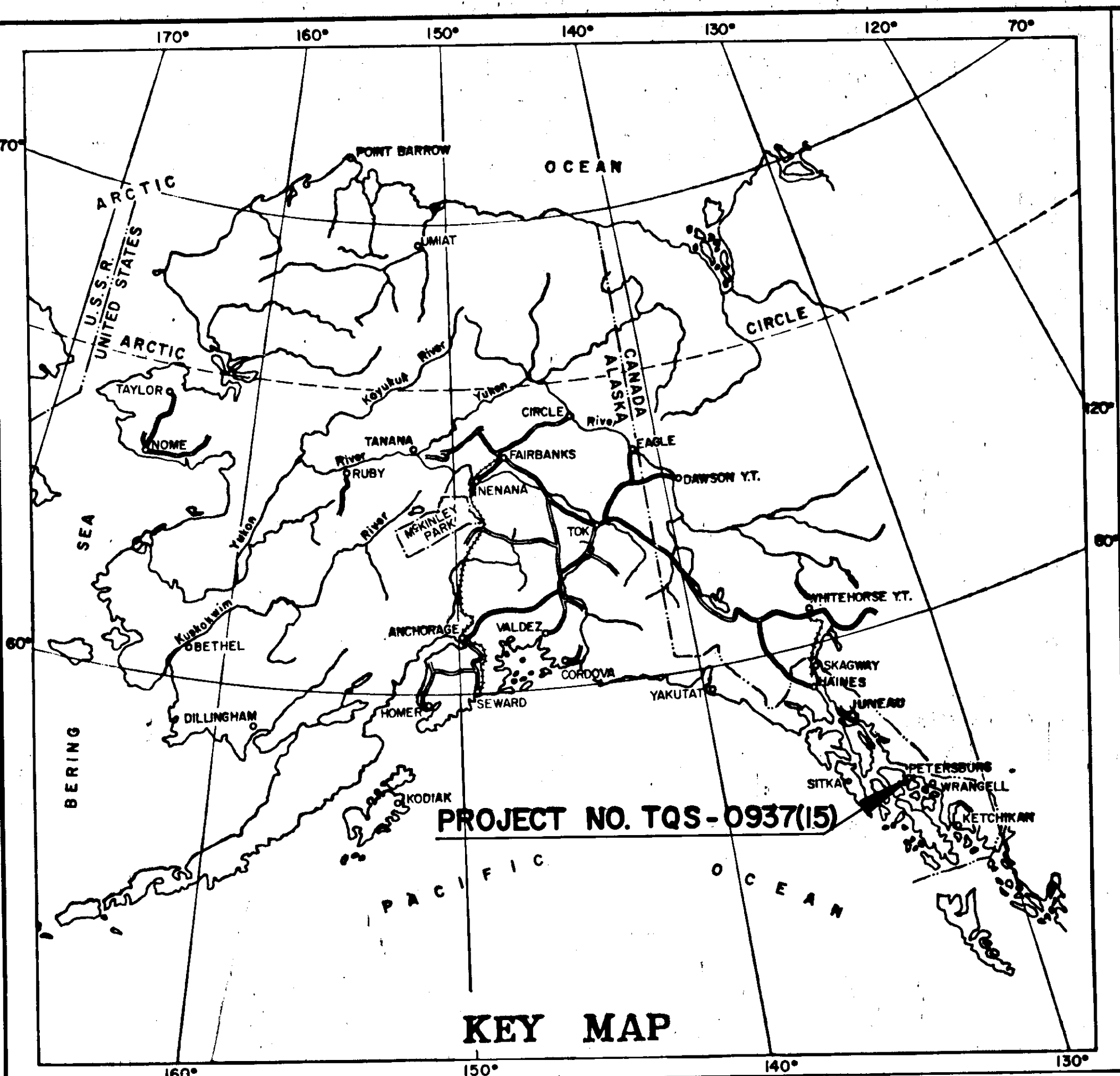


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	1	47



STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PLAN AND PROFILE

PROPOSED HIGHWAY PROJECT

TQS-0937 (15)

PETERSBURG THROUGH ROUTE, PHASE II

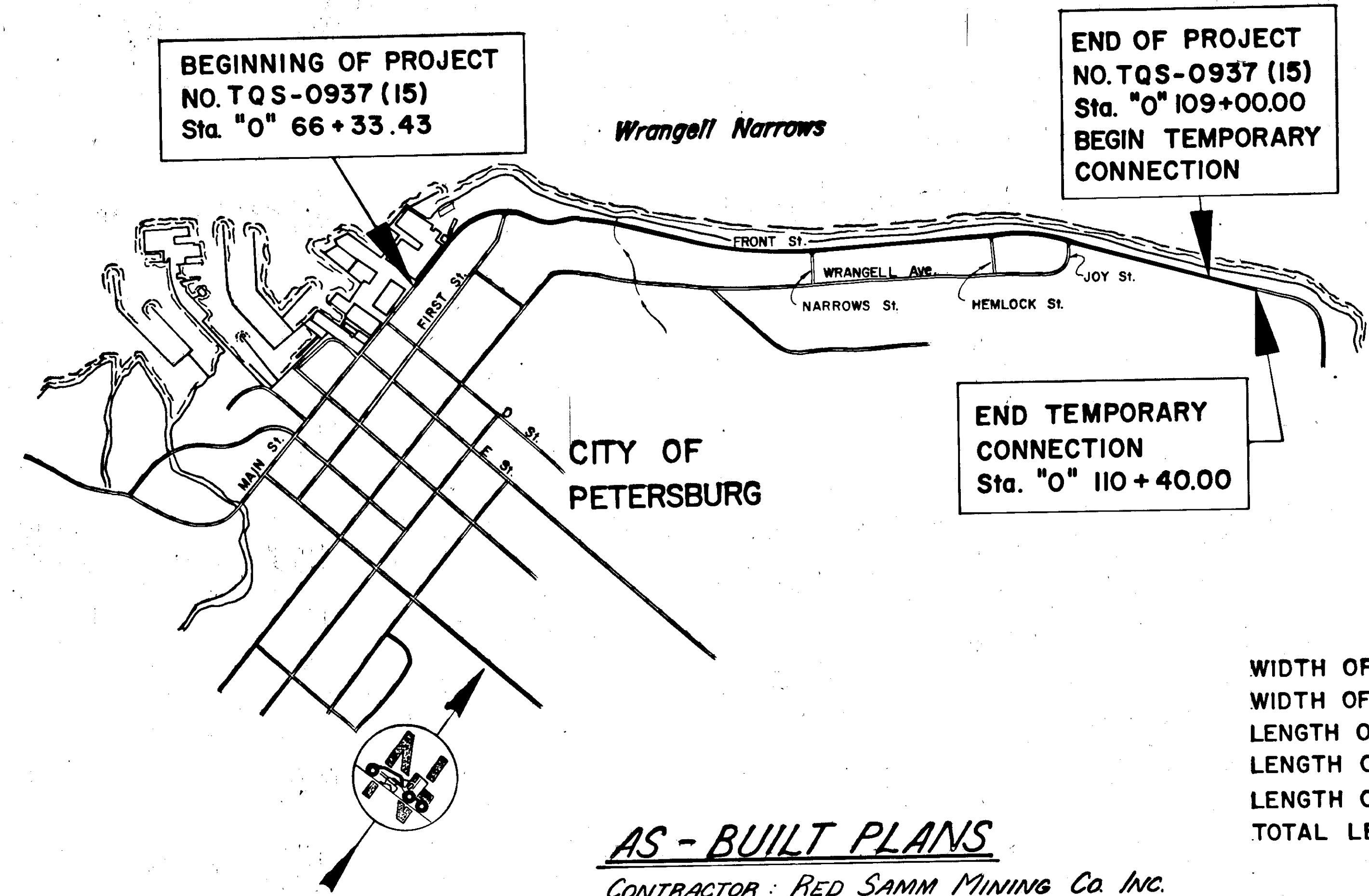
P.F.I. CANNERY TO PINE STREET

GRADING, DRAINAGE, & PAVING

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	Title Sheet
2	Typical Section Sheet
3-5	Estimate of Quantities & Summary Tables
6-14	Plan & Profile Sheets
15-18	Intersection Details
19	Retaining Wall Details
20-24	Retaining Wall Alternate A
25-29	Retaining Wall Alternate B
30-31	Drainage Details & Profile
32-40	Utilities Plan & Profile Sheets
41	Utilities Details
42-47	Miscellaneous Details

The following Standard Drawings apply to this project: A-1, B-04.00, B-05.00, C-00.04, C-10.01, C-11.02, D-02.02, D-06.10, D-20.10, D-23.01, D-24.12, D-26.01, E-09.00, G-04.13, G-04.31, G-13.10, G-14.02, I-20.01, I-40.10, I-80.00, L-03.11, L-10.13, L-20.03, L-23.03, L-30.01, M-01.00, M-05.00, M-16.03, S-00.10, S-05.00, S-20.10, S-30.11, T-20.03, T-21.02, T-22.00, U-03.00



DESIGN DESIGNATION

- ADT (1977) = 1980
- ADT (1997) = 3745
- DHV 12 % = 449
- D = 40-60%
- T = 5 %
- V = 35 MPH
- T.I. = 7

PROJECT SUMMARY

WIDTH OF SUBGRADE	45.5', 38', 30'
WIDTH OF PAVEMENT	43.5', 36', 28'
LENGTH OF GRADING	4266.57' - 0.8081 mi.
LENGTH OF PROJECT	4266.57' - 0.8081 mi.
LENGTH OF TEMPORARY CONNECTION	140.00' - 0.0265 mi.
TOTAL LENGTH OF PROJECT	4406.57' - 0.8346 mi.

AS-BUILT PLANS

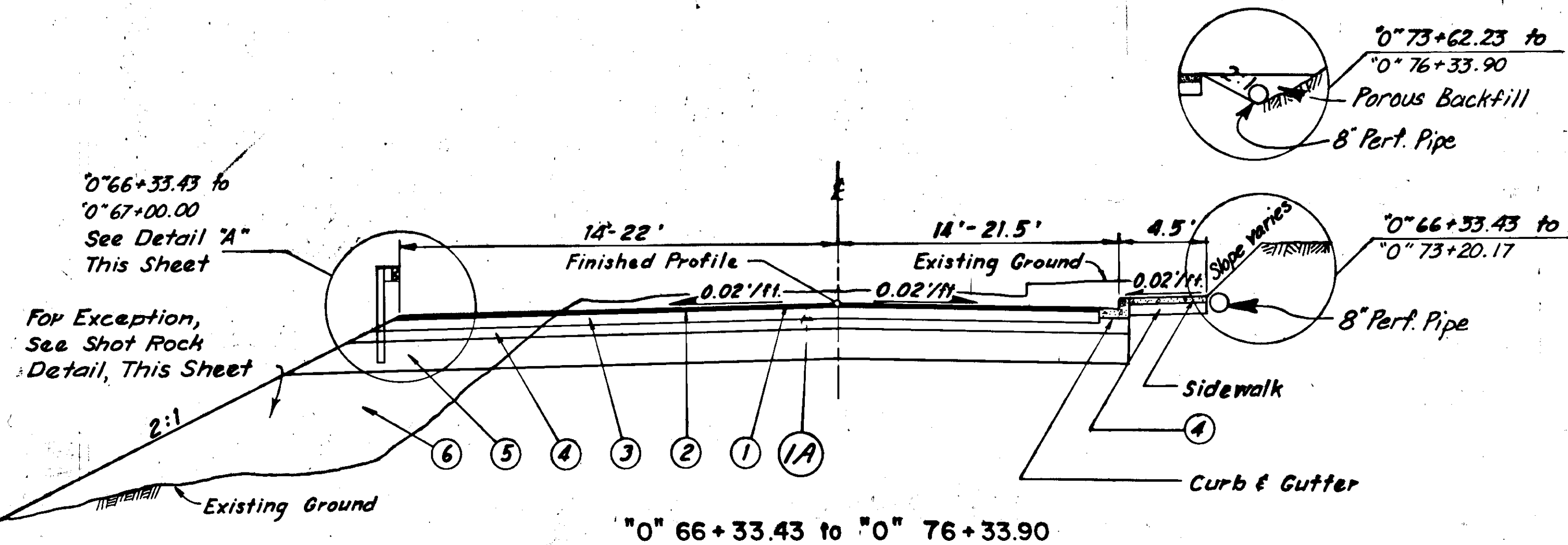
CONTRACTOR: RED SAMM MINING Co. INC.
PROJECT ENGINEER: JOHN R. EDWARDS
BEGINNING DATE: 10-31-77
COMPLETION DATE: 11-14-78

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS
APPROVED
[Signature] Date 4/7/77
REGIONAL ENGINEER

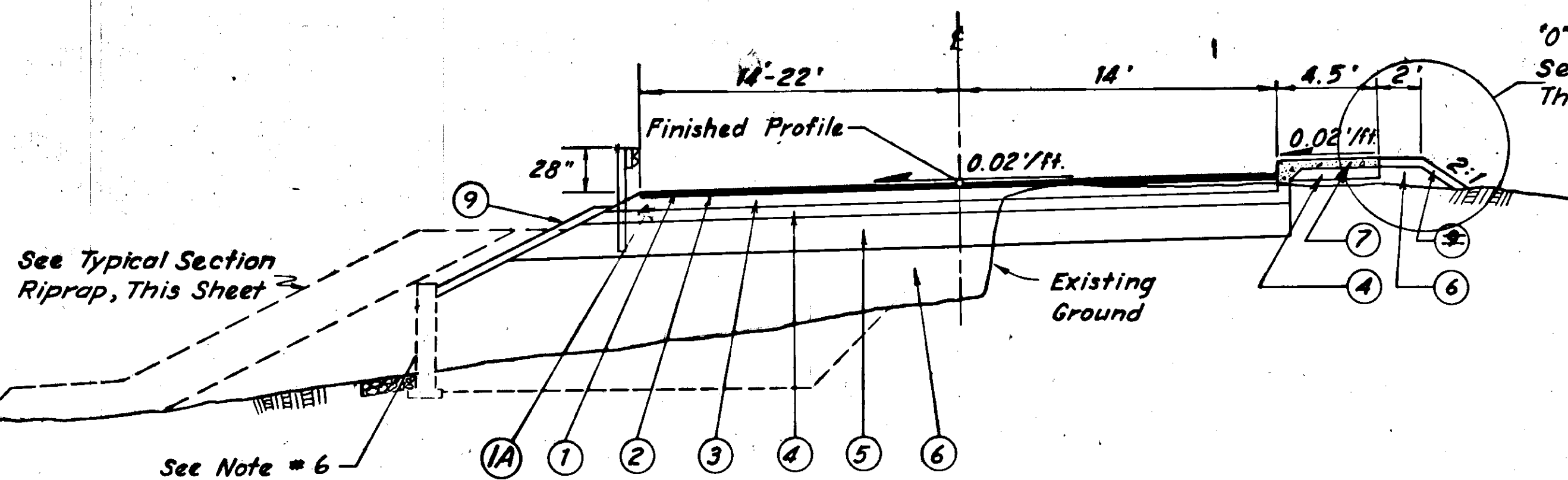
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DEPARTMENT OF HIGHWAYS
APPROVED
[Signature] Date 7/11/77
DEPUTY COMMISSIONER FOR
DESIGN & CONSTRUCTION

TYPICAL SECTIONS OF IMPROVEMENT

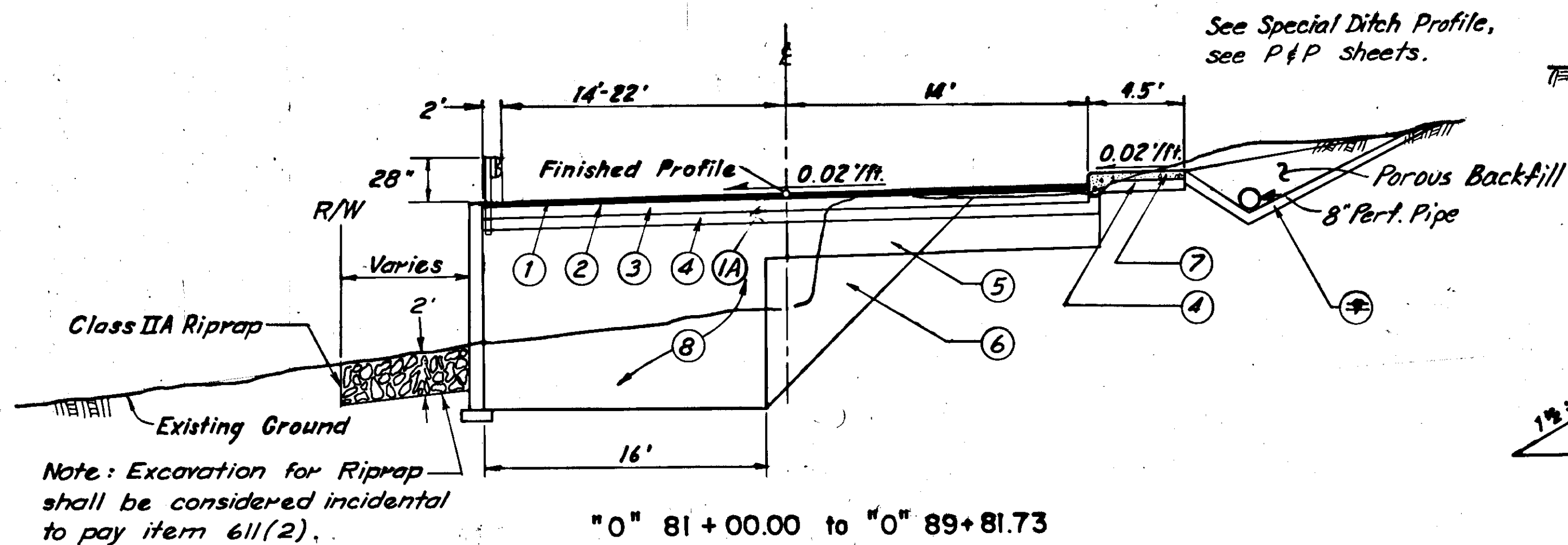
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	T&S-0937 (15)	1977	2	47



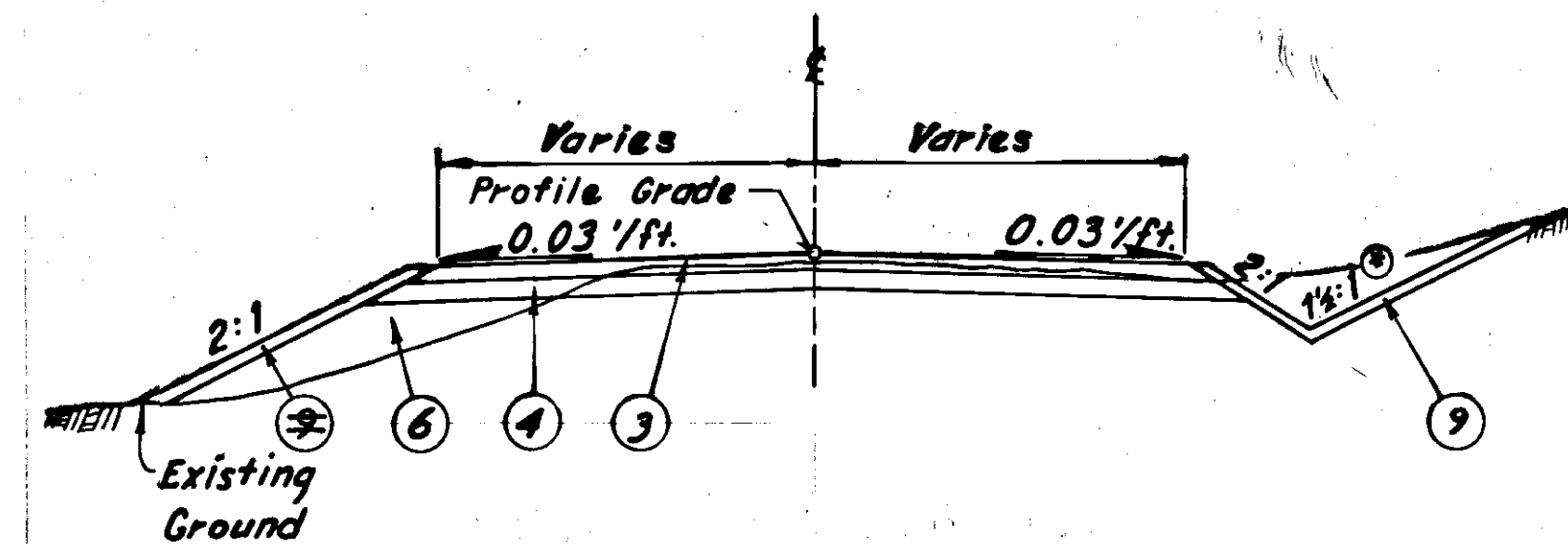
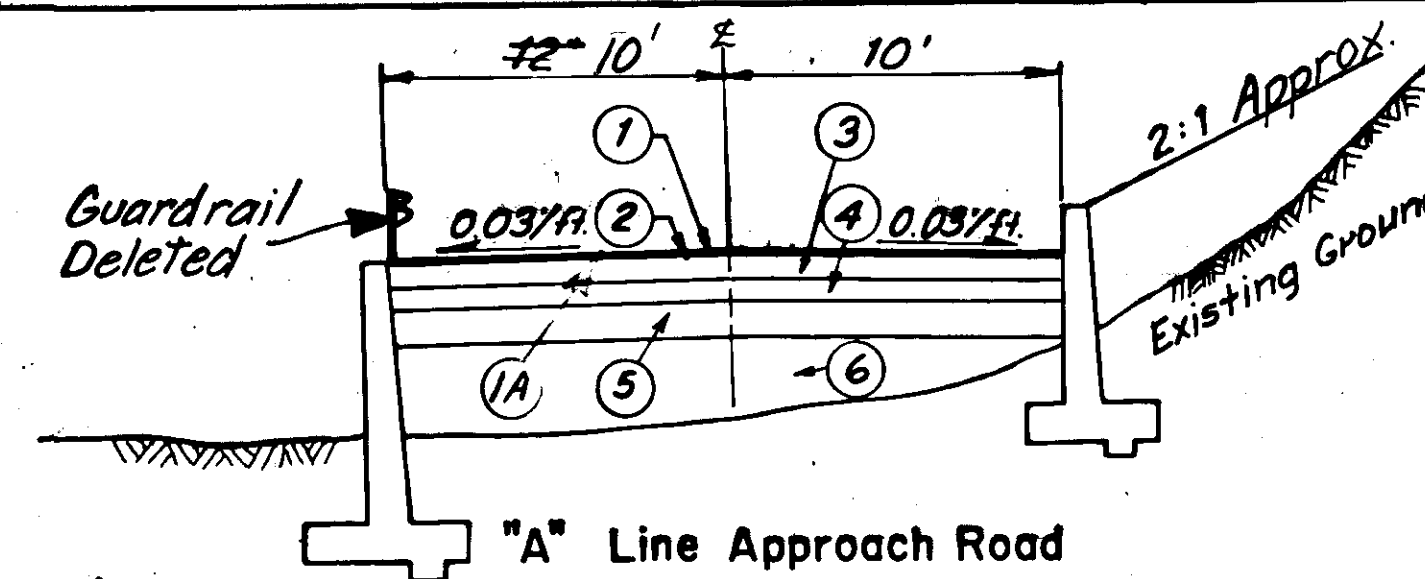
0+66+33.43 to 0+76+33.90



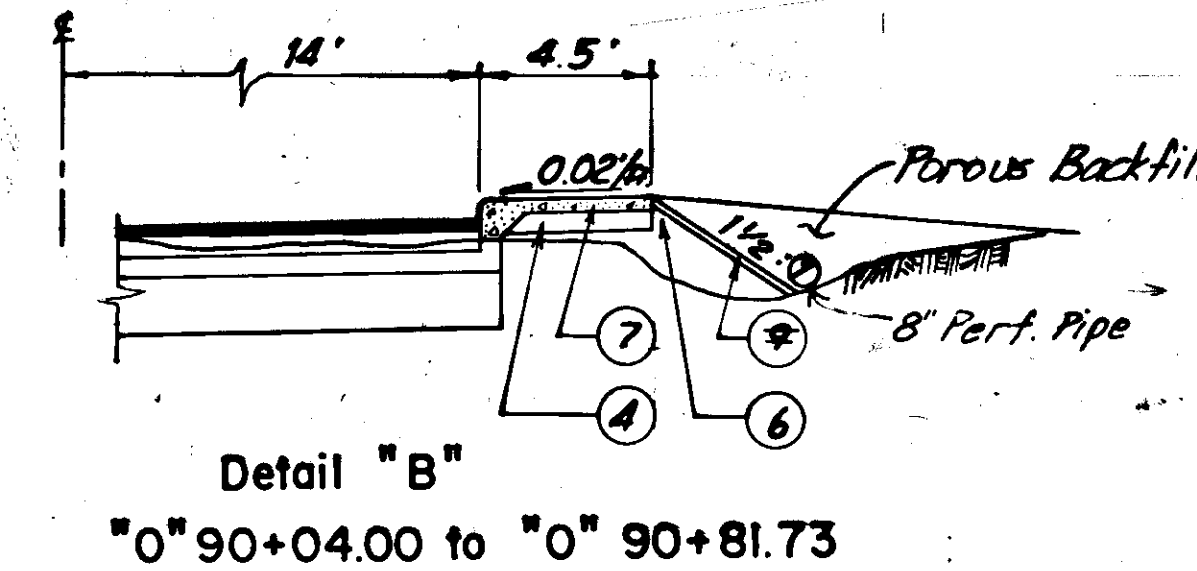
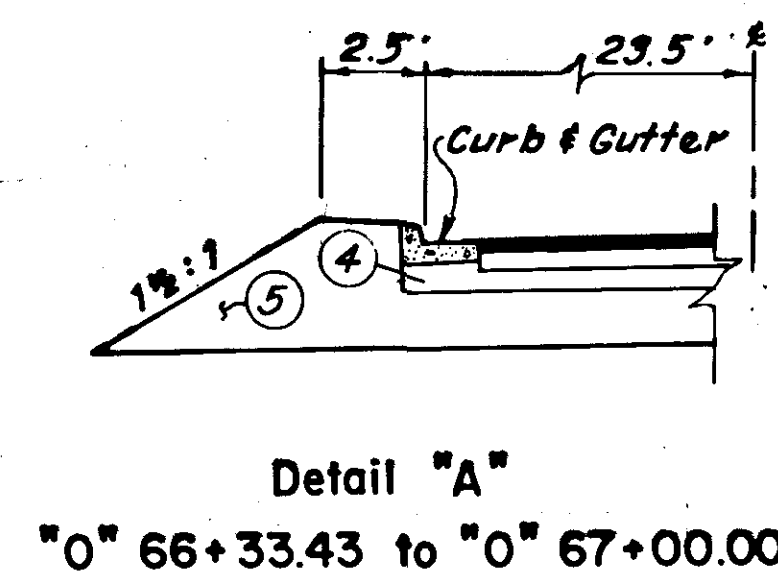
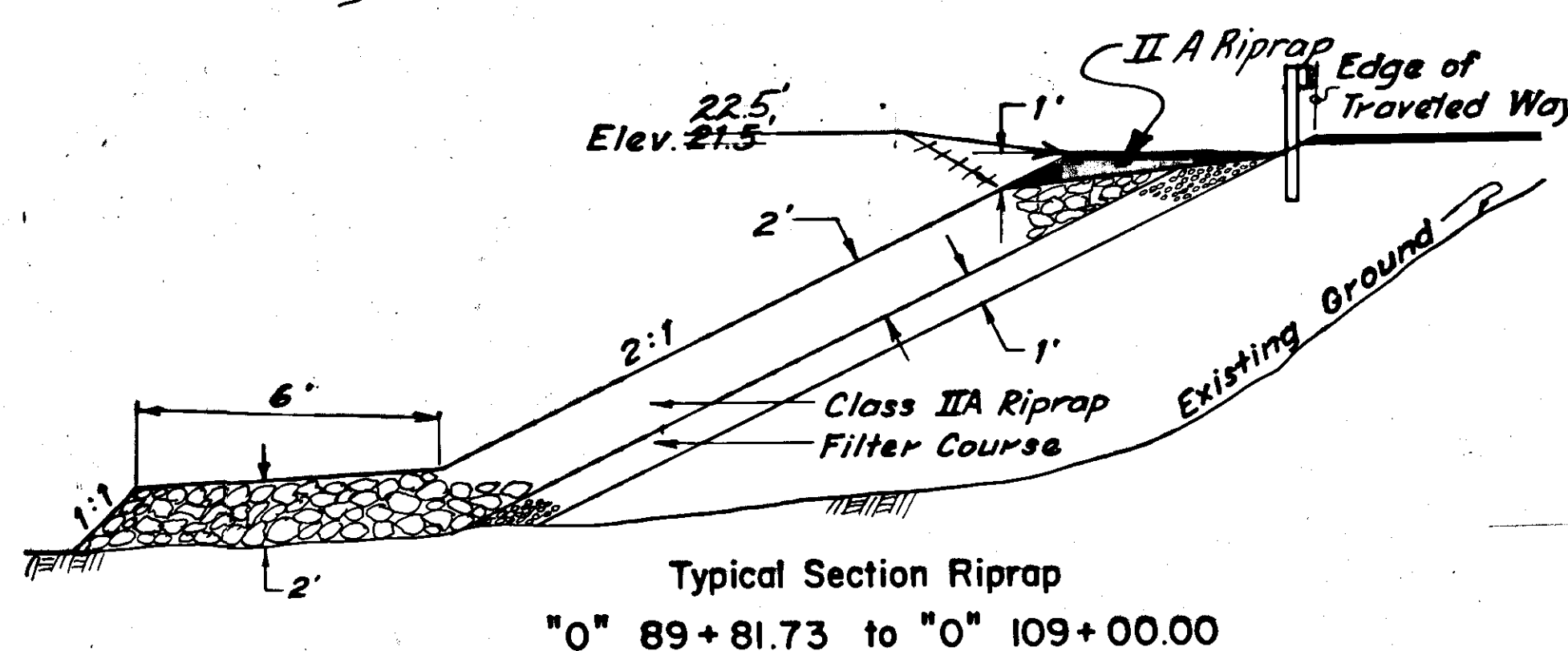
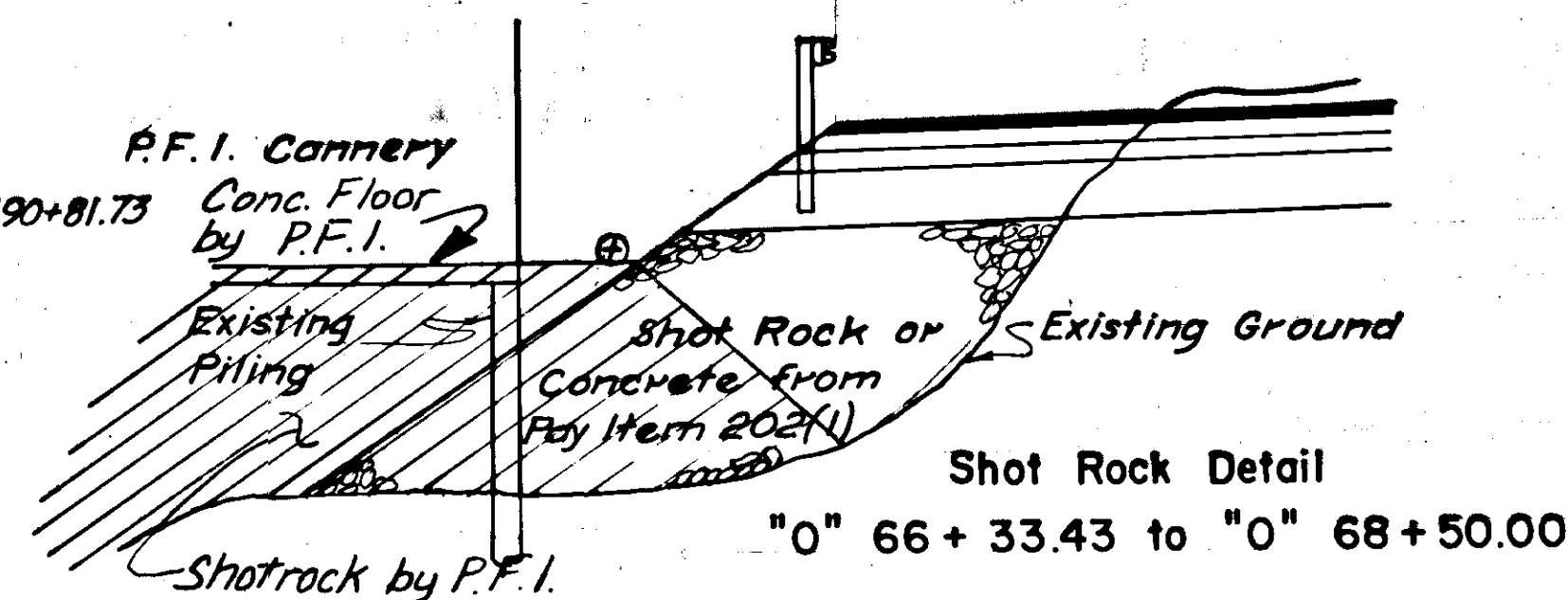
0+76+33.90 to 0+81+00.00
0+89+81.73 to 0+109+00.00



0+81+00.00 to 0+89+81.73



Approach Roads and Intersections
"B", "C", "D", & "E"



General Notes :

- Grades and alignment shown on the plans are subject to minor revisions.
- Storm inlets, culvert locations and lengths are subject to minor revisions.
- The clearing and grubbing limits shall be a neat line 15 feet beyond the construction limits or to the construction permit line, whichever is less.
- Topsoil and seeding will not be required on embankment slopes intersecting undeveloped beach areas.
- Piling, foundations and other appurtenances within the construction permit line and not specified to be removed shall be protected during construction by shoring, bracing, or other approved means. Such protection shall be incidental to other items of work.
- For location of retaining wall, see Plan and Profile sheets and Retaining Wall Detail sheets.
- Selected Material shall be paid for under Item 203(5B) Borrow.
- Regrade all existing approaches at curb cuts with subbase Grading "A" as directed by the engineer.
- No approach work will be required for curb cuts having no existing approach.
- Existing signs will be removed by others.
- All concrete walks and/or stairs to be reconstructed outside of the R/W shall be measured and paid for as 4" sidewalk. All concrete driveways shall be measured and paid for as 6" sidewalk.
- Where concrete stairs are required and are not indicated on the plans except as sidewalk to be replaced, they shall be field fit to give a suitable approach to the property owner and shall conform to Standard Drawing M-01.00.
- Sta. 0+66+33.43 to Sta. 0+68+50.00; Shot rock shall be paid for as pay item 203(5B).

