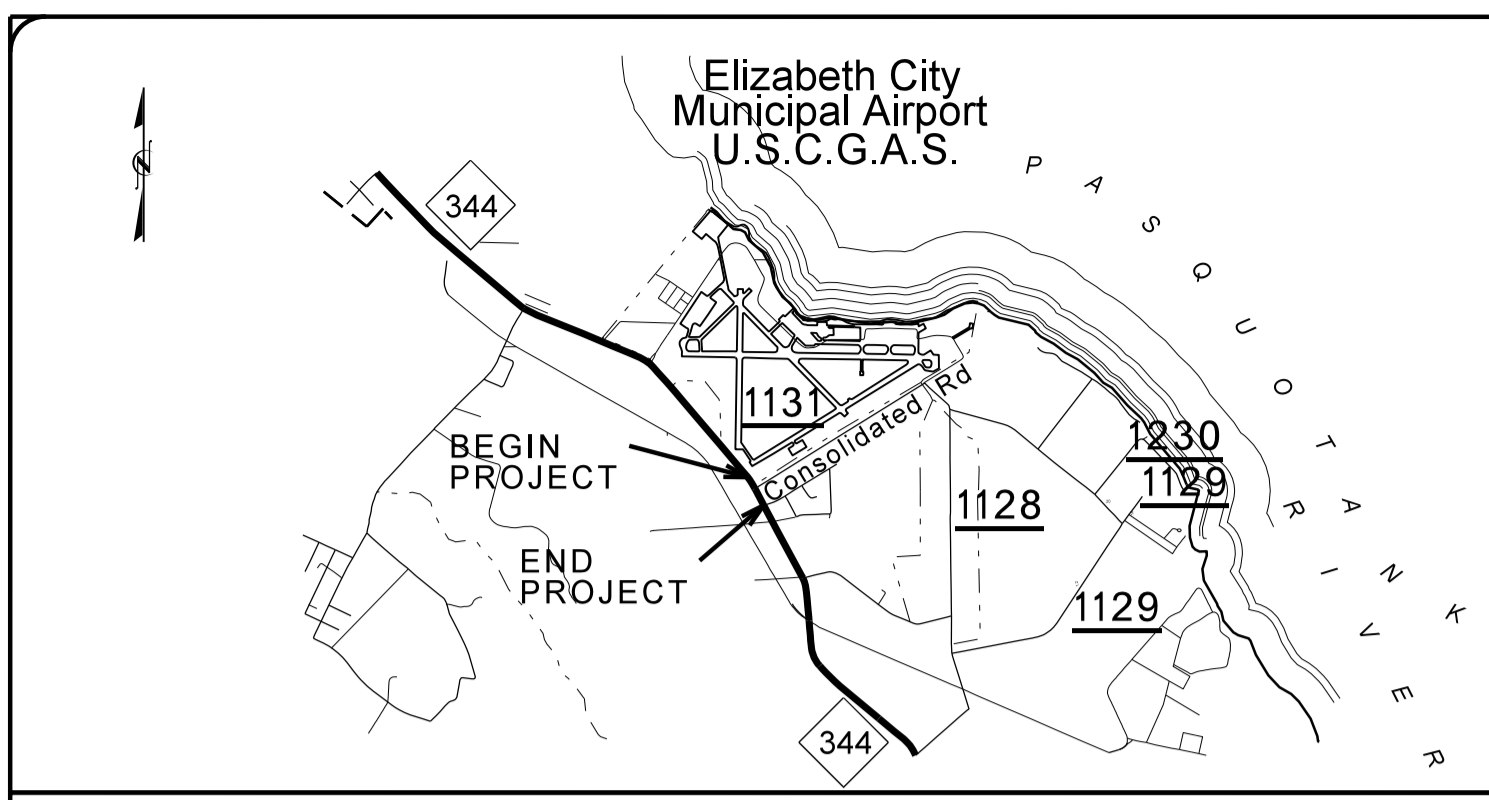
PASQUOTANK COUNTY

LOCATION: NC 344 & CONSOLIDATED RD.(SR 1131)

TYPE OF WORK: DRAINAGE, GRADING, BASE, PAVING, RESURFACING
FOR LEFT TURN LANE

Pipe Installation Schedule

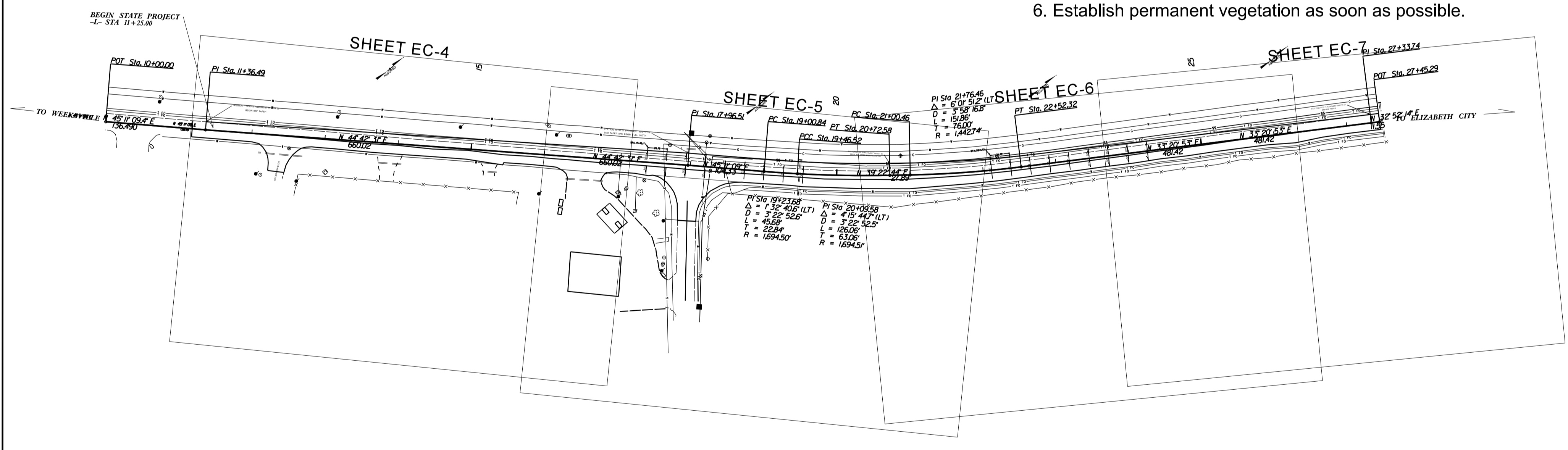
1. Install erosion control devices per plans.
2. Remove material and existing pipe while limiting, as much as possible material and sediment from entering the stream and/or escaping from the
3. Prepare pipe foundation while taking care to limit material and sediment from entering the stream and/or escaping from the project. Bury the pipe in accordance with the permit. If needed, bedding material will be clean stone (especially in Trout and HQW waters).
4. Place new pipe and compact fill.
5. Install slope protection on outlet and inlet ends of pipe according to the permit drawing. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.
6. Establish permanent vegetation as soon as possible.



VICINITY MAP

Erosion Control Schedule

- 1) Install erosion control measures according to plans at all outlets and at other discharge points after clearing but before grubbing.
- 2) Begin grading of roadway ditches. Place erosion control measures along roadway ditches as grading progresses and conditions allow.
- 3) Seed and mulch all disturbed areas as soon as any phase of grading is completed. Exposed areas can not lay idle for more than 21 calendar days without being provided adequate groundcover..
- 4) Clean out and/or rework all temporary erosion control measures after any significant rainfall event (or as otherwise needed). These measures should be maintained until a permanent vegetative cover is established.



