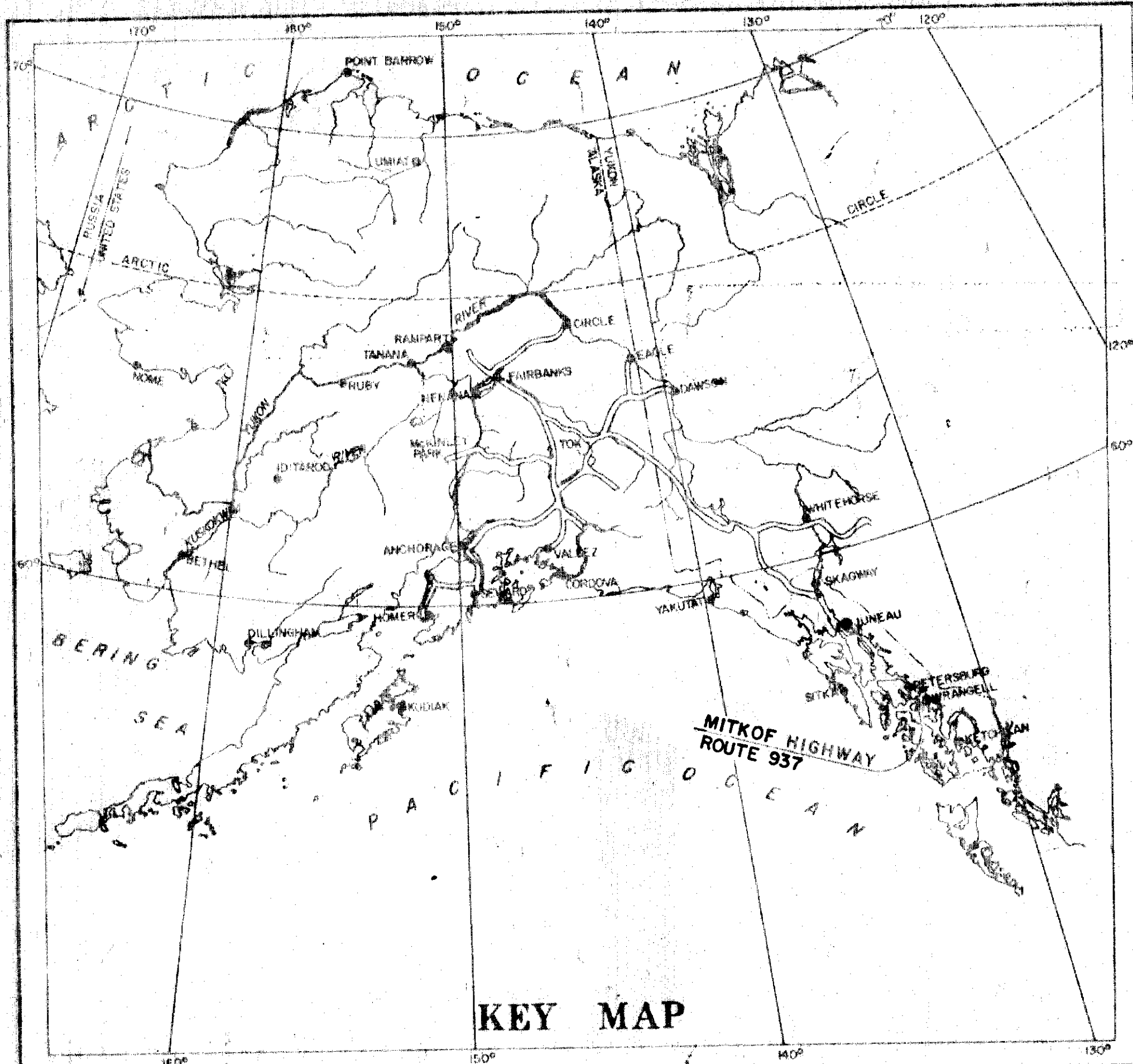




KEY MAP

SCALES
 PLAN: 1 in. = 100 ft.
 PROFILE HORIZ. 1 in. = 100 ft. VERT. 1 in. = 10 ft.
 REDUCED PLAN: 1 in. = 200 ft.
 REDUCED PROFILE: HORIZ. 1 in. = 200 ft. VERT. 1 in. = 20 ft.

PROJECT SUMMARY

WIDTH OF SUBGRADE	28 FT.
LENGTH OF 4 PARKING AREAS	620 FT. = 0.117 MI.
LENGTH OF 36 TURNOUTS	7,200 FT. = 1.364 MI.
LENGTH OF 8'7" X 5'11" X 52' SPPA AT STA. 983+05	20 FT. = 0.004 MI.
LENGTH OF GRADING AND DRAINAGE	58,539.87 FT. = 9.572 MI.
TOTAL LENGTH OF PROJECT	58,379.87 FT. = 11.057 MI.

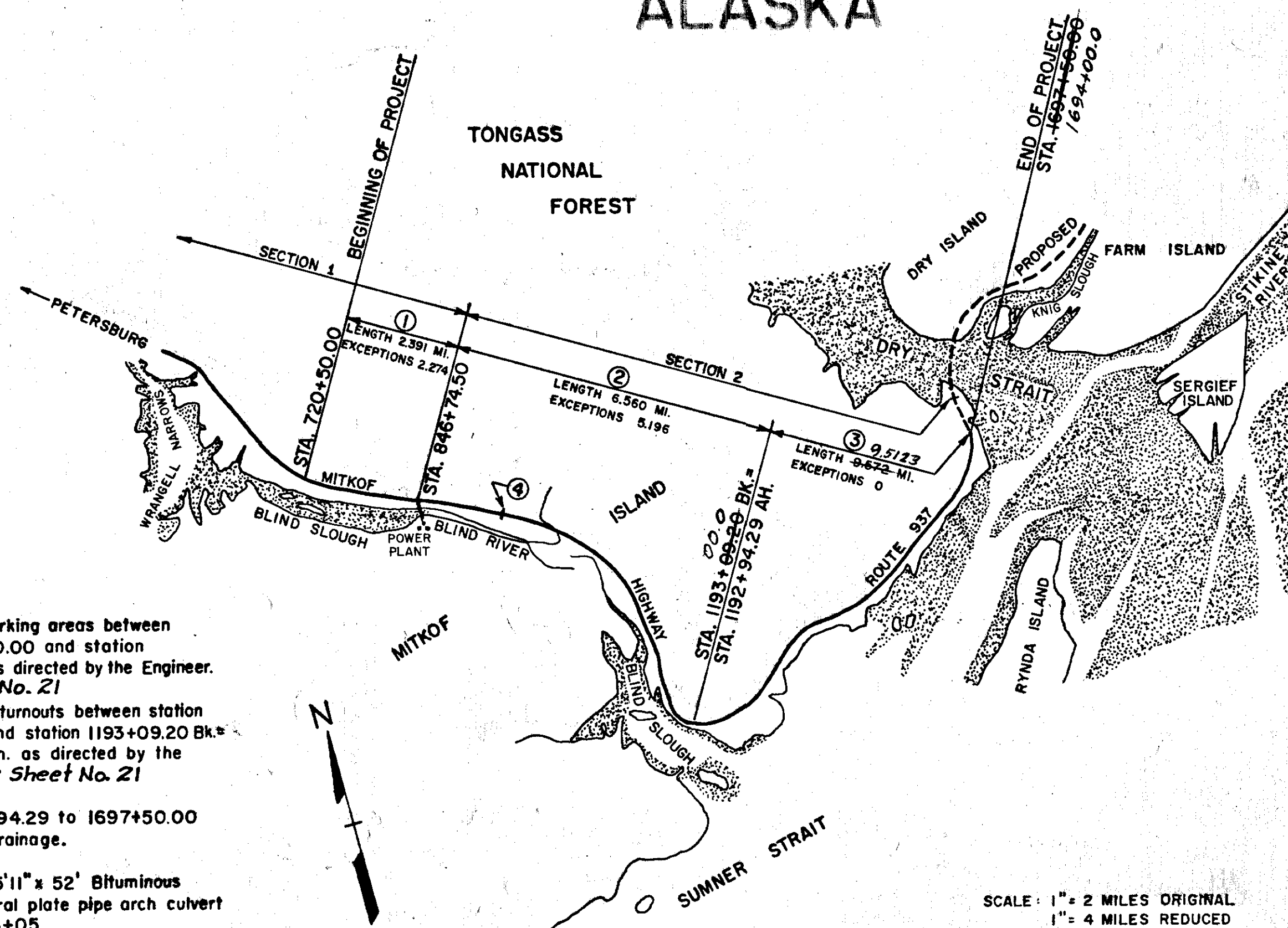
TYPE 0011 IMPROVEMENT

- Construct 4 parking areas between station 720+50.00 and station 846+74.50 as directed by the Engineer. See Sheet No. 21
- Construct 36 turnouts between station 846+74.50 and station 1193+09.20 Bk. 1192+94.29 Ah. as directed by the Engineer. See Sheet No. 21
- Station 1192+94.29 to 1697+50.00 Grading and drainage.
- Install 8'7" x 5'11" x 52' Bituminous coated structural plate pipe arch culvert at station 983+05. See Sheet No. 21

U. S. DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS REGION 10

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT NO. S-0937(5) & FH 7-1(1), 2(1) MITKOF HIGHWAY BLIND SLOUGH TO DRY STRAIT GRADING AND DRAINAGE

TONGASS NATIONAL FOREST FIRST JUDICIAL DIVISION ALASKA



SCALE: 1" = 2 MILES ORIGINAL
1" = 4 MILES REDUCED

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	1	28

INDEX OF SHEETS

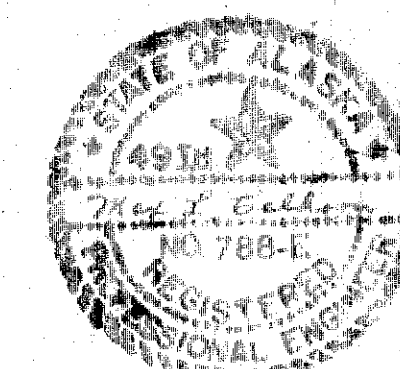
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUMMARY OF QUANTITIES
3	TYPICAL SECTION-SPECIAL DETAILS
4-20	PLAN AND PROFILE SHEETS
21	TURNOUT AND PARKING AREA REVISIONS
22-23	SUMMARY OF RIGHT-OF-WAY MONUMENTS
24	STANDARD CULVERTS RIO-S-4
25	STANDARD END SECTIONS FOR CULVERT PIPE
26	STANDARD BARRICADE RIO-S-1
27	STANDARD PROJECT IDENTIFICATION SIGN, RIO-S-6
28	TYPICAL SIGNS

Detailed x-sections, mass diagram, and soils profile for this project are available for inspection in the Federal Highway Projects Office, Region 10, Bureau of Public Roads - Juneau, Alaska.

AS BUILT PLANS

Signed Resident Engineer

Date



PLANS PREPARED BY:
AERO SERVICE CORPORATION-
KNOERLE, GRAEF, BENDER &
ASSOCIATES, INC.
PHILADELPHIA-BALTIMORE-CHICAGO

Richard J. ... Date 7-2-61
ADD ... Date 7-2-61

STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF HIGHWAYS

APPROVED
J. D. Sherard Date 2/15/61
DIRECTOR, DIVISION OF HIGHWAYS

APPROVED
Blair ... Date 2-15-61
REGIONAL ENGINEER
BUREAU OF PUBLIC ROADS
REGION TEN

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	50937	(5)	1961	2	2
MITKOF HIGHWAY					