LABELING INDEX

- 3" Hot Asphalt Pavement
- MC-30 Liquid Asphalt for Prime Coat
- 6" Crushed Aggregate Base Course
- 6" Subbase Grading A
- 18" Minimum Selected Material
- Useable Unclassified Excavation and/or Borrow
- Monolithic Curb and Sidewalk
- Selected Material
- 4" Topsoil and Seeding Class II

Or as directed by the engineer.

Slope varies: 1 1/2:1 from 0+66+33.43 to 0+68+00. From 0+68+00 to 0+68+50, slope transitions from 1 1/2:1 to 2:1.

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	3	47

ITEM NO.	ITEM	UNIT	SHEET NUMBERS																		TOTAL
			6	7	8	9	10	11	12	13	14	32	33	34	35	36	37	38	39	40	
1	Furnishing and Maintaining Engineering Facilities	L. S.																			All Req'd
110(1)	Mobilization	L. S.																			All Req'd
111(1)	Temporary Erosion and Pollution Control	C. S.																			All Req'd
112(1)	Training	C. S.																			All Req'd
115(1)	Traffic Maintenance	L. S.																			All Req'd
201(3B)	Clearing and Grubbing	L. S.																			All Req'd
202(1)	Removal of Structures and Obstructions	L. S.																			All Req'd
202(3)	Removal of Sidewalk	Sq. Yd.	178	63																	~~241~~ 231
202(4)	Removal and Disposal of Culvert Pipe	L.F.			240	72	278	242	208	84	36										~~1,160~~ 717
401(4)	Anti Stripping Additive	C. S.																			All Req'd.
203(3)	Unclassified Excavation	Cu. Yd.	1827	1252	897	850	766	867	999	452	44										~~7,954~~ 2,861
203(5B)	Borrow	Ton	5182	5859	11803	14019	6204	6323	4524	4172	1262										~~59,348~~ 39,544
301(1)	Crushed Aggregate Base Course	Ton	649	534	599	681	681	689	602	520	107										~~5,062~~ 5,588
304(1)	Subbase Grading A	Ton	624	963	742	849	879	851	744	675	191										~~6,518~~ 2,028
401(1)	Hot Asphalt Pavement Class II	Ton	275	230	288	368	389	333	302	290	110										~~2,585~~ 3,615.5
401(2)	AC-5 Asphalt Cement	Ton	16.5	13.8	17.3	22.1	23.3	19.9	18.1	17.4	6.6										~~155.8~~ 171.52
403(1)	MC-30 Liquid Asphalt for Prime Coat	Ton	1.4	1.6	1.7	2.1	2.3	1.9	1.8	1.7	0.6										~~15.1~~ 14.15
501(1)	Class A Concrete	L. S.	All Req'd.	All Req'd.																	All Req'd
506 (2)	Treated Timber	MBM	0.440		0.244	0.652	1.452	1.277													~~4.065~~ 3,259
509 (1)	Retaining Wall (Rubble Masonry)	L. S.		All Req'd.																	All Req'd.
603(22C)	12" Pipe Conduit	L.F.			64	56	70	224	52	66	26										~~558~~ 572
603(22E)	18" Pipe Conduit	L.F.	155	93	37																~~285~~ 280
603(22G)	24" Pipe Conduit	L.F.	152		173	84	146	224	162	172	54										~~1,167~~ 1,168
603(22K)	48" Pipe Conduit	L.F.				60															~~48~~ 54
603(28)	End Section for 48" Pipe Conduit	Ea.				1															1
604(3)	Reconstruct Existing Manholes	Ea.										1	2	2	3	2	1	1	2	1	15
604(4)	Adjust Existing Manholes	Ea.										3	1	1		1		2			~~6~~ 6
604(5)	Inlet Type A	Ea.	6	1	2			1													~~10~~ 10
606(1)	Beam Type Guardrail Type I Post	L.F.	313	340	452.5	616	595	596	525	500	233.5										~~4,171~~ 4,150
608(1A)	Concrete Sidewalk 4" Depth	Sq. Yd.	141	181	79																~~401~~ 410.5
608(1B)	Concrete Sidewalk 6" Depth	Sq. Yd.			25																~~25~~ 24
608(1C)	Monolithic Curb and Sidewalk 4" Depth	Sq. Yd.			133	253	228	204	163	164	40										~~1,185~~ 1,097.5
608(1D)	Monolithic Curb and Sidewalk 6" Depth	Sq. Yd.			25	60	50	96	68	58	10										~~367~~ 451.3
609(2)	Standard Curb and Gutter	L.F.	381	408	234																~~1,023~~ 1,012
611(2)	Riprap, Class IIA	Ton			300	694	1218	1878	2093	1370	333										~~7,886~~ 8,340
611(3)	Filter Course	Ton					205	621	669	419	113										~~2,021~~ 2,598
614(1)	Survey Monuments	Ea.	3	2	3	2	1		1	1	1										14
614(2)	Monument Cases	Ea.	3	2	3	2	1		1	1	1										14
615(1)	Standard Sign	Sq. Ft.	5.00	13.35	3.00	1.50	11.25	4.50	14.15	19.55	14.00										86.30
618(1)	Seeding	MSF	11.38	12.72	20.79	5.54	4.39	3.95	4.65	3.45	3.05										~~69.92~~ 0
618(2)	Watering for Maintenance	M. Gal																			~~4.37~~ 0
627(1)	Watering	M. Gal																			~~66.77~~ 29.56
618(1A)	Seeding (E.W.O. #1)	M.S.F.																			8.07
402(2)	CSS-1 Emulsified Asphalt for Tack Coat (E.W.O. #4)	Ton																			3.89
506(2A)	Field Treated Timber (E.W.O. #8)	M.F.B.M.																			5.489
604(1)	Storm Sewer Manhole (E.W.O. #13)	Ea.																			1
606(1A)	Additional Type I Guardrail Posts (E.W.O. #14)	Ea.																			48
501(1B)	Concrete Stairs (E.W.O. #15)	L.S.																			All Req'd.
605(3)	8" Perforated Pipe Underdrain (E.W.O. #16)	L.F.																			158
605(3A)	6" P.V.C. Pipe Underdrain (E.W.O. #16)	L.F.																			52
605(3D)	Ditch Regrading & Drainage Modifications (E.W.O. #17)	L.S.																			All Req'd
109(2)	Misc. Repair Work (E.W.O. #18)	L.S.																			All Req'd
635(1)	Insulation Board	MBM										4.27	1.44								~~5.71~~ 4.32
660(3)	Highway Lighting System Complete	L. S.																			All Req'd.
670(1)	Painted Traffic Markings	L. S.																			All Req'd.
671(1A)	Sidewalk Design (Design A)	Block	63.05	75.43	0.52		10		10	10											~~169~~ 168
671(1B)	Sidewalk Design (Corner)	Cor. Block		2			2		2	2											8
671(1C)	Sidewalk Design (Design B)	Block				5															5
	Alternative "A"																				
508(1)	Retaining Wall (Reinforced Earth)	S.F. L.S.			4627.9	8066.0	2800.3														~~15,494~~ All Req'd. (E.W.O. #2)
	Alternative "B"																				
501(1)	Class A Concrete	L. S.			All Req'd.	All Req'd.	All Req'd.														~~All Req'd.~~ Deleted (E.W.O. #2)

BASIS OF ESTIMATE	
Item	Factor
203 (5B)	1.80 Tons / Cu. Yd.
301 (1)	1.96 Tons / Cu. Yd.
304 (1)	1.87 Tons / Cu. Yd.
401 (1)	112 lb. / Sq. Yd. / In. Depth
401 (2)	6% of 401 (1)
403 (1)	0.25 Gal. / Sq. Yd., 256 Gal. / Ton
611 (2)	1.90 Ton / Cu. Yd.
611 (3)	1.80 Ton / Cu. Yd.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQ5 - 0937 (15)	1977	3A	47

SUPPLEMENTAL WORK			ESTIMATE OF QUANTITIES																		
ITEM NO.	ITEM	UNIT	SHEET NUMBER																	TOTAL	
			32	33	34	35	36	37	38	39	40										
SCHEDULE "A"																					
628(2A)	6" Ductile Iron Pipe	L.F.	00	37	00	00	30	00	32	30	00										129
628(2B)	8" Ductile Iron Pipe	L.F.	357	398	553	628	609	603	525	500	100										4,273
628(6)	Fire Hydrant Installation	Ea.	1		1	1	1	1	1	1											7
628(8)	Fire Hydrant Removal	Ea.	1		1		1	1	1	1											6
628(9A)	3/4" Water Service Connection	Ea.	4	3	7	8	7	8	6	1	1										45
628(9B)	2" Water Service Connection	Ea.		1							2										3
628(9C)	4" Water Service Connection	Ea.	1																		1
628(9D)	6" Water Service Connection	Ea.																			1
628(10A)	Install 6" Gate Valve	Ea.		1				1	1												4
628(10B)	Install 8" Gate Valve	Ea.	1	2		1	1		1	1											8
628(4)	Install Valve Box	Ea.																			12
SCHEDULE "B"																					
628(3A)	Removal & Salvage of 6" D.I. Pipe (E.W.O.#19)	L.F.																			716
628(2A)	6" Ductile Iron Pipe	L.F.	357	435	553	528	402	160	539	498	100										3,572
628(6)	Fire Hydrant Installation	Ea.	1		1	1	1	1	1	1											7
628(8)	Fire Hydrant Removal	Ea.	1		1		1	1	1	1											6
628(9A)	3/4" Water Service Connection	Ea.	4	3	7	5	5	2	6	1	1										34
628(9B)	2" Water Service Connection	Ea.		1							2										3
628(9C)	4" Water Service Connection	Ea.	1																		1
628(9D)	6" Water Service Connection	Ea.	1																		1
628(10A)	Install 6" Gate Valve	Ea.	1	3		1	1		2	2	1										11
* Schedule "A" & "B" will each contain pay Items 110(1), 114(1), & 115(1) Lump Sum, All Req'd.																					
109(1)	Sewer Service Repairs (E.W.O.#10)	L.S.																			All Required

130
4,284

46
2
0

* Schedule "A" & "B" will each contain pay Items 110(1), ~~114(1)~~, & 115(1) Lump Sum, All Req'd.

SUPPLEMENTAL WORK
SCHEDULE "B" SEE SCHEDULE "A" SHEET 5

WATER MAIN APPURTENANCES					
STATION	OFFSET	REMARKS	STATION	OFFSET	
"As Bilt." 66+32	11' Rt.	Install 6" Gate Valve/Valve Box	"0" 85+48	16' Rt.	Install 3/4" Water Service
"0" 66+52	12' Rt.	Install 3/4" Water Service	"0" 86+53	15' Rt.	Install 3/4" Water Service
"0" 66+97	12' Rt.	Install 4" Water Service	"0" 87+40	14' Rt.	Install 3/4" Water Service
"0" 67+43	10' Rt.	Install 3/4" Water Service	"0" 88+01	13' Rt.	Install 3/4" Water Service
"0" 67+45	10' Rt.	Install 3/4" Water Service	"0" 88+59	12' Rt.	Install 3/4" Water Service
"0" 68+72	2' Rt.	Install 6" Water Service	"0" 89+43	16' Rt.	Install 3/4" Water Service
"0" 69+34	4' Rt.	Install 3/4" Water Service	"0" 89+57	17' Rt.	Install 6" Gate Valve/Valve Box
"0" 71+08	17' Rt.	Install 3/4" Water Service	"0" 96+85	9' Rt.	Install 3/4" Water Service
"0" 71+13	17' Rt.	Install 6" Gate Valve/Valve Box	"0" 97+21	9' Rt.	Install 3/4" Water Service
"0" 72+42	14' Rt.	Install 3/4" Water Service	"0" 97+95	8' Rt.	Install 3/4" Water Service
"0" 72+50	14' Rt.	Install 2" Water Service	"0" 98+50	7' Rt.	Install 3/4" Water Service
"0" 73+53	14' Rt.	Install 6" MJ x 6" MJ x 6" Flange Tee with 6" GV/VB	"0" 99+28	7' Rt.	Install 6" Gate Valve/Valve Box
"0" 73+56	14' Rt.	Install 6" Gate Valve/Valve Box	"0" 99+62	7' Rt.	Install 6" MJ x 6" MJ x 6" Flange Tee with 6" GV/VB
"0" 73+75	15' Rt.	Install 3/4" Water Service	"0" 100+15	7' Rt.	Install 3/4" Water Service
"0" 74+11	13' Rt.	Install 3/4" Water Service	"0" 100+76	8' Rt.	Install 3/4" Water Service
"0" 74+55	11' Rt.	Install 3/4" Water Service	"0" 101+58	4' Rt.	Install 3/4" Water Service
"0" 75+43	13' Rt.	Install 3/4" Water Service	"0" 101+59	4' Rt.	Install 150 Elbow
"0" 76+41	13' Rt.	Install 3/4" Water Service	"0" 102+29	14' Rt.	Install 3/4" Water Service
"0" 77+25	17' Rt.	Install 3/4" Water Service	"0" 103+38	19' Rt.	Install 6" Gate Valve/Valve Box
"0" 77+27	17' Rt.	Install 150 Elbow	"0" 103+42	20' Rt.	Install 3/4" Water Service
"0" 78+11	13' Rt.	Install 3/4" Water Service	"0" 103+88	22' Rt.	Install 6" MJ x 6" MJ x 6" Flange Tee with 6" GV/VB
"0" 78+65	15' Rt.	Install 3/4" Water Service	"0" 105+18	19' Rt.	Install 2" Water Service
"0" 79+59	13' Rt.	Install 3/4" Water Service	"0" 107+43	17' Rt.	Install 2" Water Service
"0" 81+21	12' Rt.	Install 6" Gate Valve/Valve Box	"0" 108+61	16' Rt.	Install 3/4" Water Service
"0" 81+80	12' Rt.	Install 3/4" Water Service	"0" 109+00	13' Rt.	Install 6" Gate Valve/Valve Box
"0" 82+70	14' Rt.	Install 3/4" Water Service			
"0" 84+83	16' Rt.	Install 3/4" Water Service			

SUPPLEMENTAL WORK		
WATER MAIN PIPE SIZES AND LOCATIONS		
STATION		SIZE
FROM	TO	
Schedule "A"		
"0" 66+33.43	"0" 109+00.00	8" Ductile Iron Pipe
Schedule "B"		
"0" 66+33.43	"0" 83+47.00±	6" D.I. Pipe
"0" 84+47.00±	"0" 89+68.00±	" " " "
"0" 96+18.00±	"0" 102+82.00±	" " " "
"0" 103+82.00±	"0" 109+00.00	" " " "

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQ S-0937 (15)	1977	4	47

SUMMARY TABLES

EXISTING MANHOLES

Station	Offset	Remarks
AsBlt 66+15	24' Lt.	Adjust Exist. Manhole
"0" 66+38	29' Lt.	Adjust Exist. Manhole
"0" 69+12	16' Lt.	Adjust Exist. Manhole
"0" 69+22	53' Lt.	Reconst. Exist. Manhole
"0" 70+72-24	39' Lt. 32.5'	Reconst. Exist. Manhole
"0" 71+24-25	5' Rt. 7'	Reconst. Exist. Manhole
"0" 73+51	10' Rt.	Adjust Exist. Manhole #
		Relocate Sewer Vent
"0" 74+90-87	4' Rt. 6'	Reconst. Exist. Manhole
"0" 77+30-29	13' Rt.	Reconst. Exist. Manhole
"0" 79+48	6' Rt.	Adjust Exist. Manhole
"0" 80+09-25	7' Rt. 9'	Reconst. Exist. Manhole
"0" 80+27-21	8' Rt. 9'	Reconst. Exist. Manhole
"0" 83+97-96	13' Rt. 16.5'	Reconst. Exist. Manhole
		Reconst.
"0" 85+97-92	11' Rt. 16.5'	Adjust Exist. Manhole
"0" 89+92	10' Rt.	Reconst. Exist. Manhole
"0" 89+92-95	20' Rt. 2.7'	Reconst. Exist. Manhole
"0" 94+40	10' Rt. 12.5'	Reconst. Exist. Manhole
"0" 99+32	9' Rt. 11'	Adjust Exist. Manhole
"0" 99+58	9' Lt. 1.8'	Adjust Exist. Manhole
"0" 101+54-59	4' Lt.	Reconst. Exist. Manhole
"0" 103+67	11' Rt.	Reconst. Exist. Manhole
"0" 106+04-09	2' Lt. 1.5'	Reconst. Exist. Manhole
"0" 108+20	12' Rt. 13'	Reconst. Exist. Manhole

PIPE CONDUIT SUMMARY

Station	Drive-way	Pipe Length			No. of Pipes	Slope	Skew Angle	Remarks
		18	24	48				
"AsBlt" 66+06.16	44	40				2.00%	1.62%	P-1
"0" 66+45		44			1	0.95%	3.28%	P-2
"0" 66+45		8			1	6.25%	6.09%	P-3
"0" 66+45		6			1	3.33%		P-4
"0" 66+45		52			1	5.73%	3.16%	P-5
"0" 68+46		56			1	9.30%	2.80%	P-6
"0" 68+46-70+46	96	194			1	6.07%	6.43%	P-7
"0" 75+18		68	70			1.00%	1.00%	44° Lt. Ahd.
"0" 76+01-75+92	X			26		1.53%	1.00%	
"0" 76+32		56				1.11%	12.40%	1°18'48" Lt. A.
"0" 76+34-64	38	37			1	1.00%	15.4%	P-9
"0" 77+94-90	(walk)			8	1	1.00%		
"0" 78+76-80	X		32	30	1	1.00%		
"0" 79+34		42	47			1.46%	4.68%	3°43'01" Lt. Ad.
"0" 80+52-50		56	60			1.30%	2.92%	8°34'29" Rt. Ad.
"0" 82+17.82		40			1	2.78%	2.80%	End Section
"0" 83+20	X		32		1	1.00%		
"0" 84+07		44				12.80%	2.12%	7°42'39" Rt. Ad.
"0" 85+60-67	X		24		1	1.00%		
"0" 86+20-34	X		24	22	1			
"0" 86+92	X		40		1			
"0" 87+55		44	46			17.61%	7.26%	5°31' 22" Lt. Ahd.
"0" 88+49	(walk)		8		1	1.00%		
"0" 89+54		46			1	5.59%		
"0" 90+04		52	54		1	2.00%		
"0" 92+00		54			1	2.00%		
"0" 92+12-04	X		106	106	1	2.53%		
"0" 94+46		54			1	2.00%		
"0" 94+98-95+11	X		26		1	12.23%	10.77%	P-10
"0" 95+25		54			1	2.00%		P-11
"0" 96+03	X		64		1			
"0" 96+94		62			1	2.00%		
"0" 97+15-33	X		36	34	1			
"0" 98+40-47	X		22	20	1			
"0" 99+20		50	54		1	2.00%		
"0" 99+80-69-45		56	54		1	2.00%		
"0" 101+06		54			1	2.00%		
"0" 102+22-36	X		28	32	1	1.00%		
"0" 103+02-24	X		44	40	1	1.9%	2.00%	
"0" 103+45		56			1	2.00%		
"0" 103+96		60	62		1	2.00%		
"0" 106+05-17	X		26		1	5.08%		
"0" 106+32		54			1	2.00%		
"0" 107+95		62			1	2.00%		
"0" 108+30		54			1	2.00%		
"0" 108+51-48			26		1			

PIPE CONDUIT REMOVAL

Station	Lin. Ft.	Offset	Station	Lin. Ft.	Offset
"0" 75+14	68' 67'		"0" 93+95	64' 6'	18' Rt.
"0" 76+64	44' -		"0" 95+10	22' 19'	19' Rt.
"0" 77+07	50' 5'		"0" 95+25	24' 20'	
"0" 78+00	6'	23' Rt.	"0" 95+46	22' 28'	21' Rt.
"0" 78+80	42' 40'	22' Rt.	"0" 96+39	64' 16'	18' Rt.
"0" 79+48	30' 6'		"0" 96+95	4' 20'	22' Rt.
"0" 79+34	34'		"0" 96+96	26' -	
"0" 80+52	32'		"0" 98+00	44'	
"0" 84+53	28' 16'		"0" 99+21	28' -	
"0" 85+64	12' 10'	25' Rt.	"0" 99+29	62' -	
"0" 86+29	24' 22'	25' Rt.	"0" 99+70	26' -	
"0" 87+14	38' 40'	26' Rt.	"0" 101+07	30' -	
"0" 87+59	26'		"0" 102+20	34' 29'	20' Rt.
"0" 87+71	18'	23' Rt.	"0" 102+45	28' 26'	
"0" 88+53	8' 6'	22' Rt.	"0" 103+15	22'	27' Rt.
"0" 89+60	30' 28'		"0" 103+52	34' 6'	
"0" 89+99	104'		"0" 104+05	28'	
"0" 91+11	22' 20'	23' Rt.	"0" 107+95	20' 24'	25' Rt.
"0" 91+53	8' 6'	22' Rt.	"0" 96+50	44'	
"0" 92+03	26'		"0" 108+31-47	36' 22'	
"0" 92+23	32'	22' Rt.			
"0" 93+03	18'	19' Rt.			

SIGNING SCHEDULE

No.	Station	Dist. from Lt.	Code No.	Legend	Sign Panel Thickness			Post				Facing Traffic	Remarks
					Size	Unframed	Framed Area S. F.	No. Of Posts	Type	Size	Length	Embedment	
1.	"0" 67+00	26.5	R7-1	No Parking Any Time	12"x18"	.063"	1.5	1	Tube	2"	12.5'	3.5'	NB
2.	"0" 67+00	26.5	R7-201A	Begin	12"x6"	.063"	.5	1	See Remarks				NB
3.	"0" 68+20	19.20	R2-1	Speed Limit 35	18"x24"	.063	3.0	1	Tube	2"	12.5'	3.5'	NB
4.	"0" 70+25	16.55	R7-1	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	12.5'	3.5'	NB
5.	"0" 70+25	16.55	R7-201B	End	12"x6"	.063	.5	1	See Remarks				NB
6.	"0" 73+58	25.24	D3-1	Main St.	32"x8"	.063	1.8	1	Tube	2"	13.5'	3.5'	WB
7.	"0" 73+58	25.24	D3-1	Front St.	36"x8"	.063	2.0	1	See Remarks				WB
8.	"0" 73+58	25.24	D3-1	First St.	24"x8"	.063	1.3	1	See Remarks				N&SB
9.	"0" 73+58	25.24	D3-1	Stop	30"x30"	.063	6.25	1	See Remarks				WB
10.	"0" 75+00	16.55	R7-1B	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	13.0	3.5'	SB
11.	"0" 75+00	19.5	R7-1B	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	12.0	3.5'	NB
12.	"0" 84+50	14.515	R7-1L	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	10.5	2.0'	SB
13.	"0" 86+00	19.5	R7-1B	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	12.0	3.5'	NB
14.	"0" 87+75	14.515	R7-1R	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	10.5	2.0'	SB
15.	"0" 91+80	19.5	R7-1B	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	12.0	3.5'	NB
16.	"0" 96+10	16.5	R7-1L	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	13.0	3.5'	SB
17.	"0" 97+55	19.5	R7-1B	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	12.0	3.5'	NB
18.	"0" 98+55	16'	R7-1R	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	13.5	3.5'	SB
19.	"0" 99+72	25.30	D3-1	Front St.	28"x8"	.063	1.5	1	Tube	2"	16.0	3.5'	WB
20.	"0" 99+72	25.30	D3-1	Hemlock St.	34"x8"	.063	1.9	1	See Remarks				N&SB
21.	"0" 99+72	25.30	R1-1	Stop	30"x30"	.063	6.25	1	See Remarks				WB
22.	"0" 101+00	19.5	R2-1	Speed Limit 35	18"x24"	.063	3.0	1	Tube	2"	12.0	3.5'	NB
23.	"0" 104+50	16.5	R7-1B	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	13.0	3.5'	SB
24.	"0" 104+50	19.20	R7-1B	No Parking Any Time	12"x18"	.063	1.5	1	Tube	2"	12.0	3.5'	NB
25.	"0" 109+00	16.5	R2-1	Speed Limit 35	18"x24"	.063	3.0	1	Tube	2"	15.5	3.5'	SB
26.	"0" 109+00	16.5	R7-201A	Begin	12"x6"	.063	.5	1	See Remarks				SB
27.	"0" 109+00	16.5	R7-1	No Parking Any Time	12"x18"	.063	1.5	1	See Remarks				SB
28.	"0" 89+95	25.24	R1-1	Stop	30"x30"	.063	6.25	1	Tube	2"	13'	3.5'	WB
29.	"0" 89+95	25.24	D3-1	Narrows St.	36"x8"	.063	2.0	1					N&SB
30.	"0" 103+92	40'	R1-1	Stop	30"x30"	.063	6.25	1					WB
31.	"0" 103+92	40'	D3-1	Joy St.	24"x8"	.063	1.3	1					N&SB
32.	"0" 106+65	22'	W5-1	Road Narrows	36"x36"	.063	9.0	1	Tube	2"	13'	3.5'	NB
33.	"0" 108+18	25.24	W8-3	Pavement Ends	36"x36"	.063	9.0	1					NB

CURB CUT SUMMARY

Station	Length	
	Lt.	Rt.
"0" 75+06-75+00		14' 24'
"0" 76+10-75+87		24' 30'
"0" 76+93-76+88		24' 30'
"0" 78+90-77+85		14' 20'
"0" 80+02-78+94		14' 20'
"0" 83+36-81+46		24' 32'
"0" 84+35-82+90		24' 40'
"0" 84+90-83+34		14' 30'
"0" 85+74-84+57		14' 18'
"0" 86+35-85+27		14' 20'
"0" 87+20-86+18		14' 22'
"0" 87+69-87+14		14' 26'
"0" 88+54-87+71		14' 20'
"0" 91+11-88+58		14' 20'
"0" 92+24-91+09		14' 20'
"0" 93+02-92+18		14' 20'
"0" 92+97		20'
"0" 94+16-94+15		14' 20'
"0" 95+10-95+04		14' 20'
"0" 95+51-95+49		14' 20'
"0" 96+35-96+30		56' 64'
"0" 97+24-97+27		24' 30'
"0" 97+94-97+88		14' 22'
"0" 98+50-98+48		14' 22'
"0" 100+36		50' 55'
"0" 101+23-101+19		14' 20'
"0" 102+34-102+32		14' 20'
"0" 103+13-103+16		14' 20'
"0" 104+95-104+92		30' 25'
"0" 106+17-106+15		24' 30'
"0" 107+90-107+86		24' 30'
"0" 108+51-108+47		14' 20'

* Special Curb Cut
See Detail Sheet #42.

MONUMENTS

Station	Mon.	Case	Point
"0" 66+33.43	X	X	BOP-PC
"0" 66+89.77	X	X	P.I.
"0" 67+45.97	X	X	P.T.
"0" 69+97.94	X		P.C.
"0" 73+75.96	X	X	P.T.
"0" 75+35.39; 2.86 Lt.	X	X	P.I.
"0" 77+32.86; 5.89 Rt.	X	X	P.I.
"0" 79+43.11; 4.86 Lt.	X	X	P.I.
"0" 80+05.98	X	X	P.T.
"0" 81+73.34	X	X	P.C.
"0" 91+08.24	X	X	P.T.
"0" 100+69.60	X	X	P.C.
"0" 104+17.83	X	X	P.T.
"0" 109+00.00	X	X	E.O.P.

FIRE HYDRANTS

Station	Depth of Bury	Offset
"0" 69+00	5.50'	20.0' Rt. 19.5
"0" 78+33	5.25'	19.0' Rt. 19.5
"0" 84+00	5.25'	19.0' Rt. 19.5
"0" 89+34	5.25'	19.0' Rt. 19.5
"0" 93+38	5.25'	19.0' Rt. 19.5
"0" 99+86-98+20	5.25'	19.0' Rt. 19.5
"0" 103+35-34.5	5.25'	21.0' Rt. 24

SUPPLEMENTAL WORK SCHEDULE "A"

WATER MAIN APPURTENANCES

WATER MAIN APPURTENANCES		
Station	Offset	Remarks
"AsBlt" 66+32.28	11' Rt.	Install 8" Gate Valve/ Valve Box
"0" 66+52.50	12' Rt.	Install 3/4" Water Service
"0" 66+97.12	12' Rt.	Install 4" Water Service
"0" 67+43.34	10' Rt.	Install 3/4" Water Service
"0" 67+45.40	10' Rt.	Install 3/4" Water Service
"0" 68+72.61	2' Rt.	Install 6" Water Service
"0" 69+34.28	4' Rt.	Install 3/4" Water Service
"0" 68+61.1'	1' Rt.	" 8" G.V. / V.B.
"0" 71+08.03	17' Rt.	Install 3/4" Water Service
"0" 71+13.17	17' Rt.	Install 8" Gate Valve/Valve Box
"0" 72+42.40	14' Rt.	Install 3/4" Water Service
"0" 73+04.14	14' Rt.	" 15" Elbow
"0" 72+50.14	14' Rt.	Install 2" Water Service
"0" 73+75.56	15' Rt.	Install 3/4" Water Service
"0" 73+53.51	14' Rt.	Inst 8" MJx8" MJx6" FLG T w/6" GV/VB
"0" 73+56.14	14' Rt.	Install 8" Gate Valve/Valve Box
"0" 74+11.15	13' Rt.	Install 3/4" Water Service
"0" 74+55.40	11' Rt.	Install 3/4" Water Service
"0" 75+43.37	13' Rt.	Install 3/4" Water Service
"0" 76+41.13	13' Rt.	Install 3/4" Water Service
"0" 77+25.16	17' Rt.	Install 3/4" Water Service
"0" 77+27.17	17' Rt.	Install 15" Elbow
"0" 78+11.13	13' Rt.	Install 3/4" Water Service
"0" 78+11.7+96	13' Rt.	
"0" 78+65.59	15' Rt.	Install 3/4" Water Service
"0" 79+59.77	13' Rt.	Install 3/4" Water Service
"0" 81+21.10	12' Rt.	Install 8" Gate Valve/Valve Box
"0" 81+80.23	12' Rt.	Install 3/4" Water Service
"0" 82+70.56	14' Rt.	Install 3/4" Water Service
"0" 83+64.60	20' Rt.	Install 3/4" Water Service
"0" 83+96.90	24' Rt.	Install 15" Elbow
"0" 84+07.22	22' Rt.	Install 3/4" Water Service
"0" 84+45.17	17' Rt.	Install 3/4" Water Service
"0" 84+83.23	16' Rt.	Install 3/4" Water Service
"0" 85+48.47	16' Rt.	Install 3/4" Water Service
"0" 86+53.15	15' Rt.	Install 3/4" Water Service
"0" 87+40.38	14' Rt.	Install 3/4" Water Service
"0" 88+01.03	13' Rt.	Install 3/4" Water Service
"0" 88+59.54	12' Rt.	Install 3/4" Water Service

ILLUMINATION TABLE

Station	Offset	Mast Arm	Type	Circuit	Circuit Breaker Rating	Remarks
"0" 66+44	31' Lt.	15'	I	A	10 Amp	Shear Base Pole, Type I J-Box
"0" 67+65	24' "	"	"	"		
"0" 69+70	23' "	"	"	"		
"0" 70+17	16' "	"	"	"		
"0" 71+91	16' "	"	"	"		Shear Base Pole, Type I J-Box
"0" 73+61	16' "	"	"	"		Shear Base Pole, Type I J-Box
"0" 73+65	16' "	"	"	"		
"0" 75+46	16' "	"	"	~~B~~ A		Type II J-Box
"0" 77+31	16' "	"	"	~~A~~ B	10 Amp	
"0" 79+16	16' "	"	"	"		
"0" 81+01	15' "	"	"	"		
"0" 82+86	15' "	"	"	"		Type III Footing (2' Dia.)
"0" 84+65	15' "	"	"	"		Type III Footing 3' "
"0" 86+45	23' "	"	"	"		Type III Footing 3' "
"0" 88+15	15' "	"	"	"		Type III Footing 3' "
"0" 90+00	16' "	"	"	"		15 Amp
"0" 91+60	16' "	"	"	"		
"0" 93+20	16' "	"	"	"		
"0" 94+80	16' "	"	"	"		
"0" 96+40	18' "	"	"	"		
"0" 96+45	18' "	"	"	"	Type II J-Box	
"0" 98+00	24' "	"	"	D		
"0" 99+60	16' "	"	"	"		
"0" 101+05	16' "	"	"	"	15 Amp	
"0" 102+50	16' "	"	"	"		
"0" 103+95	16' "	"	"	"		
"0" 105+80	16' "	"	"	"		
"0" 107+65	16' "	"	"	"		

GENERAL ILLUMINATION NOTES

1. Locations given are approximate only and are subject to minor field adjustments by the engineer.
2. All luminaires will be mounted 40' above the roadway surface.
3. All luminaires shall be 240v medium distribution, semi-cutoff, type II High Pressure Sodium and will be of the 250 wattage.
4. All junction box covers will be marked "Lighting".
5. See Standard Drawing L-20.03 for distribution center details & see Table this sheet for Distribution Center Location.
6. See Standard Drawing L-20.03 for control cabinet wiring schematic.