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45331.3.FR2	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45331.3.FR2	HRRR-1131(12)	CONST.	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	— T —
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	— W —
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	— W —
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	U
1635.02	Rock Pipe Inlet Sediment Trap Type-B	U
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 CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

GRAPHIC SCALE

NTS

**LEVEL III-A:
DESIGNER OF
EROSION AND
SEDIMENT CONTROL
PLANS**

W. G. COOKE

**CERTIFICATION
NUMBER: 259**

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.

Prepared In the Office of:
DIVISION ONE DDC UNIT
113 Airport Dr., Suite 100
Edenton, NC 27932
2012 STANDARD SPECIFICATIONS

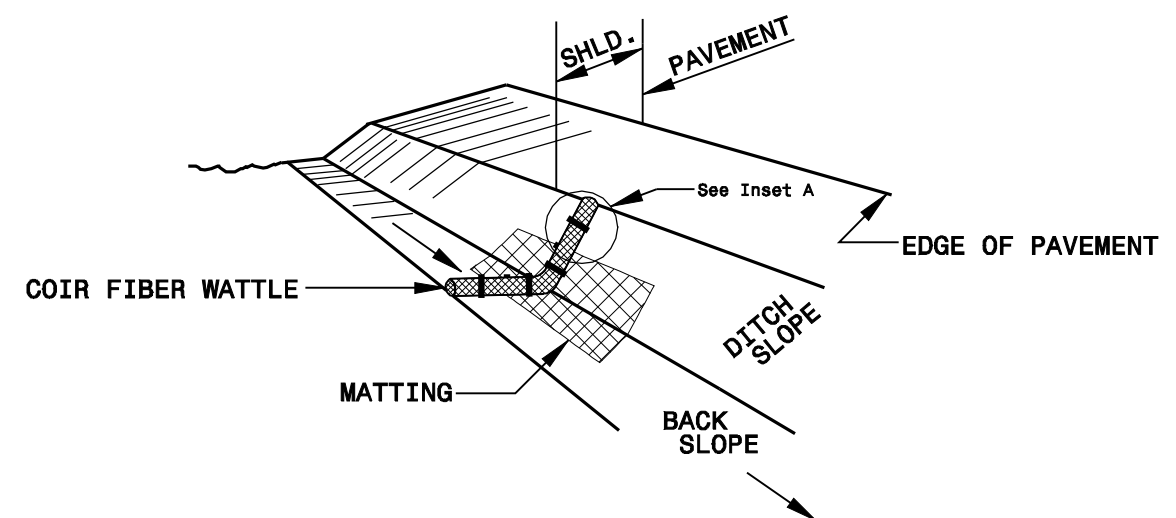
Roadway Standard Drawings

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 revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

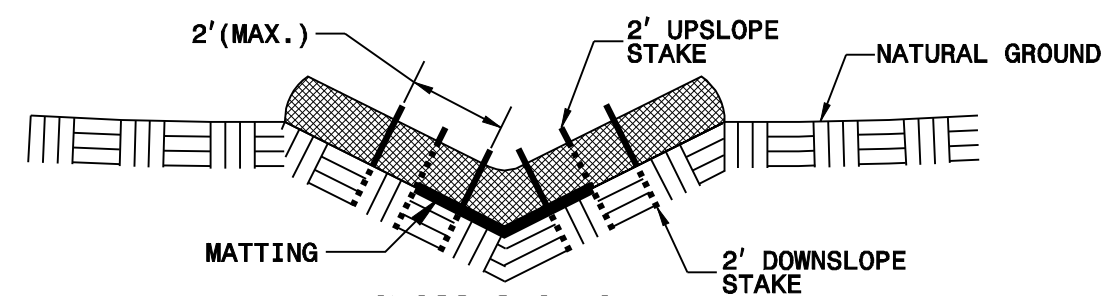
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type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

PROJECT REFERENCE NO. X-XXXX		SHEET NO. EC-26	
RDW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

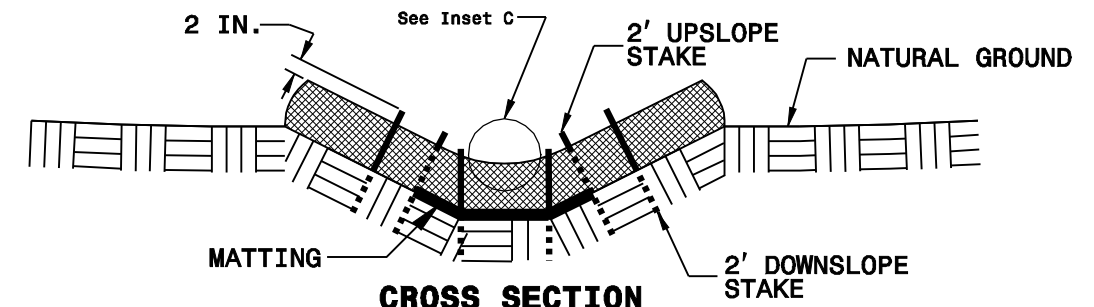
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW

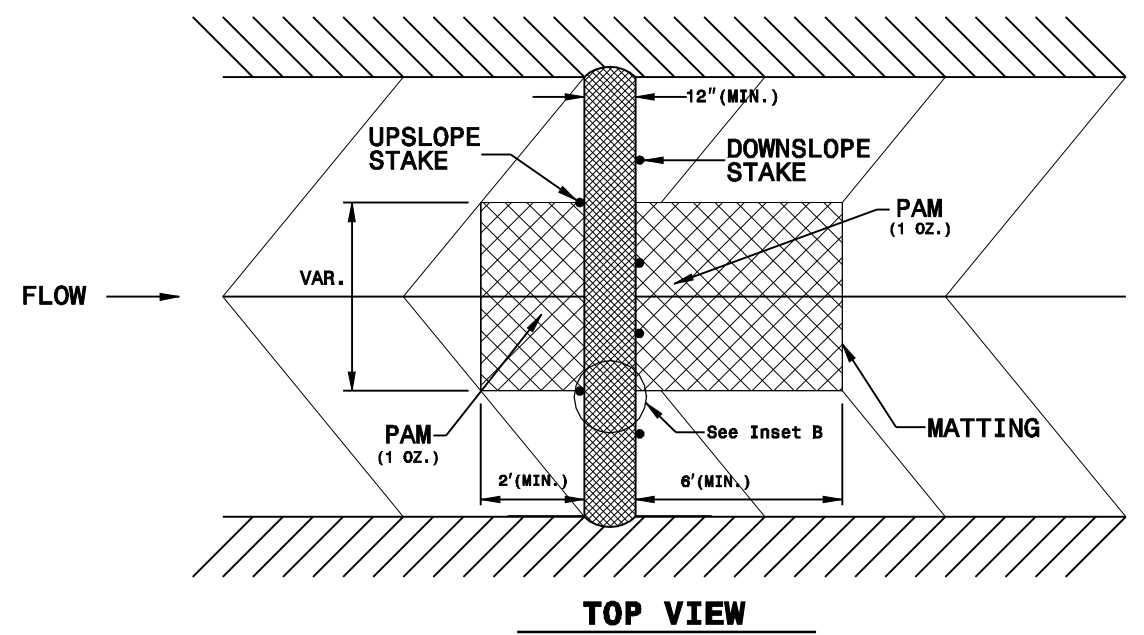
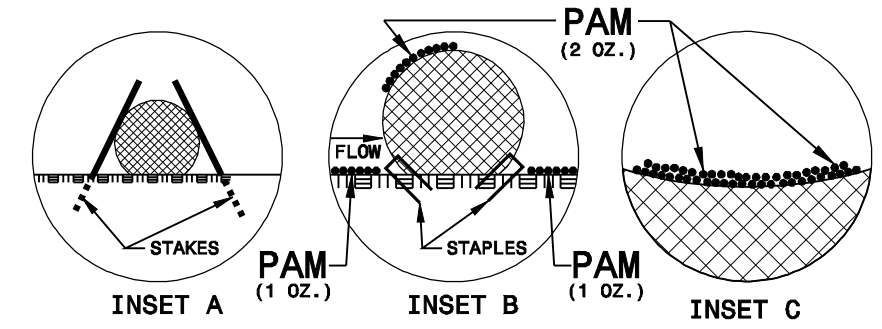


CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

- NOTES:
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TOP VIEW

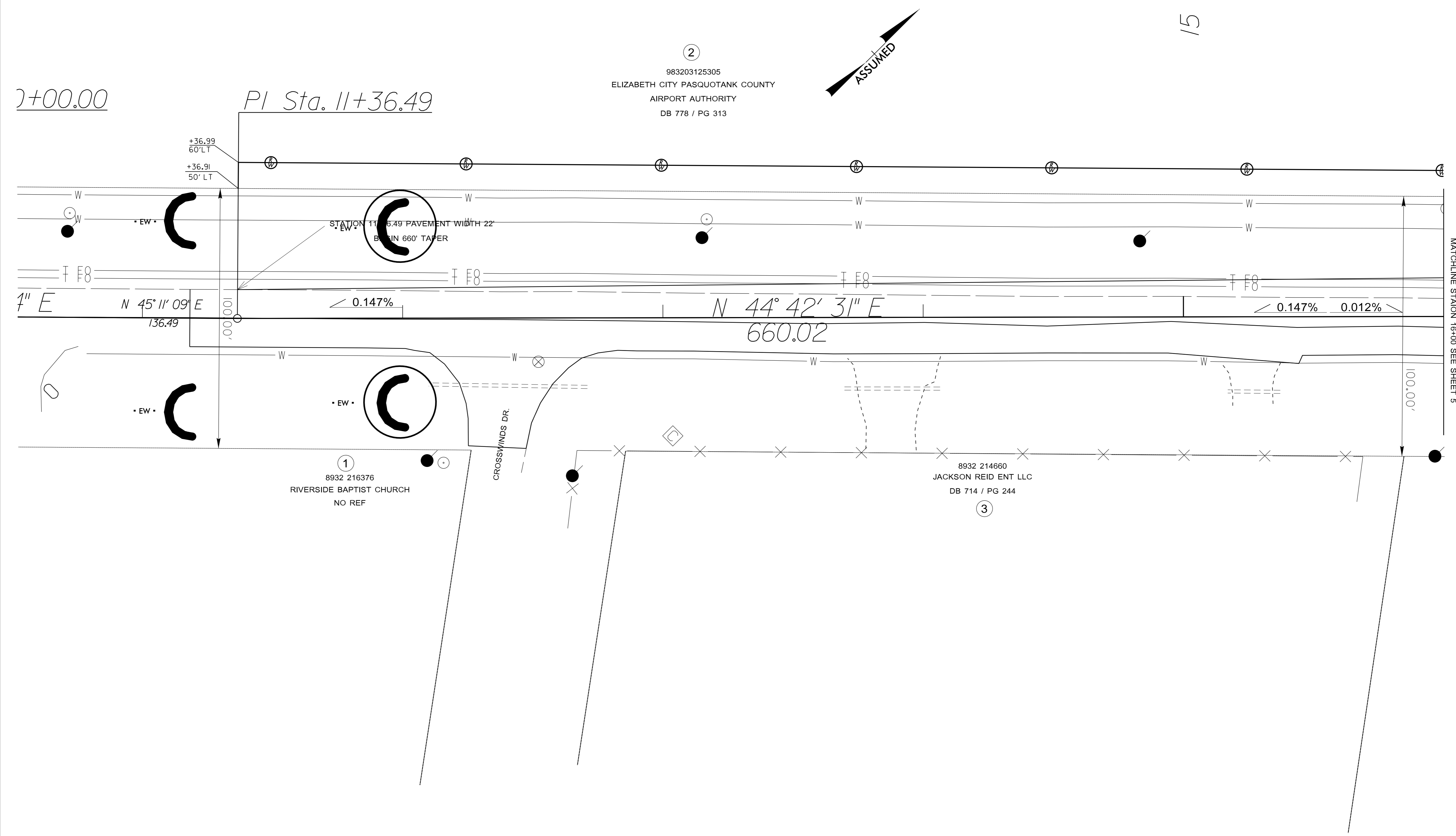
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
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.

EROSION CONTROL PLAN

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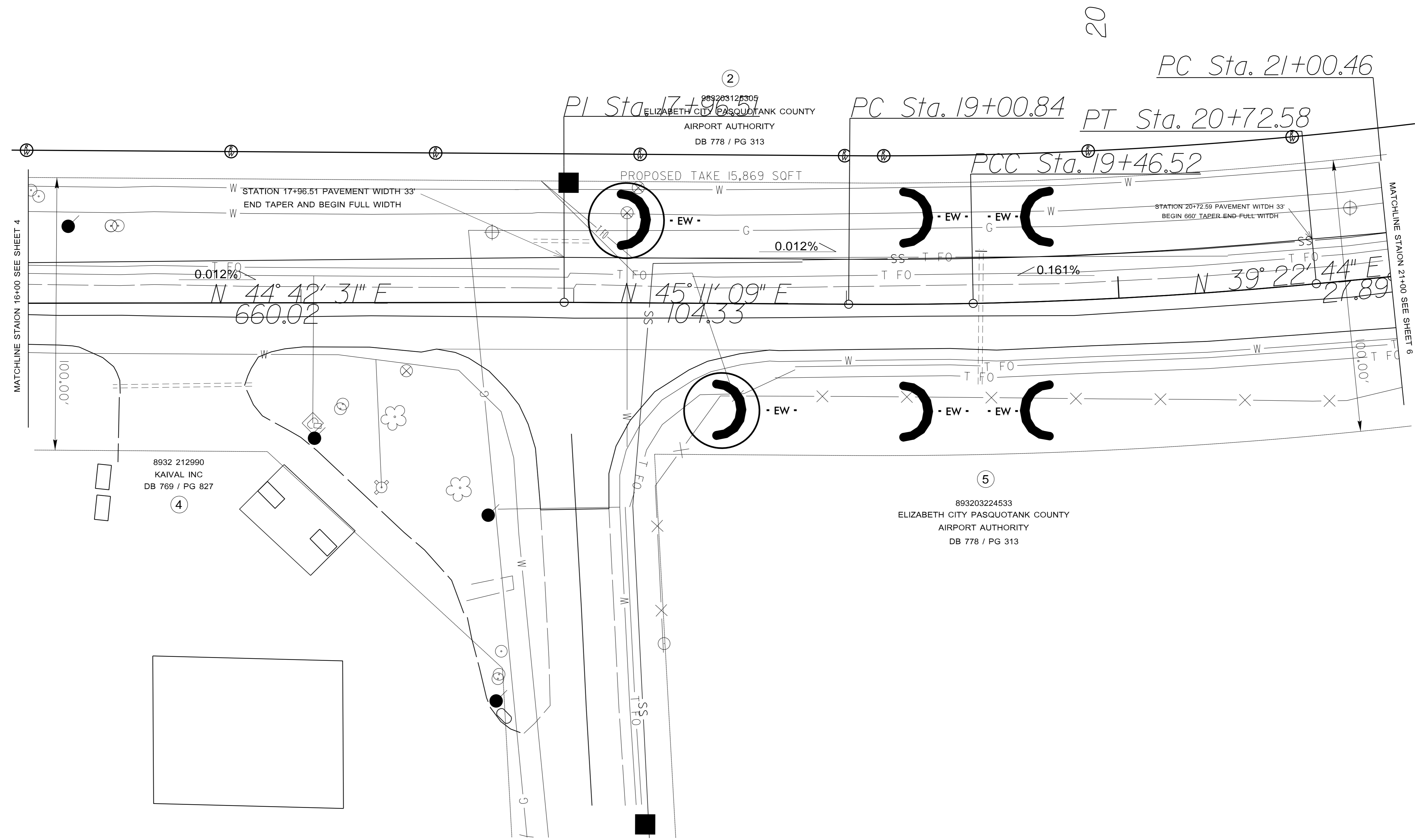