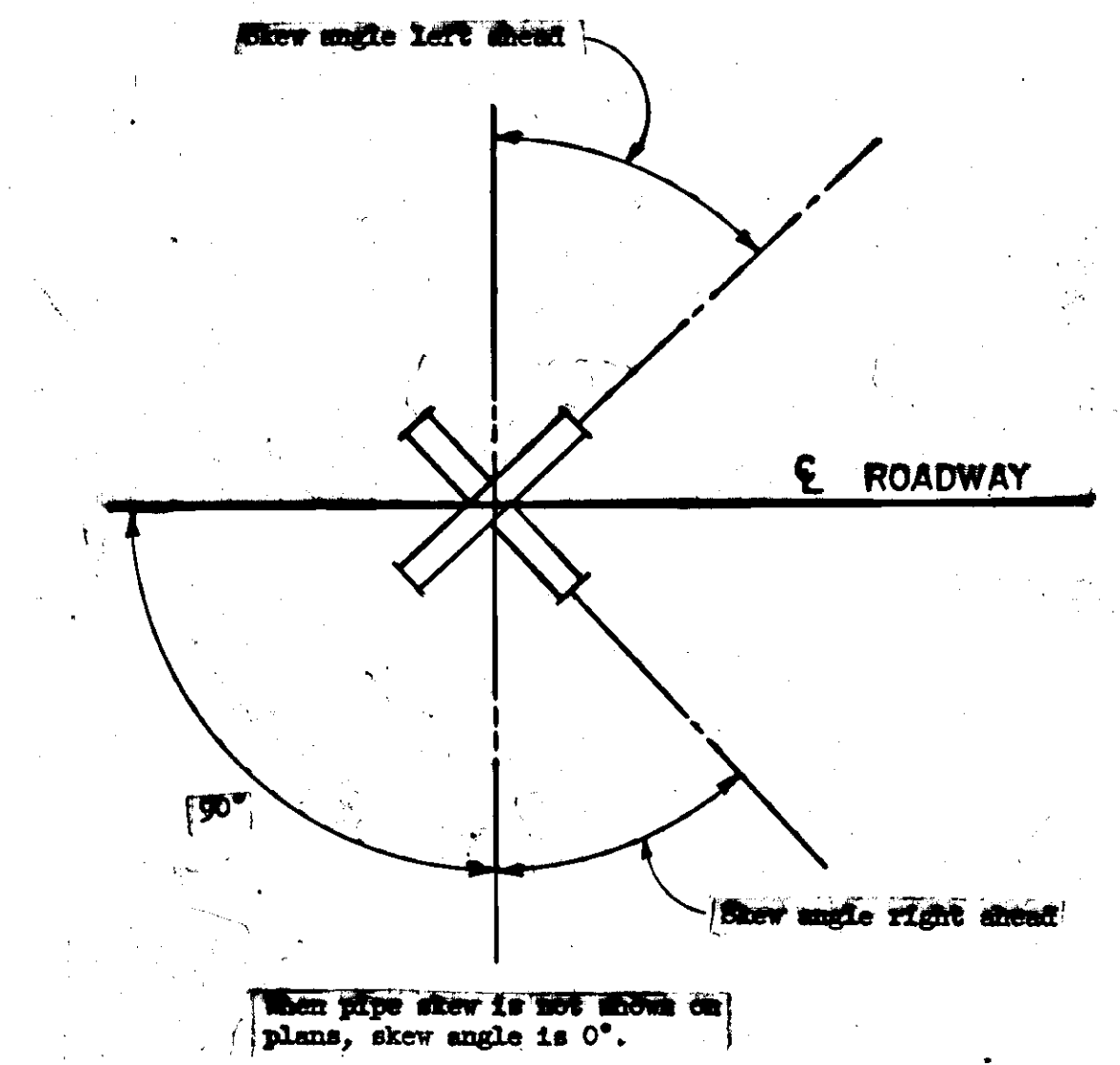
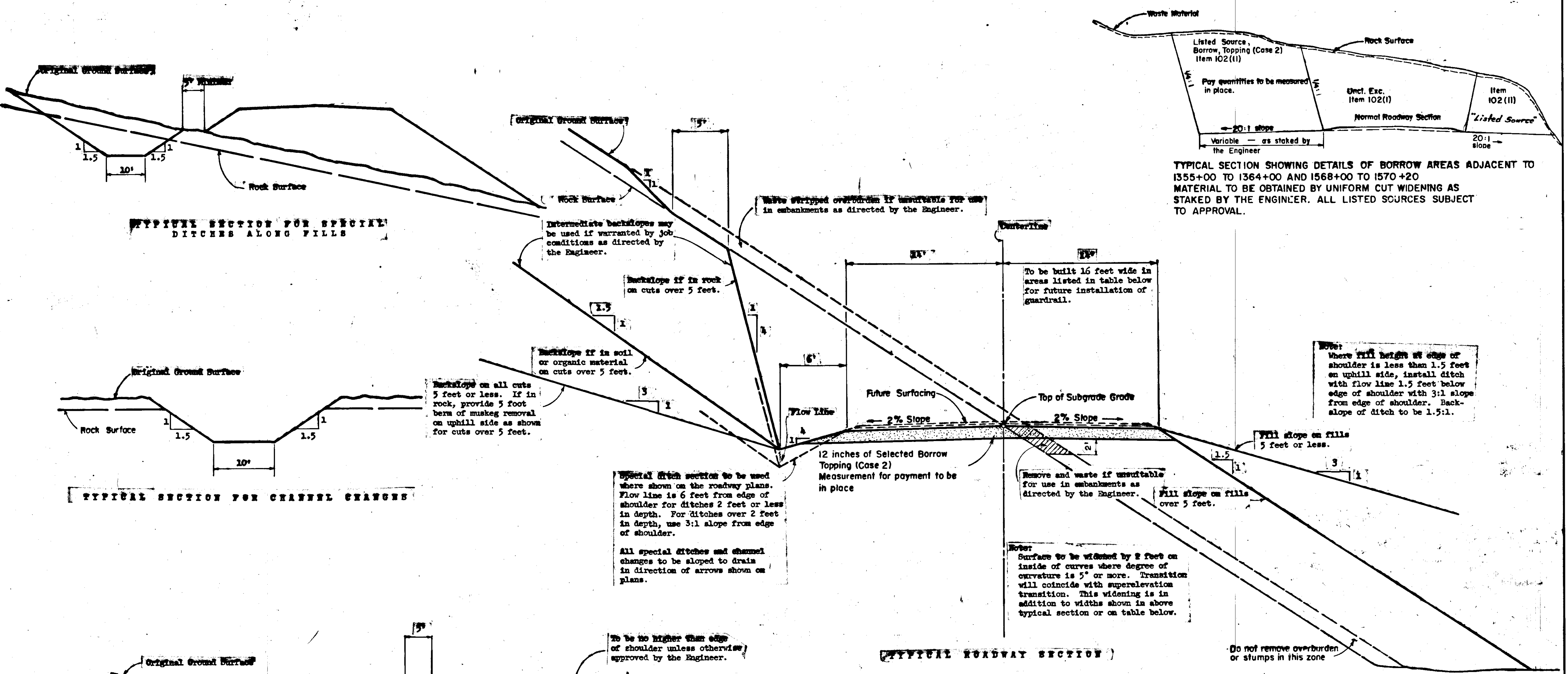
PROPOSAL		QUANTITIES		REMARKS		TOTALS	
100(1)	91	89.04	1.83			21	
100(2)	49	46.79	0.08				
					</		

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	3	26

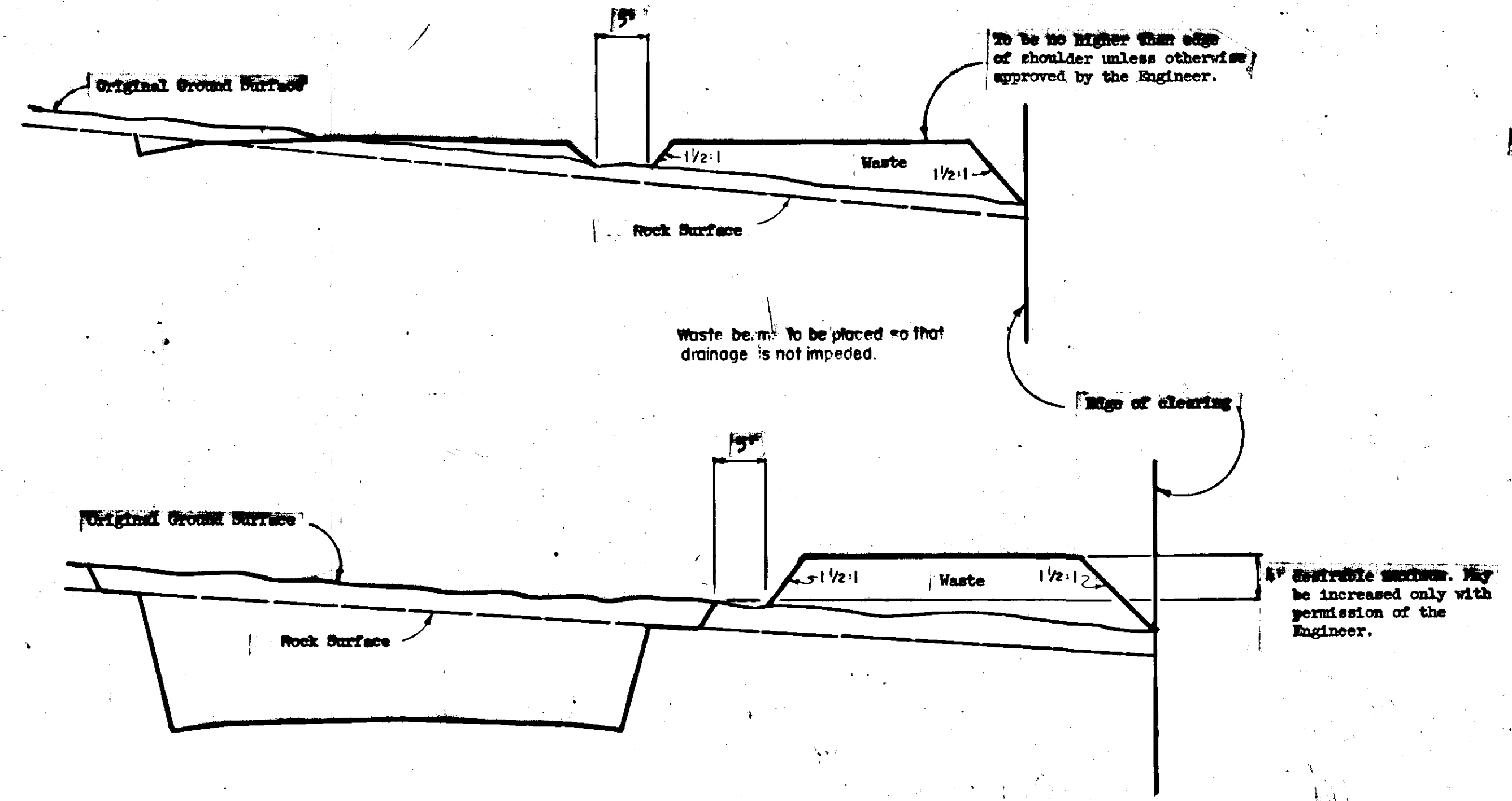
SUPERELEVATION

Degree of Curve	Grades 0% to 3.99%	Grades 4.00% to 6.00%	Grades 6.00% or more
1°	0.02	0.02	0.02
1° 30'	0.03	0.03	0.03
2°	0.04	0.04	0.04
2° 30'	0.05	0.05	0.05
3°	0.06	0.06	0.06
3° 30'	0.07	0.06	0.05
4°	0.08	0.06	0.05
Over 4°	0.08	0.06	0.05

1. Full superlevation on curves shall be not less than 0.02 feet per foot.
2. Rate of superlevation is in feet per foot of roadway width.
3. When tangent length between two curves is 400 feet or more, superlevation transition will be 200 feet in length. Full superlevation will be obtained at the P.C. of the curve. When tangent length between two curves is less than 400 feet, superlevation transition will be 180 feet in length, beginning at a point midway between the curves. Full superlevation will apply only over a portion of the curve. Transition from curve to tangent will be applied opposite to the foregoing. Superlevation transition between compound curves will start 100 feet before the P.C.C. and will end 100 feet after the P.C.C. or as otherwise approved by the Engineer.
4. To effect superlevation the outside shoulder will rotate about the centerline until the entire roadway width is superelevated to a rate of 0.02 feet per foot. After this the entire roadway surface will rotate about a point 14 feet from centerline on the inside of the curve.
5. Subgrade grades will be carried on shoulder (14' from centerline) on tangents and on the inside shoulder on curves. To obtain this, 0.28' should be deducted from grades as shown on plan & profile sheets.



PIVOT SKW ANGLE



TYPICAL SECTIONS SHOWING METHOD OF WASTE DISPOSAL

TYPICAL ROADWAY SECTION

TABLE OF AREAS WHERE EMBANKMENTS ARE 16 FEET WIDE FROM CENTERLINE FOR FUTURE INSTALLATION OF GUARDRAIL

FROM STATION	TO STATION	FROM STATION	TO STATION
1299+00 Rt.	1301+00 Rt.	1527+10 Lt.	1534+40 Lt.
1307+00 Rt.	1311+00 Rt.	1556+00 Rt.	1557+20 Rt.
1338+00 Rt.	1371+80 Rt.	1556+50 Lt.	1557+70 Lt.
1372+80 Rt.	1385+50 Rt.	1565+50 Lt.	1567+00 Lt.
1395+00 Rt.	1396+10 Rt.	1570+40 Rt.	1573+80 Rt.
1395+00 Lt.	1396+10 Lt.	1581+50 Rt.	1587+10 Rt.
1406+00 Rt.	1424+50 Rt.	1590+80 Rt.	1604+00 Rt.
1441+60 Rt.	1444+00 Rt.	1609+80 Rt.	1632+60 Rt.
1454+50 Rt.	1455+80 Rt.	1620+00 Lt.	1621+50 Lt.
1459+00 Rt.	1461+20 Rt.	1631+30 Lt.	1632+60 Lt.
1465+60 Rt.	1474+60 Rt.	1637+20 Rt.	1641+00 Rt.
1465+60 Lt.	1468+00 Lt.	1647+00 Rt.	1661+20 Rt.
1477+75 Lt.	1480+25 Lt.	1664+50 Rt.	1666+50 Rt.
1480+00 Rt.	1503+00 Rt.	1691+00 Rt.	1697+50 Rt.
1488+80 Lt.	1491+20 Lt.	1691+00 Lt.	1697+50 Lt.
1513+00 Rt.	1517+00 Rt.		
1514+60 Lt.	1517+00 Lt.		
1527+10 Rt.	1552+00 Rt.		