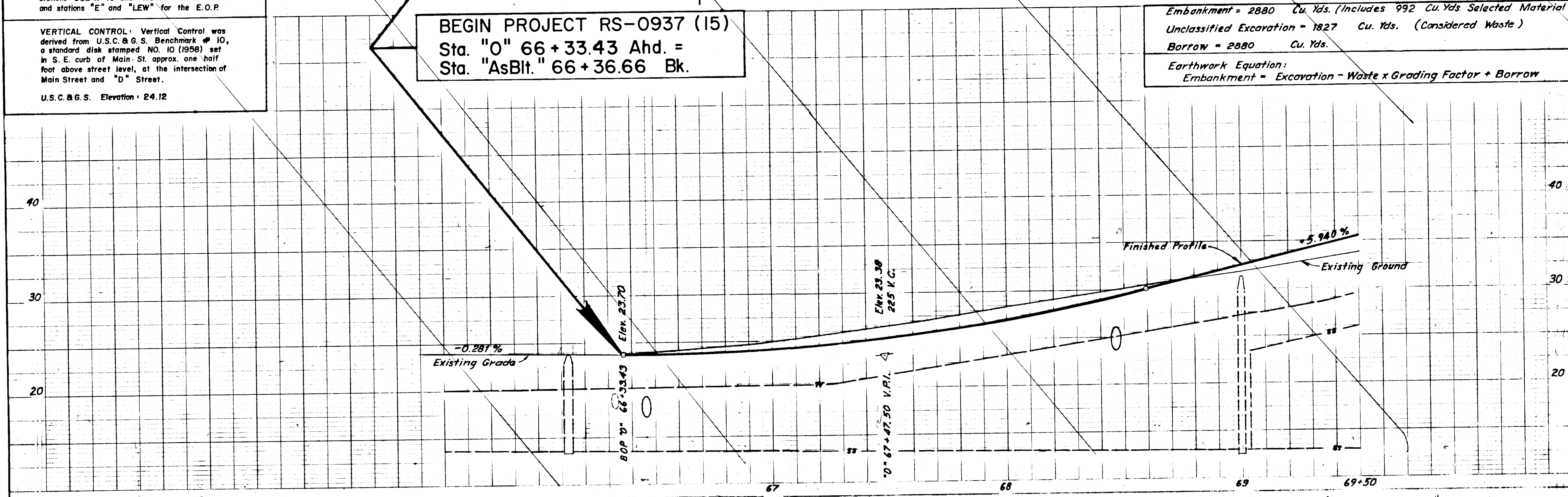
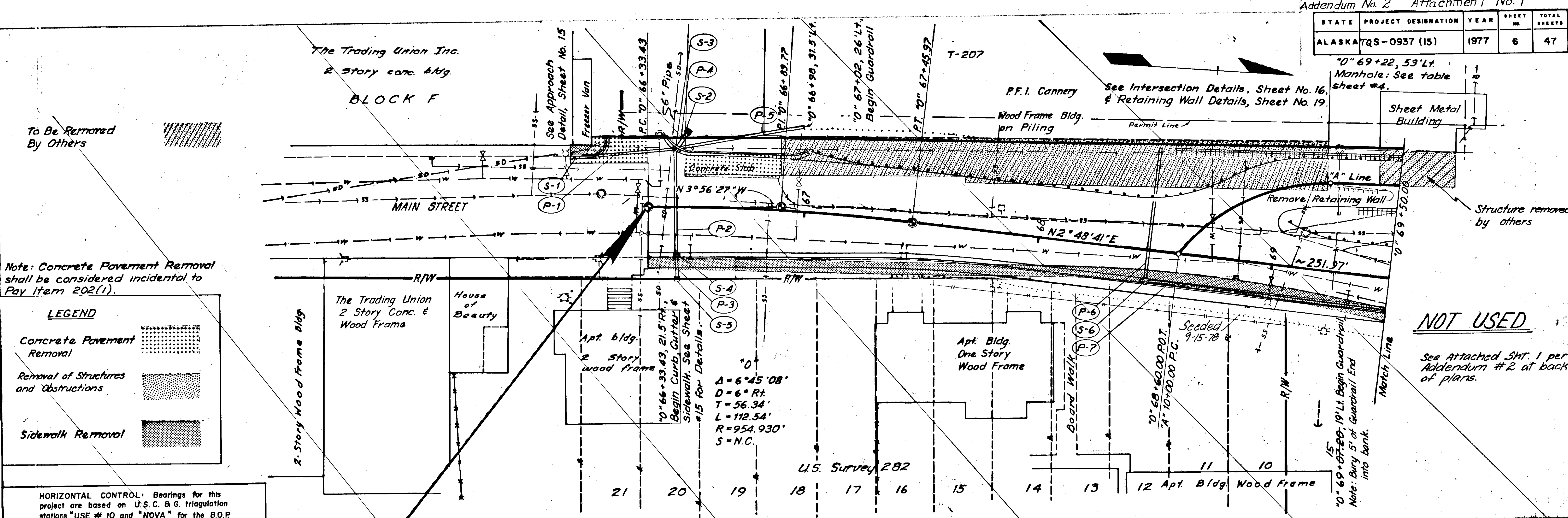
BREAKER RATING TABLE

Breaker	Metering & Distribution Center	
	A	B
1	10A/240V	15A/240V
2	10A/240V	15A/240V
3		
4		
5		
6		
7		
8		
Main	90A	90A
Contactor	200A	200A

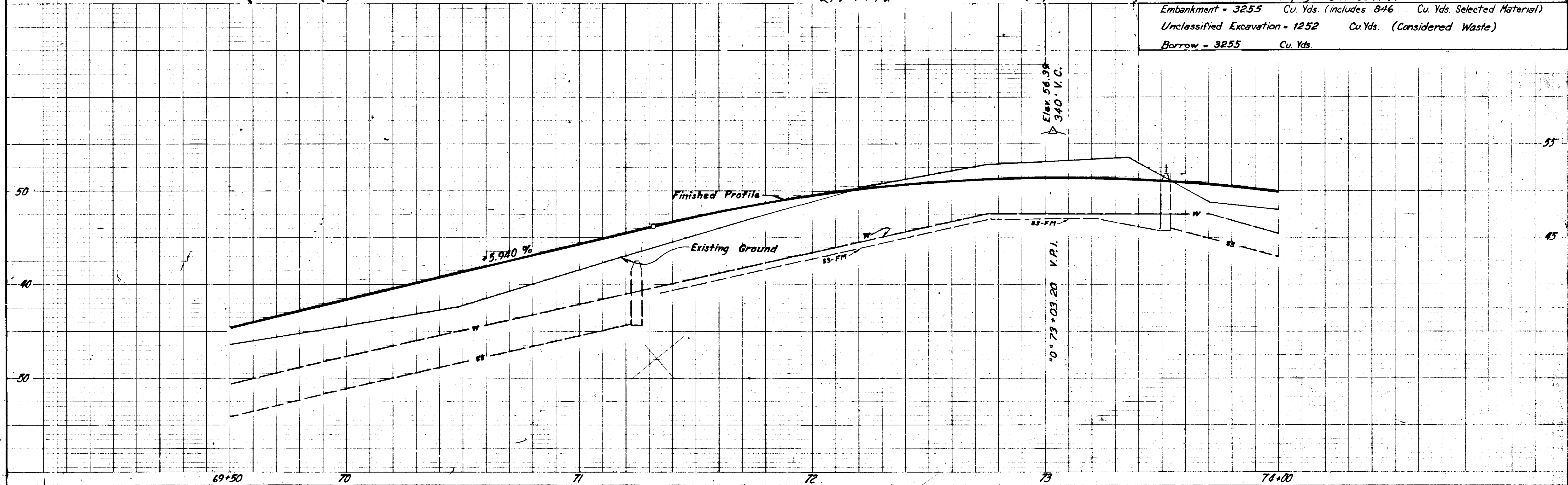
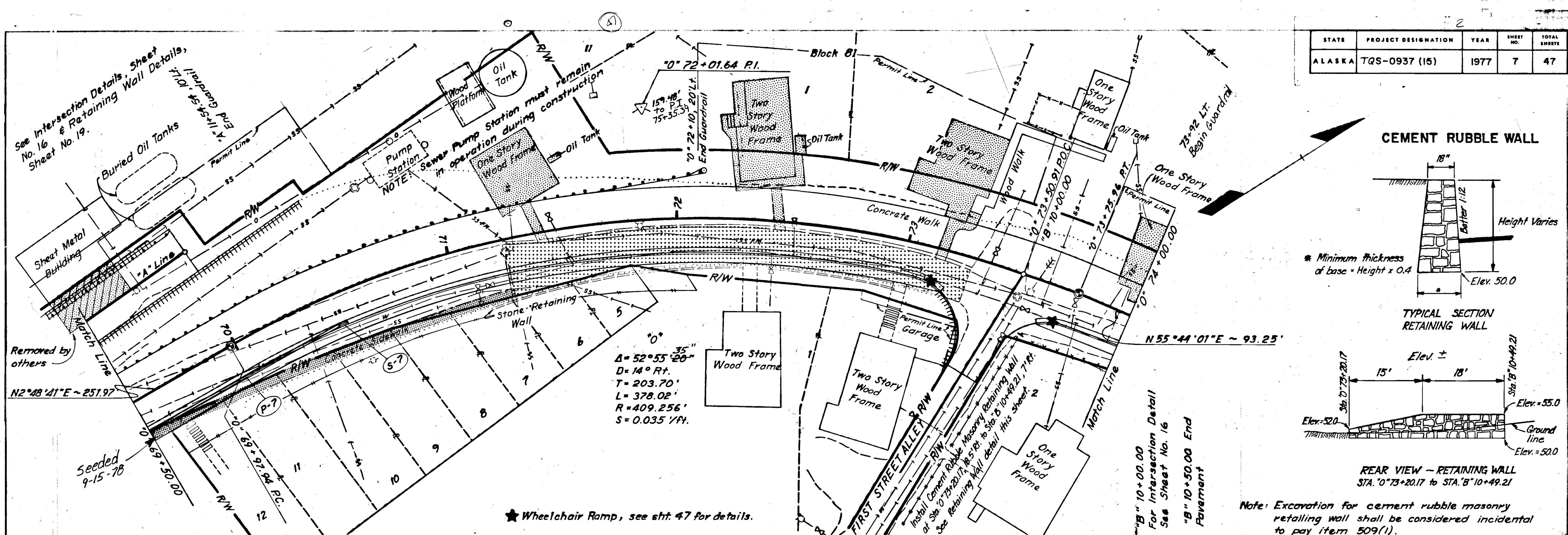
DISTRIBUTION CENTER LOCATION TABLE

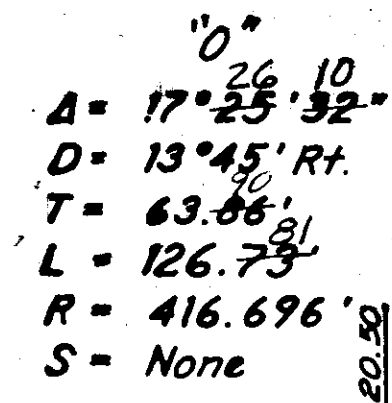
Station	Offset
"0" 75 + 46	16' RT.
"18" 11 + 50	9' Lt.
"0" 46 + 40	18' Lt.
"0" 96 + 15	23' Rt.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TS-0937 (15)	1977	6	47

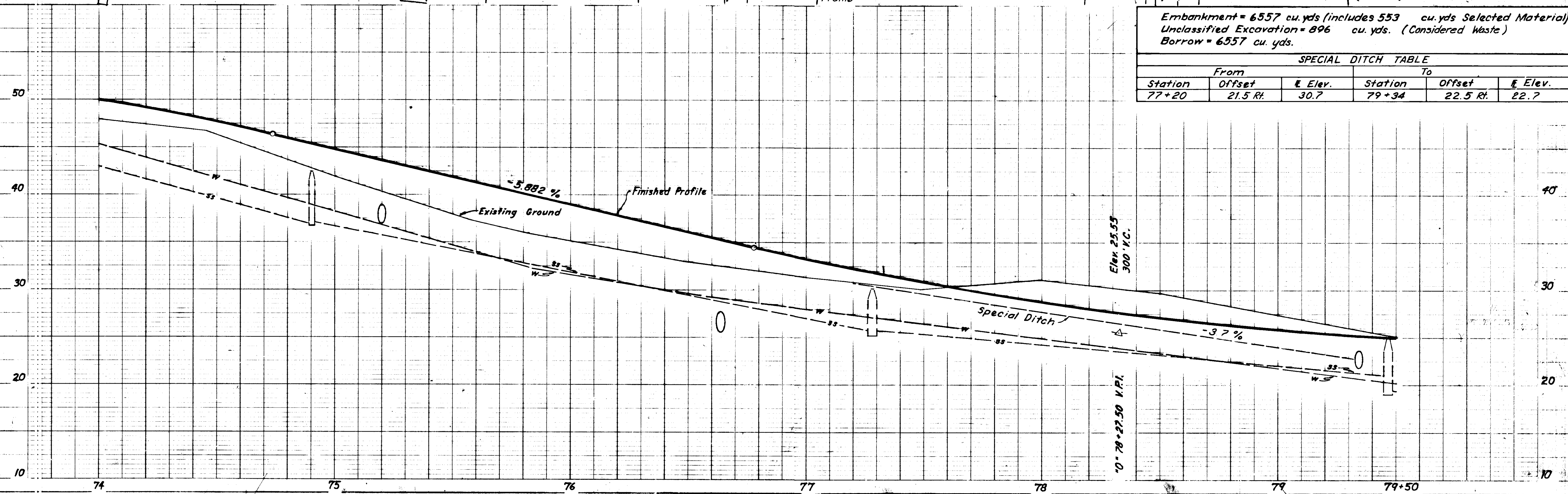


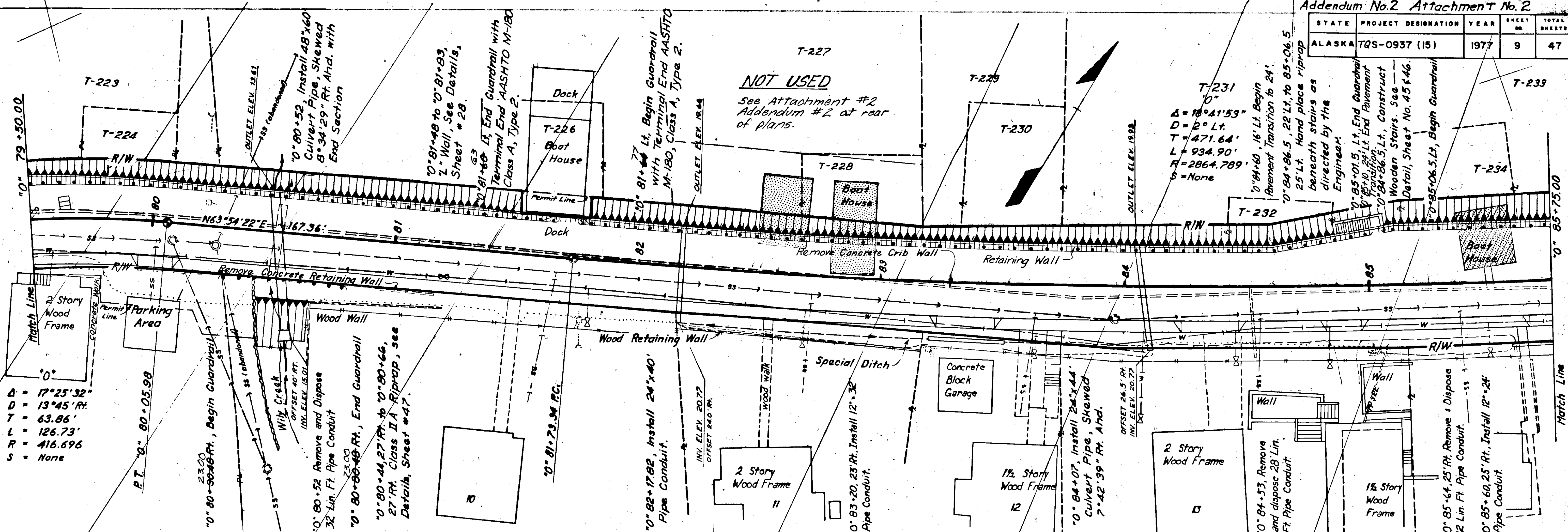
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	7	47





SPECIAL DITCH TABLE					
From			To		
Station	Offset	£ Elev.	Station	Offset	£ Elev.
77+20	21.5 Rt.	30.7	79+34	22.5 Rt.	22.7





$\Delta = 17^{\circ}25'32''$
 $D = 13^{\circ}45' R$
 $T = 63.86'$
 $L = 126.73'$
 $R = 416.696$
 $S = \text{None}$

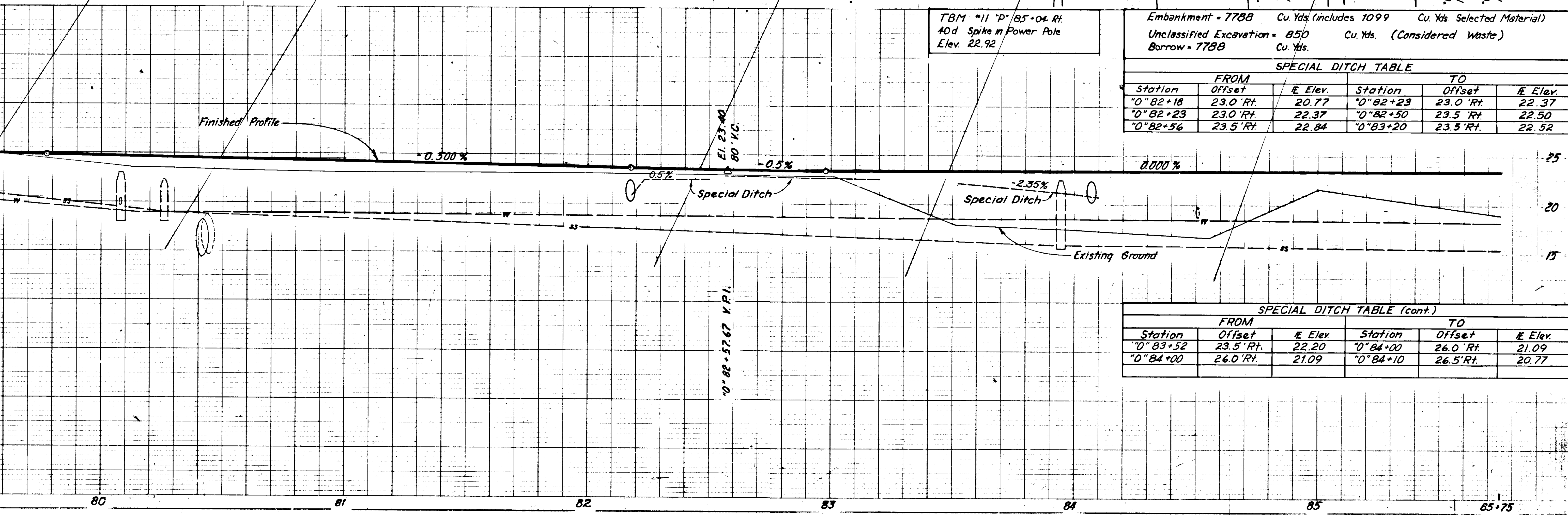
$\Delta = 18^{\circ}41'53''$
 $D = 2^{\circ} L$
 $T = 471.64'$
 $L = 934.90'$
 $R = 2864.789'$
 $S = \text{None}$

TBM "11" P" 85+04. Rt.
40d Spike in Power Pole
Elev. 22.92

Embankment = 7788 Cu. Yds. (includes 1099 Cu. Yds. Selected Material)
Unclassified Excavation = 850 Cu. Yds. (Considered Waste)
Borrow = 7788 Cu. Yds.

SPECIAL DITCH TABLE					
FROM			TO		
Station	Offset	E. Elev.	Station	Offset	E. Elev.
"0" 82+18	23.0' Rt.	20.77	"0" 82+23	23.0' Rt.	22.37
"0" 82+23	23.0' Rt.	22.37	"0" 82+50	23.5' Rt.	22.50
"0" 82+56	23.5' Rt.	22.84	"0" 83+20	23.5' Rt.	22.52

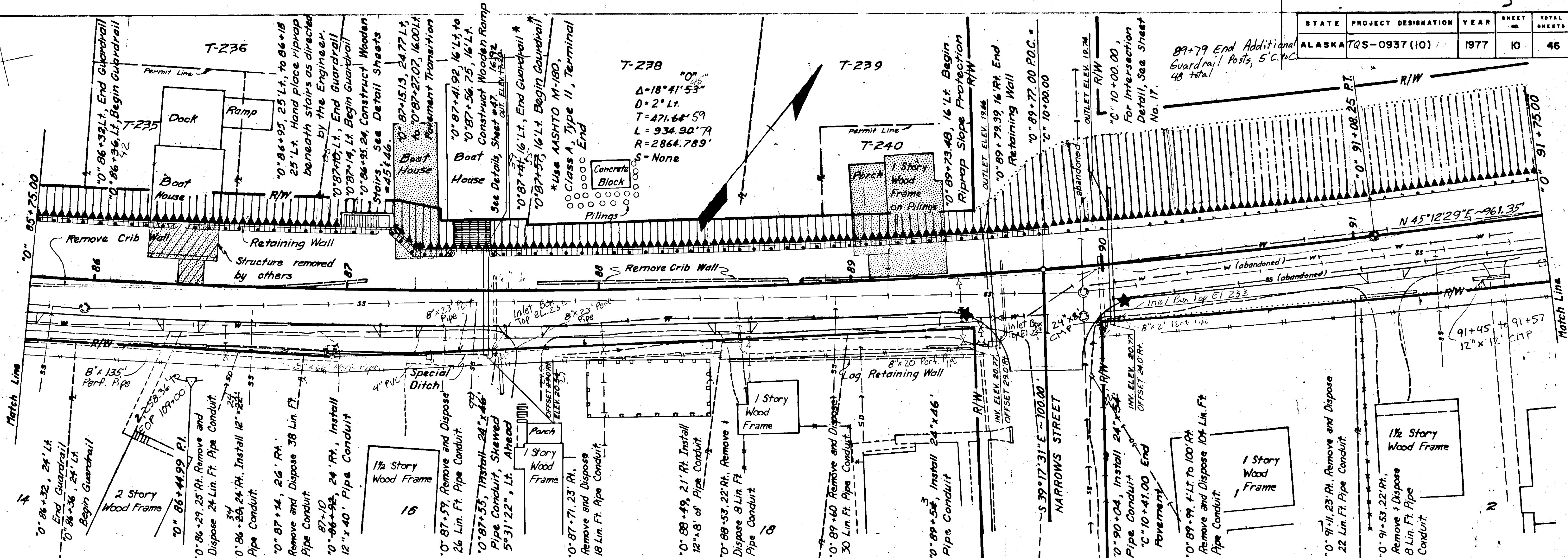
SPECIAL DITCH TABLE (cont.)					
FROM			TO		
Station	Offset	E. Elev.	Station	Offset	E. Elev.
"0" 83+52	23.5' Rt.	22.20	"0" 84+00	26.0' Rt.	21.09
"0" 84+00	26.0' Rt.	21.09	"0" 84+10	26.5' Rt.	20.77



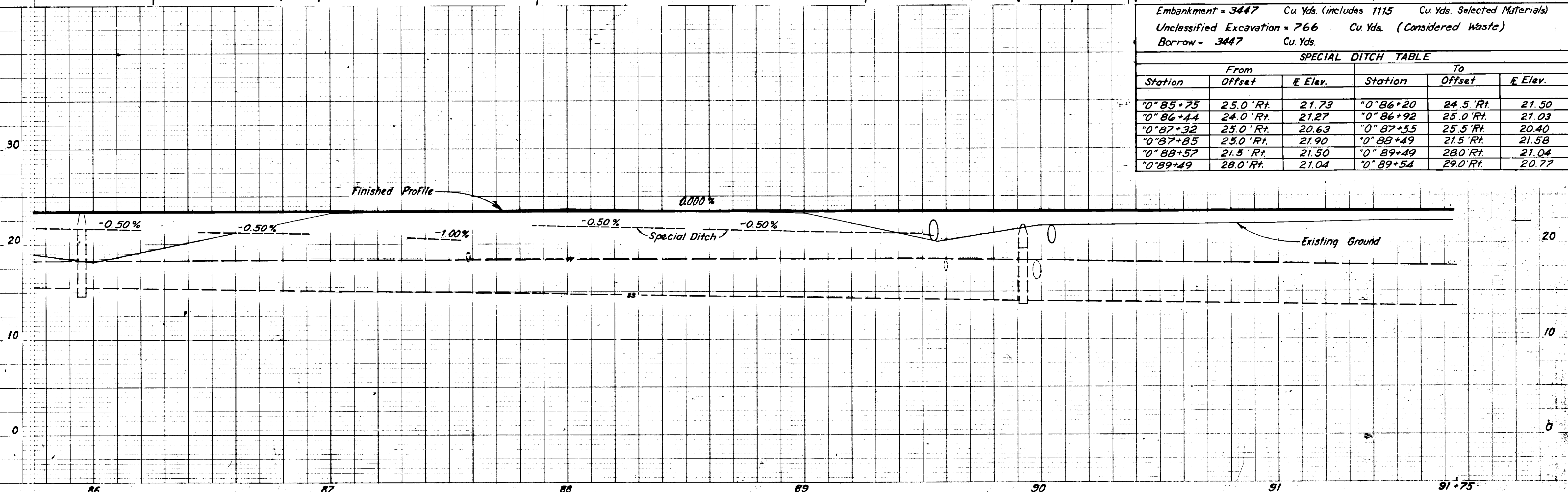
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (10)	1977	10	46

89+79 End Additional
Guardrail Posts, 5' C. to C.
48 total

For Intersection
Detail, See Sheet
No. 17.

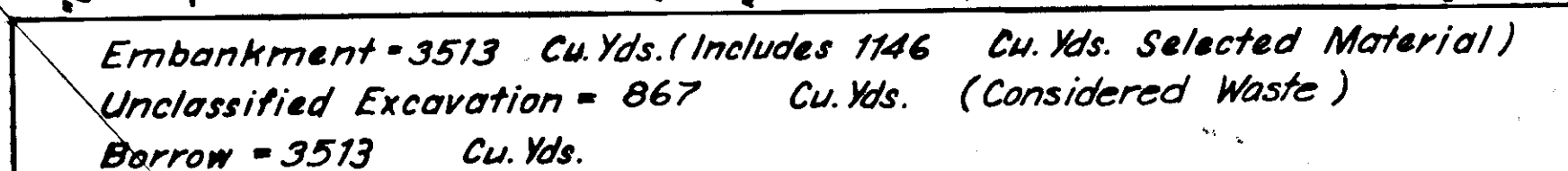


Embankment = 3447		Cu. Yds. (includes 1115	Cu. Yds. Selected Materials)		
Unclassified Excavation = 766		Cu. Yds. (Considered Waste)			
Borrow = 3447		Cu. Yds.			
SPECIAL DITCH TABLE					
From			To		
Station	Offset	R Elev.	Station	Offset	R Elev.
"0" 85+75	25.0 'Rt.	21.73	"0" 86+20	24.5 'Rt.	21.50
"0" 86+44	24.0 'Rt.	21.27	"0" 86+92	25.0 'Rt.	21.03
"0" 87+32	25.0 'Rt.	20.63	"0" 87+55	25.5 'Rt.	20.40
"0" 87+85	25.0 'Rt.	21.90	"0" 88+49	21.5 'Rt.	21.58
"0" 88+57	21.5 'Rt.	21.50	"0" 89+49	28.0 'Rt.	21.04
"0" 89+49	28.0 'Rt.	21.04	"0" 89+54	29.0 'Rt.	20.77



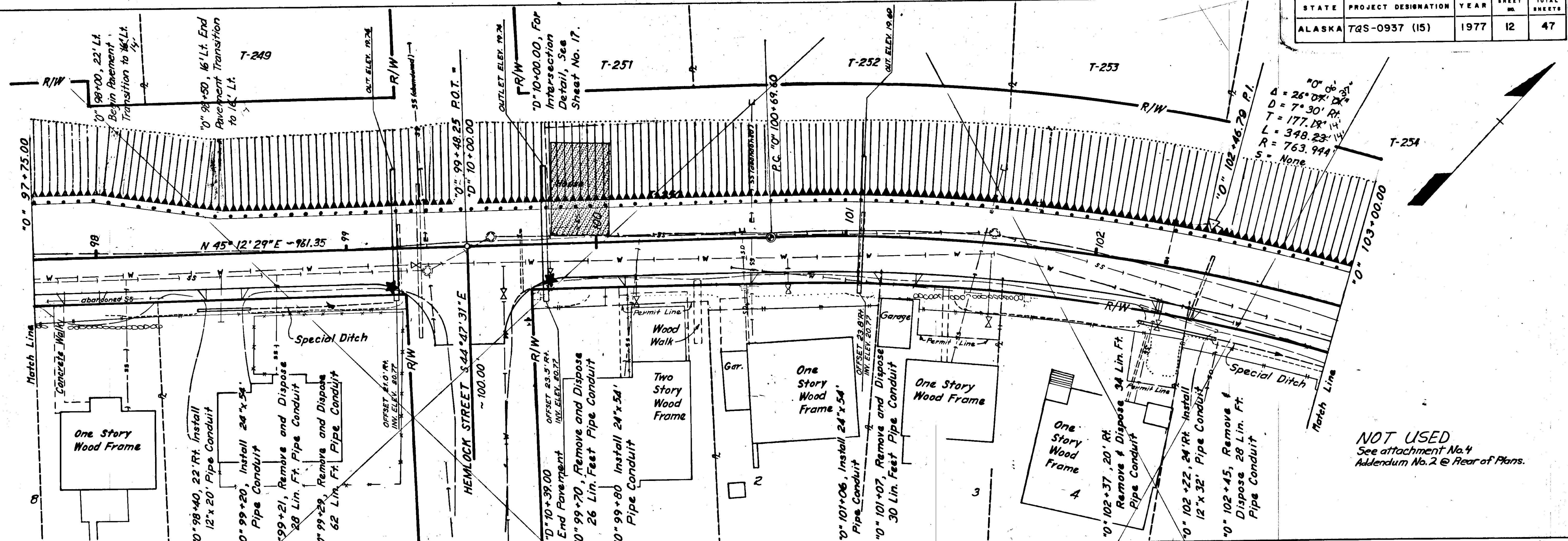
"0" 97+43, Construct Wooden Stairs
See Details, Sheet No. 45.

"0" 97+42, End Guardrail
"0" 97+46, Begin Guardrail



SPECIAL DITCH TABLE					
From			To		
Station	Offset	ℓ Elev.	Station	Offset	ℓ Elev.
"0" 92+00	26.5' Rt.	20.77	"0" 92+12	26.5' Rt.	21.01
"0" 93+12	23.5' Rt.	22.27	"0" 93+80	25.0' Rt.	22.61
"0" 94+54	25.0' Rt.	22.01	"0" 94+98	22.0' Rt.	21.79

SPECIAL DITCH TABLE (cont.)					
FROM			TO		
Station	Offset	± Elev.	Station	Offset	± Elev.
"0" 96+67	23.0 'Rt.	21.45	"0" 96+89	23.0 'Rt.	21.34
"0" 96+89	23.0 'Rt.	21.34	"0" 96+94	23.5 'Rt.	21.09
"0" 96+94	23.5 'Rt.	21.09	"0" 96+99	23.0 'Rt.	22.01
"0" 96+99	23.0 'Rt.	22.01	"0" 97+15	23.0 'Rt.	22.09



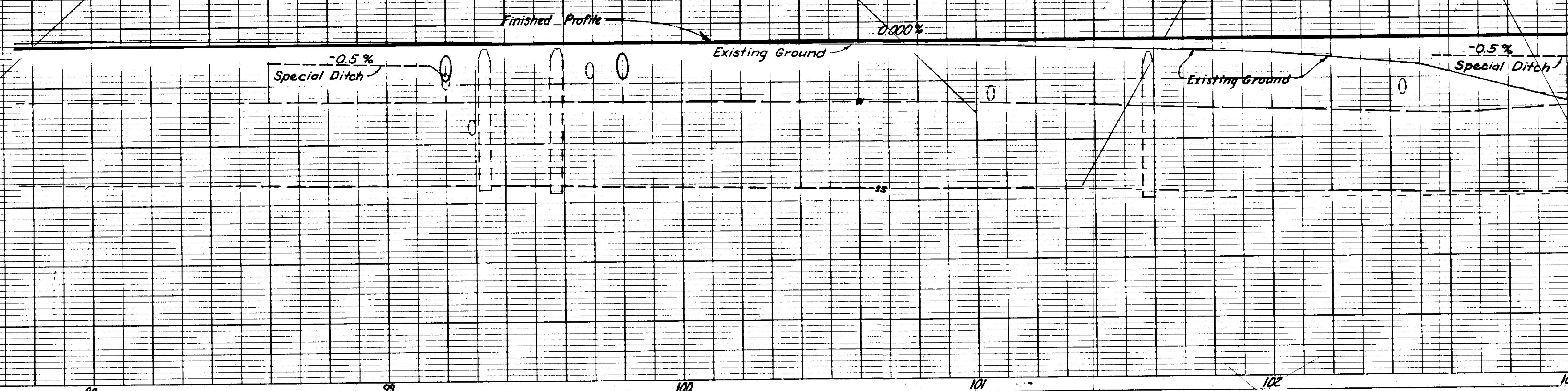
NOT USED
See attachment No.4
Addendum No.2 @ Rear of Plans.

TBM #12 "P" 100+84 20' Lt.
Brass Cap U.S.C. & G.S. "Skiff"
Elev. 16.63

TBM #13 "P" 101+59, 33 Lt.
Reference Spike in Rock
U.S.C. & G.S. Reference to
"Boat" Elev. 14.95

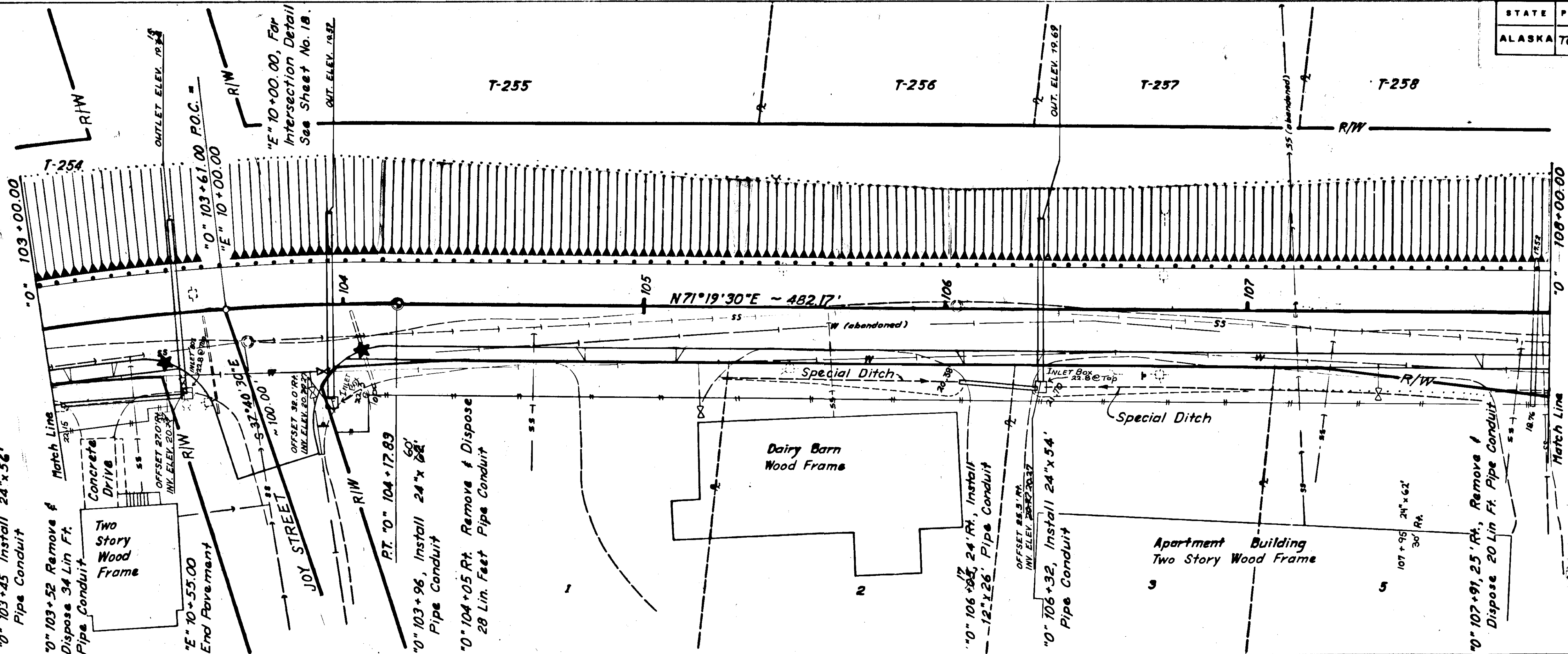
Embankment - 2513 Cu. Yds. (includes 975 Cu. Yds. Selected Material)
Unclassified Excavation - 999 Cu. Yds. (Considered Waste)
Borrow - 2513 Cu. Yds.