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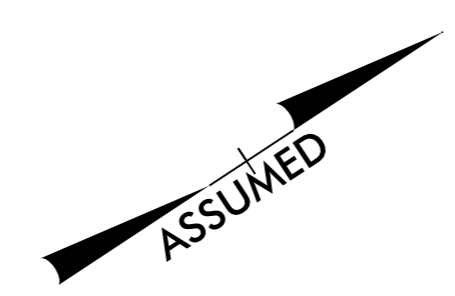


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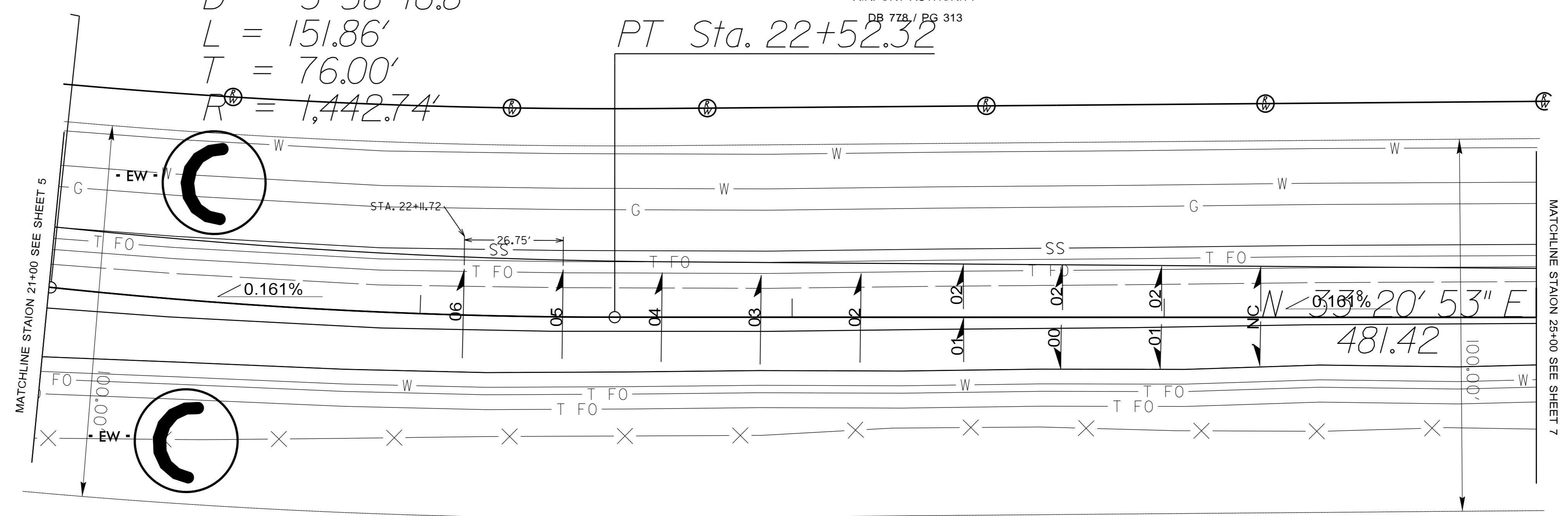


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 983203125305
 ELIZABETH CITY PASQUOTANK COUNTY
 AIRPORT AUTHORITY
 DB 778 / PG 313

PT Sta. 22+52.32



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 U. S. COAST GUARD BASE ⑥
 DB 96 / PG 390