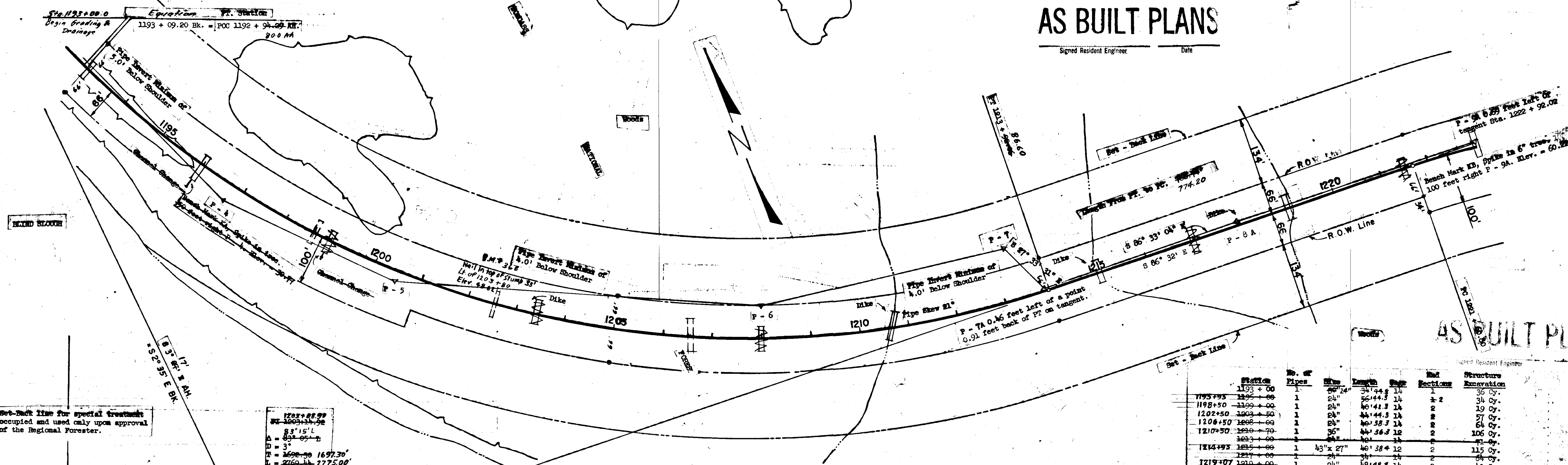
TYPICAL CROSS SECTION SPECIAL DETAILS

← BEGINNING OF PROJECT STA. 720+50.00.
SEE TITLE SHEET.

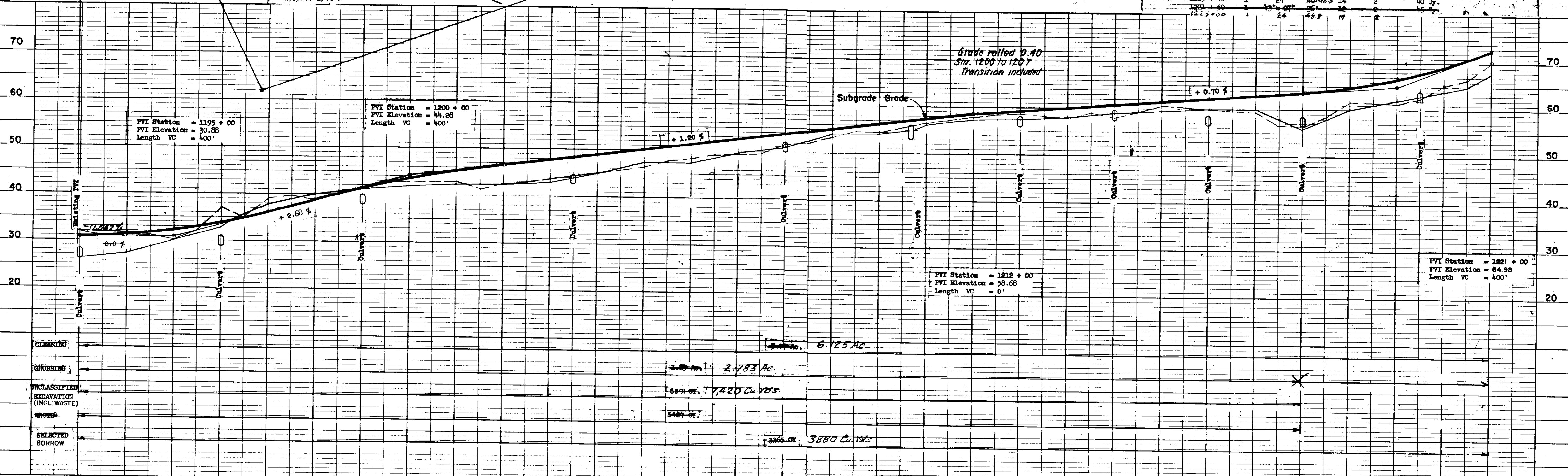
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	4	28

AS BUILT PLANS

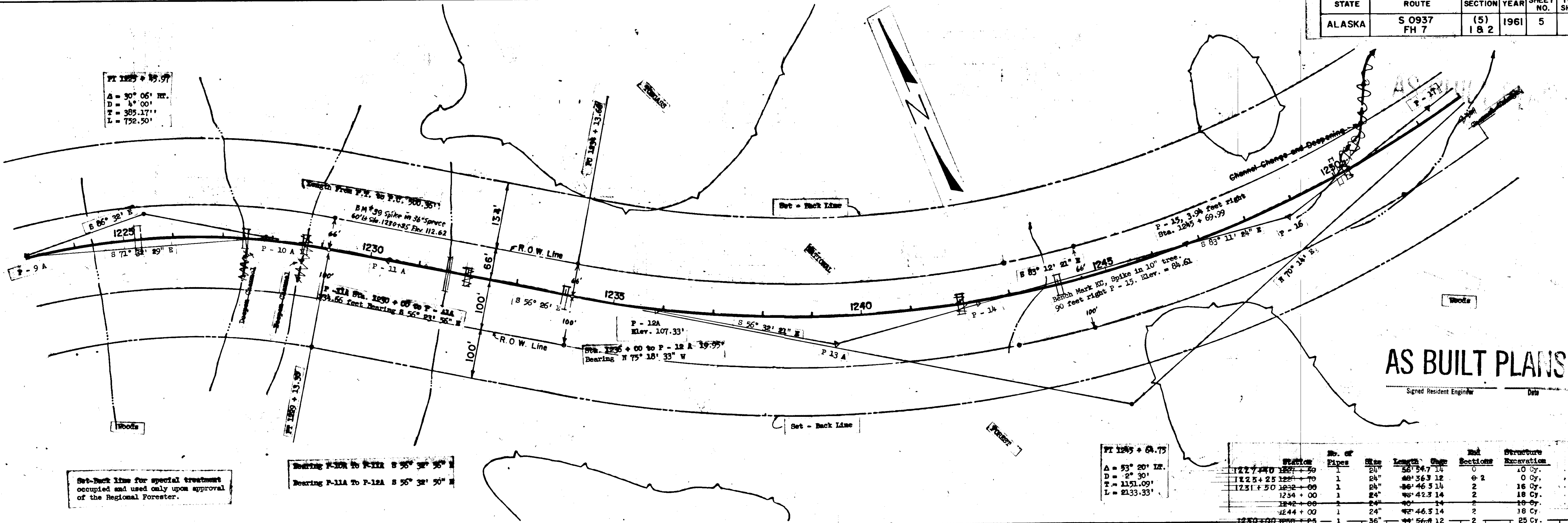
Signed Resident Engineer _____ Date _____



Station	No. of Pipes	Dia.	Length	Spig.	End Sections	Structure Excavation
1193+00	1	36"	34' 44.5"	14	1	36 Cy.
1193+00	1	24"	56' 44.5"	14	2	34 Cy.
1198+50	1	24"	40' 44.5"	14	2	19 Cy.
1202+50	1	24"	44' 44.5"	14	2	57 Cy.
1206+50	1	24"	40' 38.3"	14	2	64 Cy.
1210+50	1	36"	44' 38.3"	12	2	106 Cy.
1213+00	1	24"	40'	14	2	41 Cy.
1214+95	1	43"x 27"	40' 38.4"	12	2	115 Cy.
1217+00	1	24"	34'	14	2	84 Cy.
1219+07	1	24"	48' 48.5"	14	2	40 Cy.
1221+50	1	36"	36'	14	2	45 Cy.
1225+00	1	24"	45'	14	2	



STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	5	28



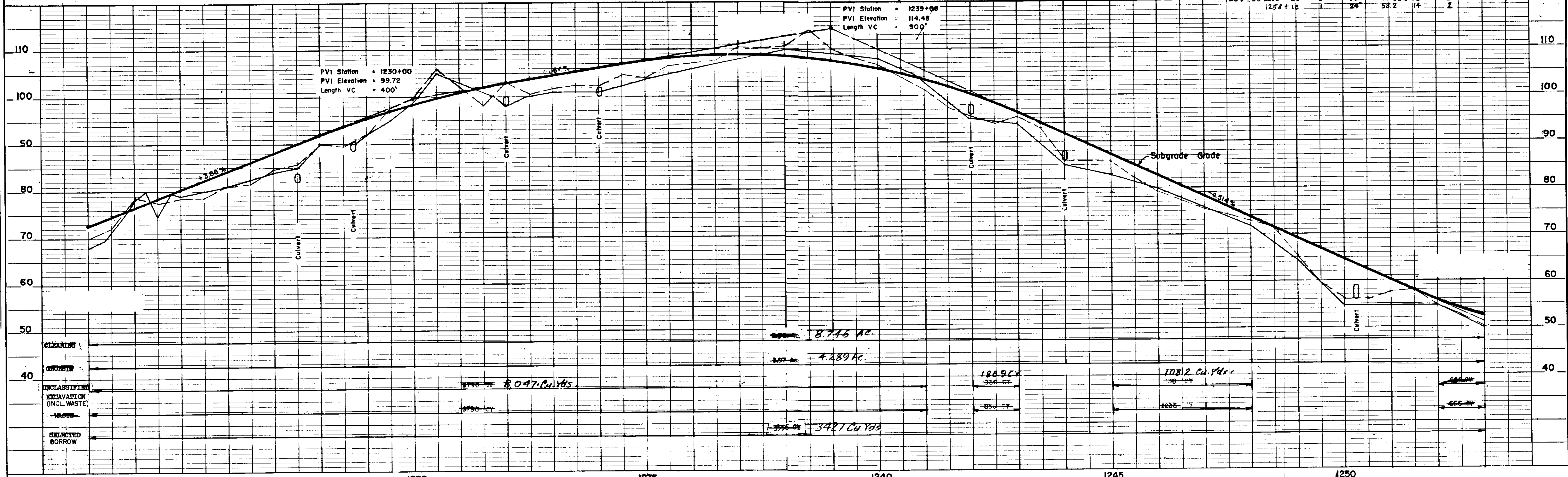
AS BUILT PLANS

Station	No. of Pipes	Size	Length	Grade	Excavation	Structure
1227+40 to 1227+50	1	24"	56' 54.7 14		0	10 Cy.
1228+25 to 1228+70	1	24"	49' 36.3 12	+ 2	0	0 Cy.
1231+50 to 1232+00	1	24"	46' 46.3 14	2	16	16 Cy.
1234+00	1	24"	42' 42.3 14	2	18	18 Cy.
1242+00	2	24"	40' 40.3 14	2	18	18 Cy.
1244+00	1	24"	46' 46.3 14	2	18	18 Cy.
1250+00 to 1250+25	1	36"	44' 56.8 12	2	25	25 Cy.
1253+18	1	24"	58.2 14	2		

PT 1243 + 64.75
 Δ = 53° 20' 12"
 D = 2° 30'
 T = 1151.09'
 L = 2133.33'

PVI Station = 1239+00
 PVI Elevation = 114.48
 Length VC = 900'

PVI Station = 1230+00
 PVI Elevation = 99.72
 Length VC = 400'