SPECIAL DITCH TABLE					
From			To		
Station	Offset	E. Elev.	Station	Offset	E. Elev.
"0" 98+60	22.0' Rt.	21.89	"0" 99+15	21.5' Rt.	21.62
"0" 99+15	21.5' Rt.	21.62	"0" 99+20	21.0' Rt.	20.77
"0" 102+54	24.5' Rt.	21.77	"0" 103+00	25.0' Rt.	21.54



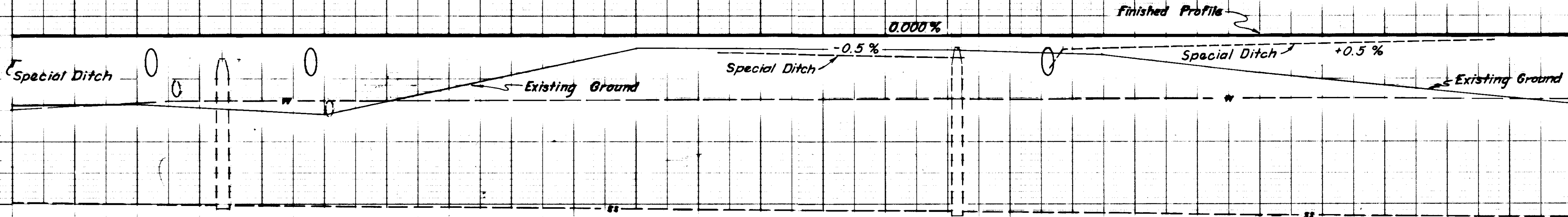
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	13	47

"0" 103+15, 27' Rt., Remove & Dispose 22 Lin. Ft. Pipe Conduit
 "0" 103+24, 26' Rt., Install 12"x24" Pipe Conduit
 "0" 103+45, Install 24"x56" Pipe Conduit
 S = None



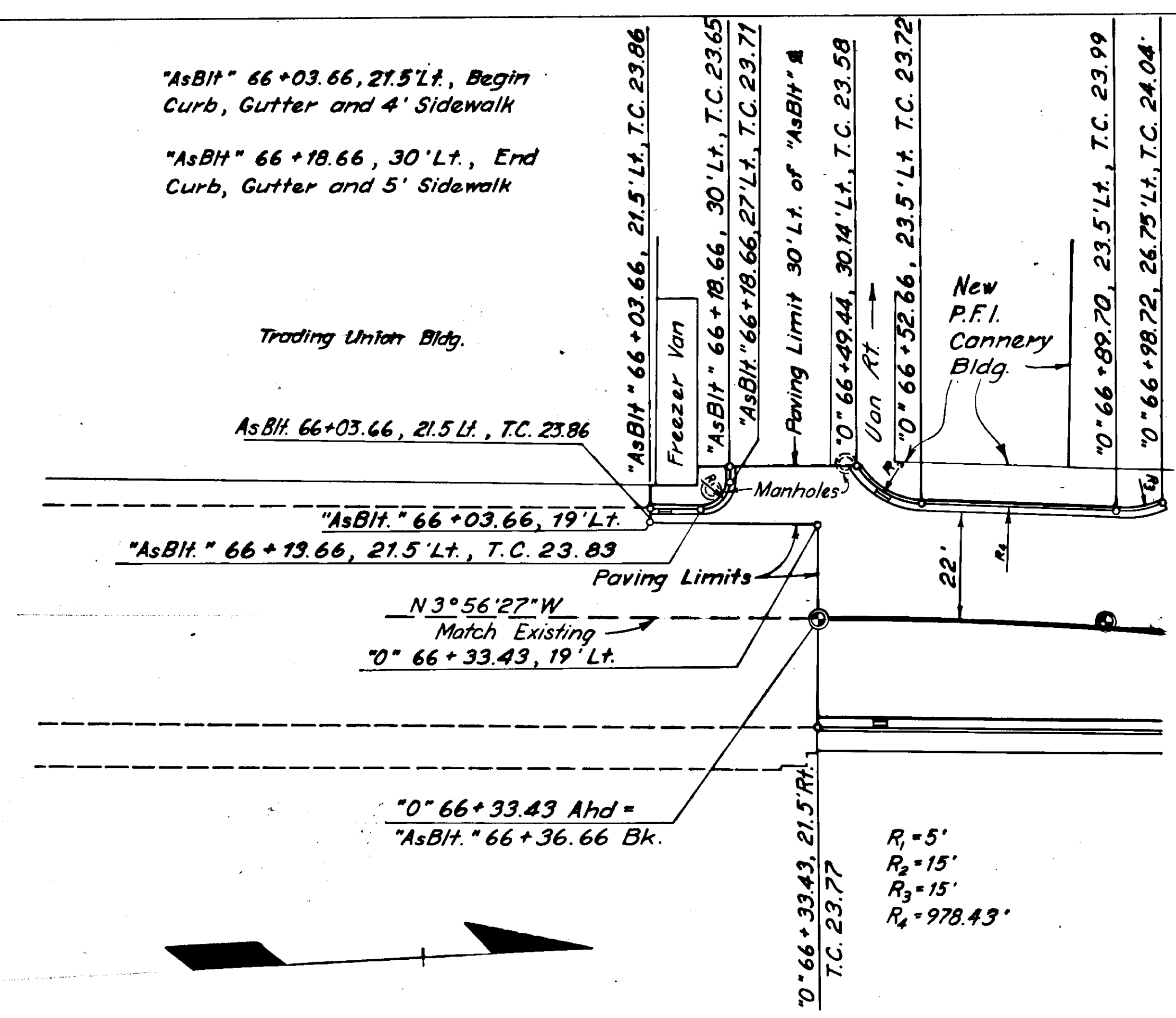
Embankment - 2318 Cu Yds. (includes 908 Cu Yds. Selected Material)
 Unclassified Excavation - 452 Cu Yds. (Considered Waste)
 Borrow - 2318 Cu Yds.

SPECIAL DITCH TABLE					
From			To		
Station	Offset	± Elev.	Station	Offset	± Elev.
"0" 103+00	25.5' Rt.	21.54	"0" 103+02	25.5' Rt.	21.53
"0" 105+26	23.5' Rt.	22.09	"0" 106+05	24.0' Rt.	21.70
"0" 106+32	25.5' Rt.	20.77	"0" 106+37	25.5' Rt.	22.40
"0" 106+37	25.5' Rt.	22.40	"0" 107+75	29.0' Rt.	23.09



"AsBlt" 66+03.66, 21.5' Lt., Begin
Curb, Gutter and 4' Sidewalk

"AsBlt" 66+18.66, 30' Lt., End
Curb, Gutter and 5' Sidewalk

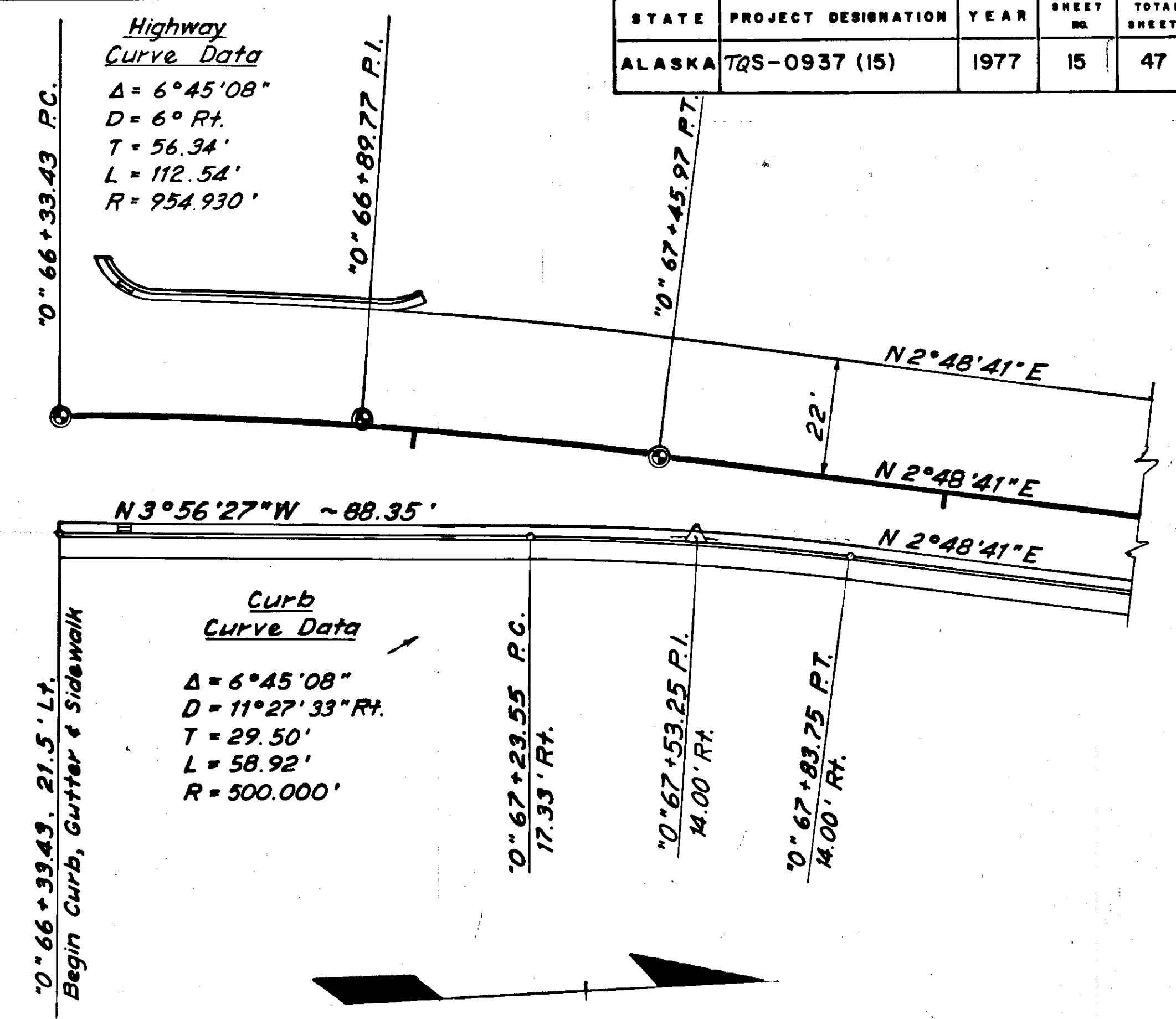


CANNERY ENTRANCE

CURB ALIGNMENT DETAILS & APPROACH DETAILS

Constructed as shown
Changes in red are approx. only

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	15	47

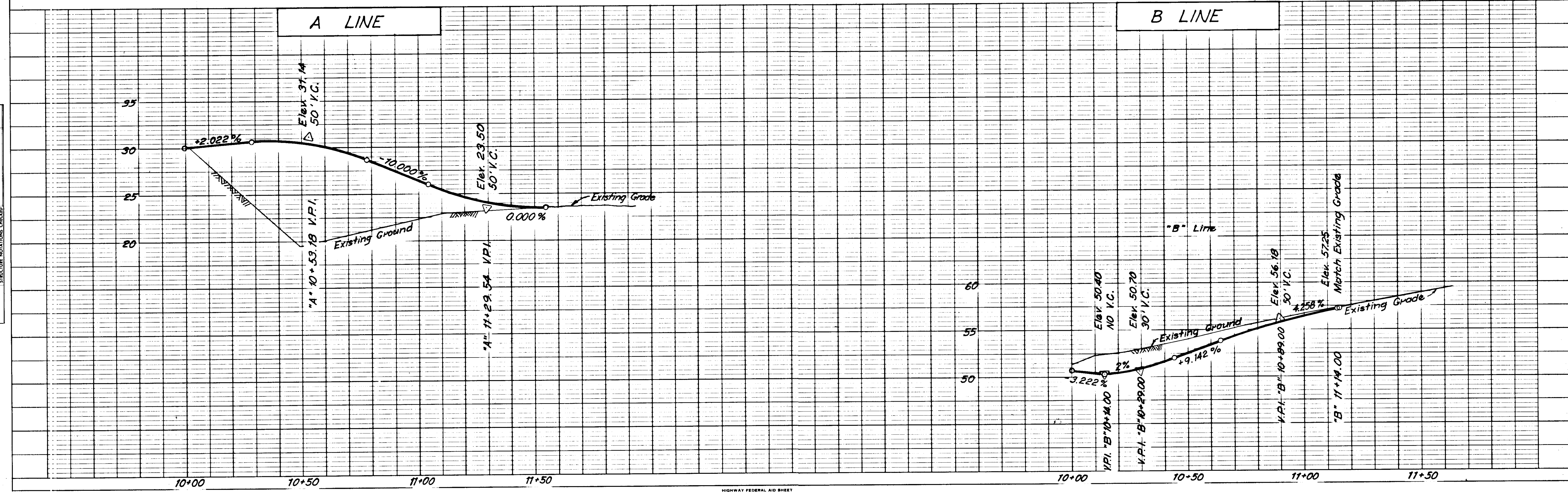
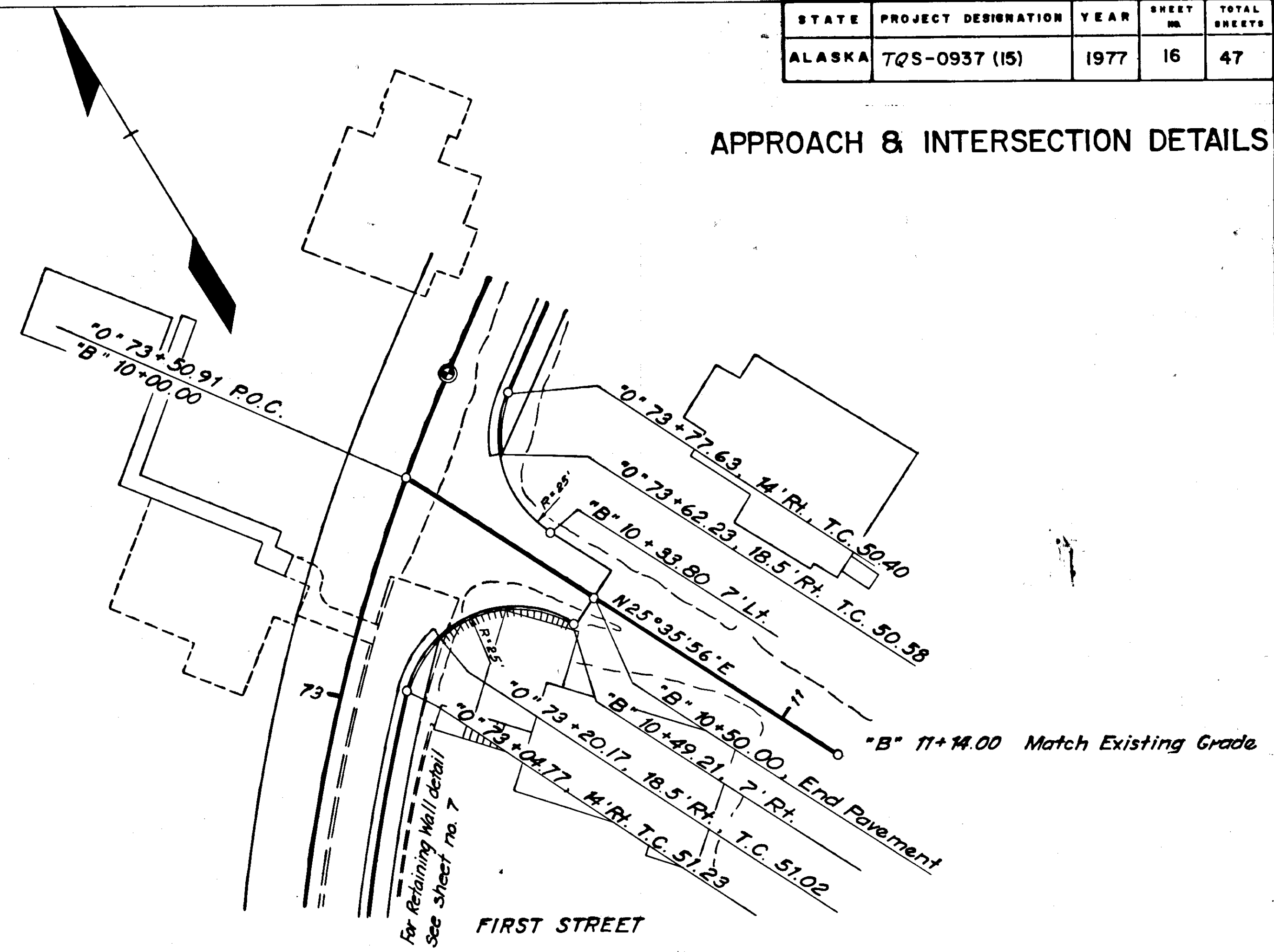
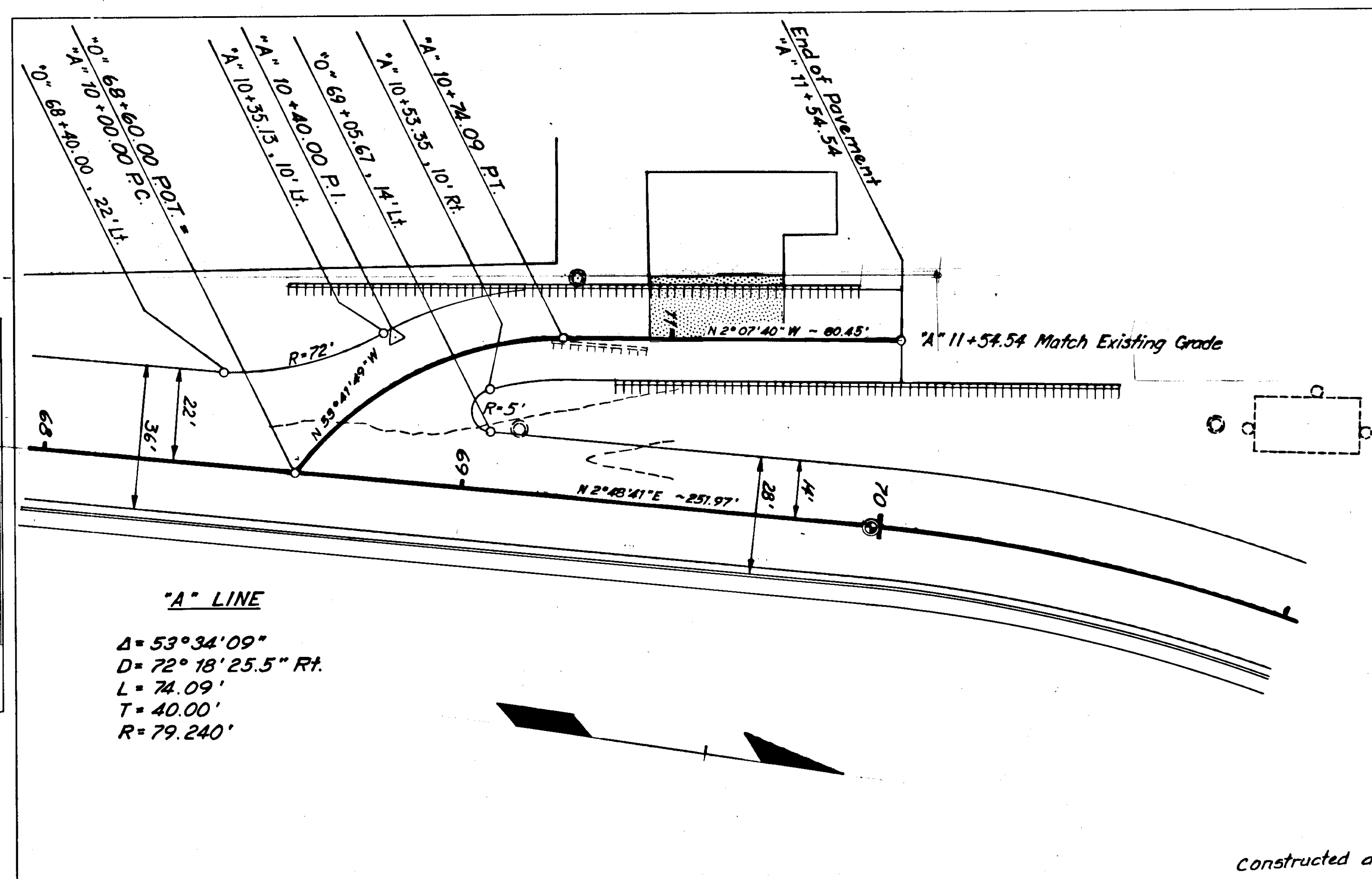


CURB ALIGNMENT
"0" 66+33.43 to "0" 67+83.75

Note: For vertical alignment
see sheet no. 6.

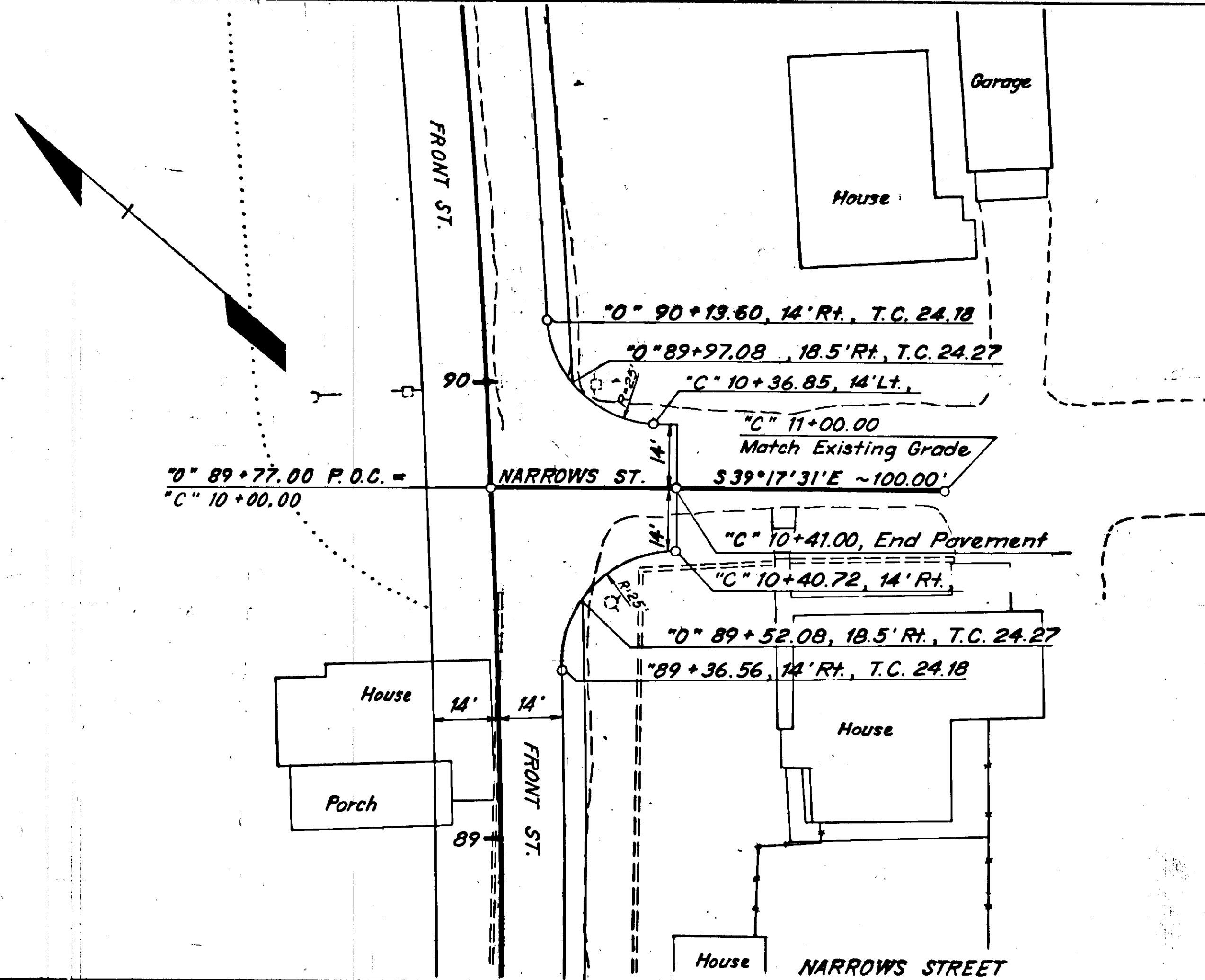
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	16	47

APPROACH & INTERSECTION DETAILS



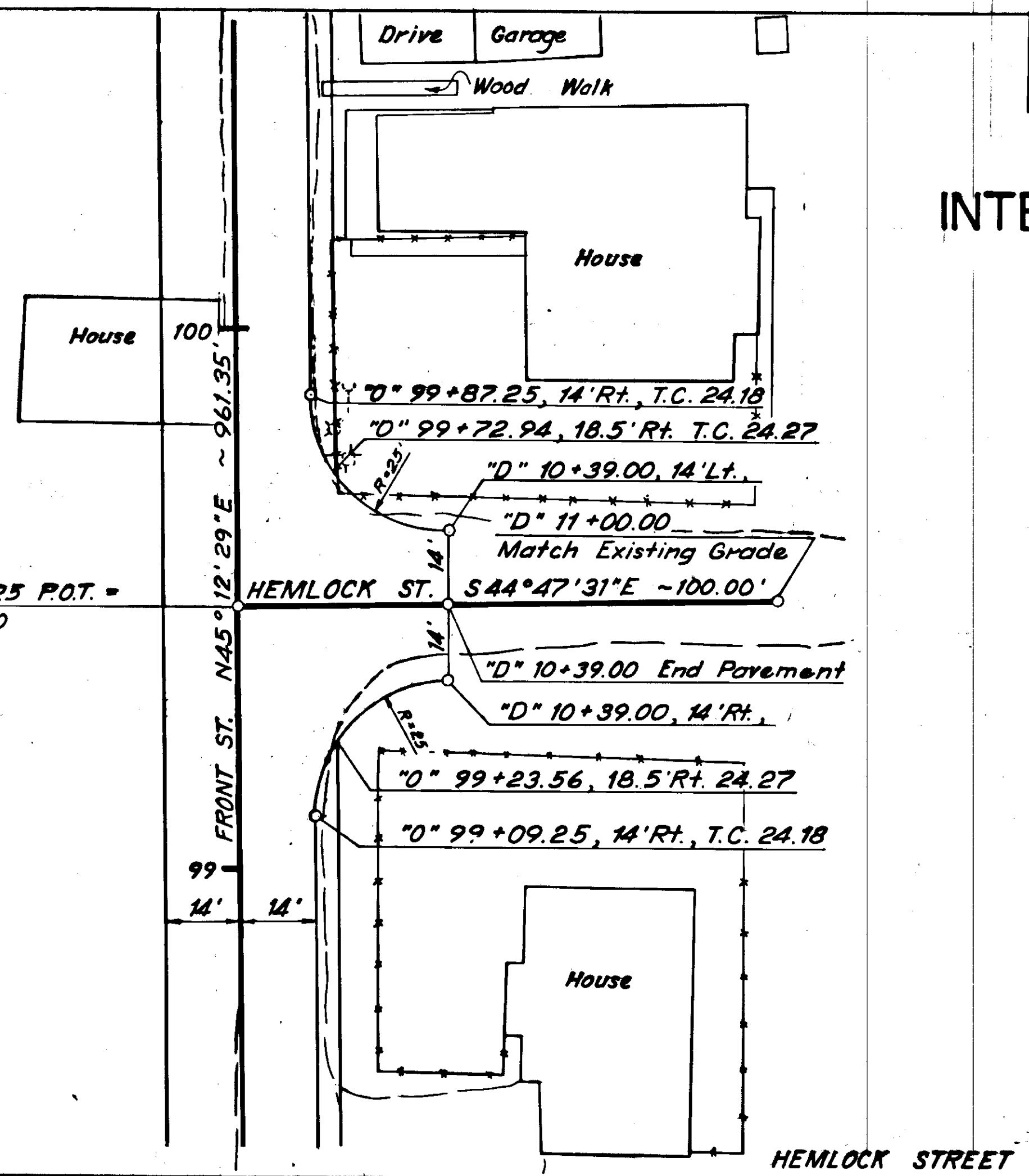
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	17	47

INTERSECTION DETAILS



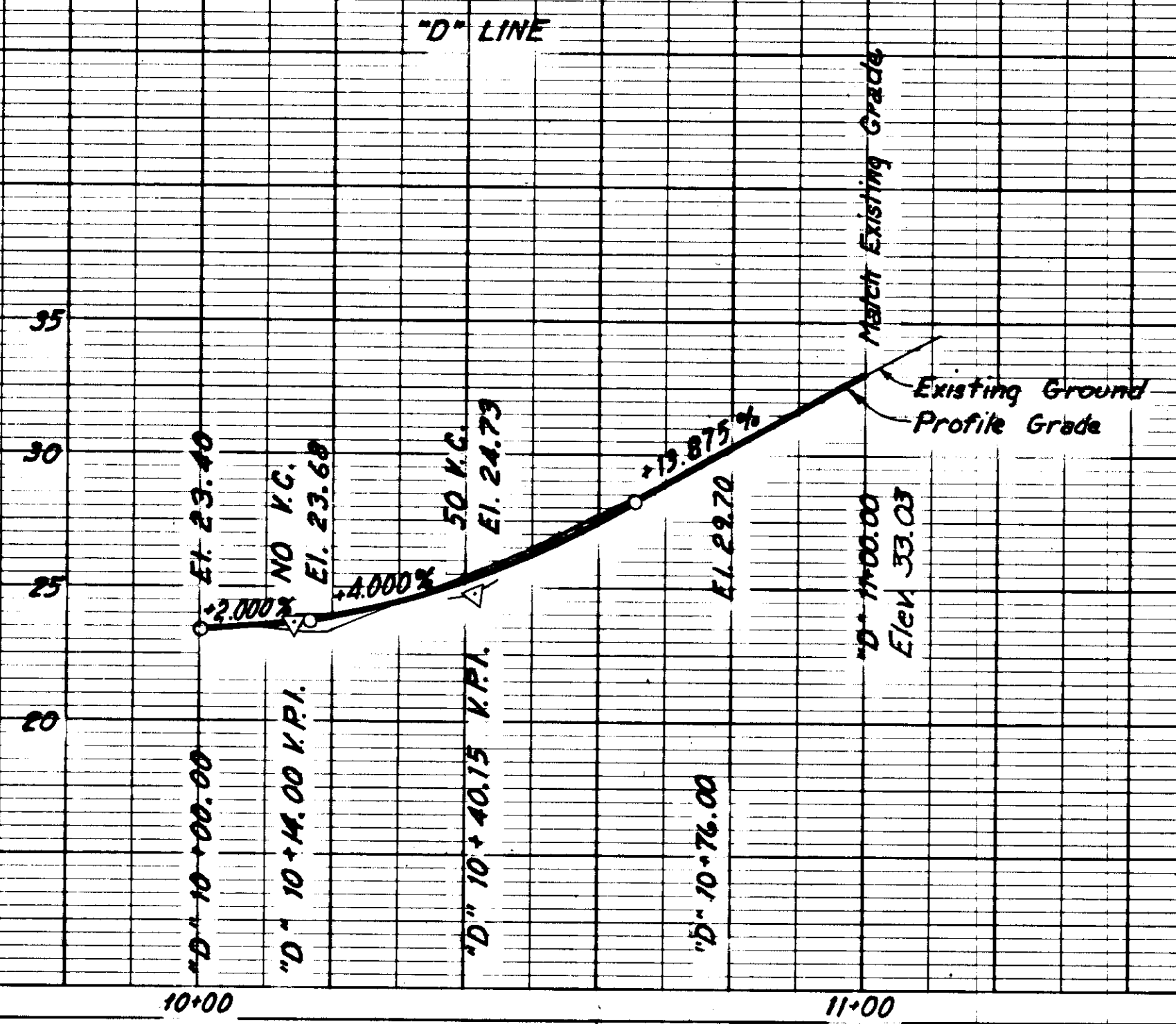
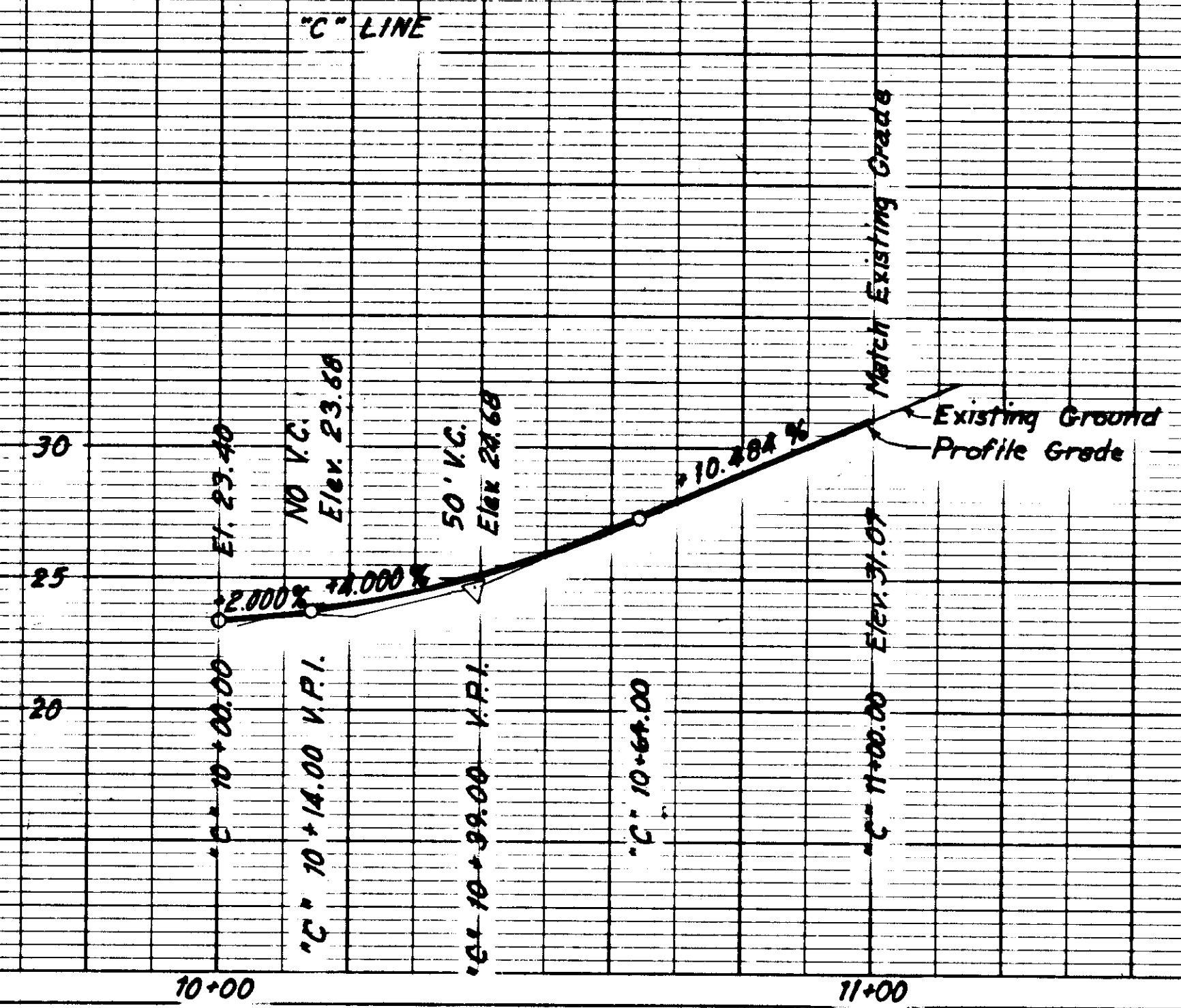
constructed as shown

Earthwork Quantities are included in appropriate mainline sheet quantities.