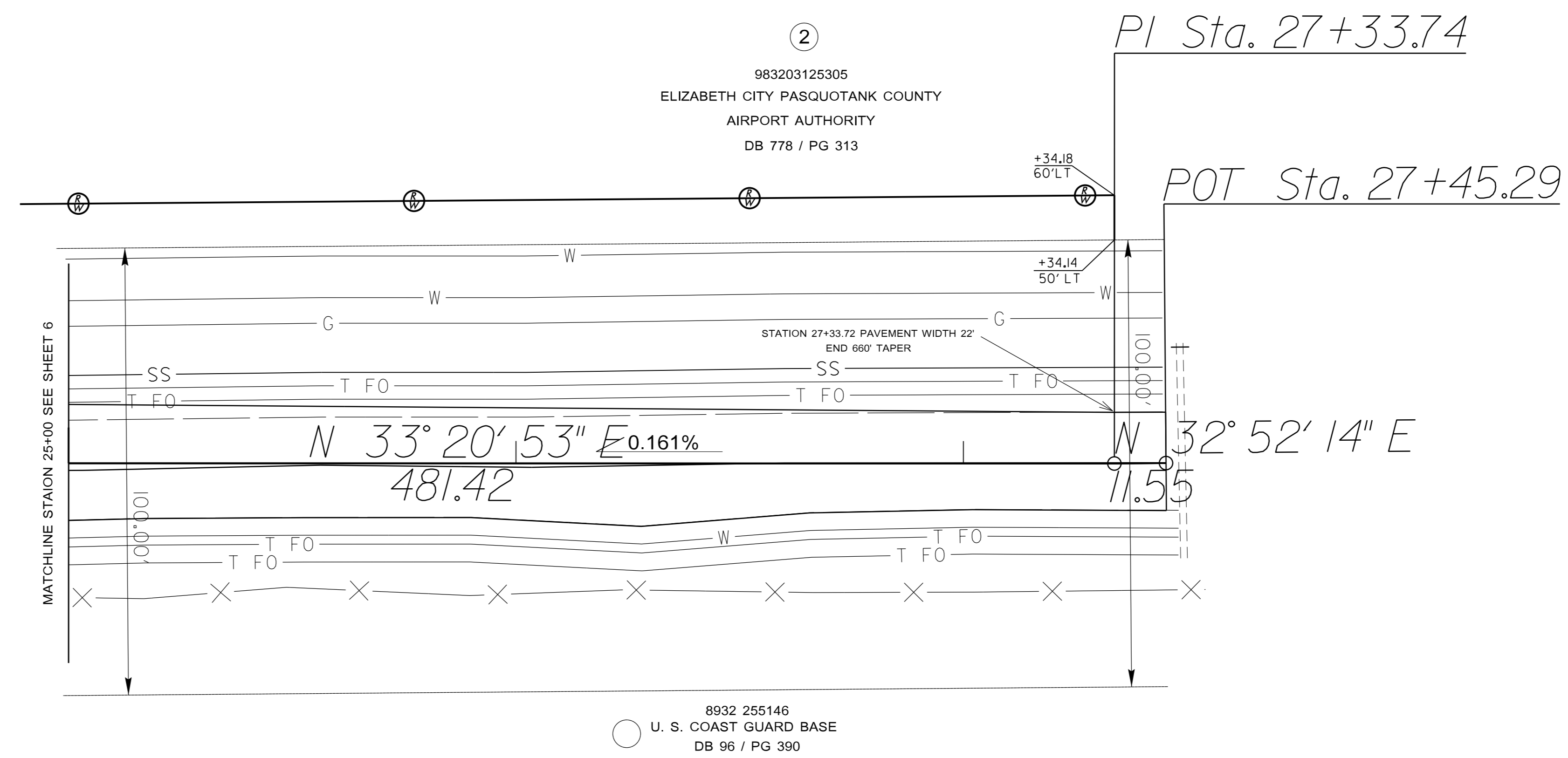
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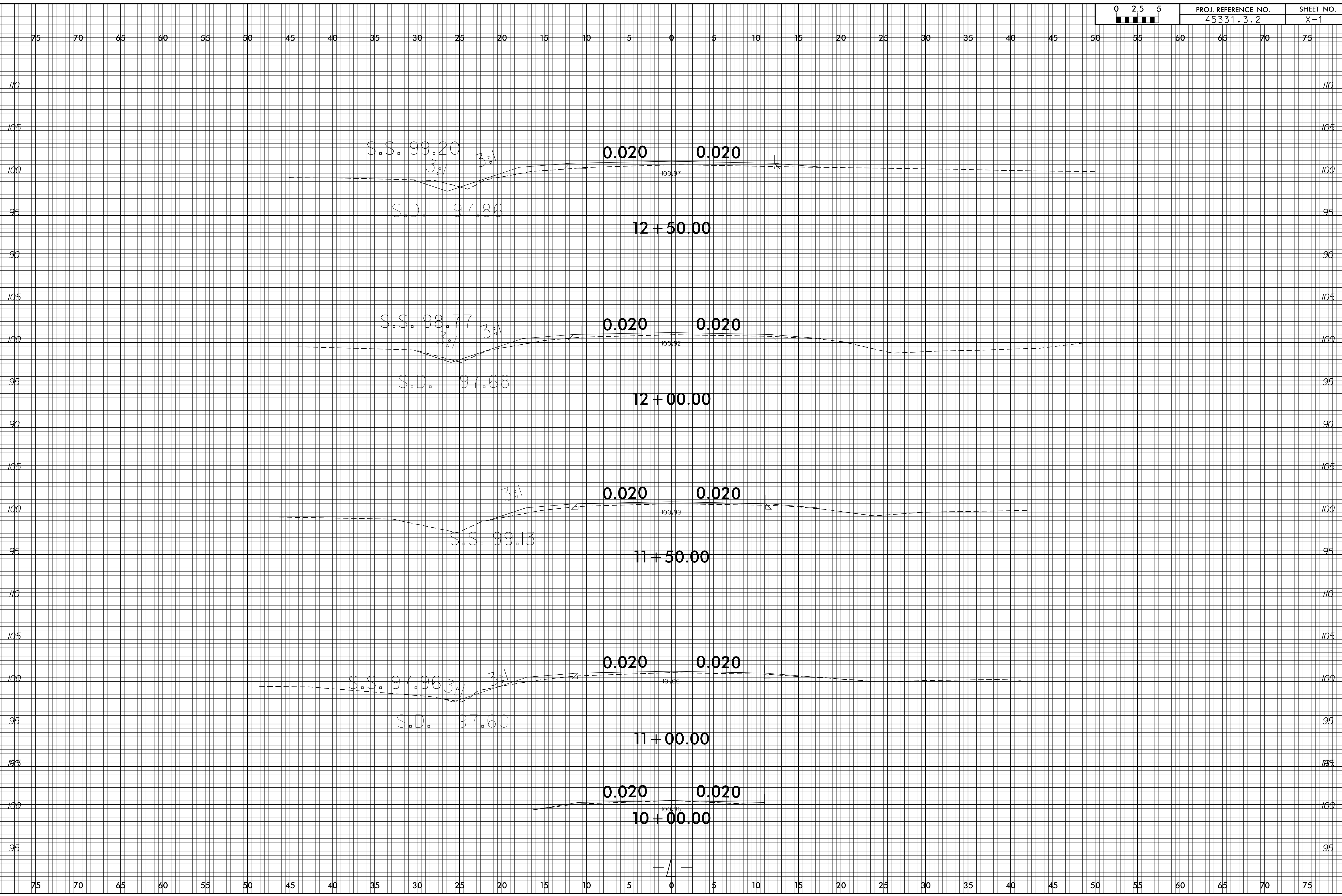