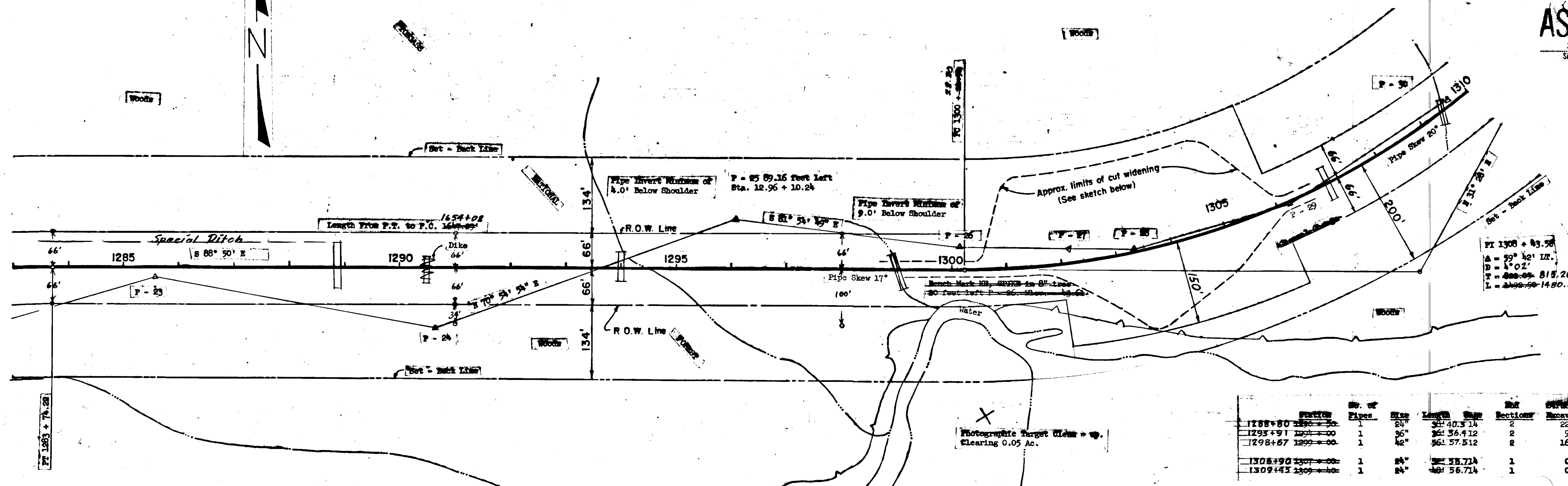


STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 182	1961	7	28

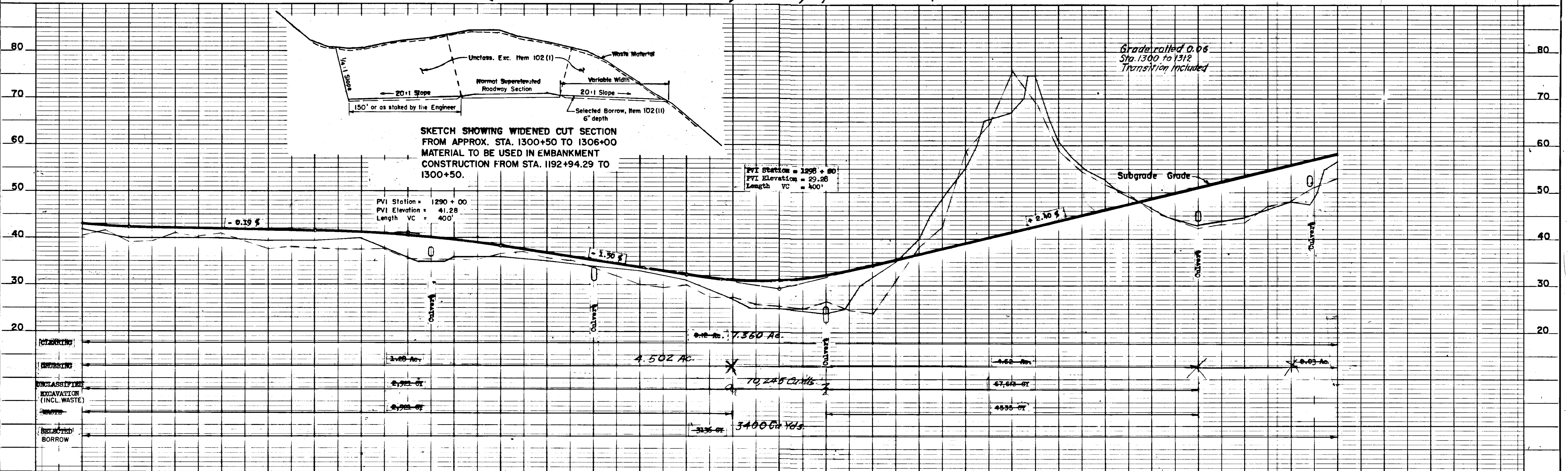
AS BUILT PLANS

Signed Resident Engineer
Date

Set-Back Line for special treatment occupied and used only upon approval of the Regional Forester.



Station	No. of Pipes	Size	Length	No. Sections	Excavation
1288+50 to 1290+00	1	24"	56' 40.312	2	22 Cy.
1295+51 to 1300+00	1	36"	56' 56.412	2	9 Cy.
1298+67 to 1300+00	1	42"	56' 57.512	2	16 Cy.
1306+90 to 1307+00	1	24"	56' 58.714	1	0 Cy.
1309+43 to 1309+50	1	24"	56' 56.714	1	0 Cy.



SKETCH SHOWING WIDENED CUT SECTION FROM APPROX. STA. 1300+50 TO 1306+00 MATERIAL TO BE USED IN EMBANKMENT CONSTRUCTION FROM STA. 1192+94.29 TO 1300+50.

PVI Station = 1290 + 00
PVI Elevation = 41.28
Length VC = 400'

PVI Station = 1296 + 50
PVI Elevation = 29.28
Length VC = 400'

Graded at 0.06 Sta. 1300 to 1312 Transition included

- CHUCKING
- CRUSHING
- UNCLASSIFIED EXCAVATION (INCL. WASTE)
- WASTE
- RECLAIMED BORROW

2.60 AC.
2,722 CY
2,722 CY

4.502 AC.

0.10 AC. 7.360 AC.

3400 CY WMS

4.62 AC.

47,642 CY

4835 CY

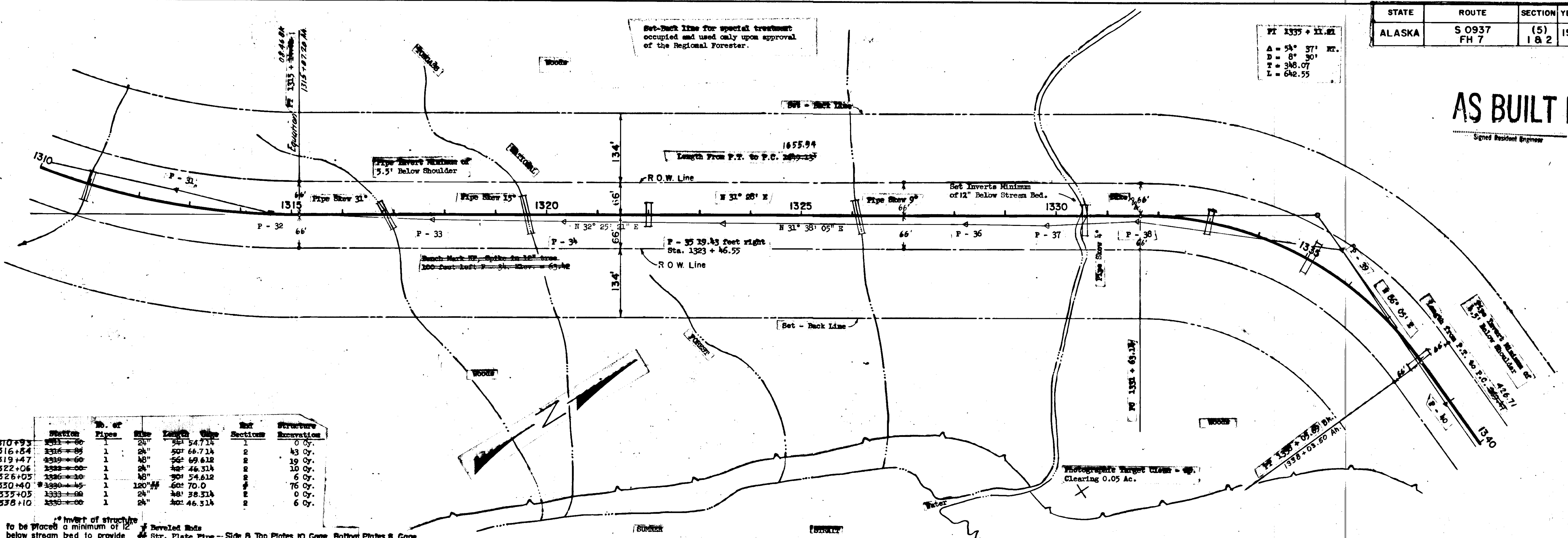
0.03 AC.

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	8	28

PI 1335 + 11.21
 A = 54° 37' RT.
 B = 8° 30'
 T = 348.07
 L = 642.55

AS BUILT PLANS

Signed Resident Engineer

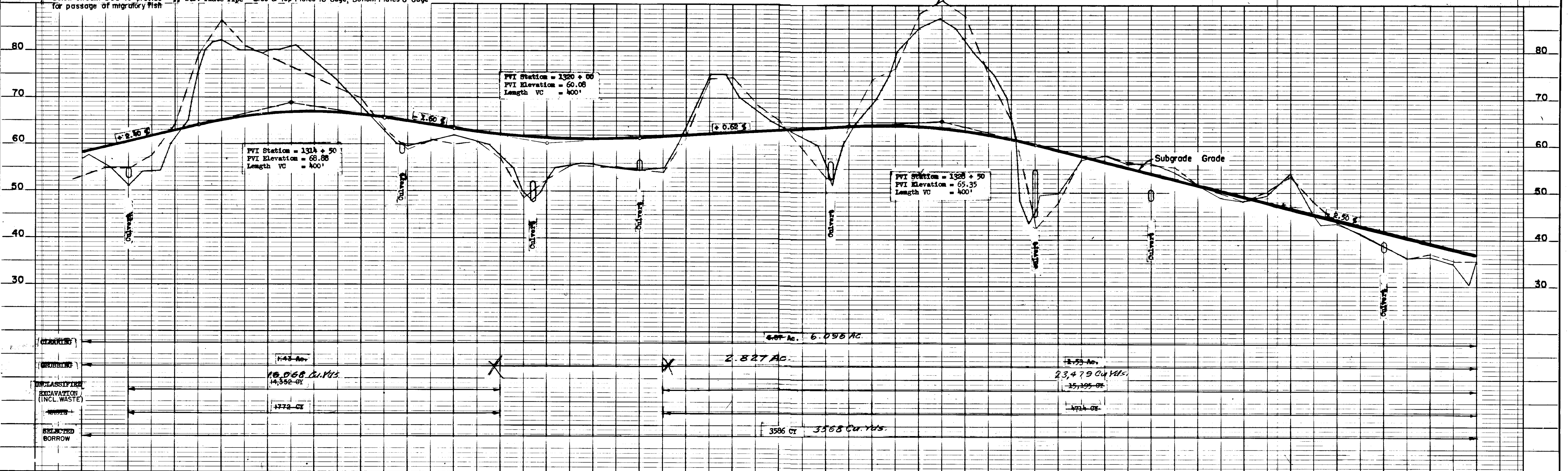


Station	No. of Pipes	Size	Length	Excavation	Structure
1310+93	1	24"	54.714	0 Cy.	
1316+64	1	24"	50.7	43 Cy.	
1319+47	1	24"	56.7	19 Cy.	
1322+06	1	24"	48.314	10 Cy.	
1326+05	1	24"	54.612	6 Cy.	
1330+40	1	120" #	60.70.0	76 Cy.	
1335+05	1	24"	48.314	0 Cy.	
1338+10	1	24"	46.314	6 Cy.	

* Invert of structure to be placed a minimum of 12" below stream bed to provide for passage of migratory fish.

* Develed Ends

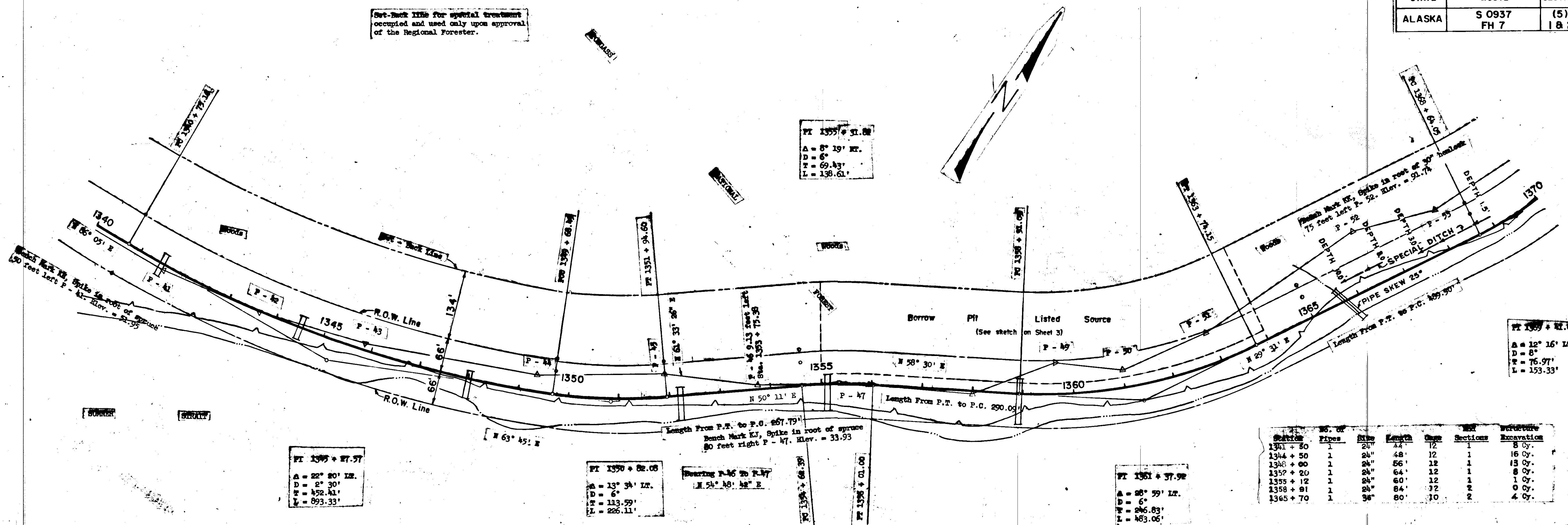
* Str. Plate Pipe - Side & Top Plates 10 Gage, Bottom Plates 8 Gage