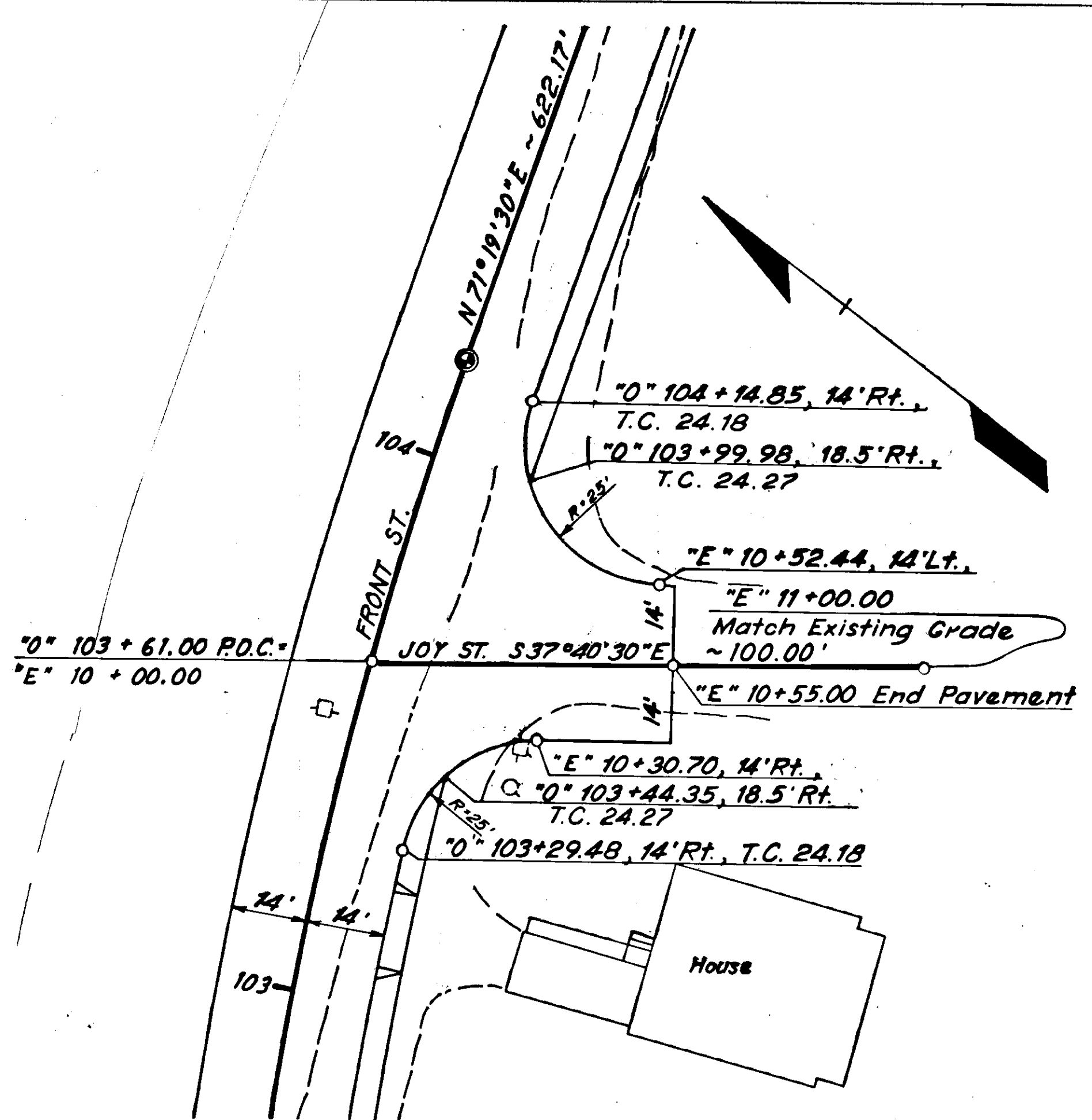
C LINE

D LINE



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7QS-0937 (15)	1977	18	47

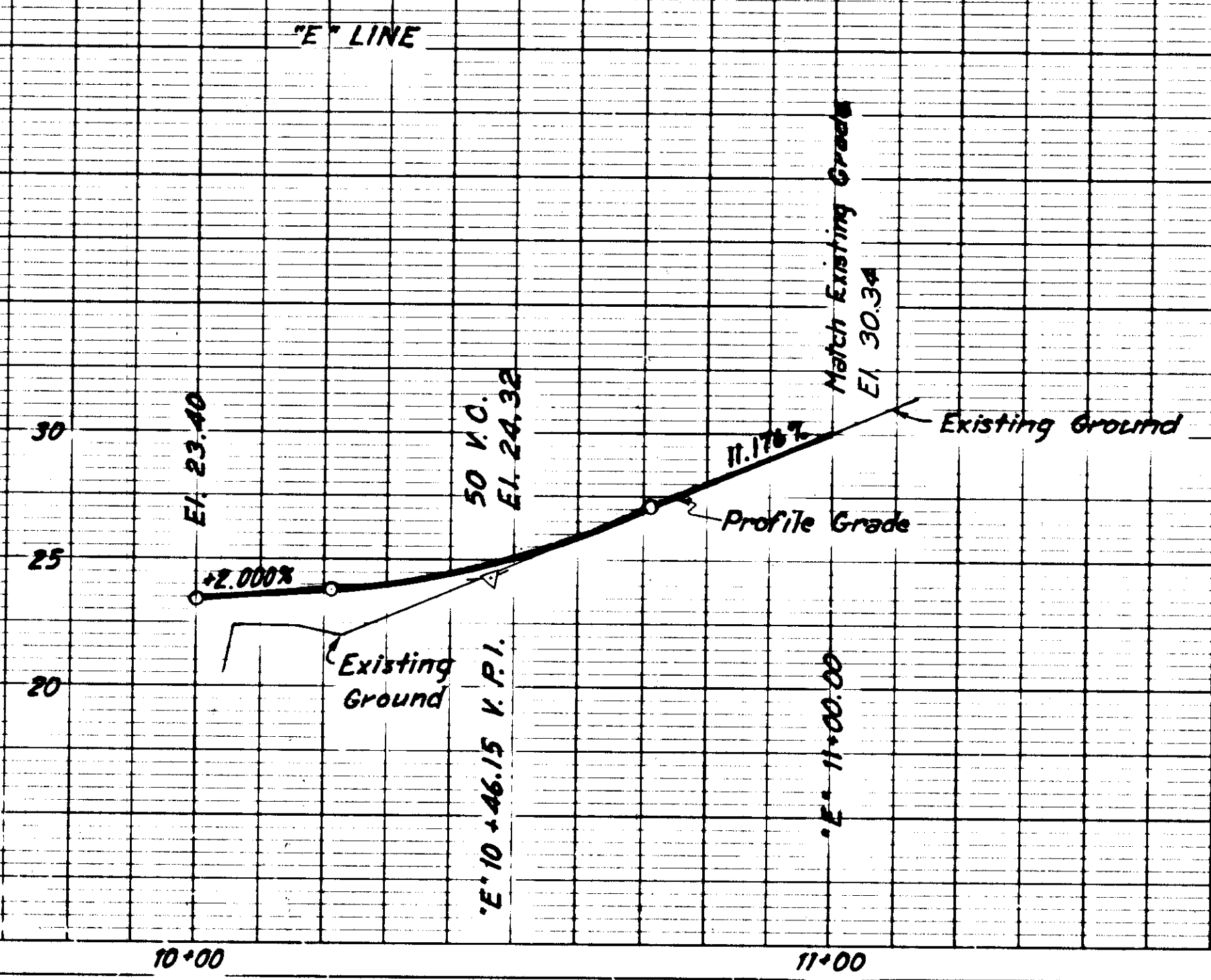
INTERSECTION DETAILS



JOY STREET

constructed as shown

E LINE



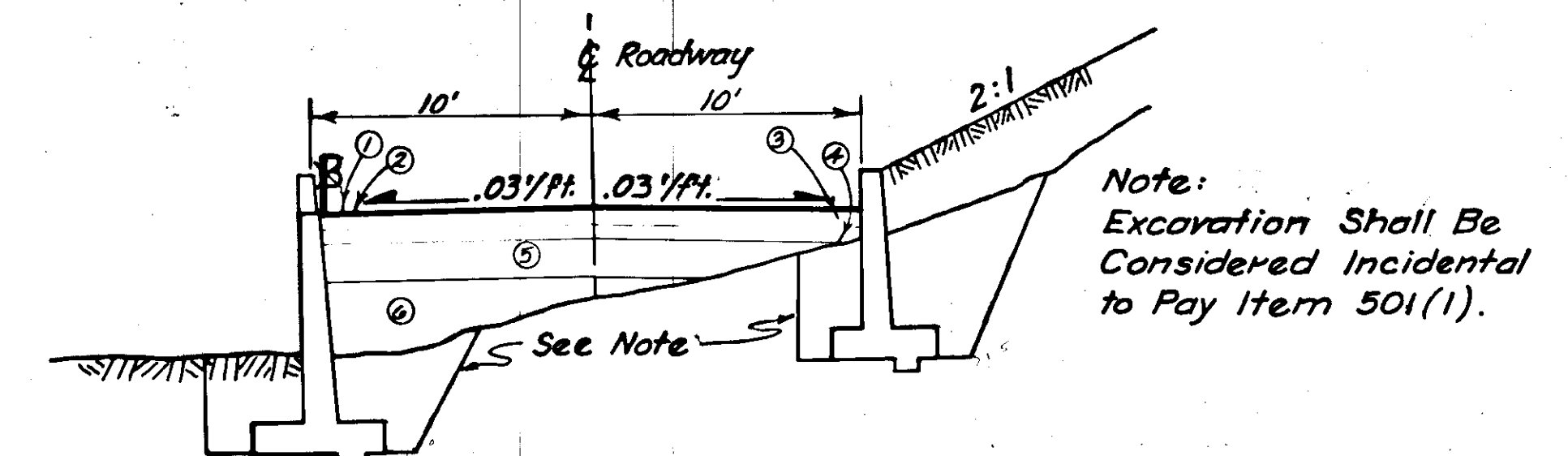
GENERAL NOTES

- For Wall A and B use Standard Drawings B-04.00 and B-05.00.

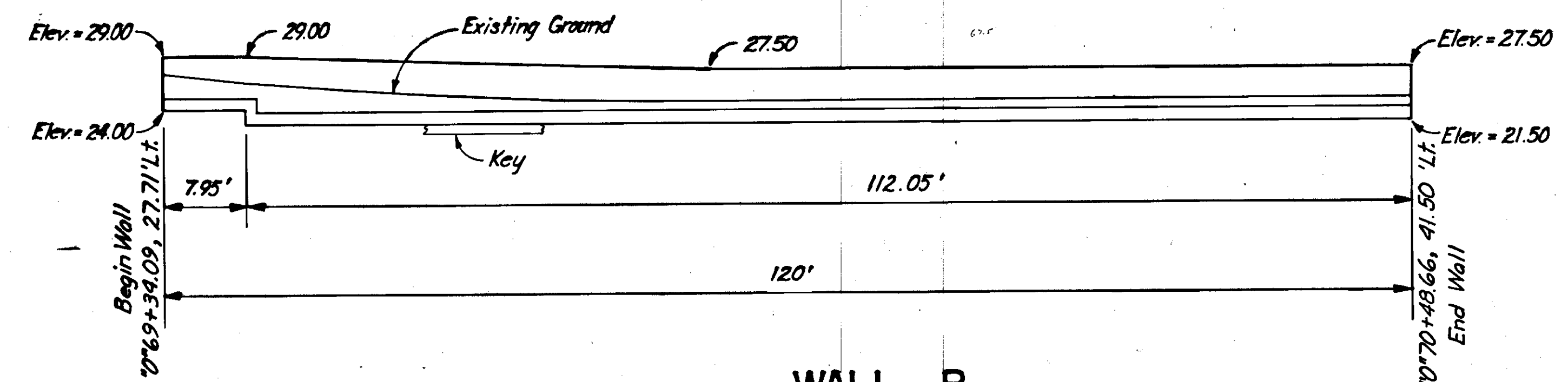
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937(15)	1977	19	47

CANTILEVER WALL DETAIL CANNERY APPROACH

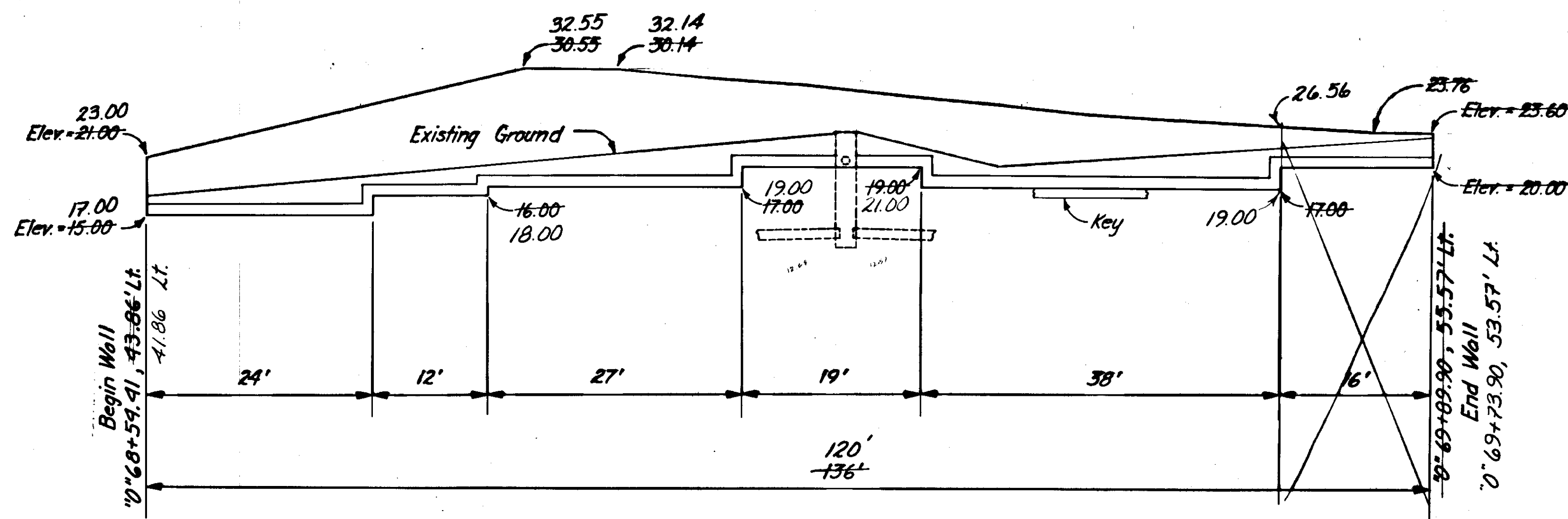
Extra Work Order #3
Sht. 3 of 3
See Labeling Index, Sht. 2.



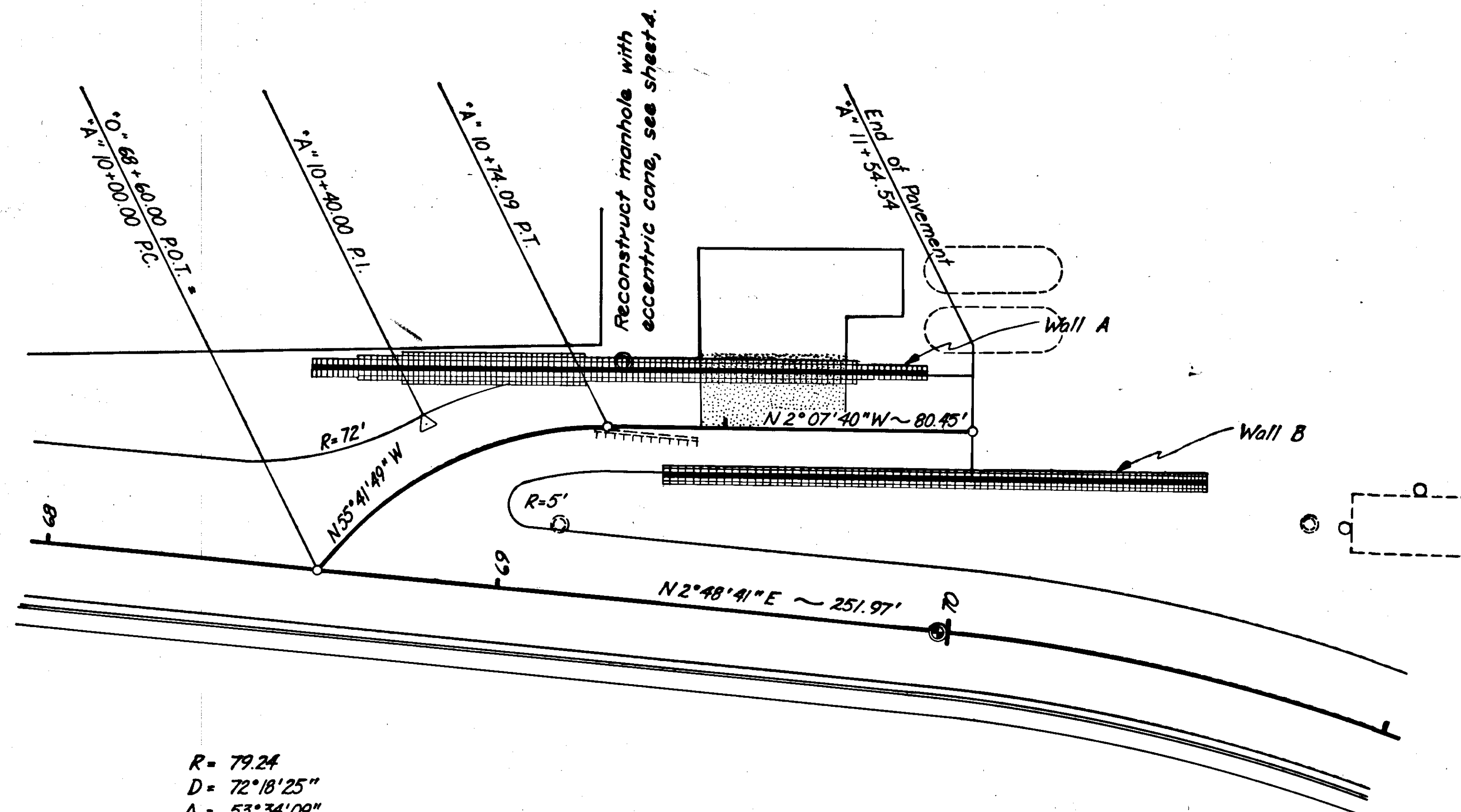
A LINE STANDARD TYPICAL



WALL B ELEVATION VIEW



WALL A ELEVATION VIEW



PLAN VIEW

R = 79.24
D = 72°18'25"
Δ = 53°34'09"
L = 74.08
T = 40

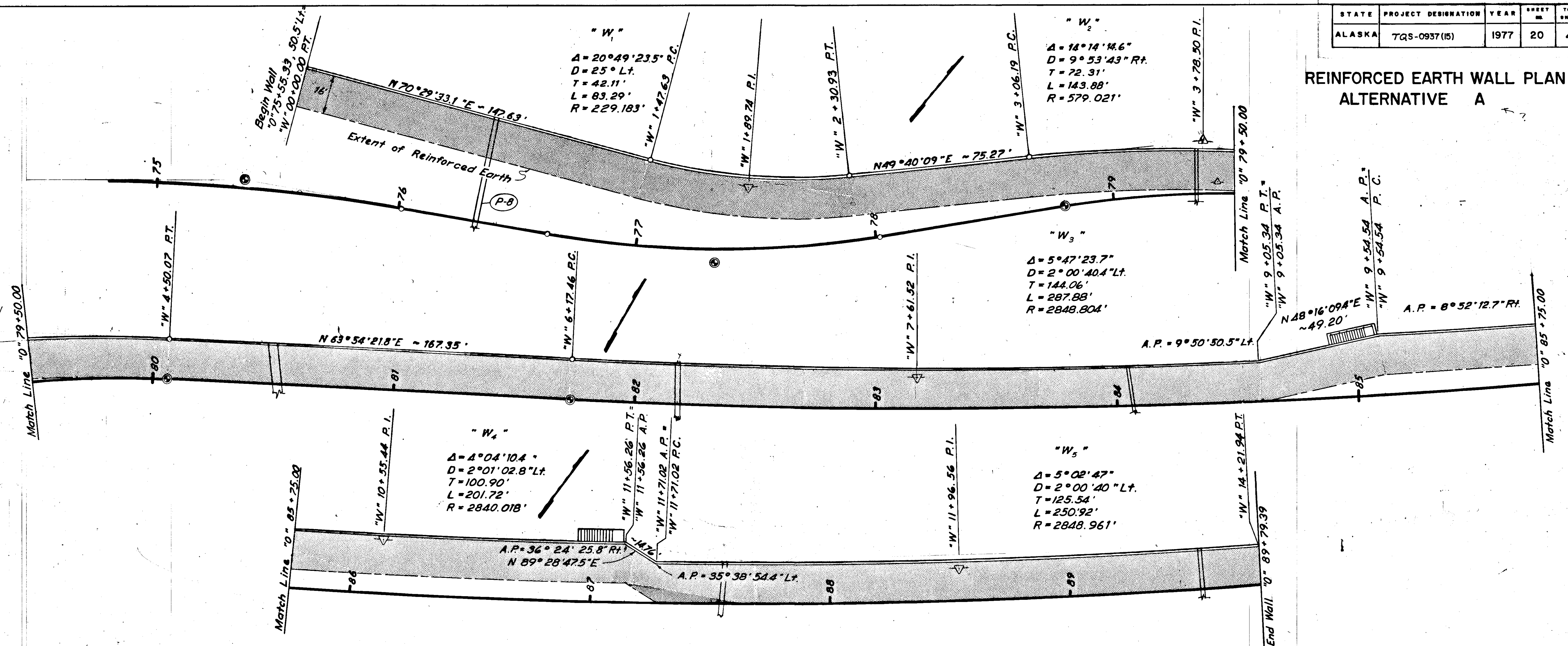
OFFSET TABLE		
Station	Offset	Remarks
68 + 80.89	34.11 Lt.	P.L. "A" 10 + 40
68 + 54.41	43.86 Lt.	Wall A
69 + 89.90	55+57 Lt.	Wall A
69 + 34.09	27.71 Lt.	Wall B
70 + 48.66	41.50 Lt.	Wall B
70 + 00.61	44.49	End of Pavement

* All Offsets are from inside face of Wall.

BEARINGS & DISTANCES	
Bearing	Distance
N 2° 07' 40" W	136'
N 2° 07' 40" W	120'

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7QS-0937(15)	1977	20	47

REINFORCED EARTH WALL PLAN ALTERNATIVE A



OFFSET TABLE

"O" Line Station	Offset *	Wall Station
"O" 75+55.33	50.5'	00+00.00
"O" 76+00.00	44.98'	00+47.78
"O" 77+00.00	35.24'	01+50.28
"O" 78+00.00	25.57'	02+38.58
"O" 79+00.00	19.53'	03+39.64
"O" 80+00.00	16.01'	04+43.85
"O" 81+00.00	16.00'	05+44.09
"O" 82+00.00	16.00'	06+43.92
"O" 83+00.00	16.00'	07+43.37
"O" 84+00.00	16.00'	08+42.82
"O" 84+62.82	16.00'	09+05.34
"O" 85+00.00	22.16'	09+42.77
"O" 85+11.71	24.77'	09+54.54
"O" 86+00.00	24.77'	10+42.21
"O" 87+00.00	24.77'	11+41.21
"O" 87+15.13	24.77'	11+56.26
"O" 87+27.07	16.00'	11+71.02
"O" 88+00.00	16.00'	12+43.55
"O" 89+00.00	16.00'	13+43.27
"O" 89+79.39	16.00'	14+21.94

* All offsets are from inside face of wall.

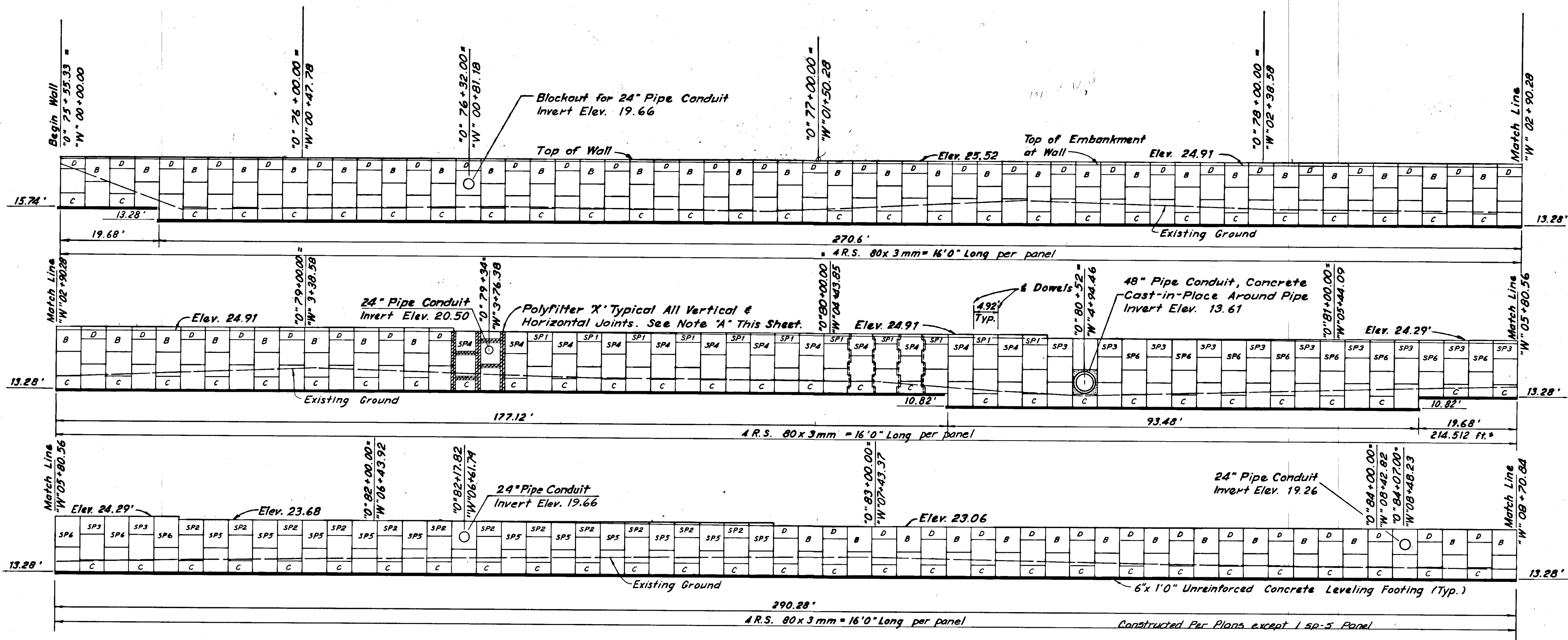
PIPE SUMMARY

Pipe	"O" Line Station	Wall Station	Diameter	Length
P-8	"O" 76+32.00	"W" 00+81.18	24"	56'
	"O" 79+34.00	"W" 03+76.35	24"	38'
	"O" 80+52.00	"W" 04+94.46	48"	48'
	"O" 82+17.82	"W" 06+61.74	24"	46'
	"O" 84+07.00	"W" 08+48.23	24"	44'
	"O" 87+55.00	"W" 11+98.02	24"	46'
	"O" 89+54.00	"W" 13+94.38	24"	46'

Constructed Per Plans

REINFORCED EARTH WALL ELEVATION
ALTERNATIVE A

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (IS)	1977	21	47



ELEVATION (Rear View)

GENERAL NOTES

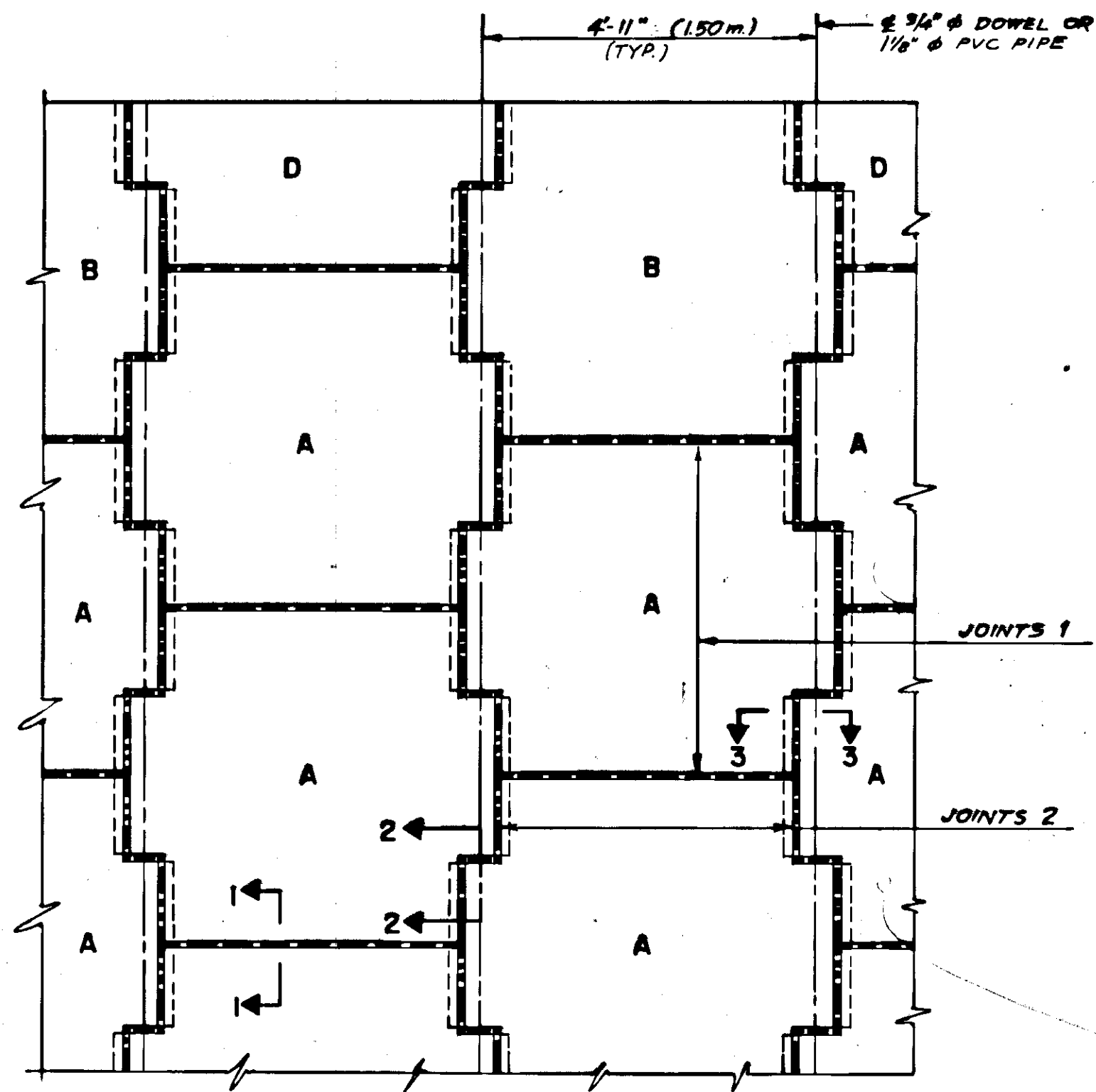
1. All stations are given along centerline survey "0".
2. All panels are type "A" unless otherwise noted.
3. See sheet no. 23 & 24 for details.

NOTE "A": 2'-0" wide strips of polyfilter 'x' shall be placed on the inside face of concrete panel over all joints previously coated with Pliobond 5001 compound. Polyfilter 'x' to be field slit at the tie strip to fit.