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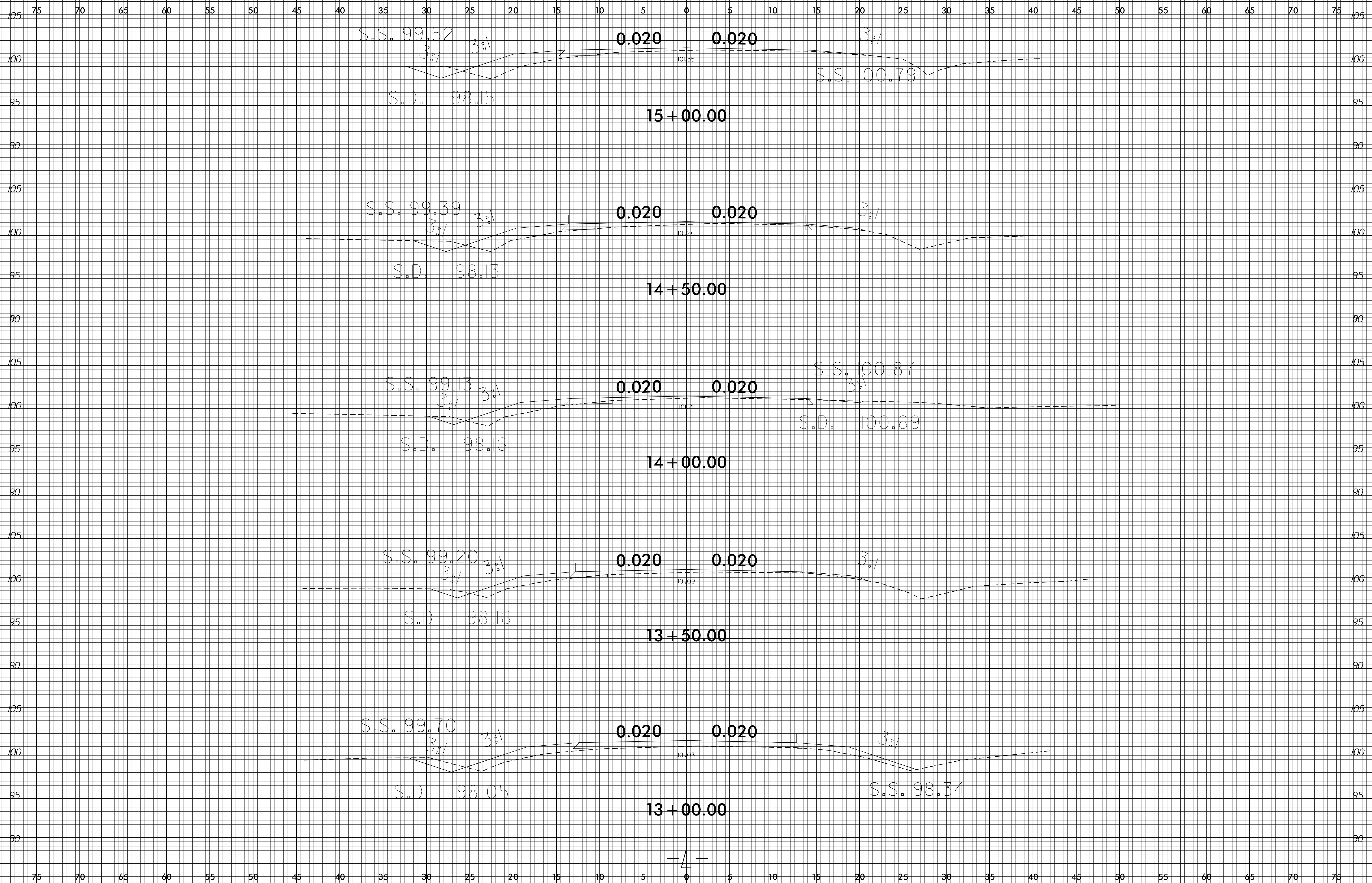
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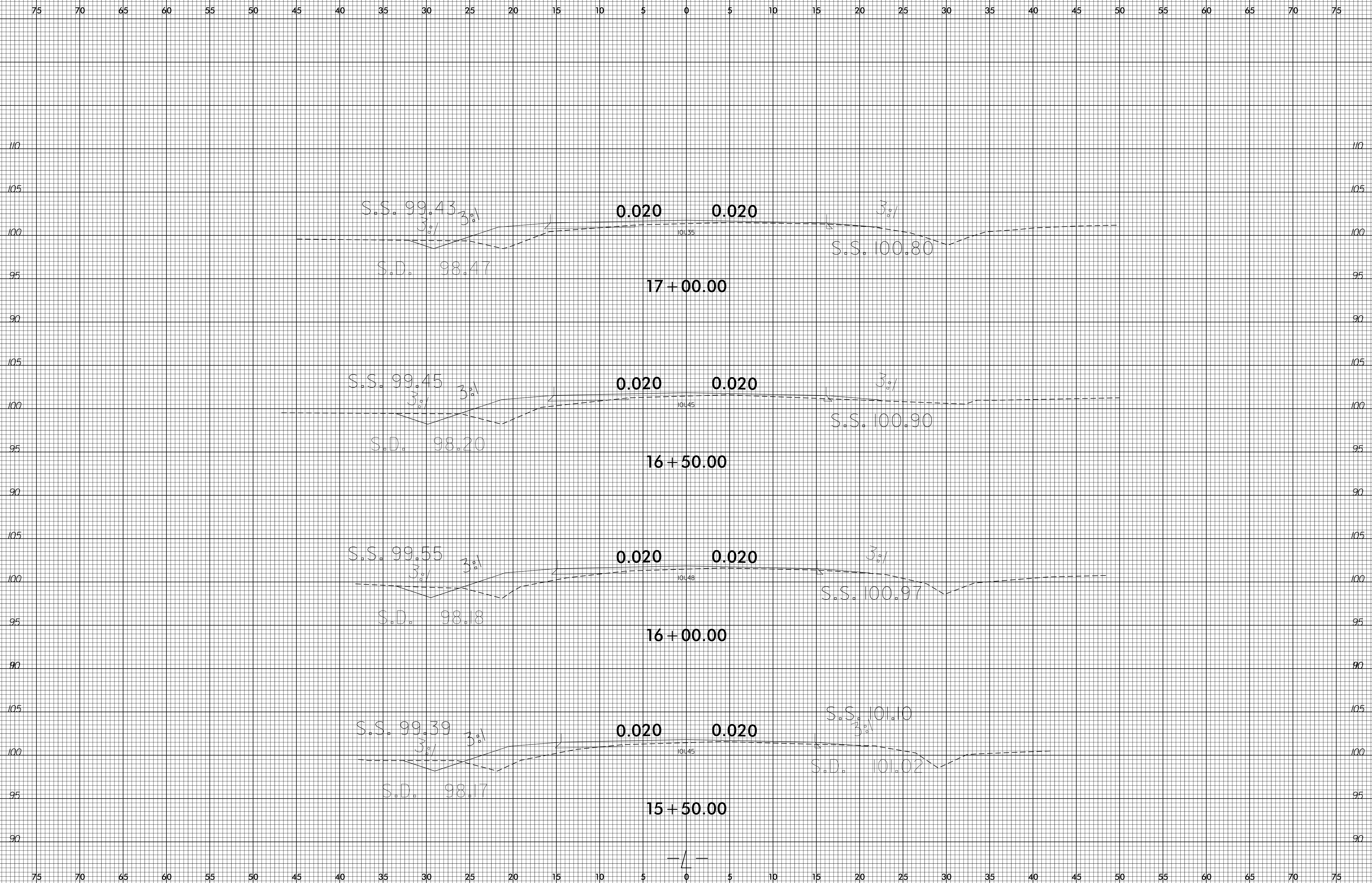
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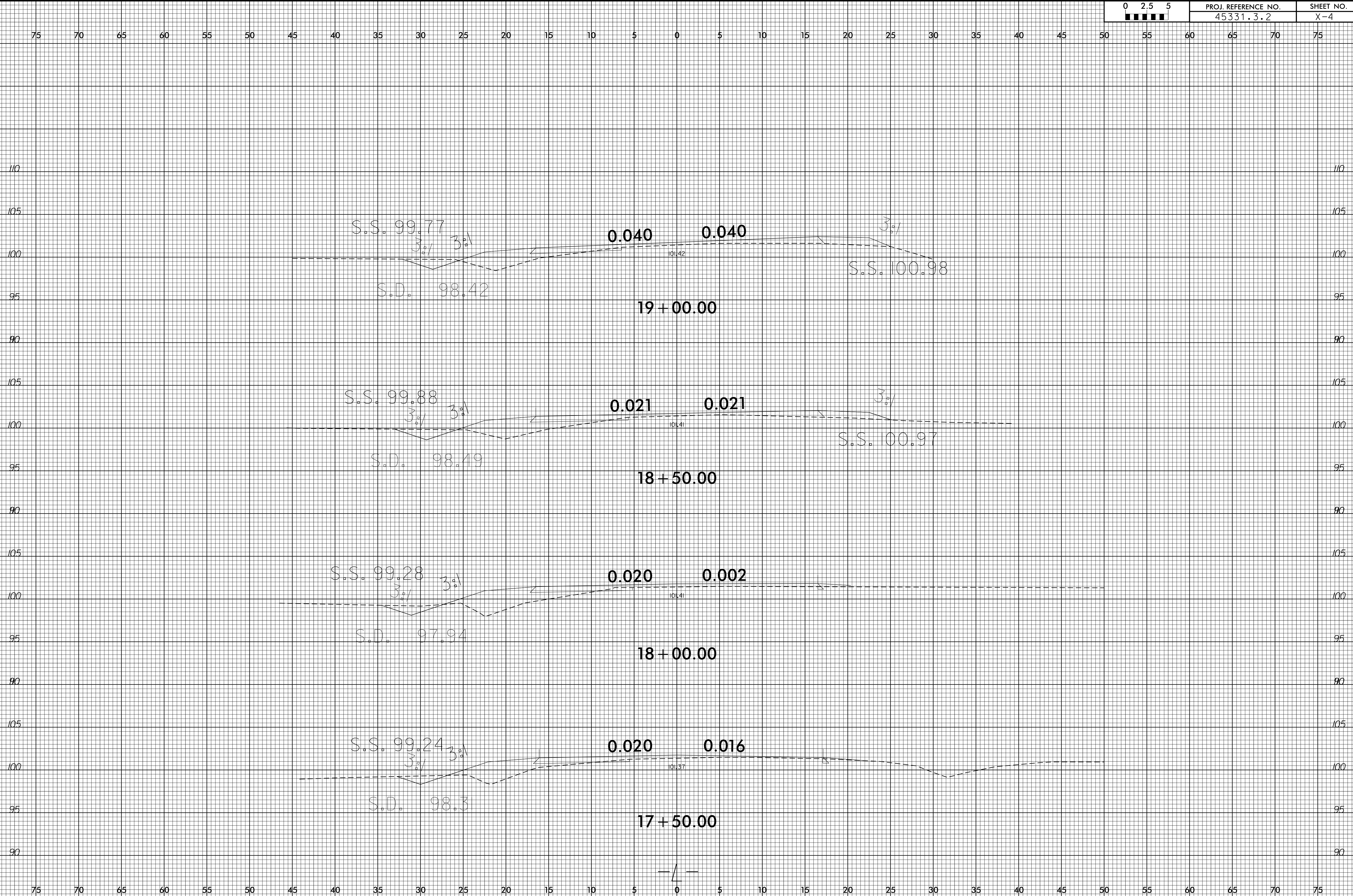