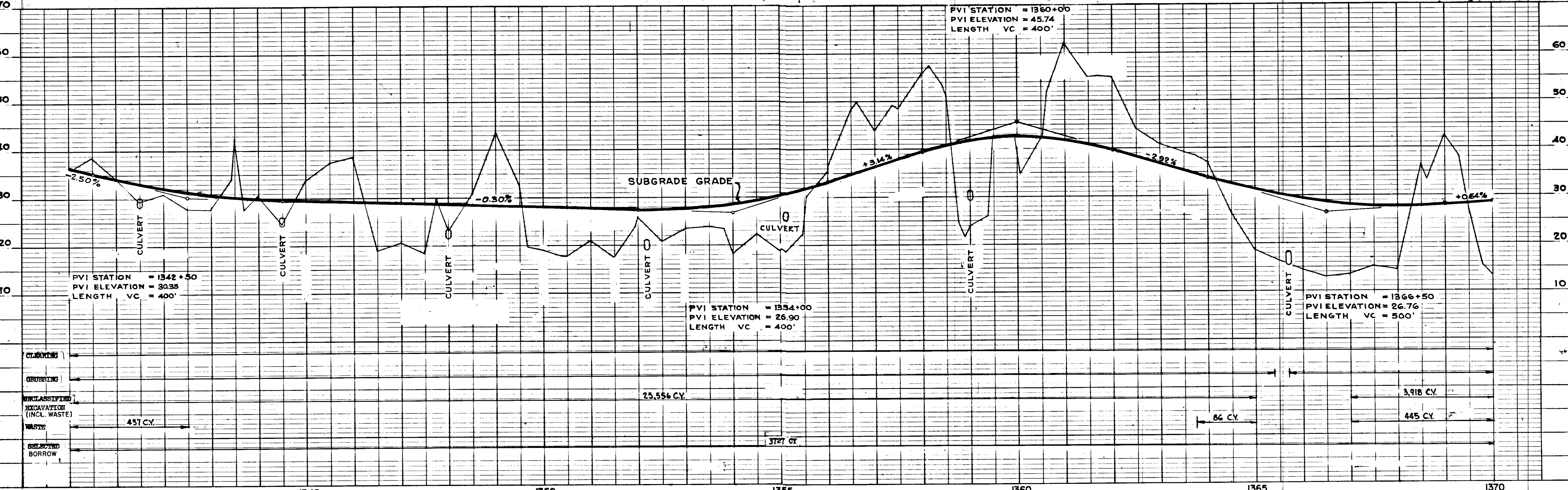
- CLEARING
- GRUBBING
- UNCLASSIFIED EXCAVATION (INCL. WASTE)
- SELECTED BORROW

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	9	28

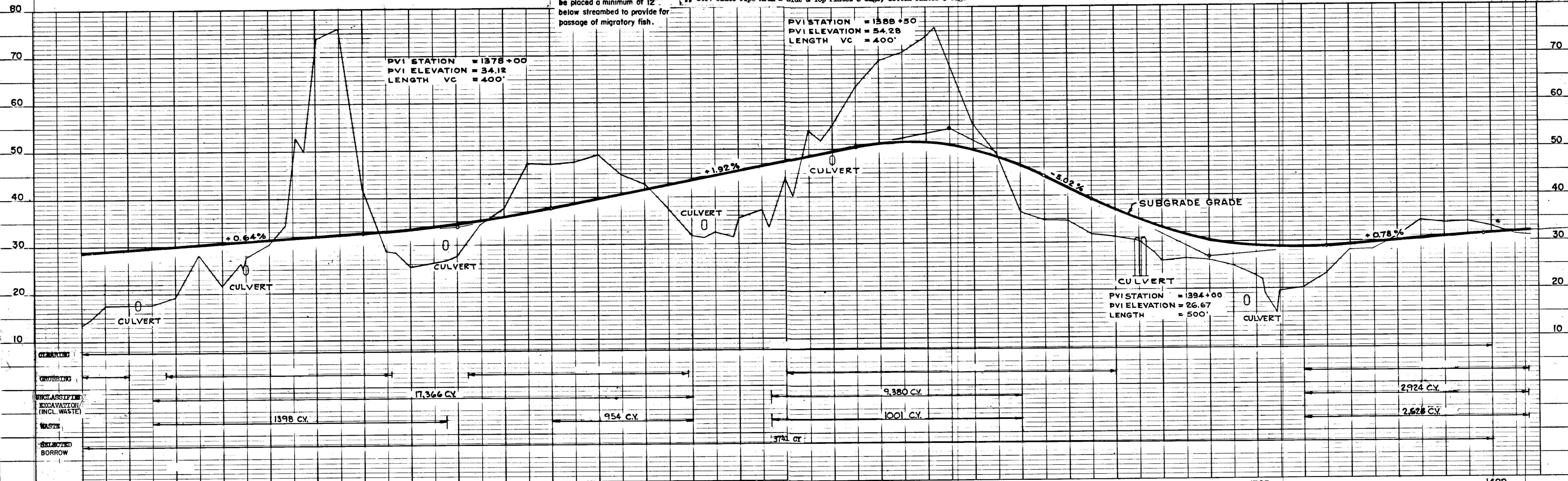
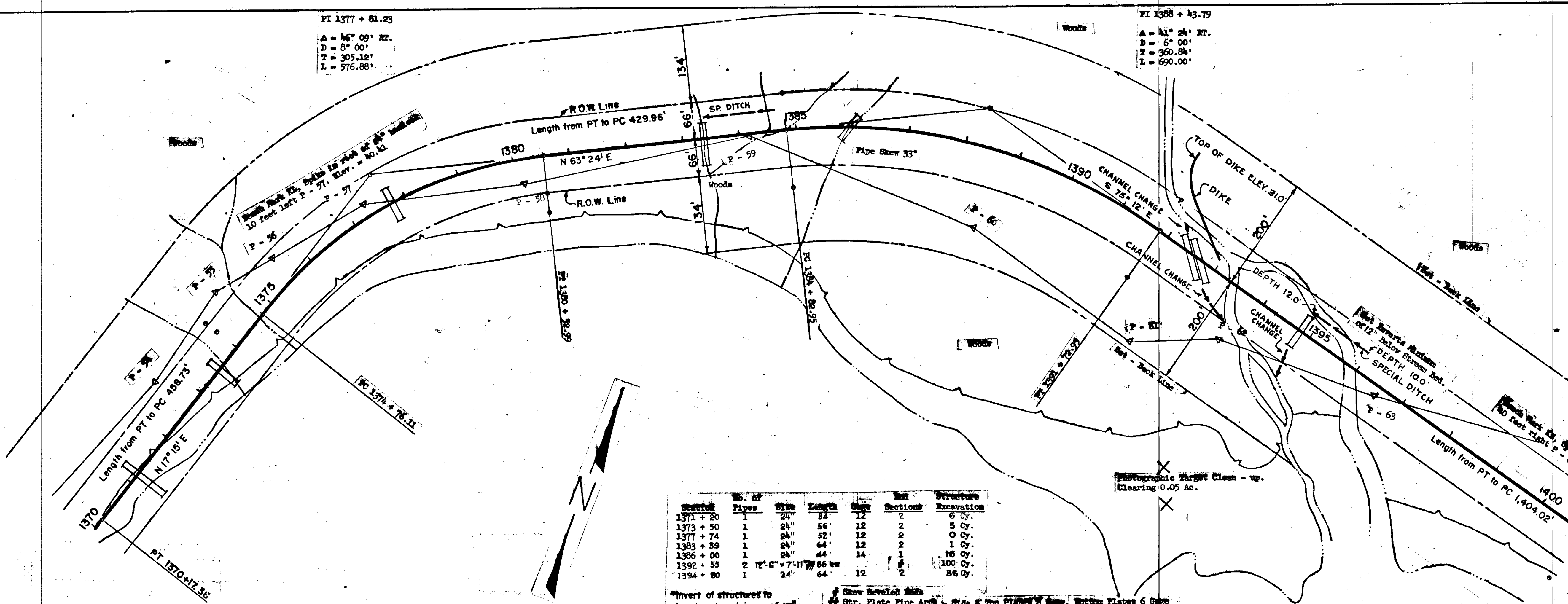
Set-back 115' for special treatment
occupied and used only upon approval
of the Regional Forester.



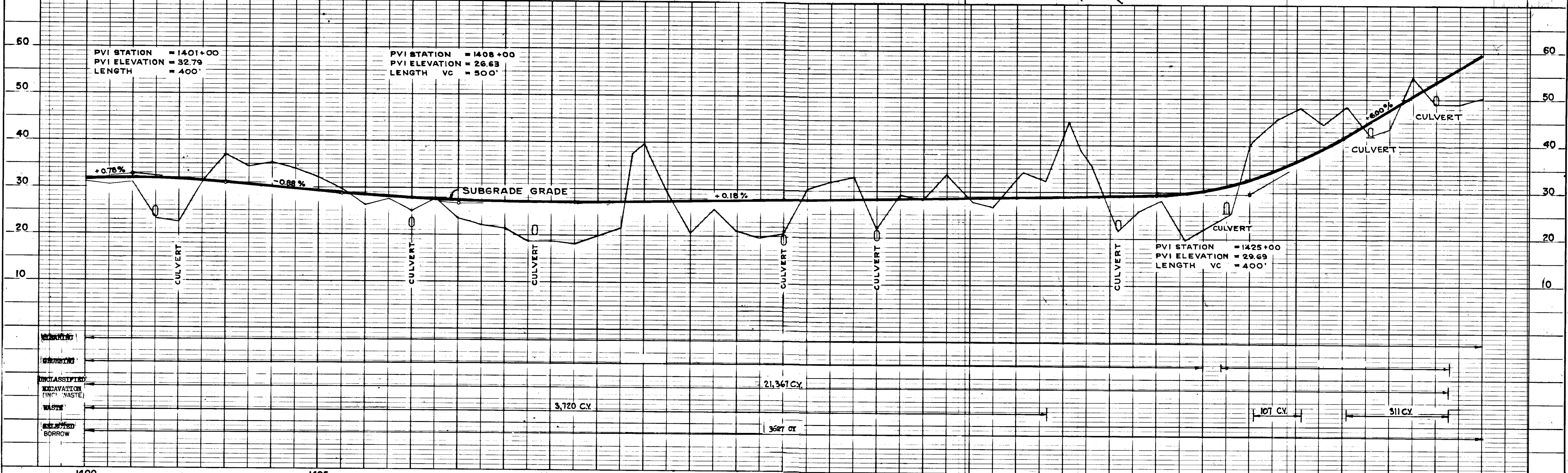
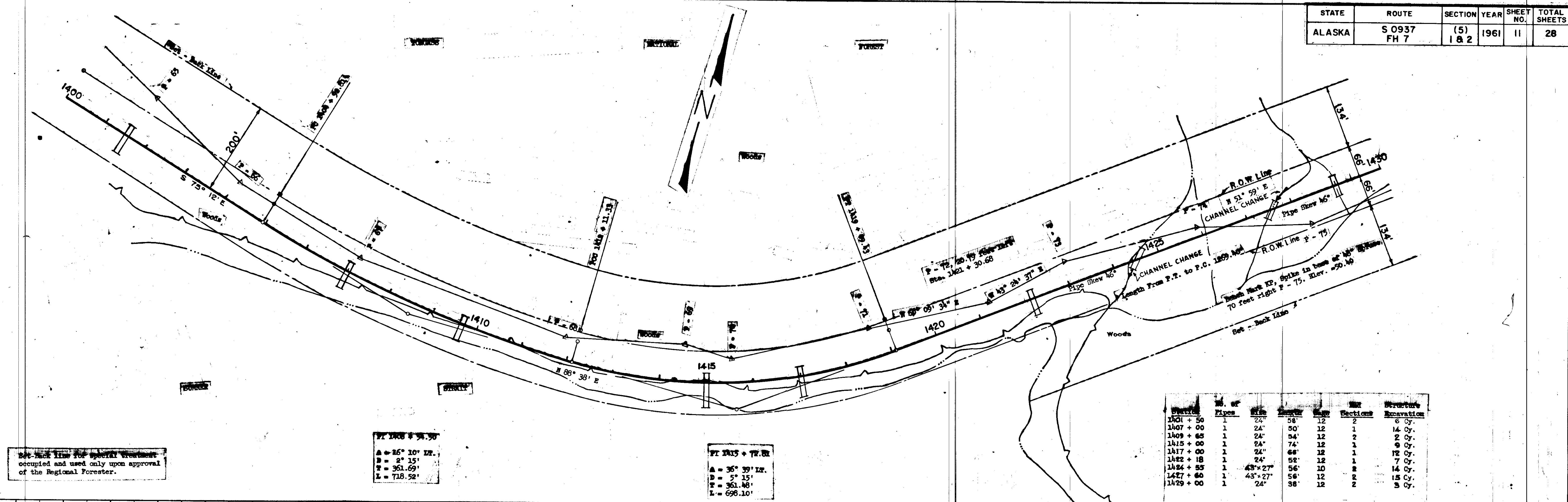
Station	No. of Pipes	Size	Length	Open	Sections	Excavation
1341+80	1	24"	44'	12	1	8 Cy.
1344+50	1	24"	48'	12	1	16 Cy.
1348+00	1	24"	56'	12	1	13 Cy.
1352+20	1	24"	64'	12	1	8 Cy.
1355+12	1	24"	60'	12	1	1 Cy.
1358+91	1	24"	84'	12	2	0 Cy.
1365+70	1	36"	80'	10	2	4 Cy.