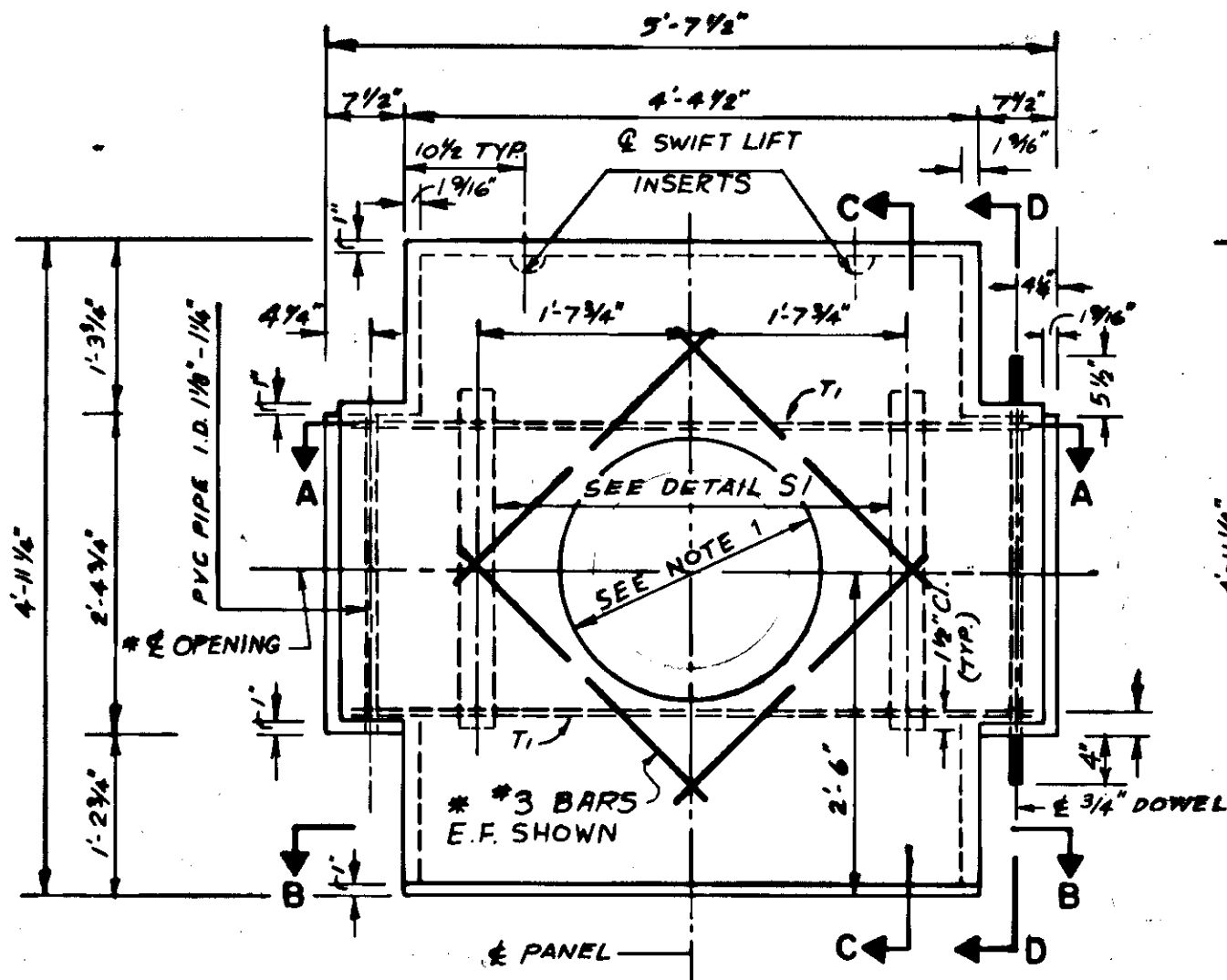
PANEL SCHEDULE														
THICK.	TYPE	Tie Strips	A	B	C	D	SP1	SP2	SP3	SP4	SP5	SP6	A1	B1
7 1/8"			340	107	143	107	12	12	13	12	12	13	2	1

Reinforcing Strips	
Type	Length
80x3mm	3112

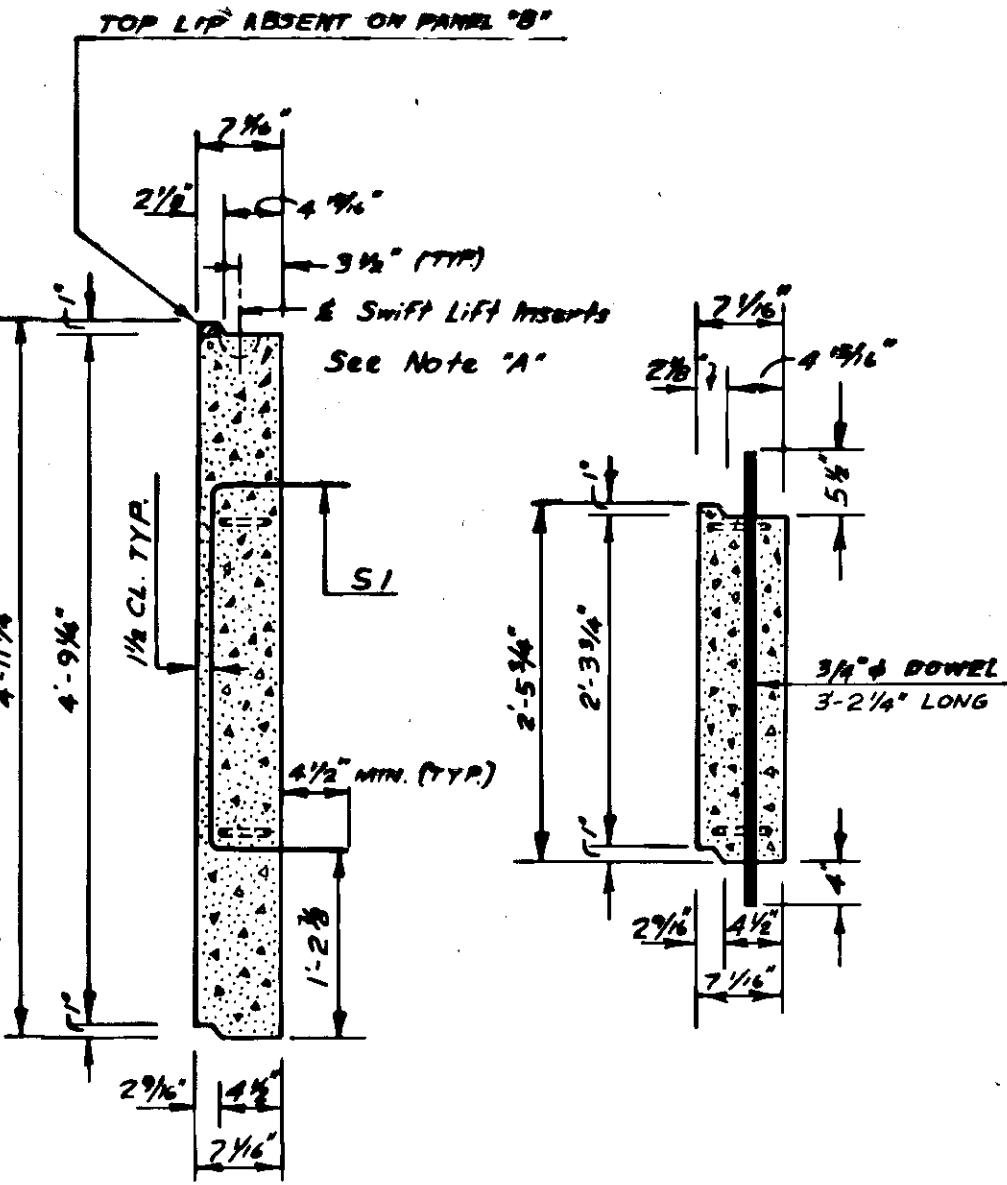
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	23	47



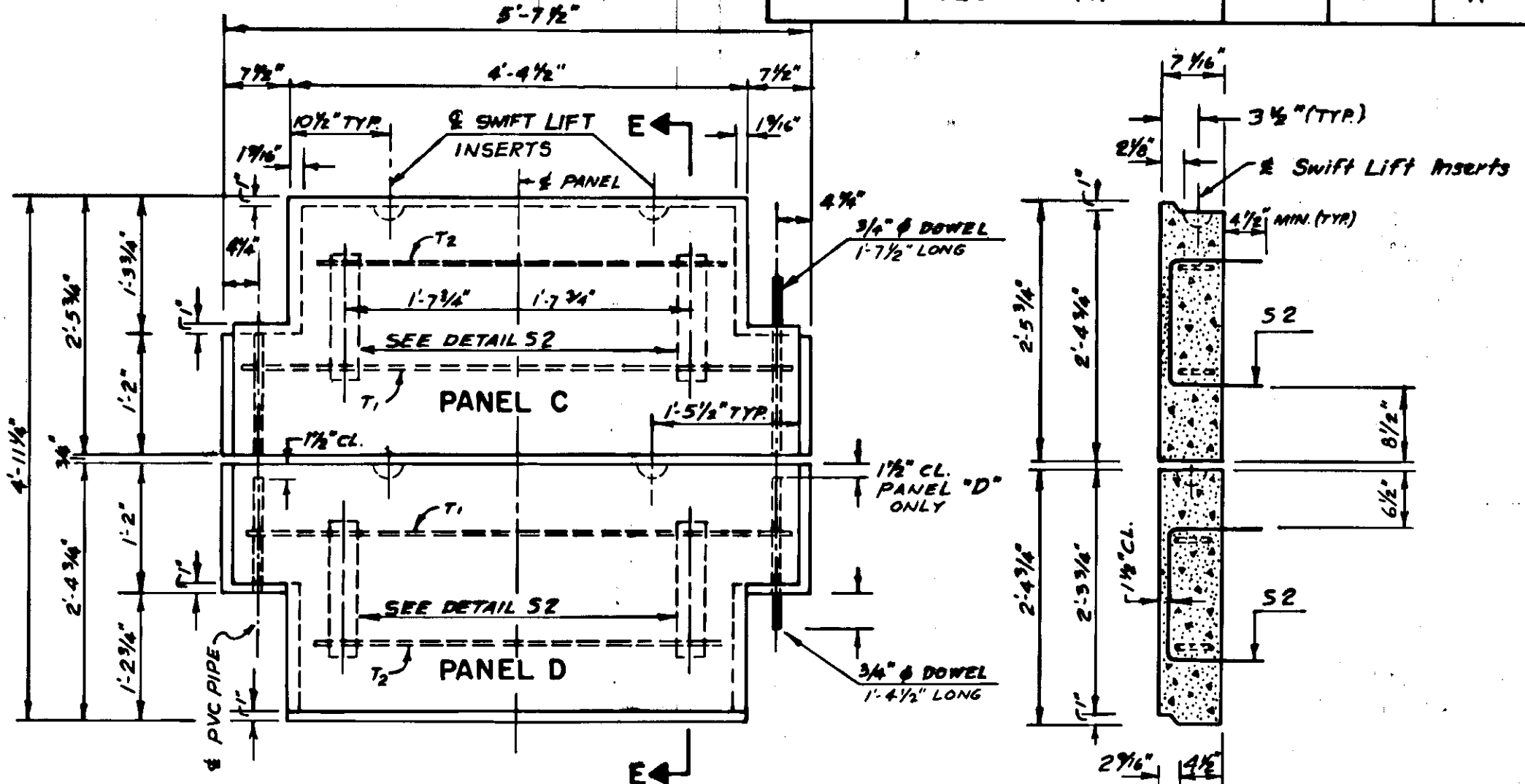
TYPICAL PANEL LAYOUT



* PANEL A1 ONLY
PANELS, TYPE A & B
FRONT VIEW

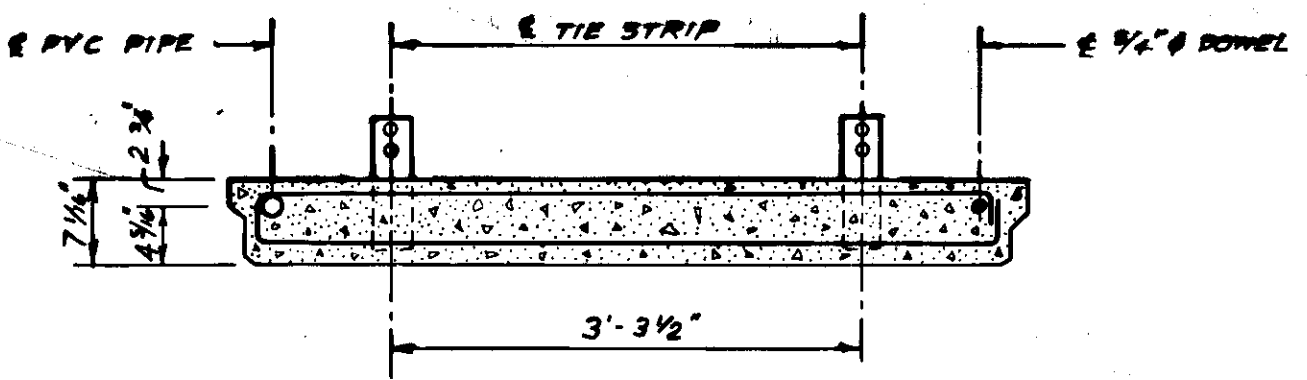


SECTION C-C SECTION D-D

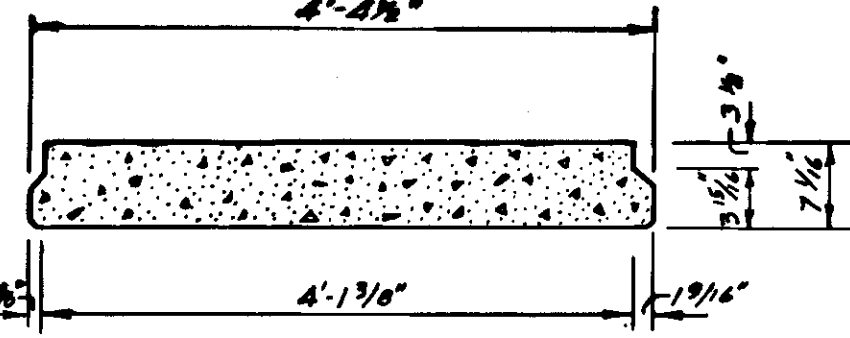


HALF PANELS C & D
FRONT VIEW

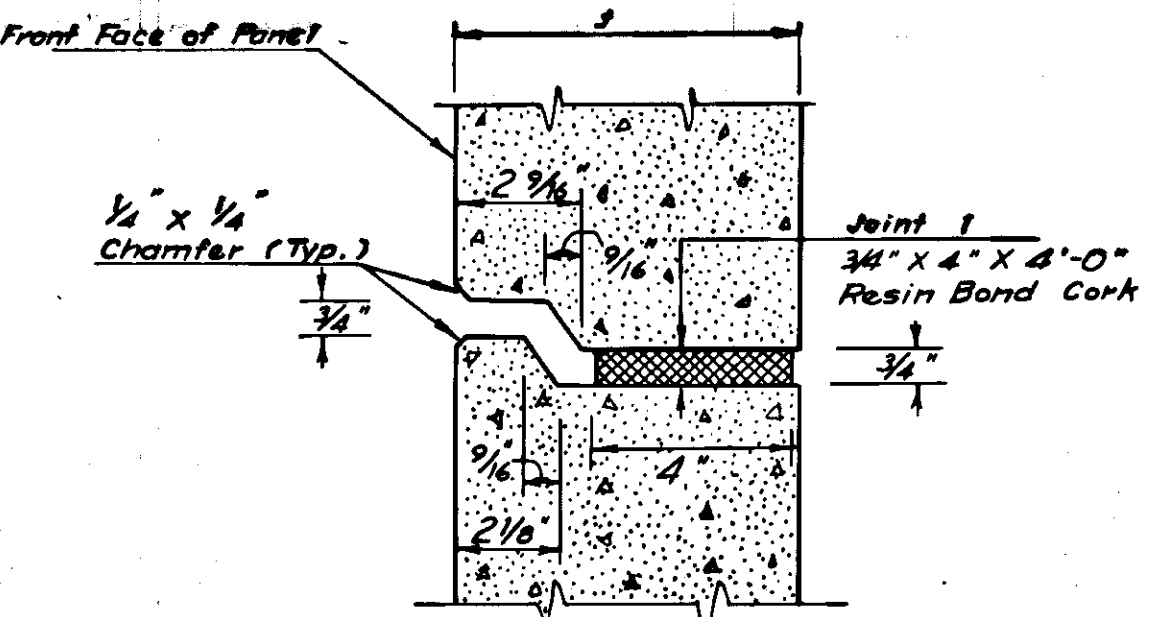
SECTION E-E



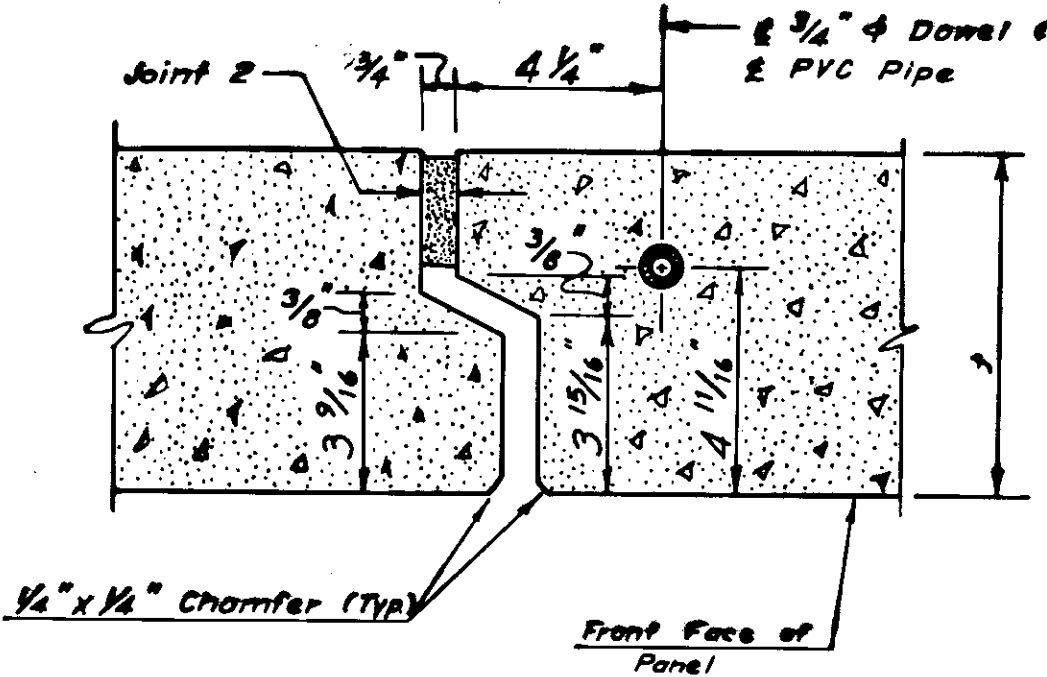
SECTION A-A



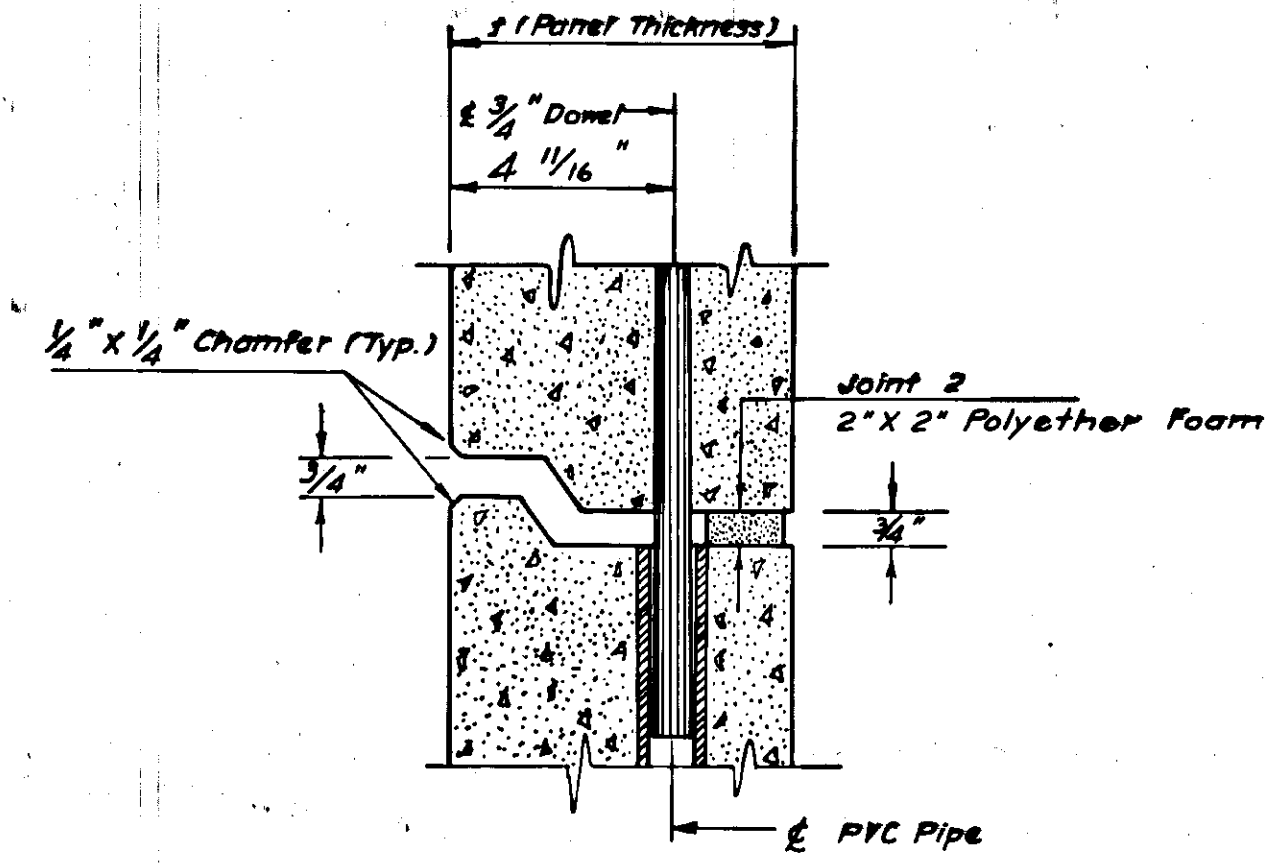
SECTION B-B



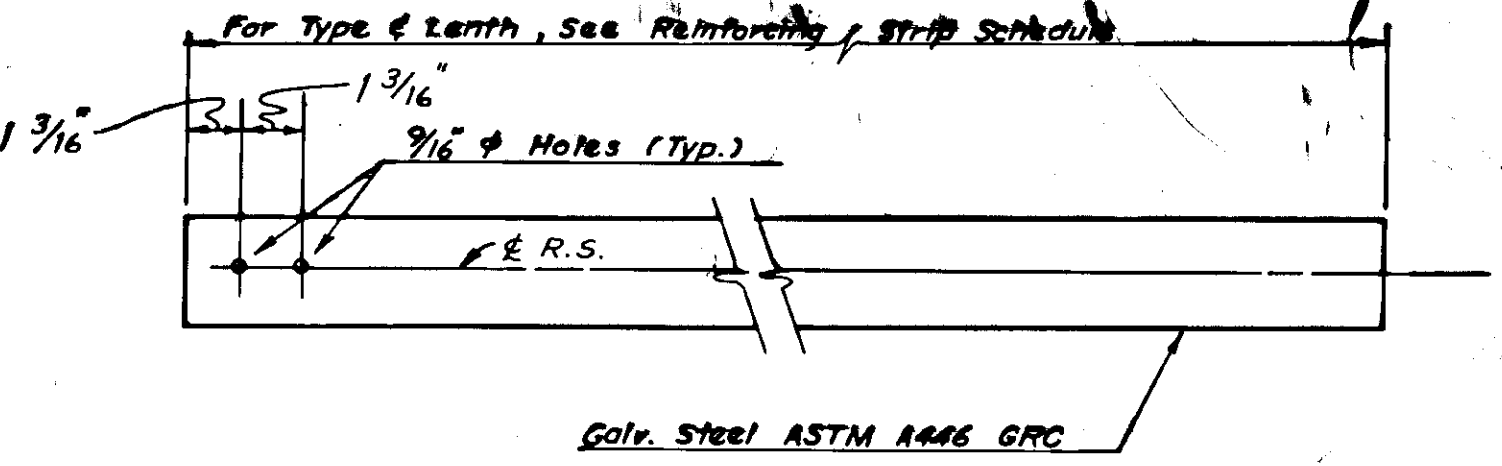
SECTION I-I



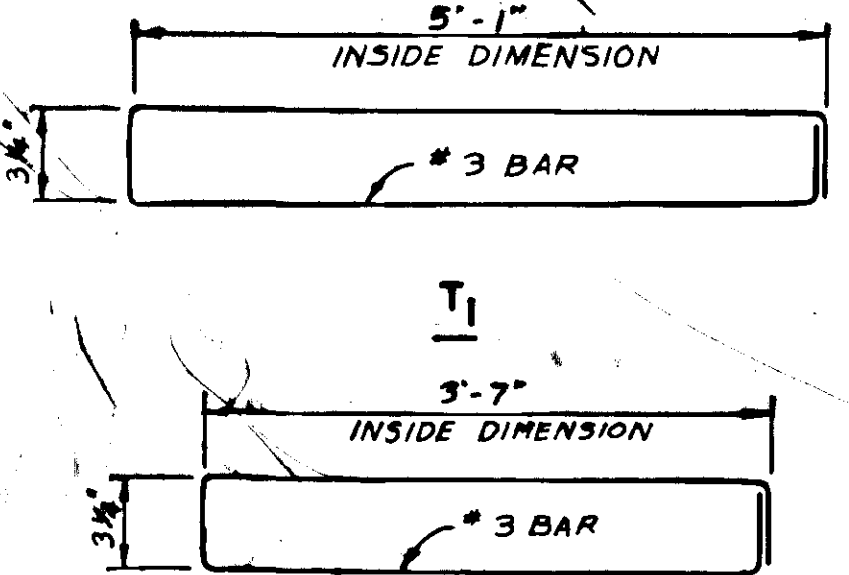
SECTION 3-3



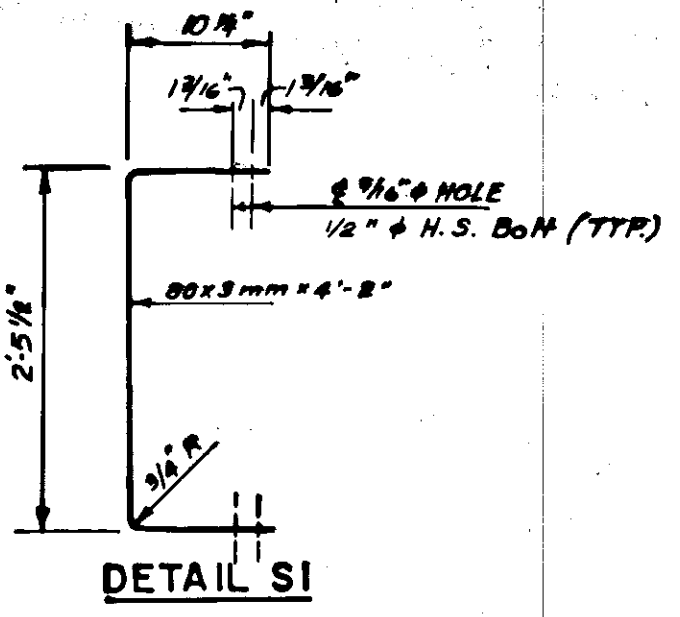
SECTION 2-2



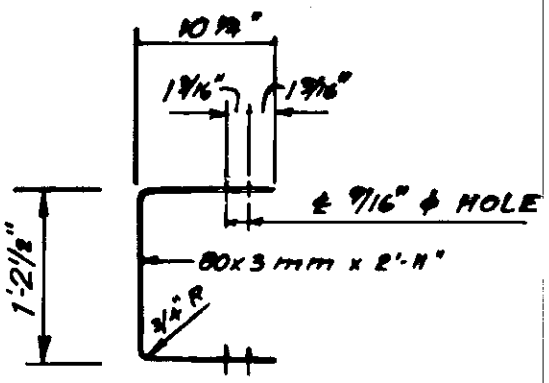
DETAIL OF REINFORCING STRIP



STIRRUP DETAILS



DETAIL S1



DETAIL S2

TIE STRIP DETAILS

NOTE I
Provide a block-out for 24" pipe in panel A-1 at distance as shown in the table. Provide same for panel SP6-1.

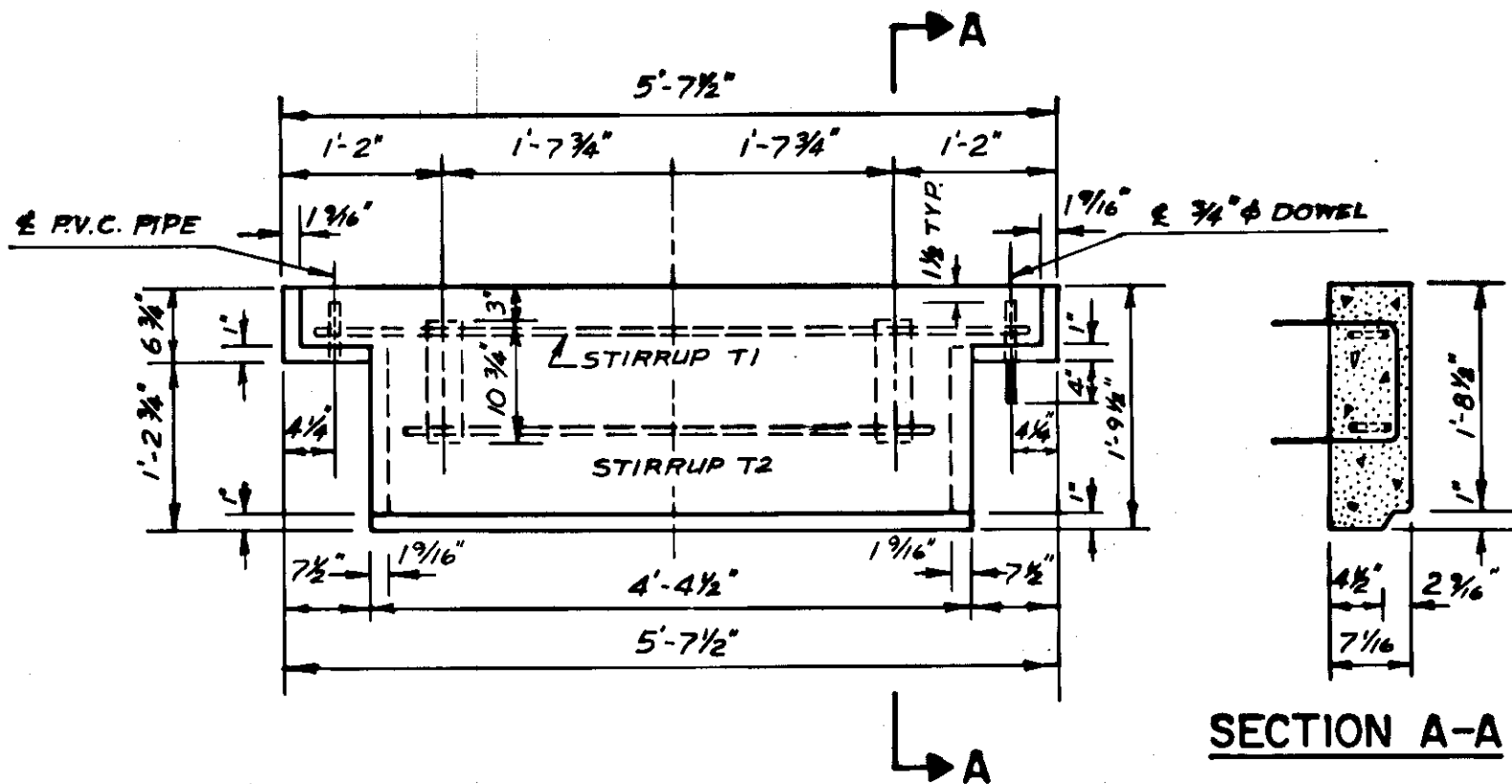
NOTE A
One ton Swift-Lift inserts 3/8" x 3 3/8" long as manufactured by Superior Concrete Accessories.