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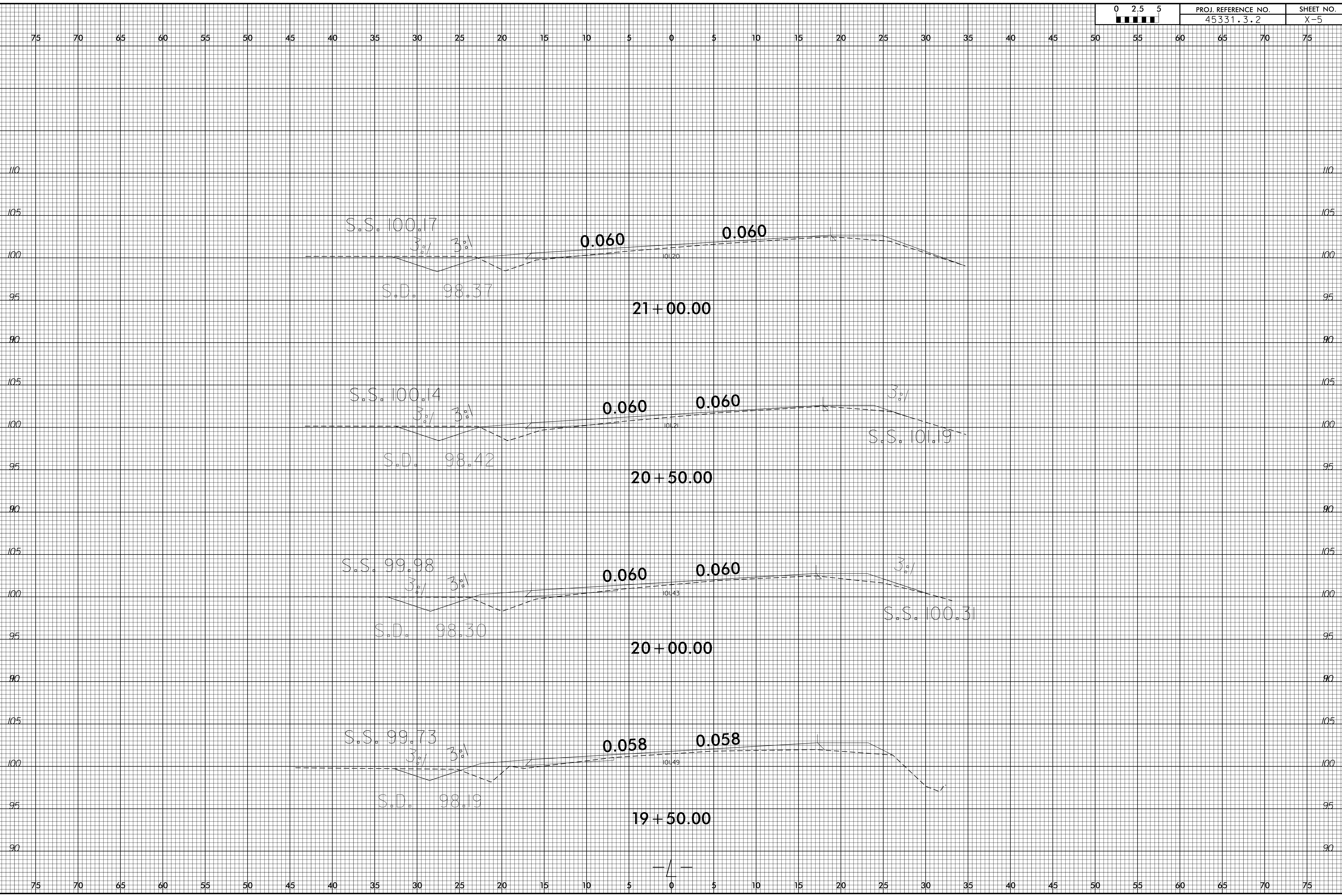