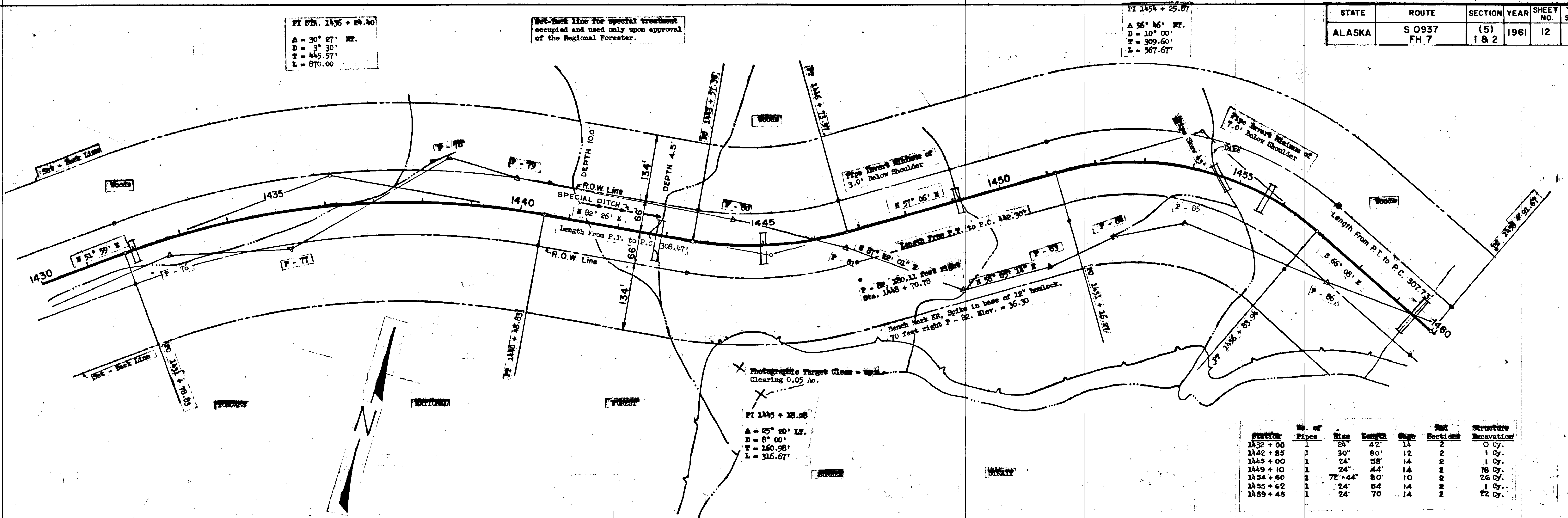
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	10	28



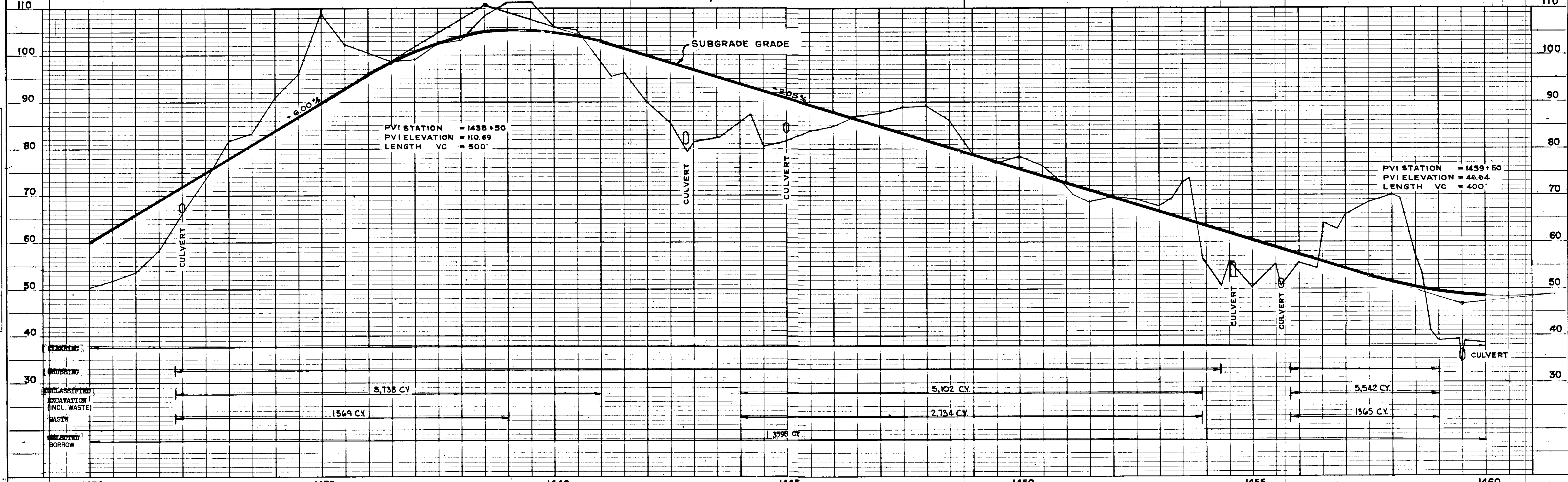
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	11	28



STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 182	1961	12	28

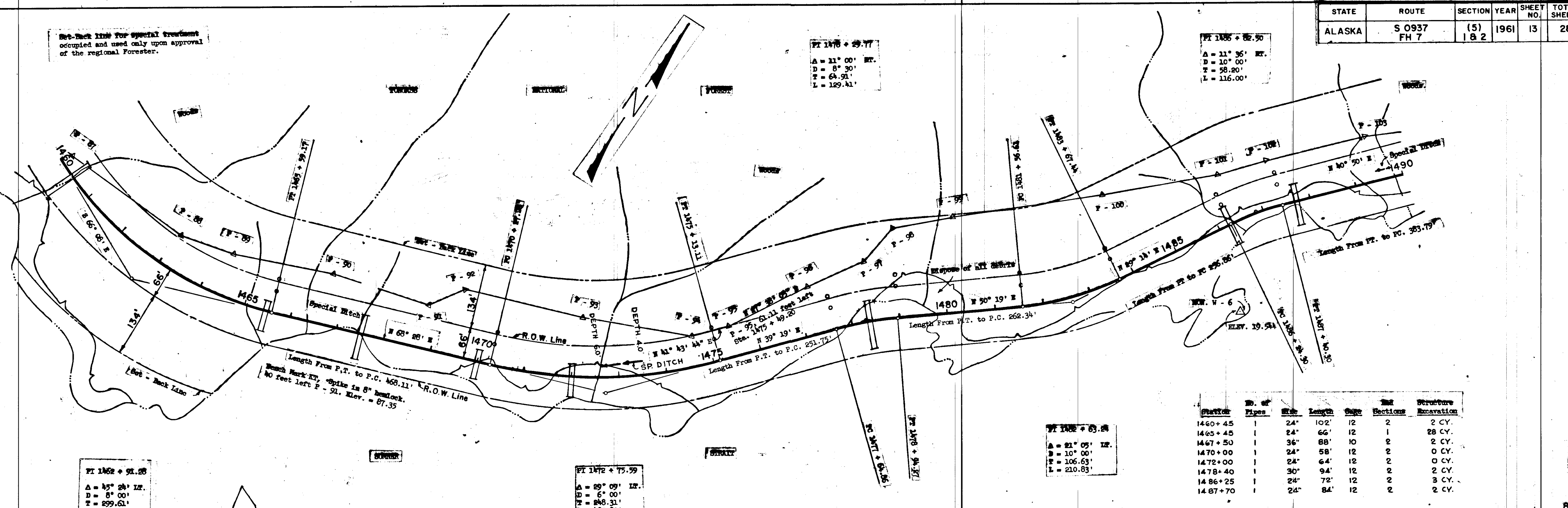


Station	No. of Pipes	Size	Length	Spig	Shut Sections	Structure Excavation
1432 + 00	1	24"	42'	14	2	0 Cy.
1442 + 85	1	30"	80'	12	2	1 Cy.
1445 + 00	1	24"	58'	14	2	1 Cy.
1449 + 10	1	24"	44'	14	2	18 Cy.
1454 + 60	1	72" x 44"	80'	10	2	26 Cy.
1455 + 42	1	24"	54'	14	2	1 Cy.
1459 + 45	1	24"	70'	14	2	22 Cy.

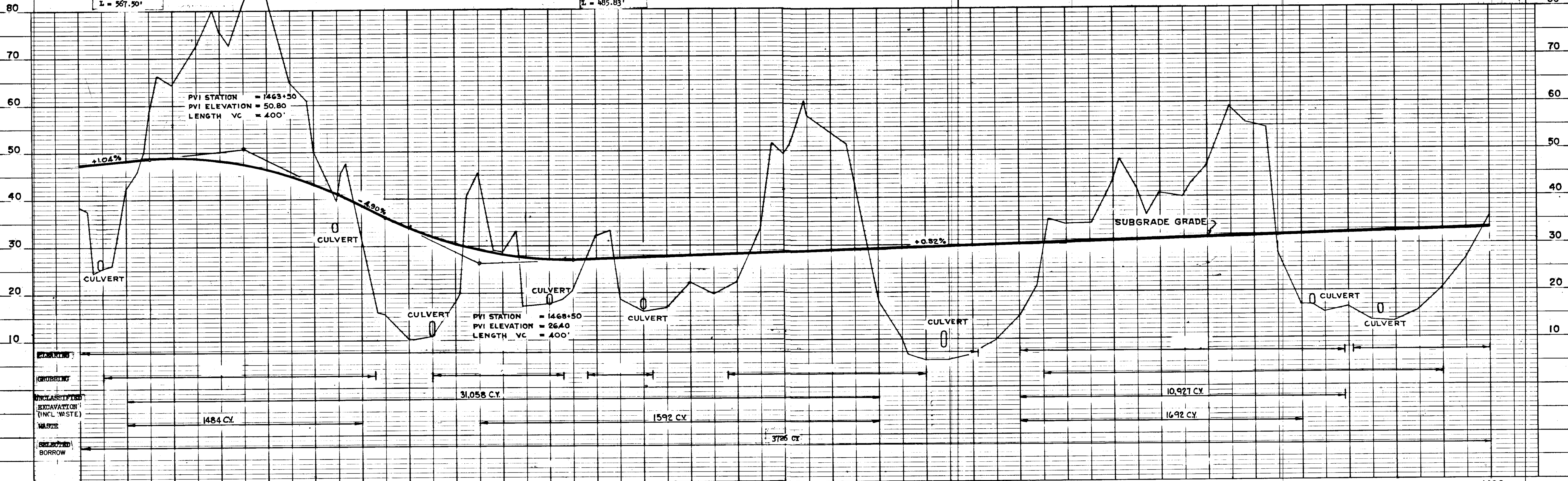


STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	13	28

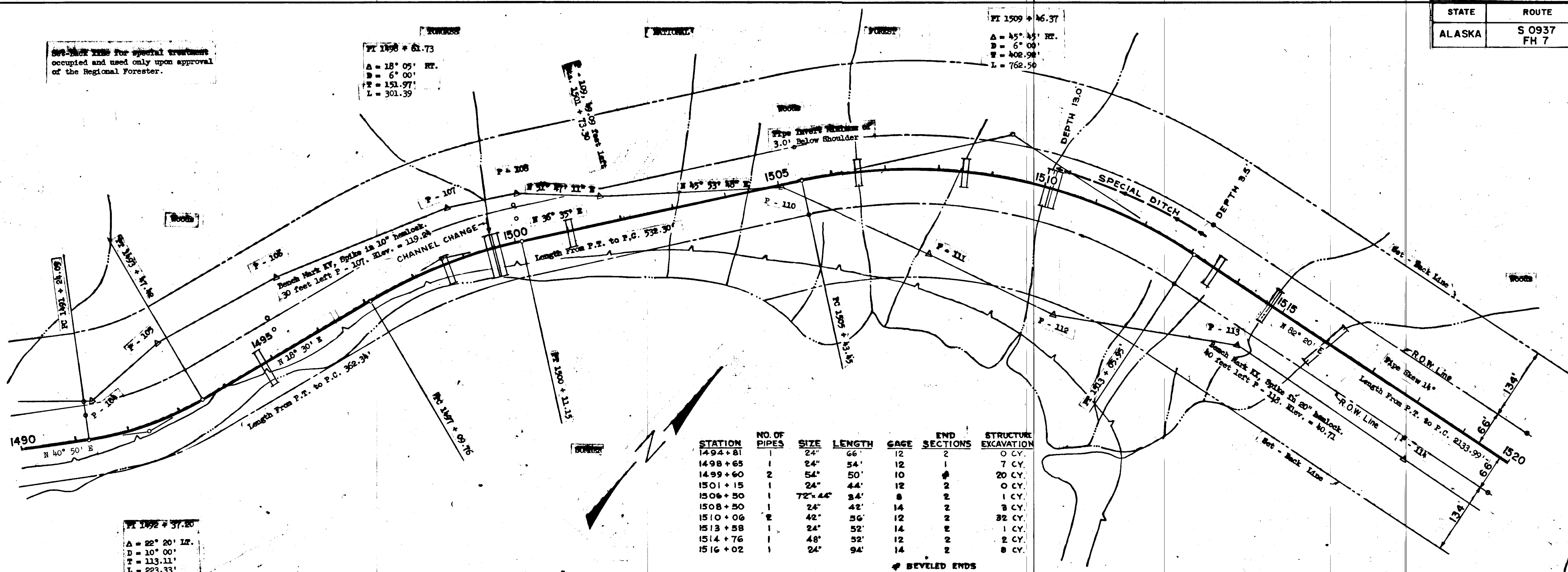
Set-back line for special treatment occupied and used only upon approval of the regional Forester.



Station	No. of Pipes	Size	Length	Spig	Sections	Structure Excavation
1460+45	1	24"	102'	12	2	2 CY.
1465+45	1	24"	66'	12	1	28 CY.
1467+50	1	36"	88'	10	2	2 CY.
1470+00	1	24"	58'	12	2	0 CY.
1472+00	1	24"	64'	12	2	0 CY.
1478+40	1	30"	94'	12	2	2 CY.
1486+25	1	24"	72'	12	2	3 CY.
1487+70	1	24"	84'	12	2	2 CY.