Fabricated as shown

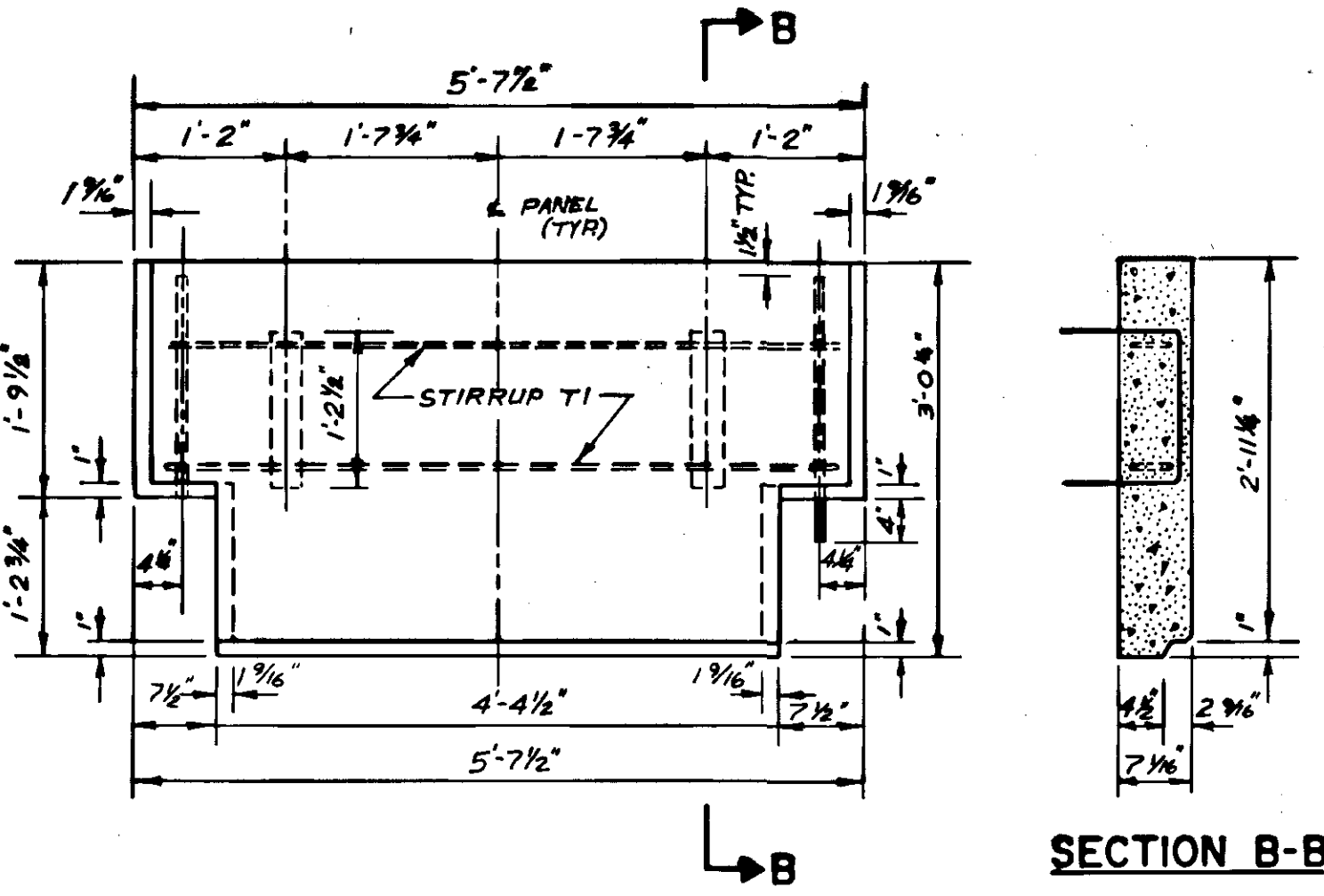
REINFORCED EARTH WALL STANDARD PANELS DETAIL SHEET ALTERNATIVE A

REINFORCED EARTH WALL SPECIAL PANELS - DETAILS
ALTERNATIVE A

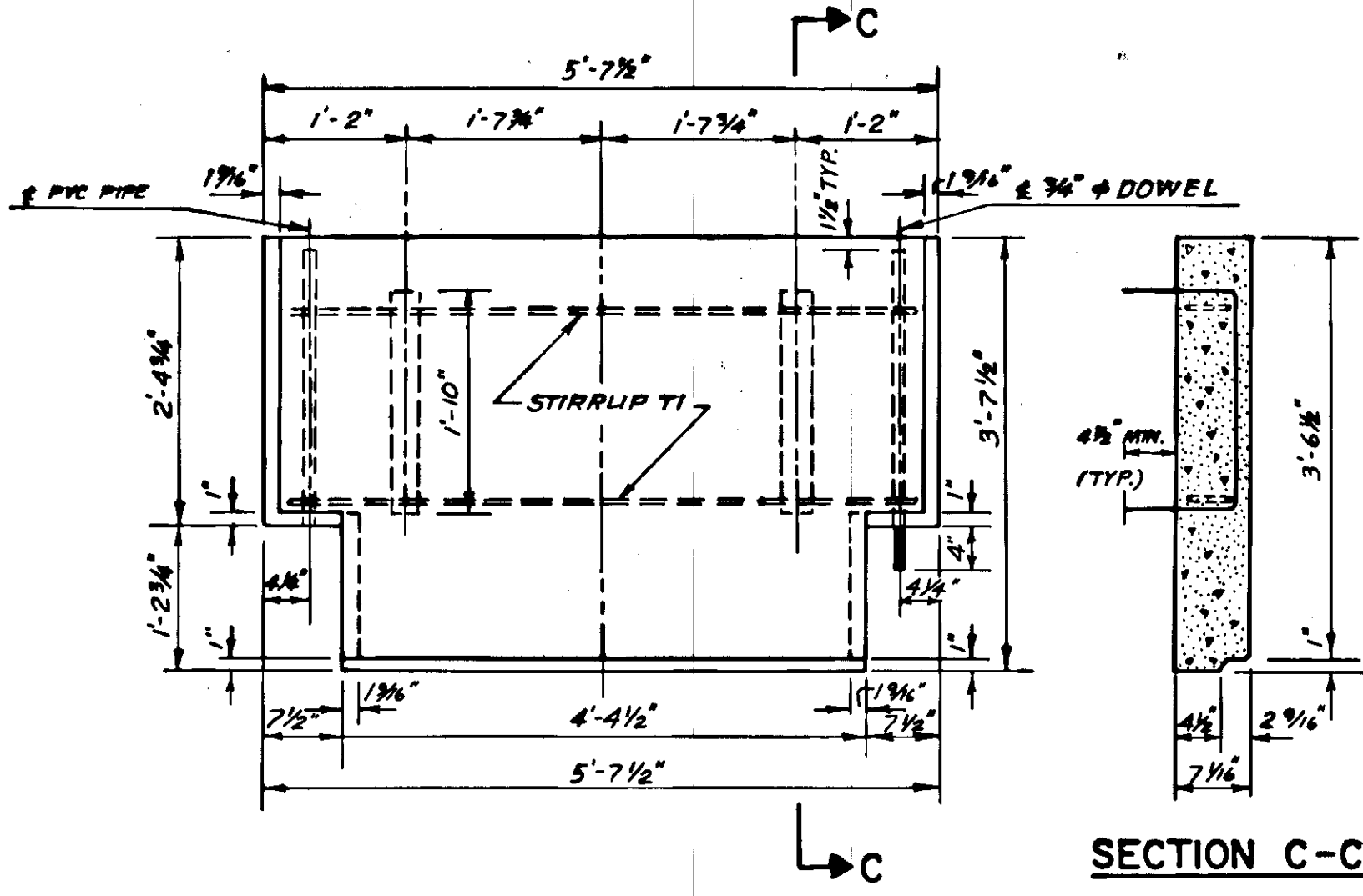
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	24	47



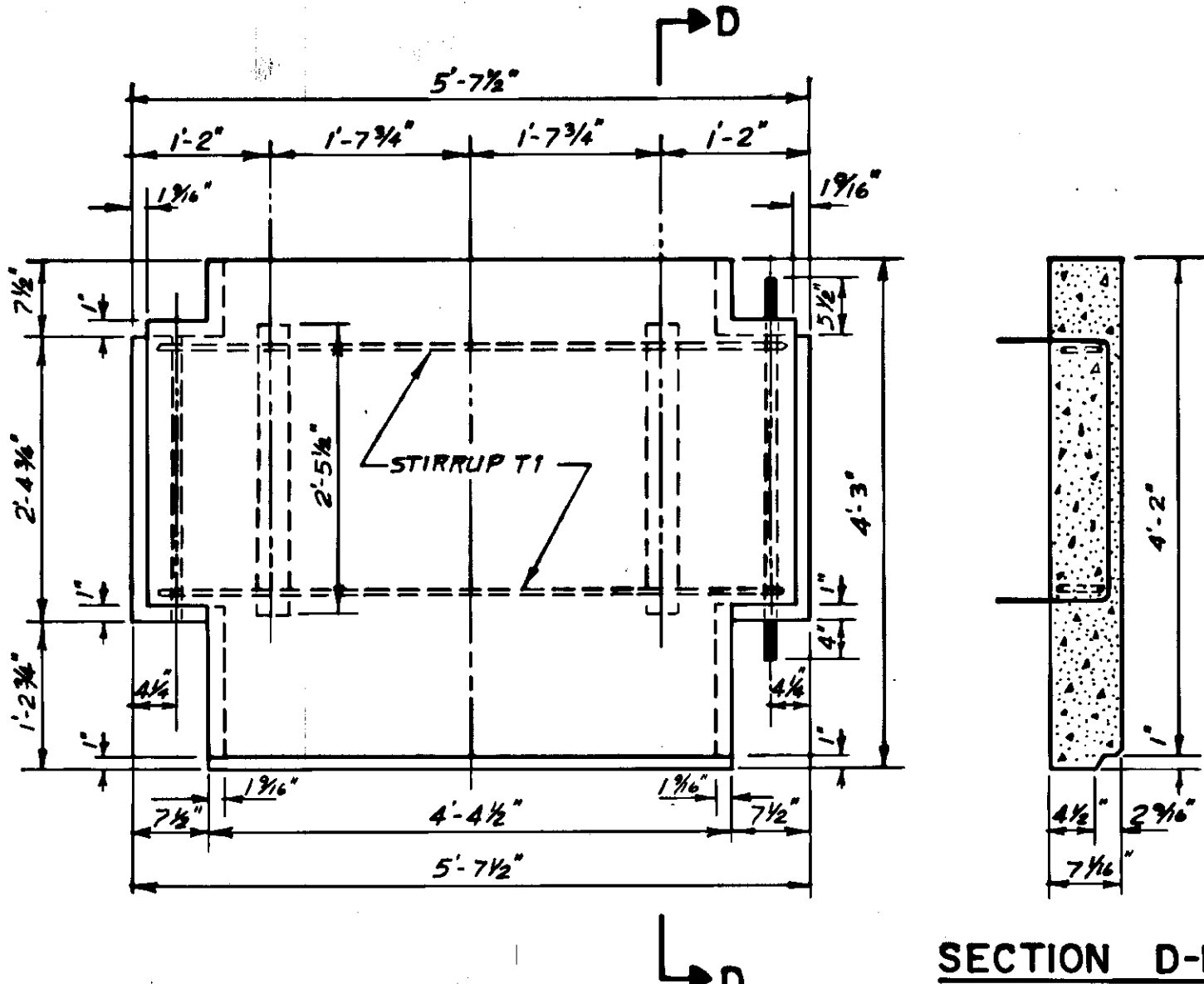
SP1



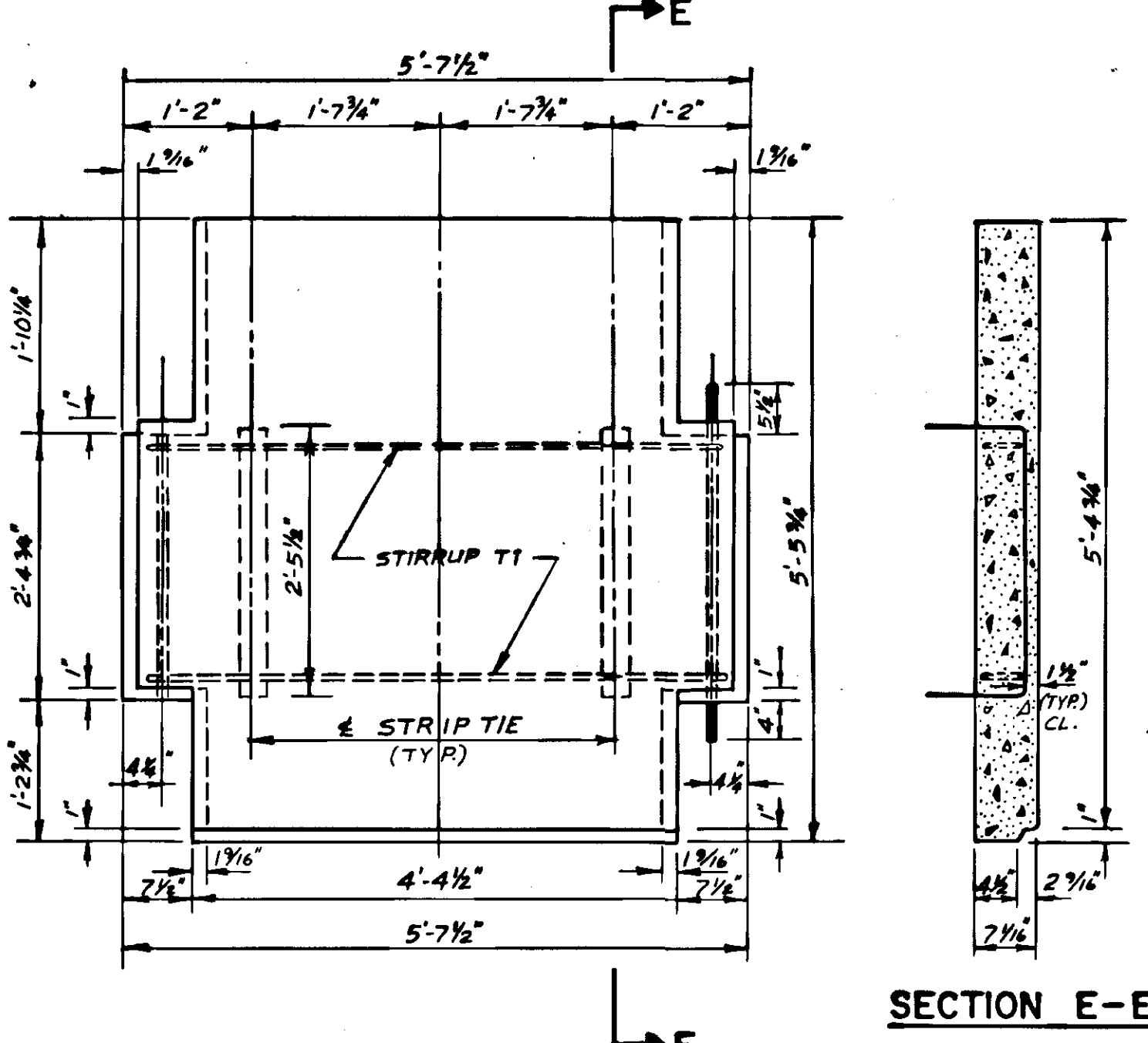
SP2



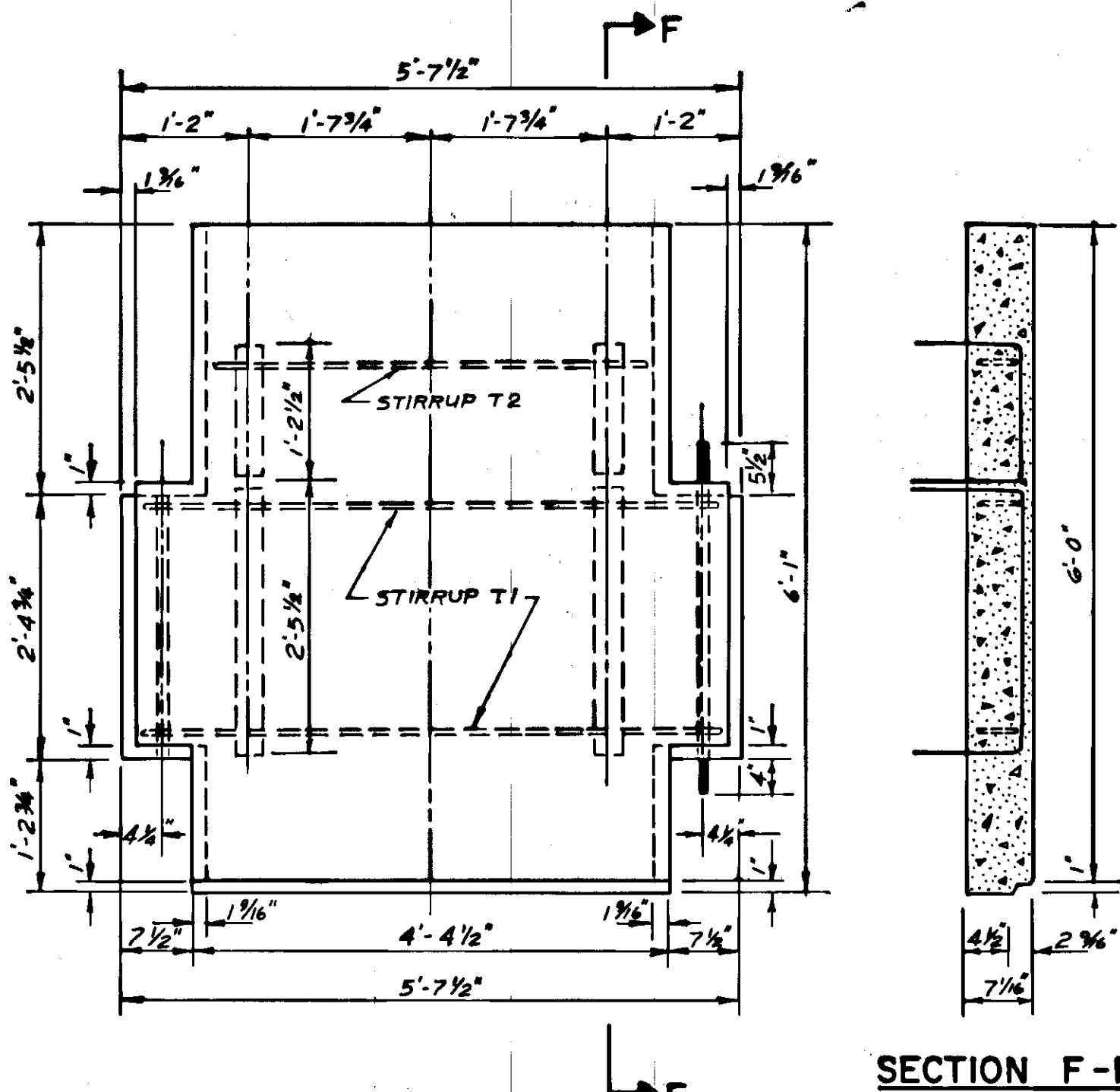
SP3



SP4



SP5



SP6

DOWEL AND TIE STRIP SCHEDULE		
Panel Type	Length of Dowel	Length of Tie Strip
SP1	0'-9 1/2"	2'-7 1/2"
SP2	2'-0"	2'-11"
SP3	2'-7 1/2"	3'-6 1/2"
SP4	3'-2 1/2"	4'-2"
SP5	3'-2 1/2"	4'-2"
SP6	3'-2 1/2"	2'-11 1/4"-2"

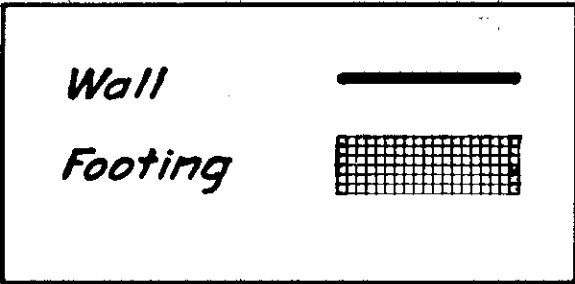
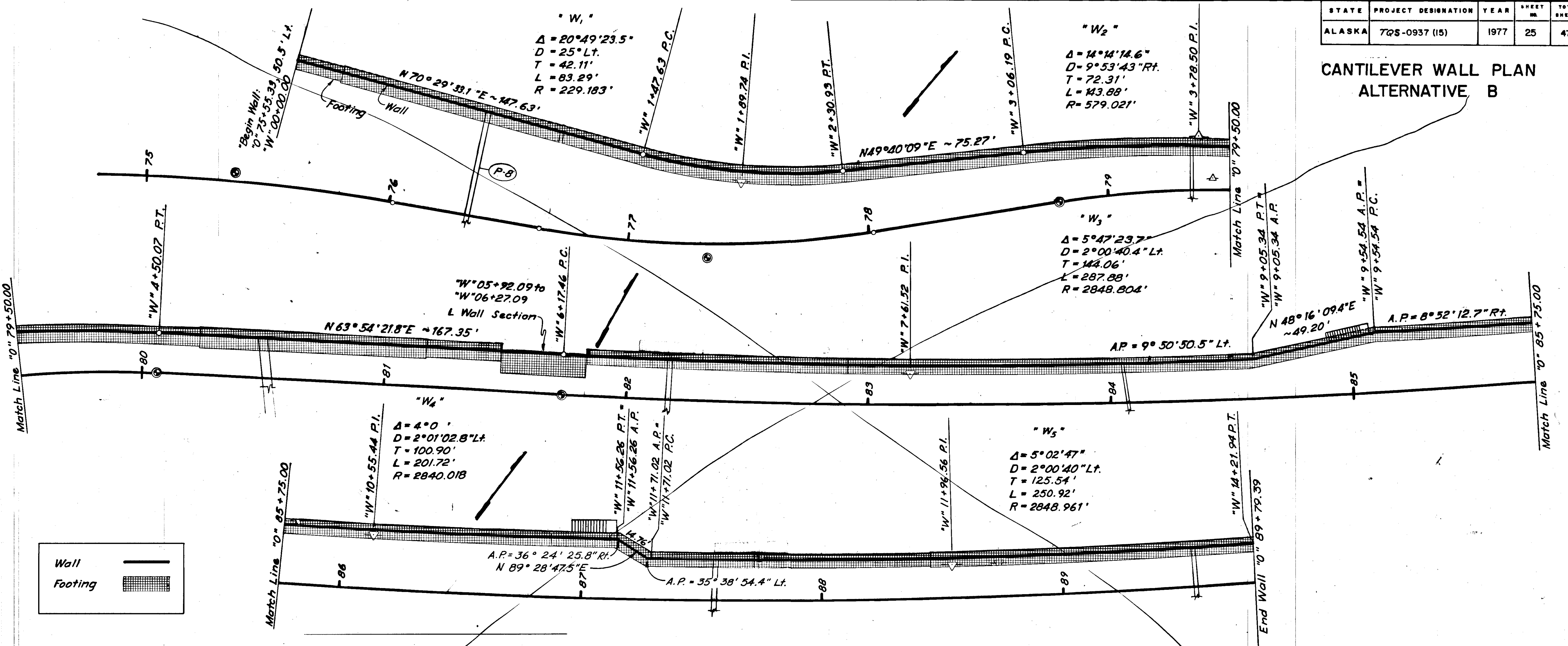
SPECIAL PANELS, DETAILS

Fabricated as shown

- NOTES:
- For details not shown, see sheet no. 23
 - For location of Swift-lift Inserts, see sheet no. 23

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7QS-0937 (15)	1977	25	47

CANTILEVER WALL PLAN ALTERNATIVE B



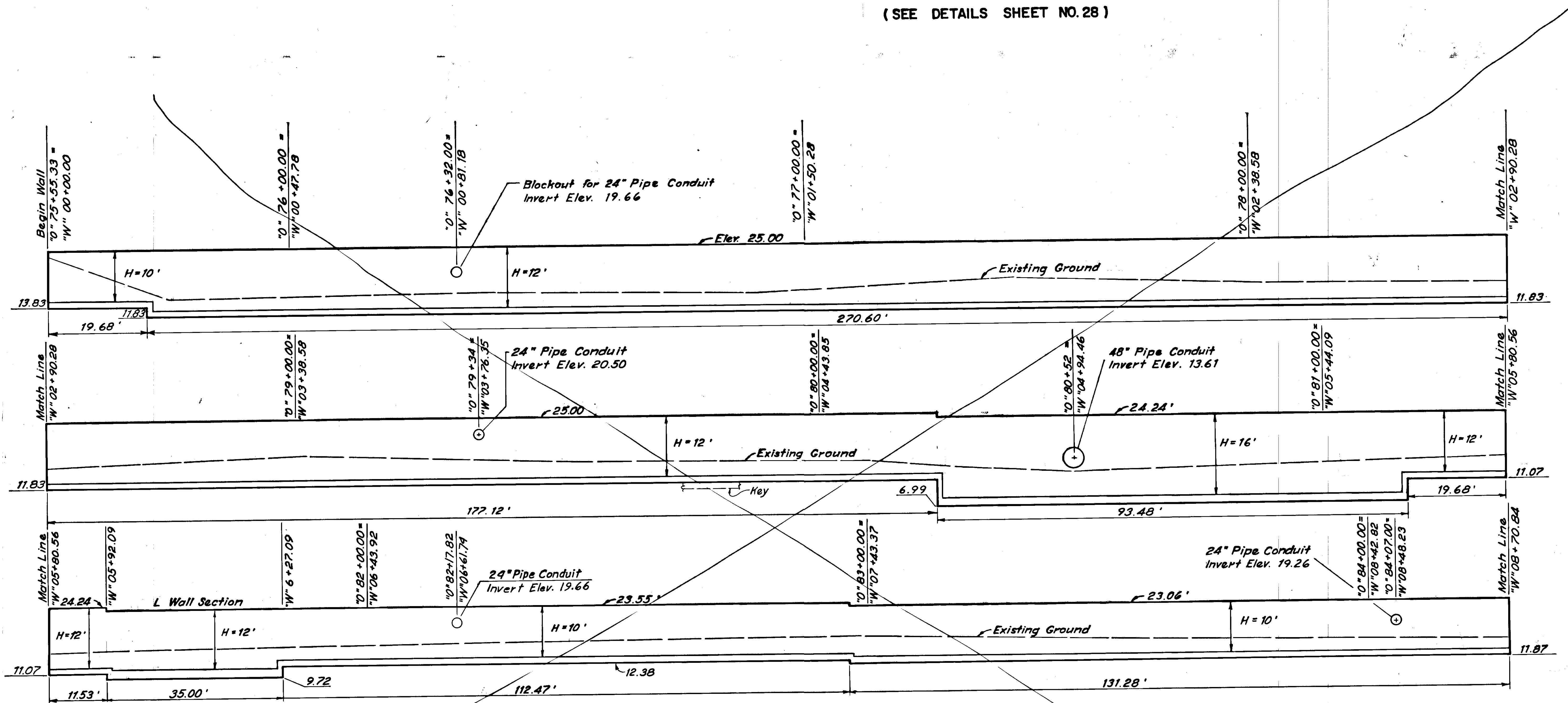
OFFSET TABLE		
"O" Line Station	Offset *	Wall Station
"O" 75+55.33	50.5'	00+00.00
"O" 76+00.00	44.98'	00+47.78
"O" 77+00.00	35.24'	01+50.28
"O" 78+00.00	25.57'	02+38.58
"O" 79+00.00	19.53'	03+39.64
"O" 80+00.00	16.01'	04+43.85
"O" 81+00.00	16.00'	05+44.09
"O" 82+00.00	16.00'	06+43.92
"O" 83+00.00	16.00'	07+43.37
"O" 84+00.00	16.00'	08+42.82
"O" 84+62.82	16.00'	09+05.34
"O" 85+00.00	22.16'	09+42.77
"O" 85+11.71	24.77'	09+54.54
"O" 86+00.00	24.77'	10+42.21
"O" 87+00.00	24.77'	11+41.21
"O" 87+15.13	24.77'	11+56.26
"O" 87+27.07	16.00'	11+71.02
"O" 88+00.00	16.00'	12+43.55
"O" 89+00.00	16.00'	13+43.27
"O" 89+79.39	16.00'	14+21.94

PIPE SUMMARY				
Pipe	"O" Line Station	Wall Station	Diameter	Length
P-8	"O" 76+32.00	"W" 00+81.18	24"	56'
	"O" 79+34.00	"W" 03+76.35	24"	38'
	"O" 80+52.00	"W" 04+94.46	48"	48'
	"O" 82+17.82	"W" 06+61.74	24"	46'
	"O" 84+07.00	"W" 08+48.23	24"	44'
	"O" 87+55.00	"W" 11+98.02	24"	46'
	"O" 89+54.00	"W" 13+94.38	24"	46'

not used

CANTILEVER WALL ELEVATIONS ALTERNATIVE B (SEE DETAILS SHEET NO.28)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	26	47



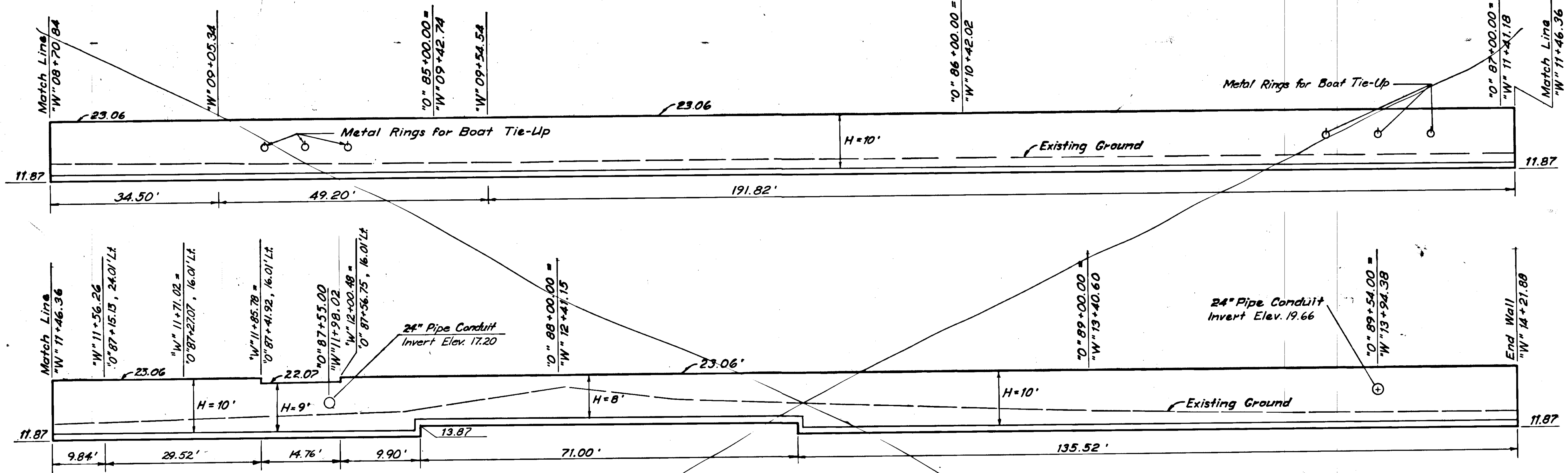
ELEVATION (Rear View)

not used

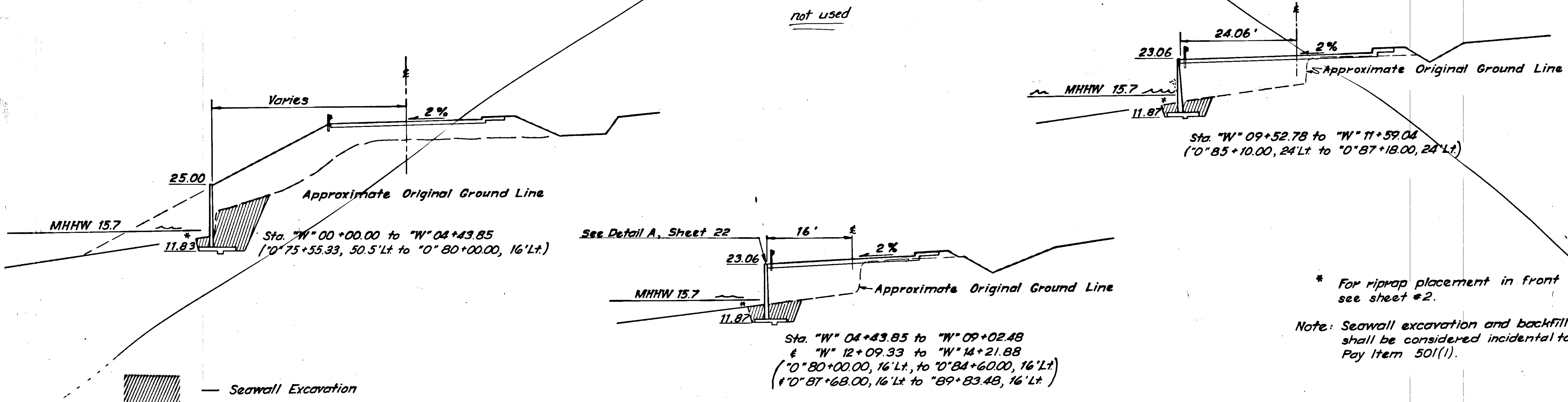
CANTILEVER WALL ELEVATIONS & TYPICAL SECTIONS

ALTERNATIVE B
(SEE DETAILS SHEET NO. 28)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	27	47



ELEVATION (Rear View)

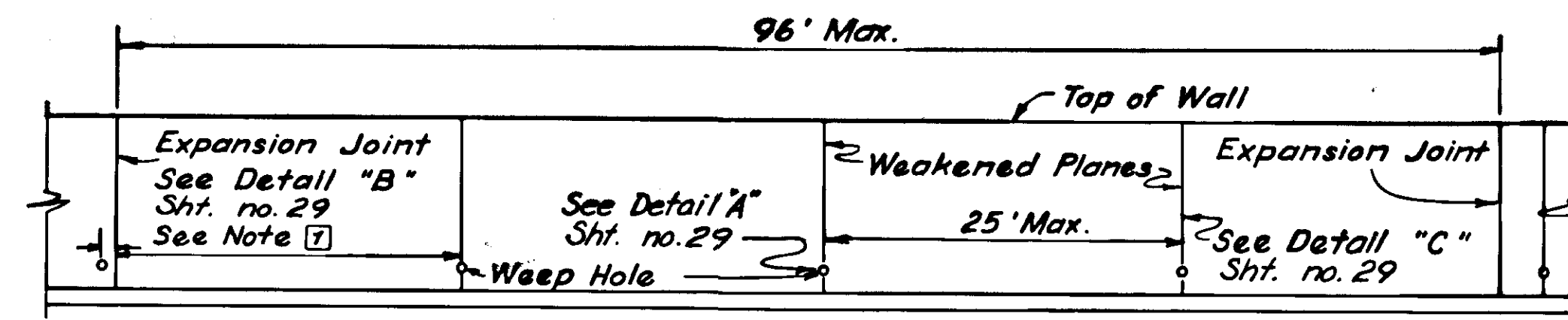


* For riprap placement in front of wall see sheet #2.
Note: Seawall excavation and backfill shall be considered incidental to Pay Item 501(1).