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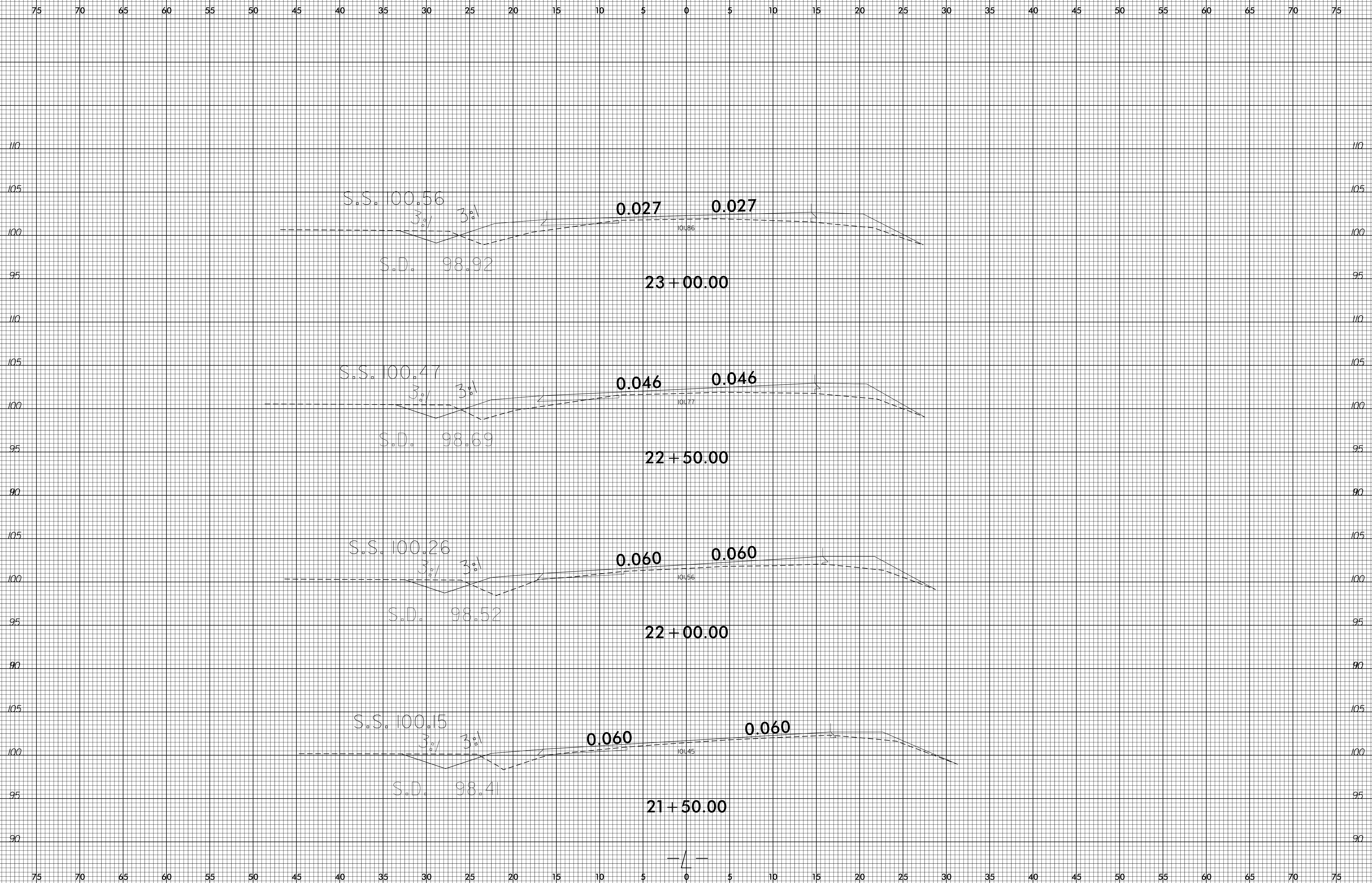
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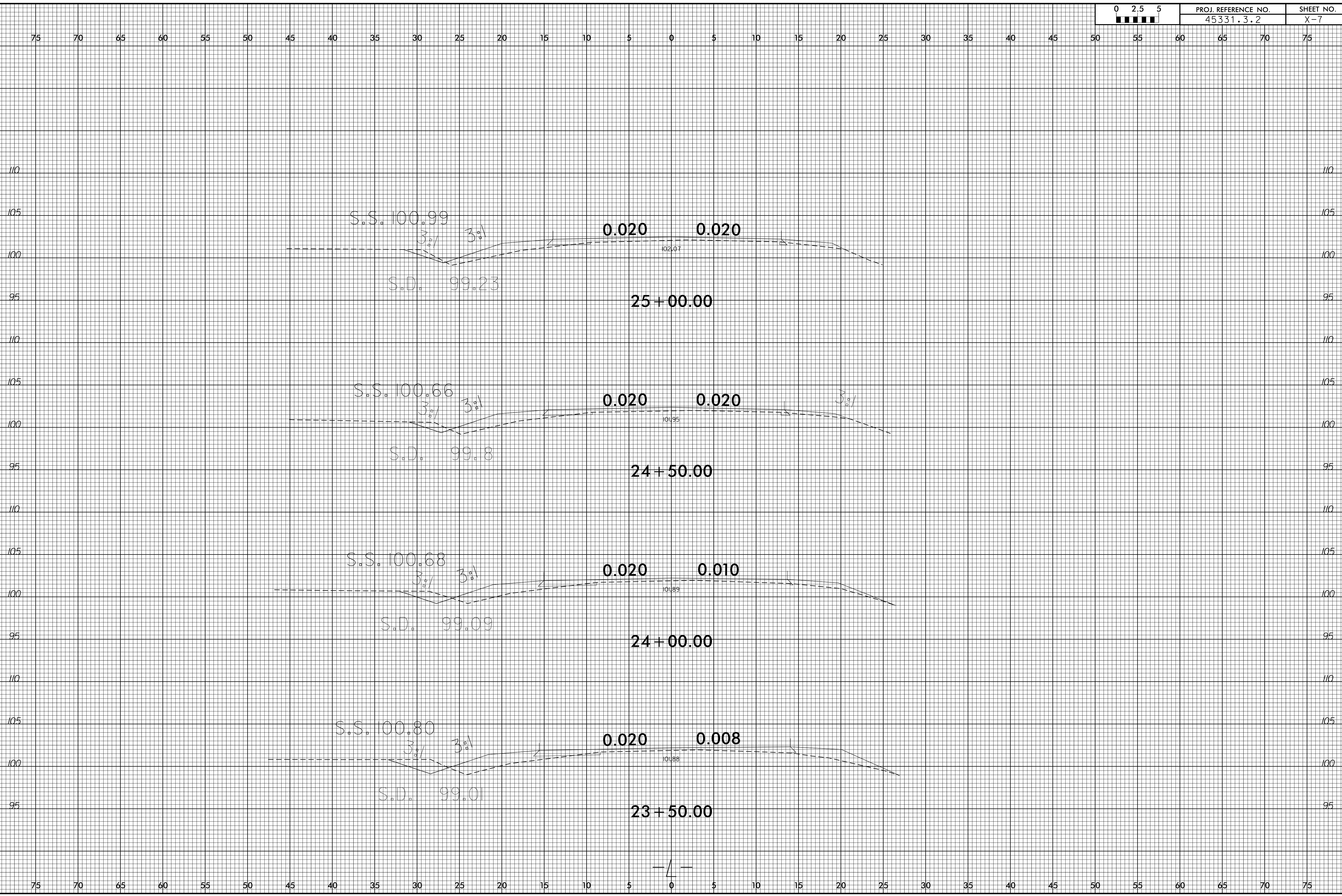
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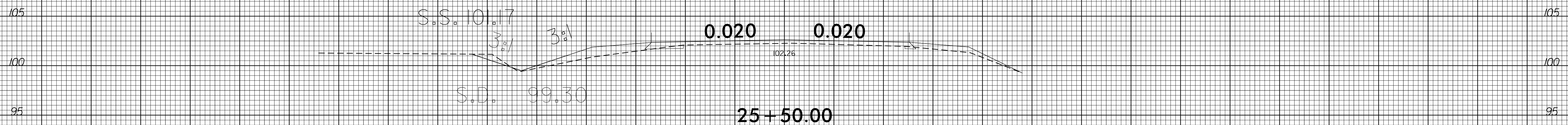
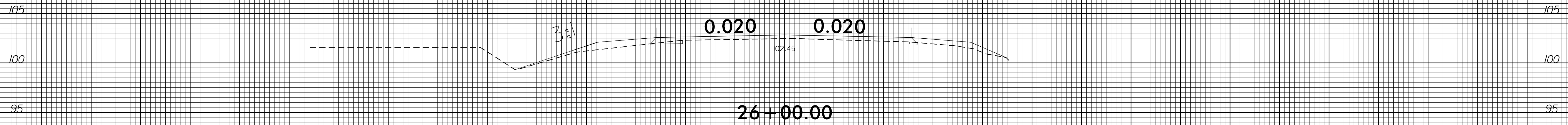
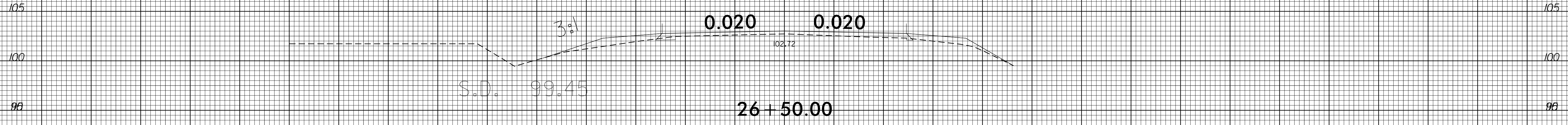
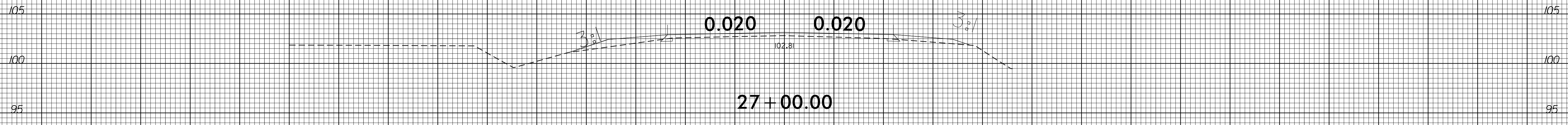
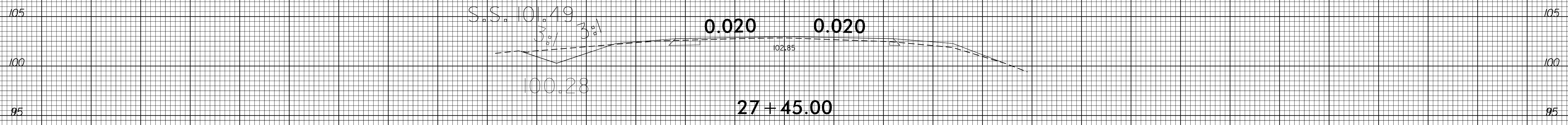
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