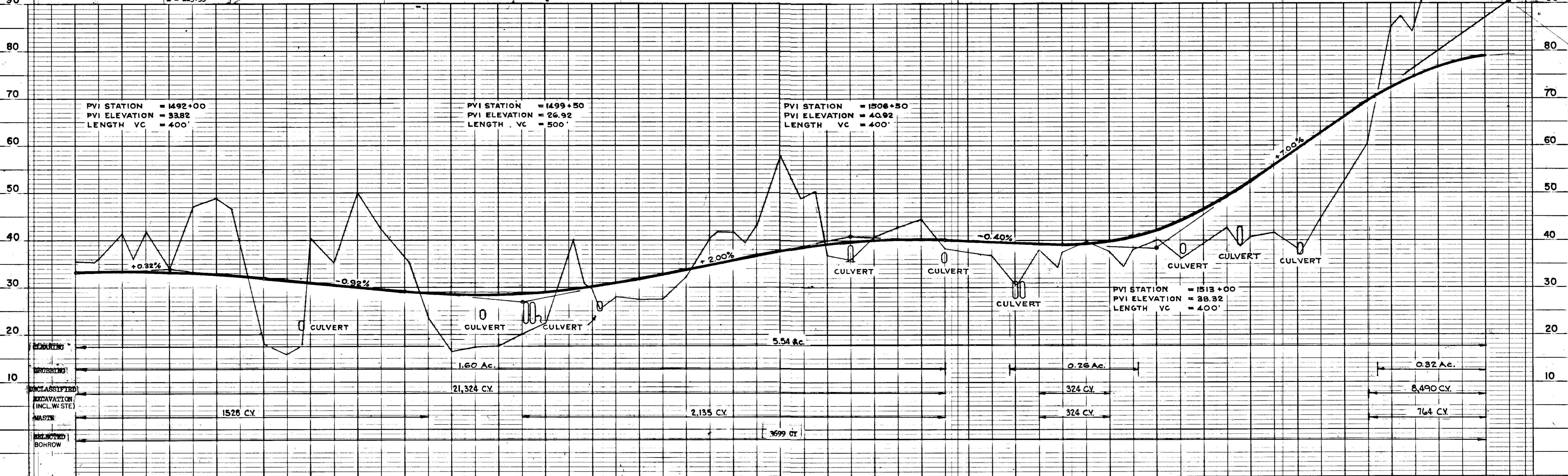


STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 182	1961	14	28



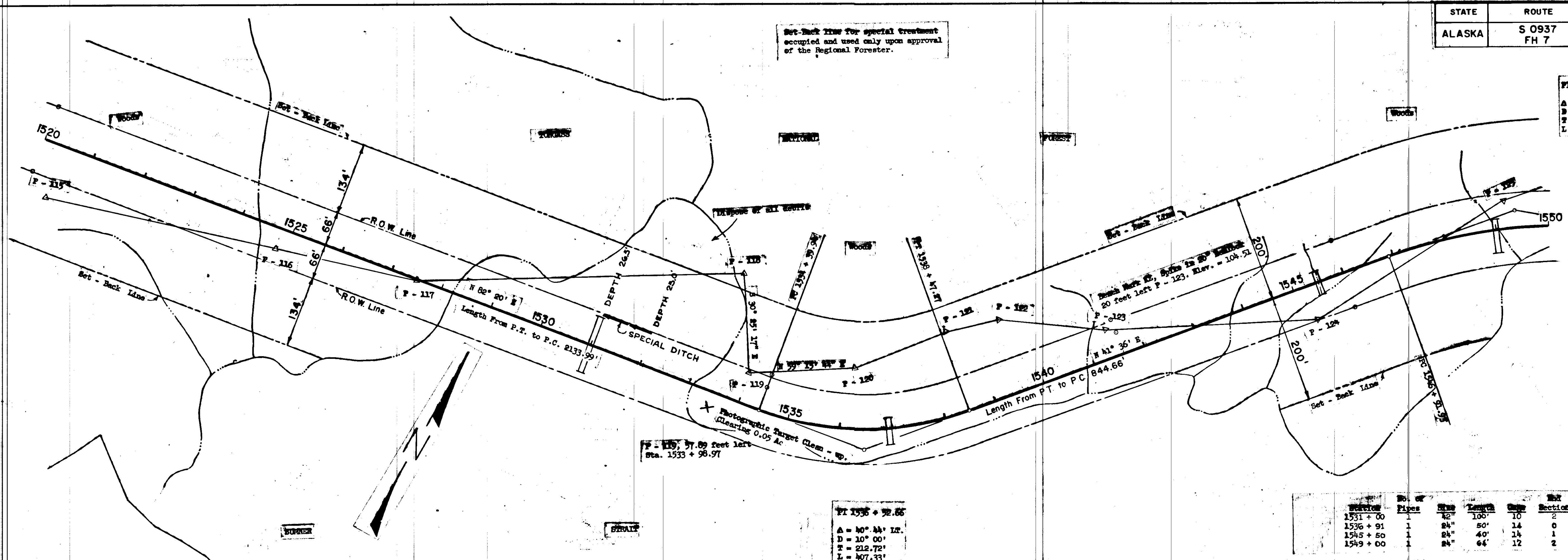
STATION	NO. OF PIPES	SIZE	LENGTH	GAGE	END SECTIONS	STRUCTURE EXCAVATION
1494+81	1	24"	66'	12	2	0 CY
1498+65	1	24"	54'	12	1	7 CY
1499+60	2	54"	50'	10	1	20 CY
1501+15	1	24"	44'	12	2	0 CY
1506+50	1	72" x 44"	34'	8	2	1 CY
1508+50	1	24"	42'	14	2	3 CY
1510+06	2	42"	56'	12	2	32 CY
1513+58	1	24"	52'	14	2	1 CY
1514+76	1	48"	52'	12	2	2 CY
1516+02	1	24"	94'	14	2	8 CY

BEVELED ENDS



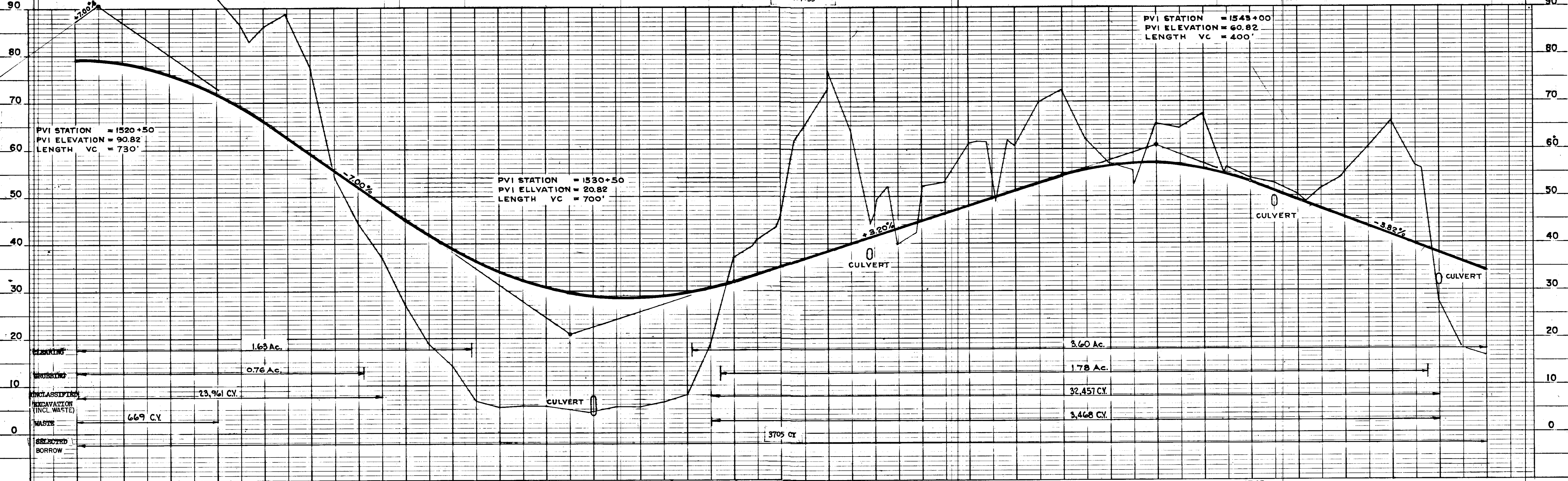
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	15	28

PT 1529 + 45.29
 A = 89° 43' RT.
 D = 6' 00"
 T = 253.36'
 L = 495.28'



PT 1536 + 92.66
 A = 40° 44' LT.
 D = 10' 00"
 T = 212.72'
 L = 407.33'

Station	No. of Pipes	Size	Length	Depth	No. Sections	Structure Excavation
1531 + 00	1	42"	100'	10"	2	32 Cy.
1536 + 91	1	24"	50'	14"	1	13 Cy.
1545 + 50	1	24"	40'	14"	1	16 Cy.
1549 + 00	1	24"	64'	12"	2	0 Cy.

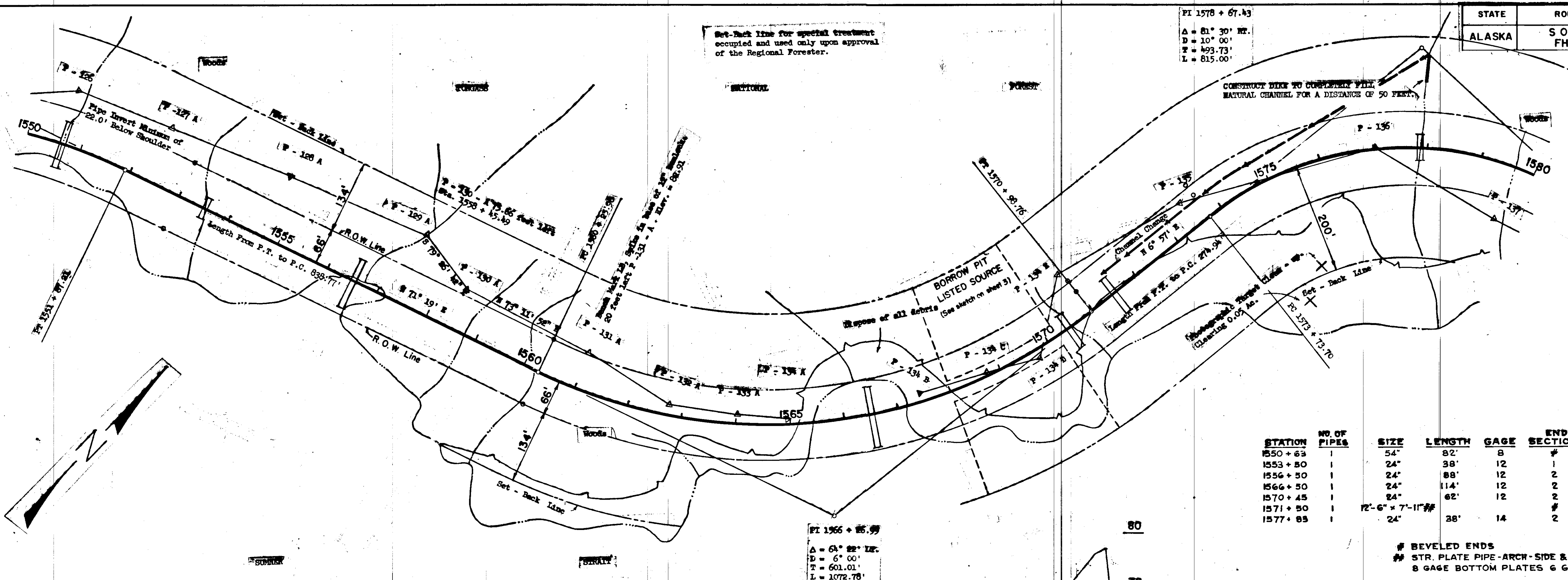


STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 B 2	1961	16	28

Set-Back line for special treatment occupied and used only upon approval of the Regional Forester.

PI 1578 + 67.43
 $\Delta = 81^\circ 30'$ RT.
 $D = 10^\circ 00'$
 $T = 493.73'$
 $L = 815.00'$

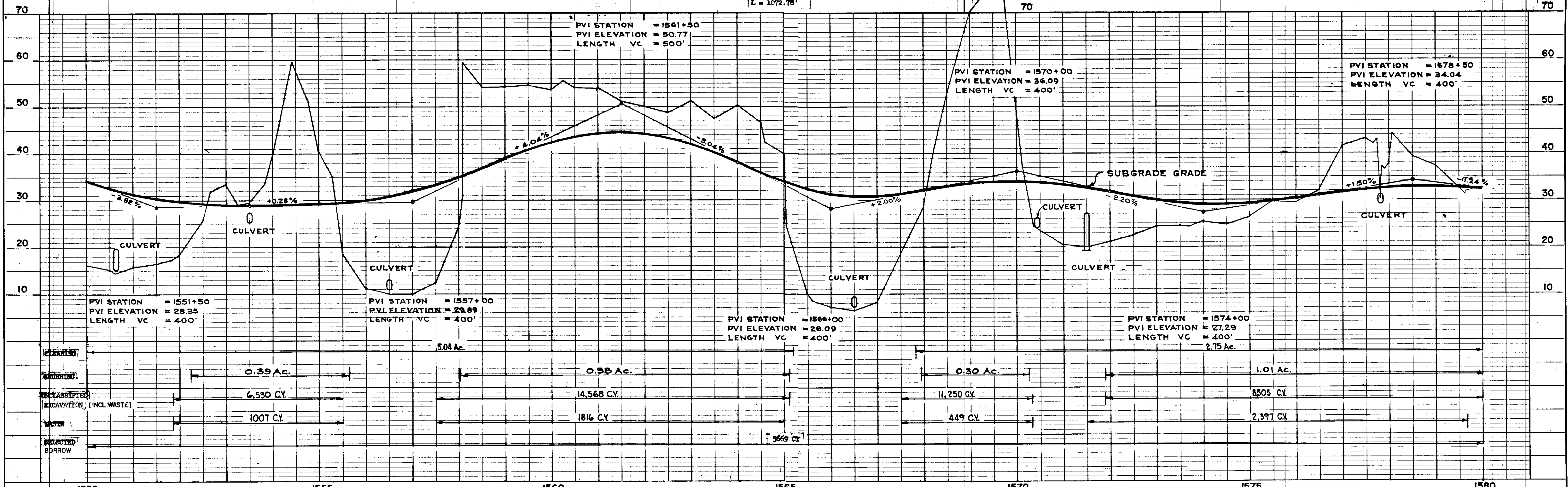
CONSTRUCT DIRT TO COMPLETELY FILL NATURAL CHANNEL FOR A DISTANCE OF 50 FEET.



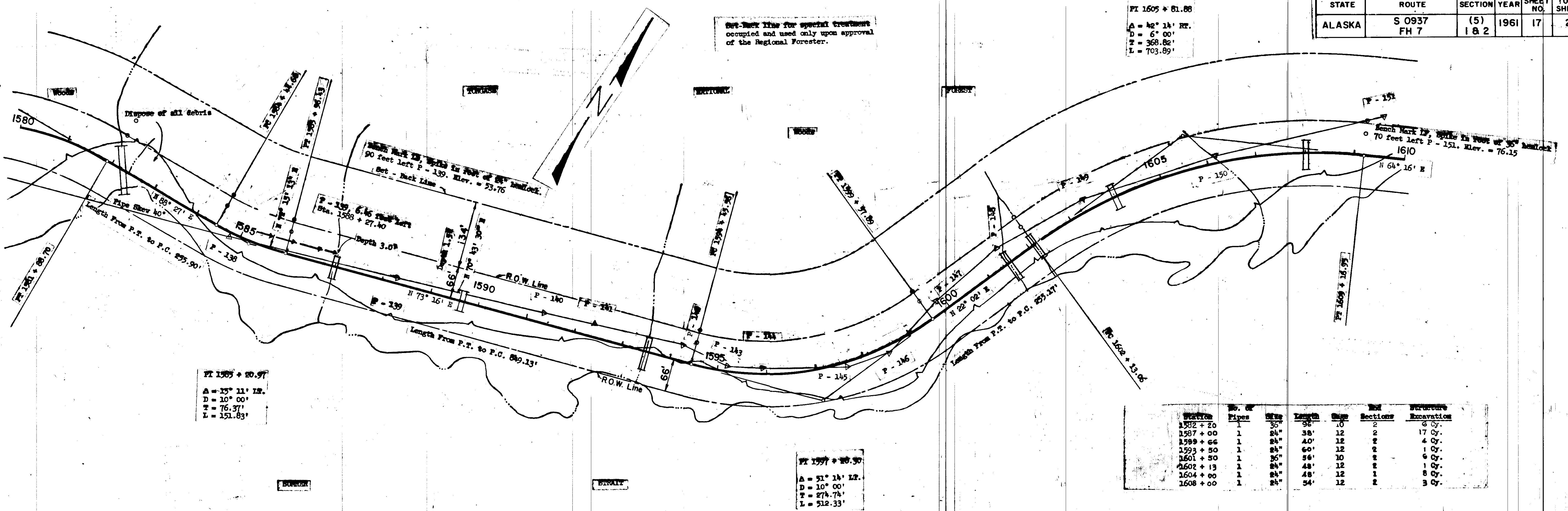
STATION	NO. OF PIPES	SIZE	LENGTH	GAGE	END SECTIONS	STRUCTURE EXCAVATION
1550 + 63	1	54"	82'	8	#	4 CY.
1553 + 50	1	24"	38'	12	1	12 CY.
1556 + 50	1	24"	88'	12	2	1 CY.
1566 + 50	1	24"	114'	12	2	0 CY.
1570 + 45	1	24"	62'	12	2	5 CY.
1571 + 50	1	12'-6" x 7'-11" #			#	13 CY.
1577 + 65	1	24"	38'	14	2	10 CY.

BEVELED ENDS
 ## STR. PLATE PIPE-ARCH-SIDE & TOP PLATES
 8 GAGE BOTTOM PLATES 6 GAGE

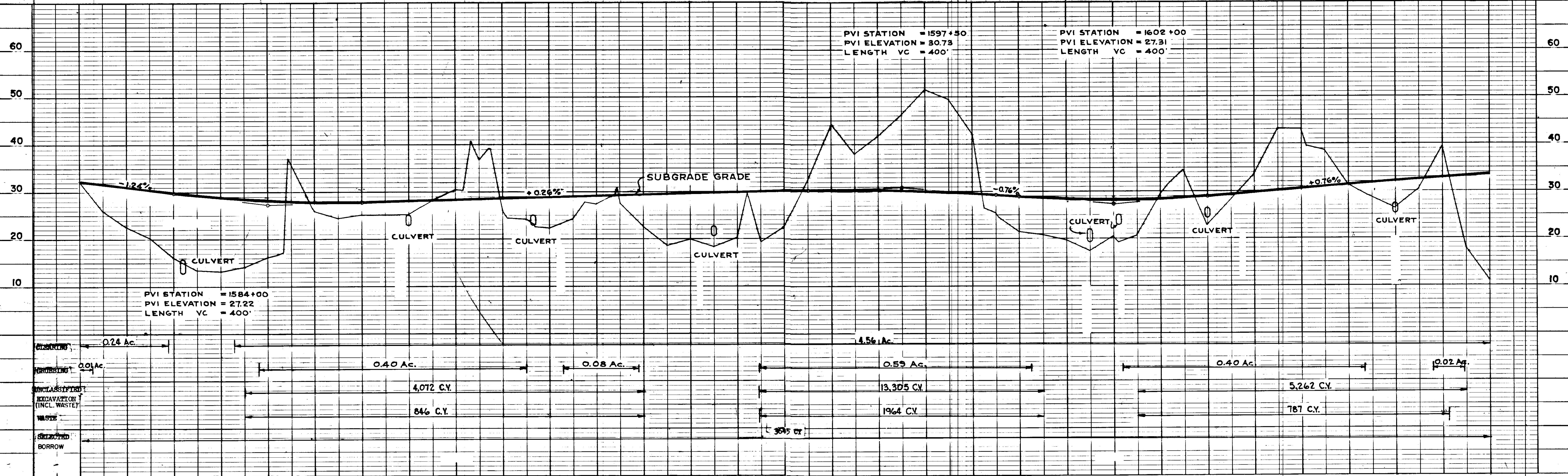
PI 1566 + 65.99
 $\Delta = 64^\circ 22'$ LT.
 $D = 6^\circ 00'$
 $T = 601.01'$
 $L = 1072.78'$



STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	17	28

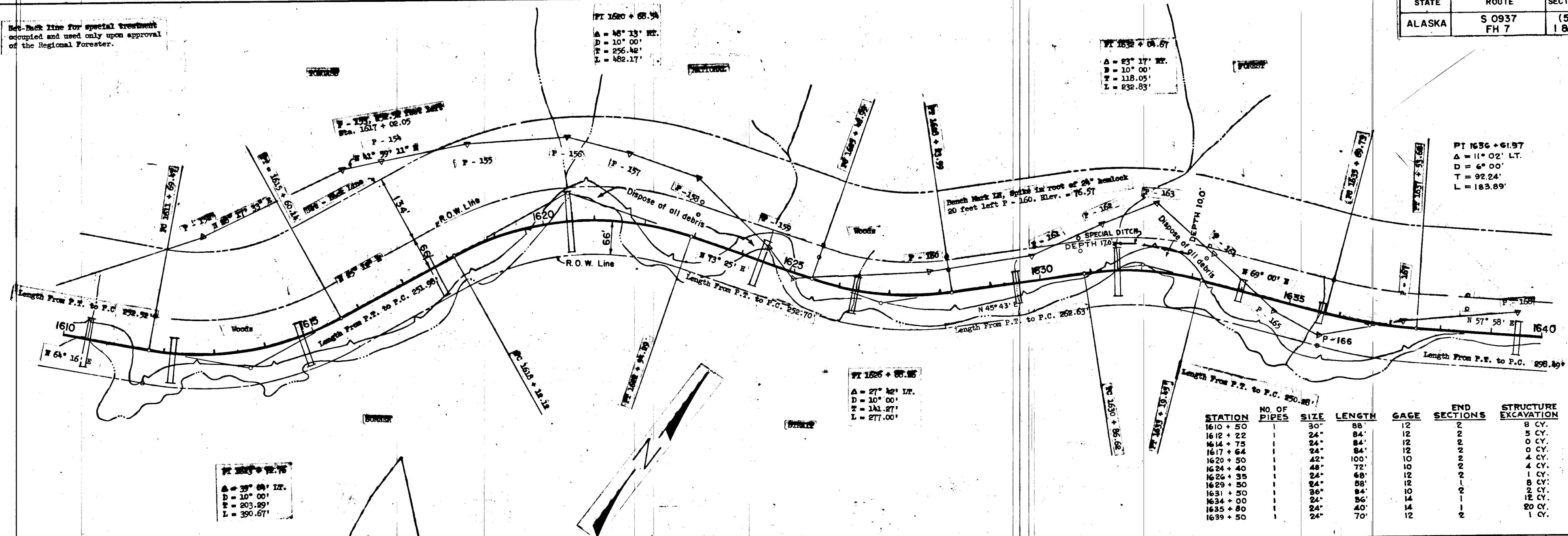


Station	No. of Pipes	Size	Length	Grade	Sections	Excavation
1582 + 20	1	36"	36'	10	2	6 Cy.
1587 + 00	1	24"	38'	12	2	17 Cy.
1589 + 66	1	24"	40'	12	2	4 Cy.
1593 + 50	1	36"	60'	12	2	1 Cy.
1601 + 50	1	36"	56'	20	2	6 Cy.
1602 + 13	1	24"	48'	12	2	1 Cy.
1604 + 00	1	24"	48'	12	1	8 Cy.
1608 + 00	1	24"	54'	12	2	3 Cy.

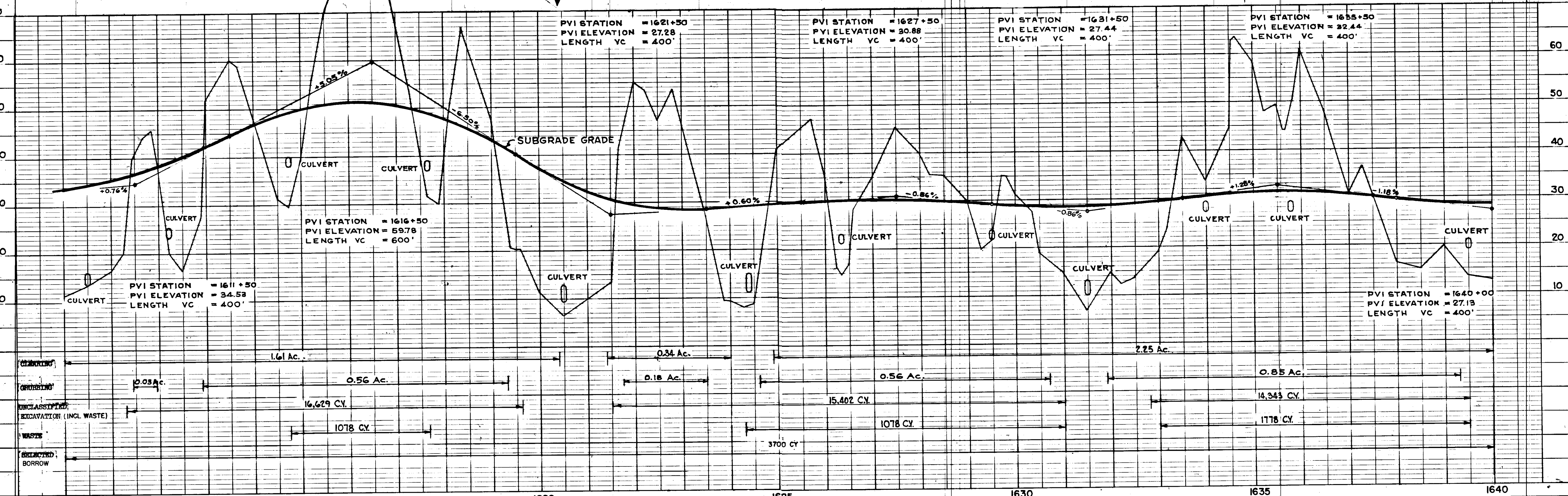


Set-back line for special treatment occupied and used only upon approval of the Regional Forester.

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0937 FH 7	(5) 1 & 2	1961	18	28



STATION	NO. OF PIPES	SIZE	LENGTH	GAGE	END SECTIONS	STRUCTURE EXCAVATION
1610 + 50	2	30"	88'	12	2	8 CY.
1612 + 22	2	24"	84'	12	2	5 CY.
1614 + 75	2	24"	84'	12	2	0 CY.
1617 + 64	2	24"	84'	12	2	0 CY.
1620 + 50	2	42"	100'	10	2	4 CY.
1624 + 40	2	48"	72'	10	2	4 CY.
1626 + 35	2	24"	68'	12	2	1 CY.
1629 + 50	2	24"	58'	12	2	8 CY.
1631 + 50	2	24"	84'	10	2	8 CY.
1634 + 00	2	24"	26'	14	1	12 CY.
1635 + 80	2	24"	40'	14	1	20 CY.
1639 + 50	2	24"	70'	12	2	1 CY.



Missing pages 21-28