CANTILEVER WALL - DETAILS ALTERNATIVE B

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7QS-0937 (15)	1977	28	47

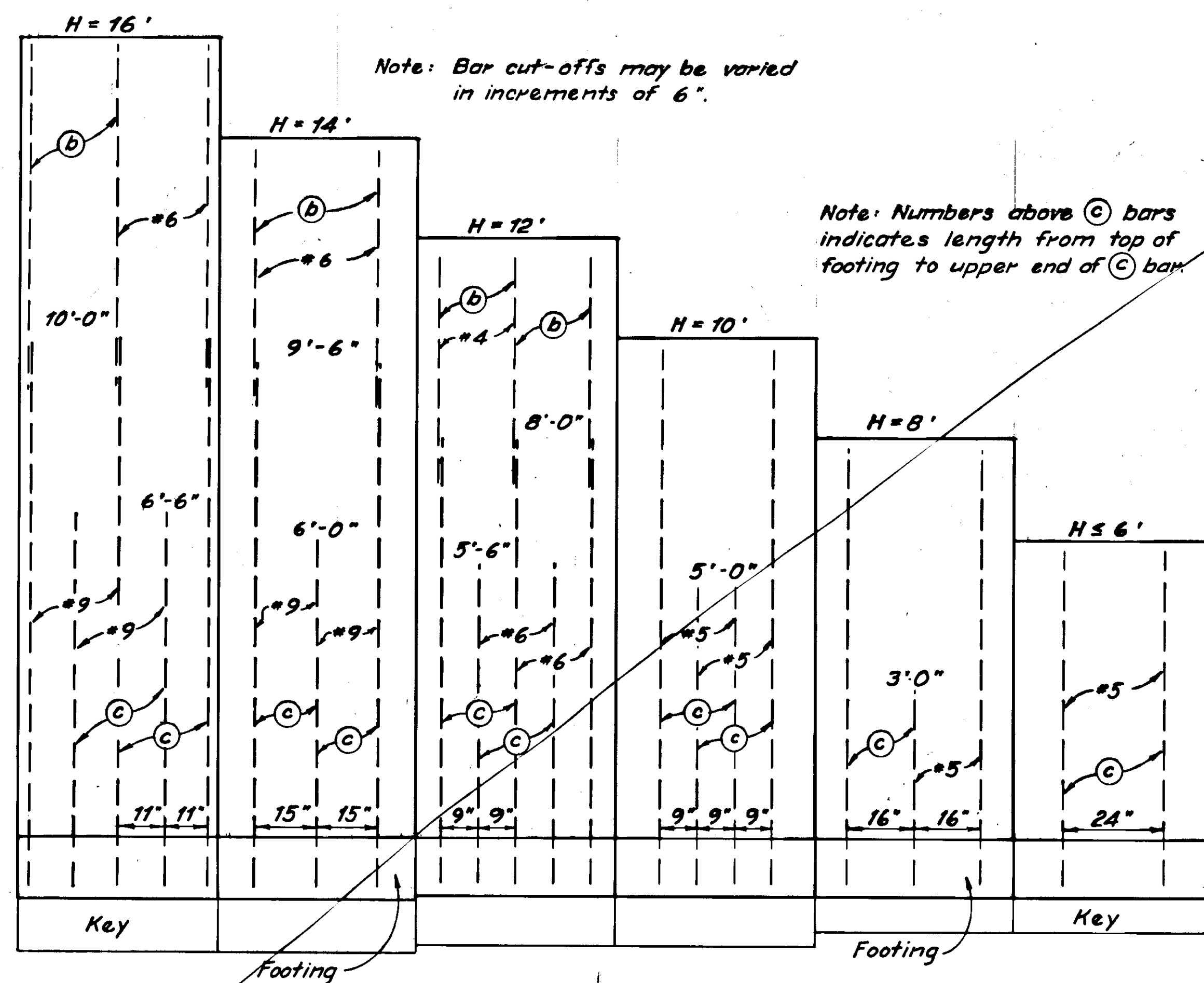
WALL DIMENSIONS AND REINFORCING STEEL TABLE							
Design H	6' or less	8'	10'	12'	14'	16'	
W	5'-6"	6'-6"	7'-6"	8'-5"	9'-3"	10'-3"	
C	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	
B	4'-2"	4'-10"	5'-6"	6'-1"	6'-7"	7'-3"	
F Spread Footing	1'-2"	1'-2"	1'-2"	1'-2"	1'-3"	1'-3"	
Ⓐ bars				#4 @ 18"	#6 @ 30"	#6 @ 22"	
Ⓒ bars	#5 @ 24"	#5 @ 16"	#5 @ 9"	#6 @ 9"	#9 @ 15"	#9 @ 11"	
Ⓓ bars	#5 @ 24"	#4 @ 16"	#4 @ 9"	#5 @ 9"	#8 @ 15"	#8 @ 11"	
Stem Offset	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	
2:1 Unlimited slope	Toe Pressure in k./s. f.	1.5	2.0	2.5	2.7	3.3	3.6
Spread Footing	Steel lb./ft.	20	28	37	51	80	105
	Conc. cf./ft.	15.5	17.3	24.0	29.4	34.01	38.2



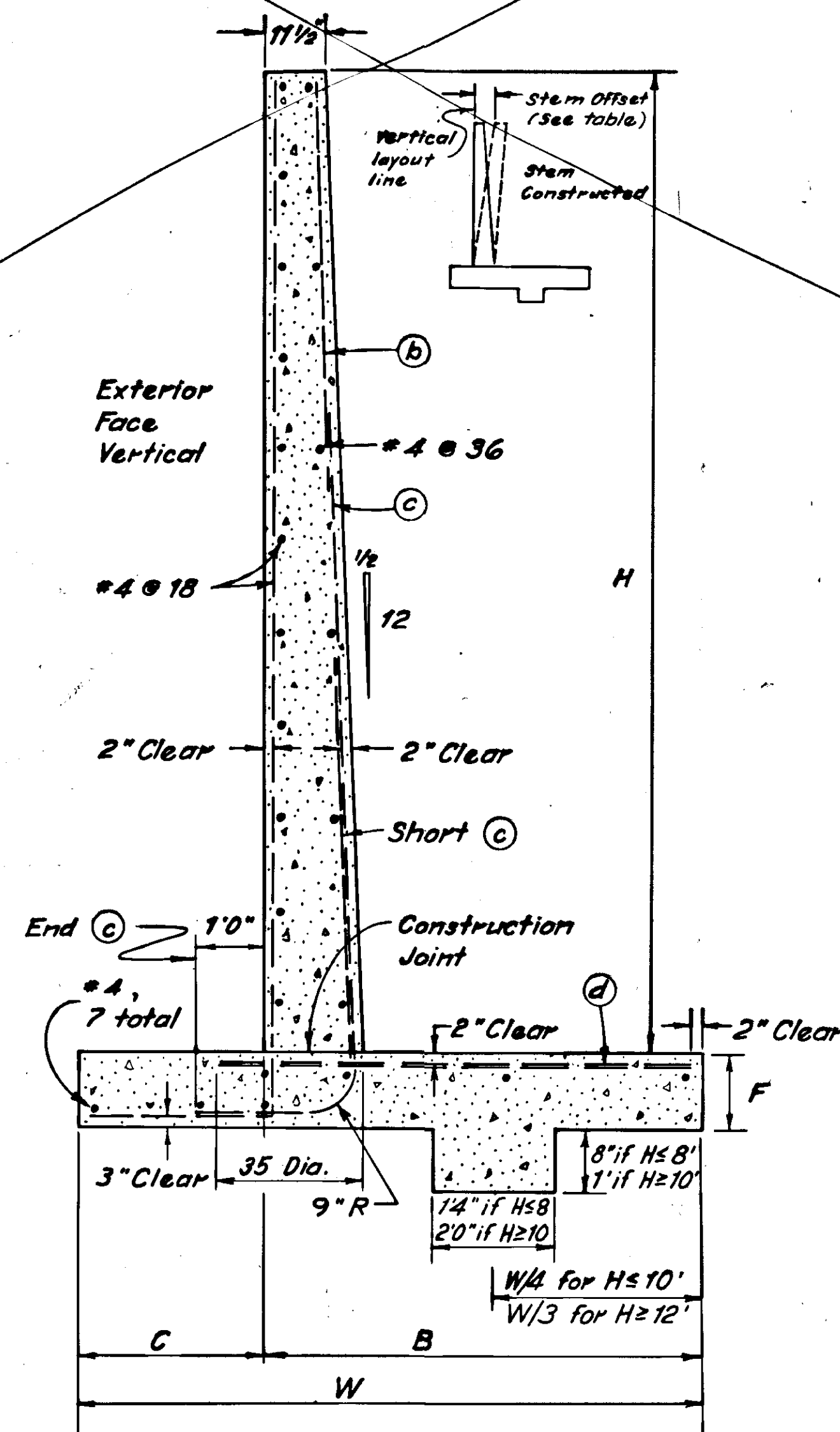
7 Weep holes shall be a min. of 1' and a max. of 24' from expansion joints.

PLACEMENT OF WEEP HOLES, WEAKENED PLANES, & EXPANSION JOINTS

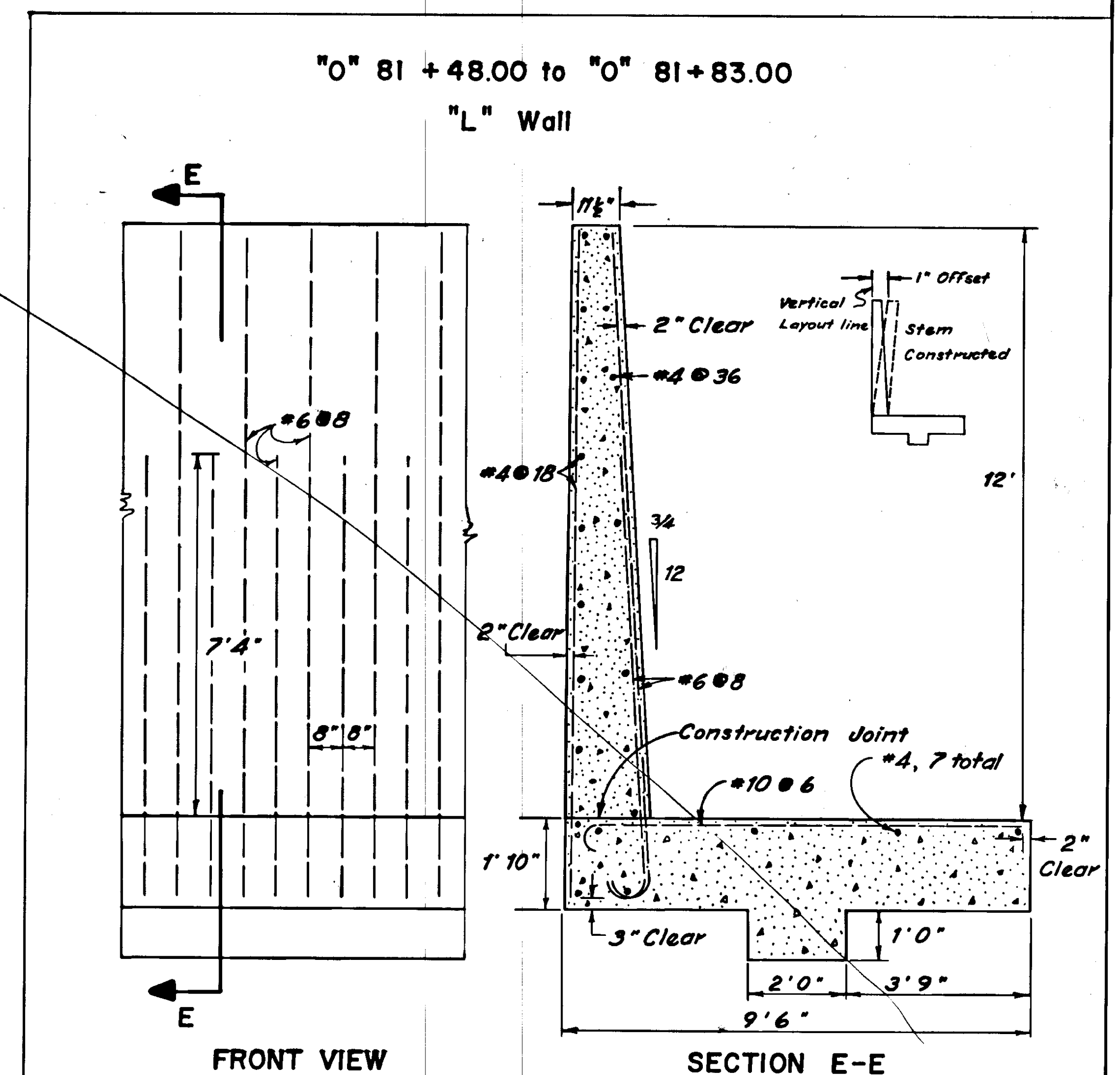
Not Used



FRONT VIEW



TYPICAL WALL SECTION

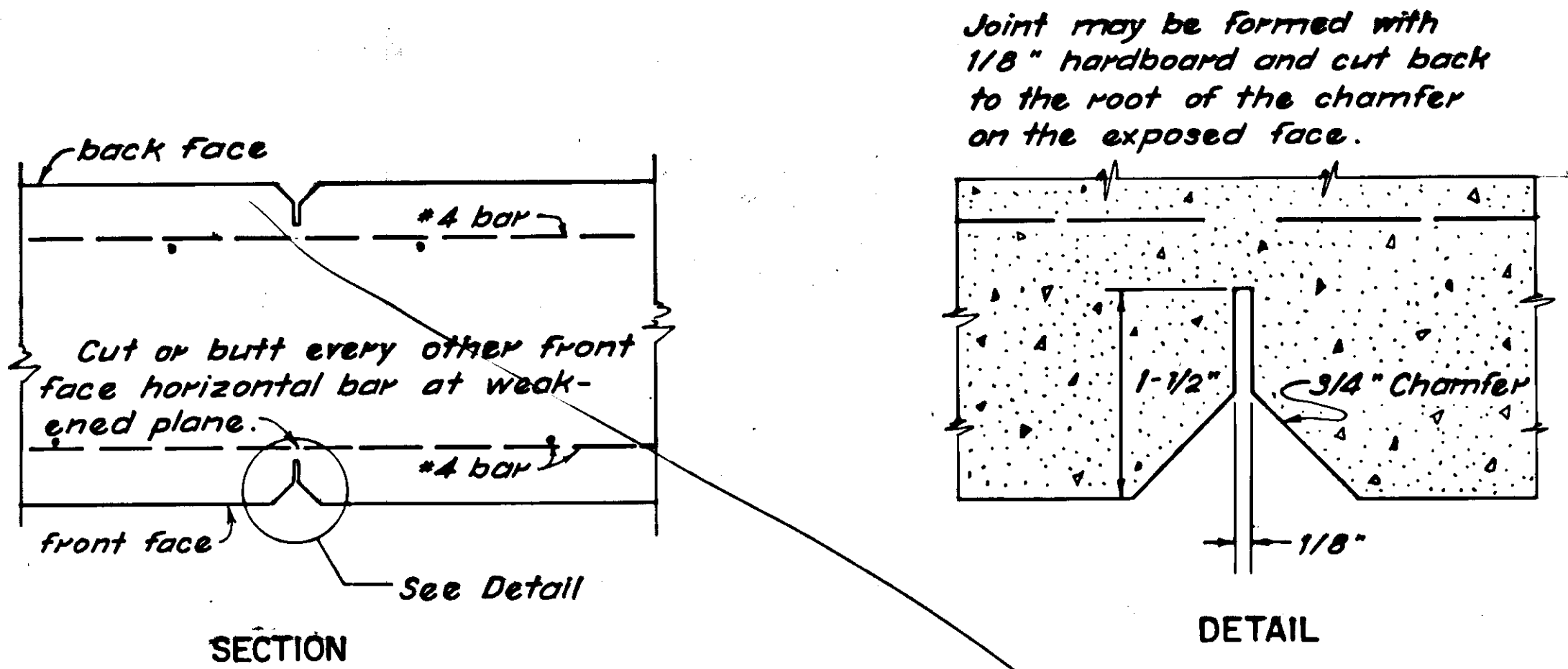


FRONT VIEW

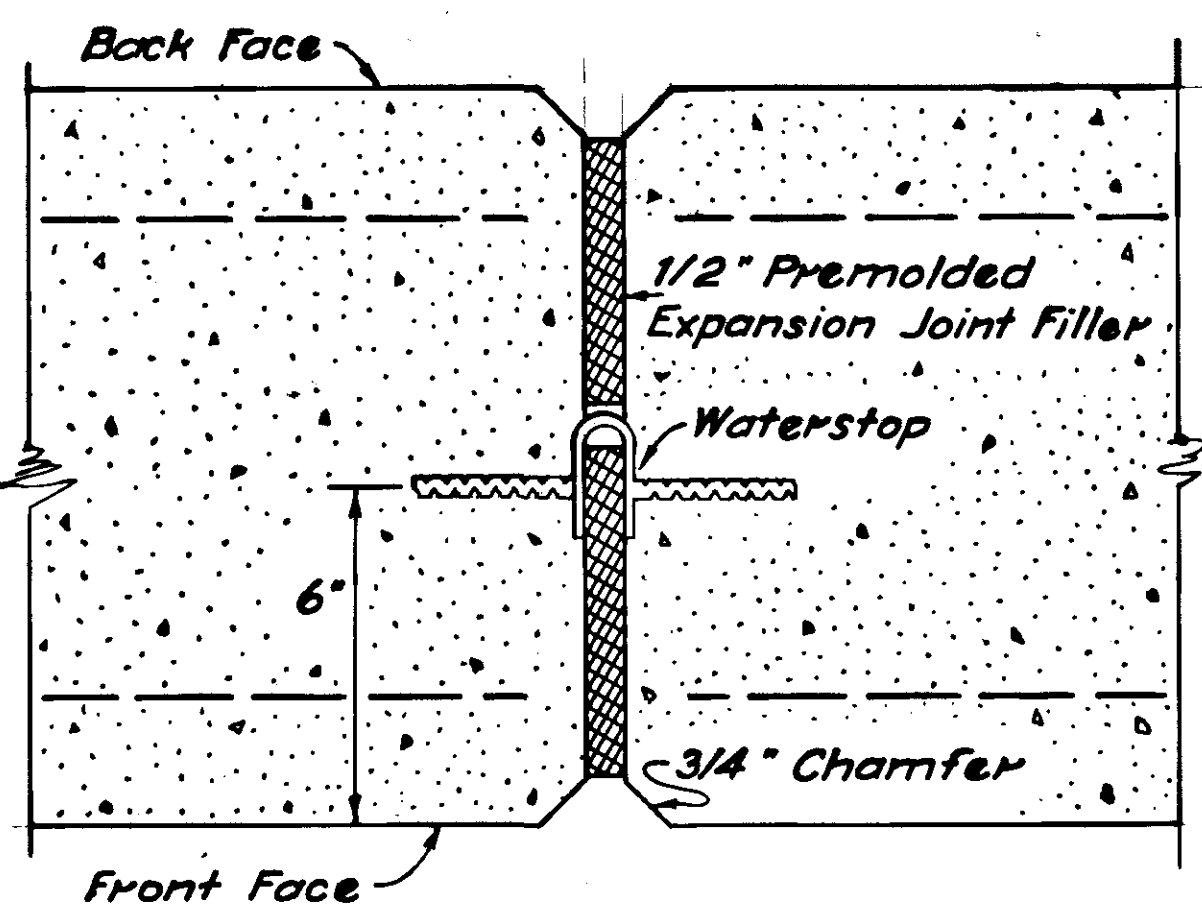
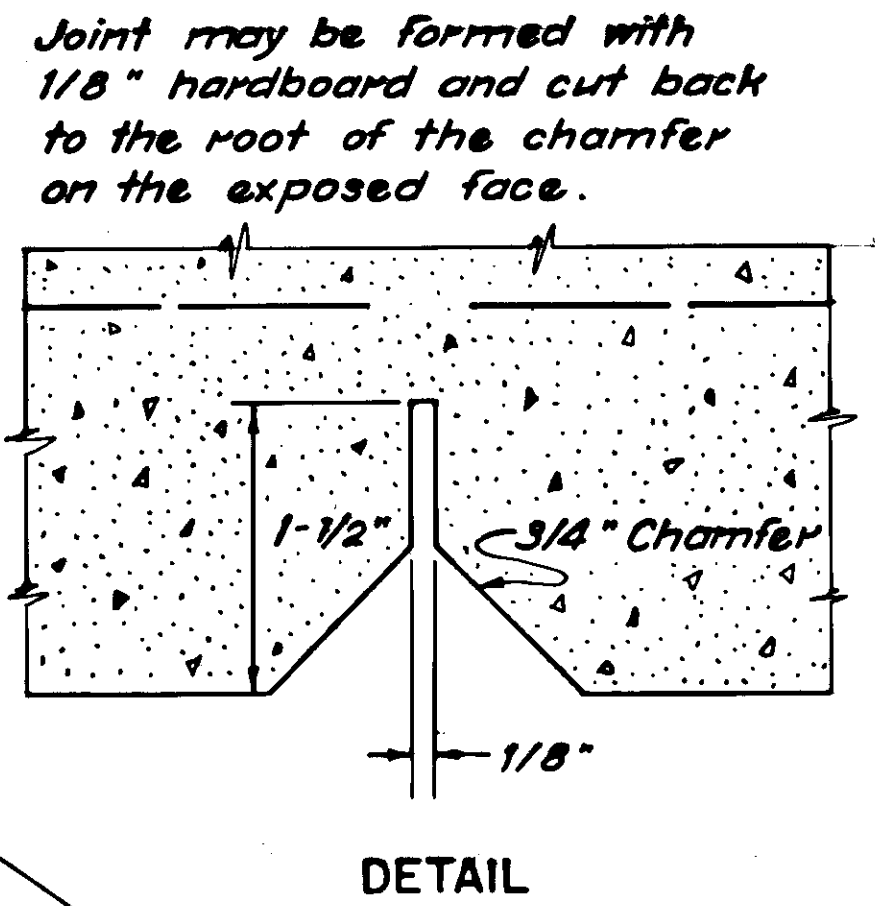
SECTION E-E

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	70S-0937 (15)	1977	29	47

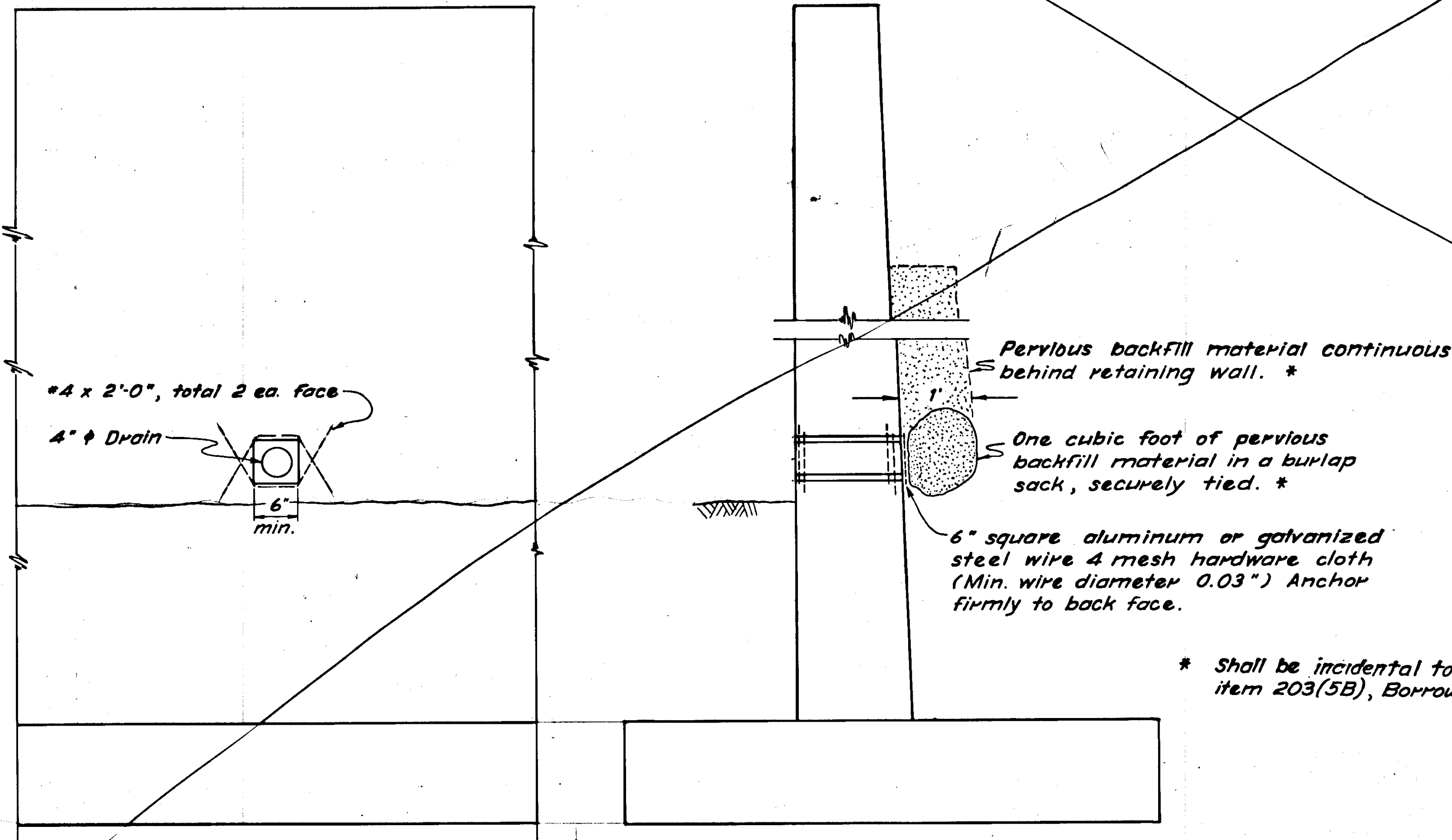
CANTILEVER WALL - DETAILS ALTERNATIVE B



WEAKENED PLANE DETAIL
(DETAIL "A")



EXPANSION JOINT DETAIL
(DETAIL "B")

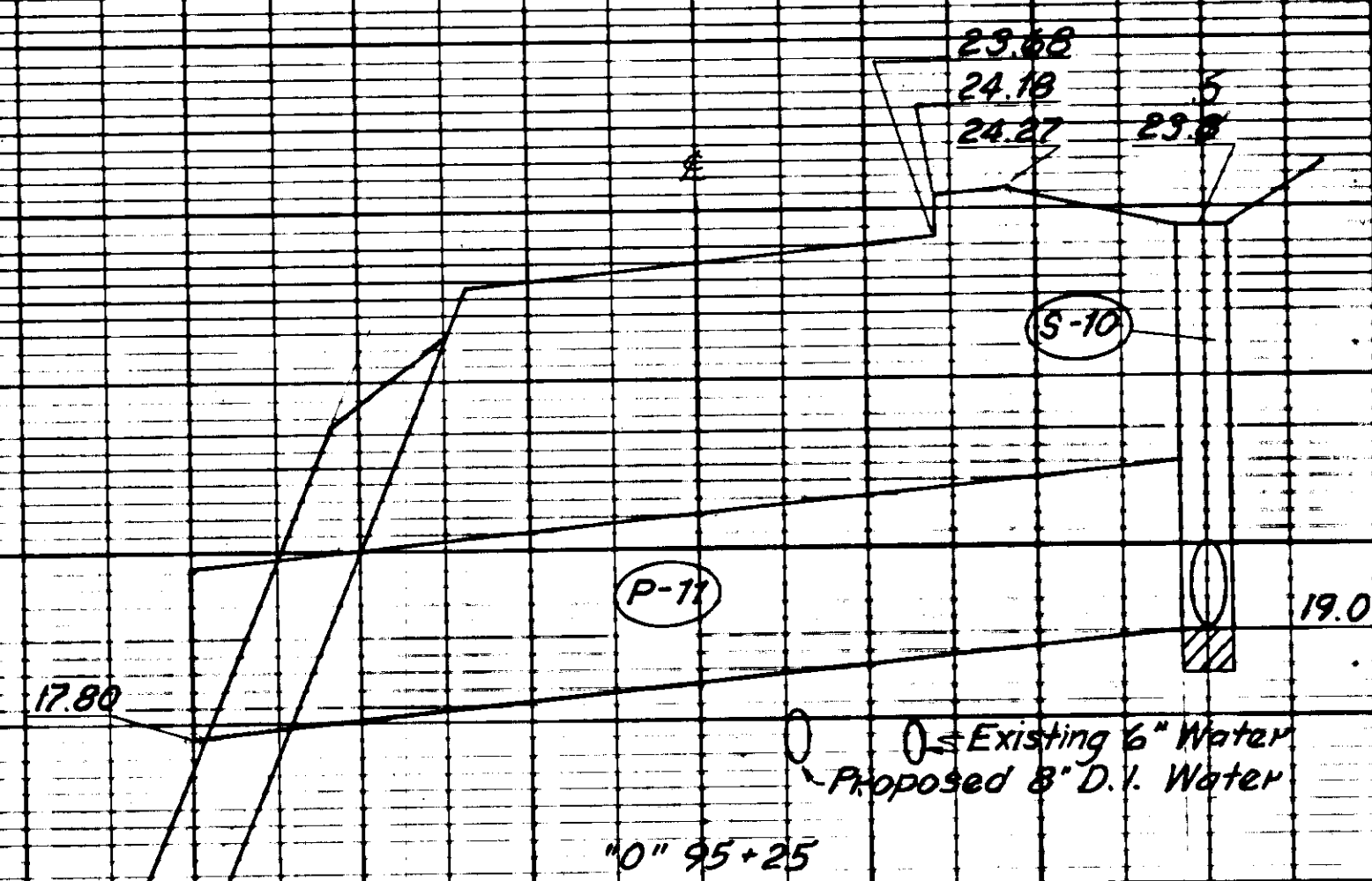


WEEP HOLE & PERVIOUS BACKFILL
(DETAIL "C")

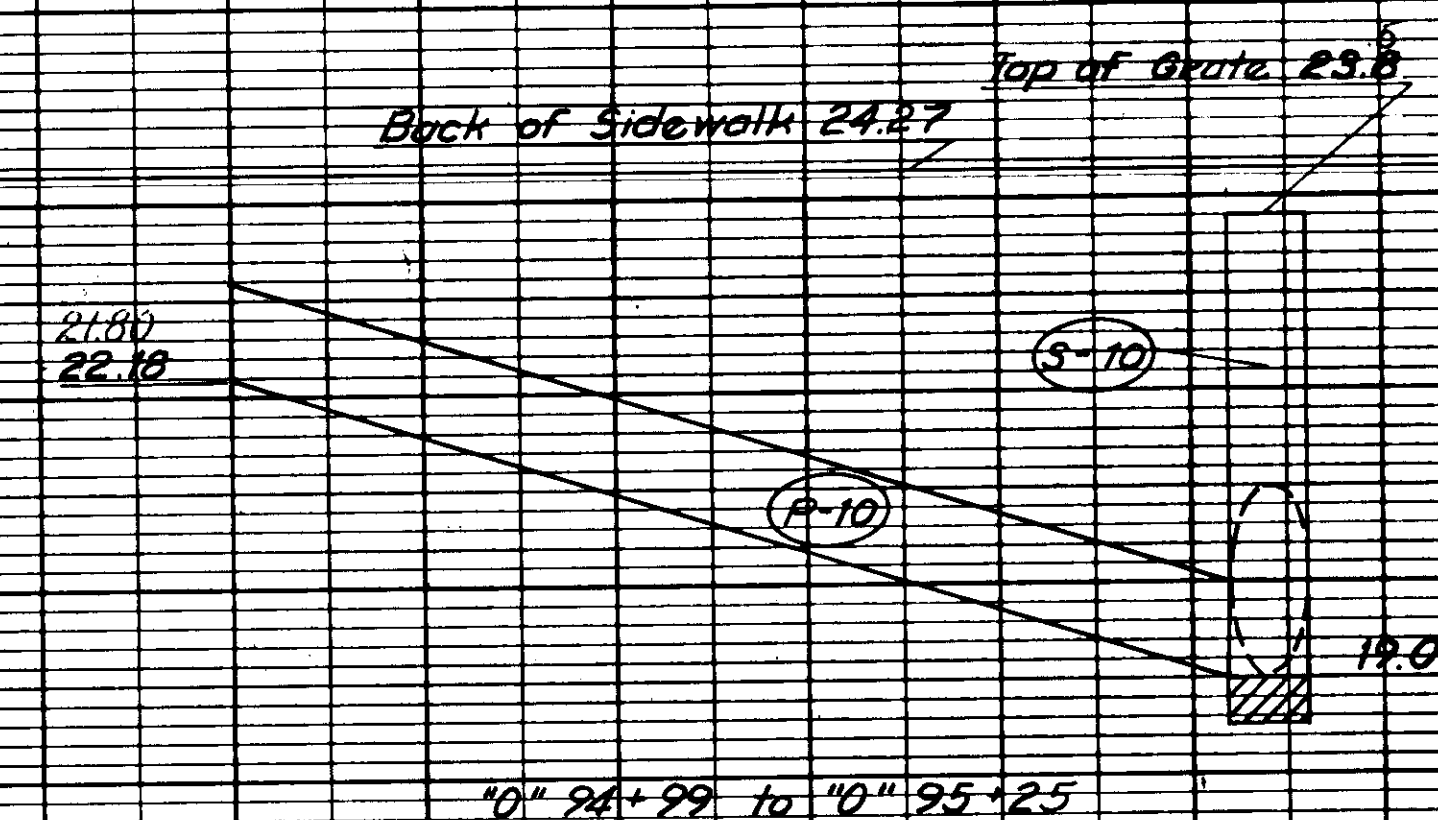
Not Used

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	72S-0937 (15)	1977	31	47

DRAINAGE DETAILS

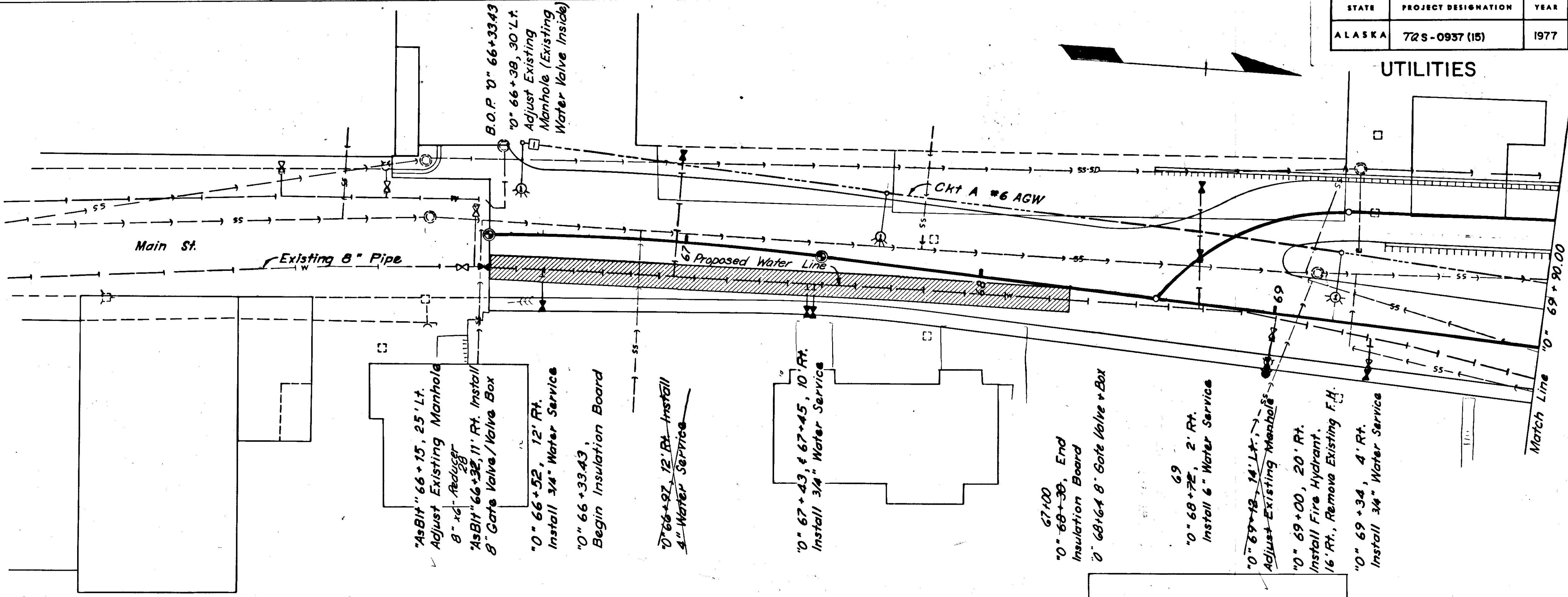


NOTE: For Pipe & Structure Summaries,
See Sheet # 30



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	72S-0937 (15)	1977	32	47

UTILITIES

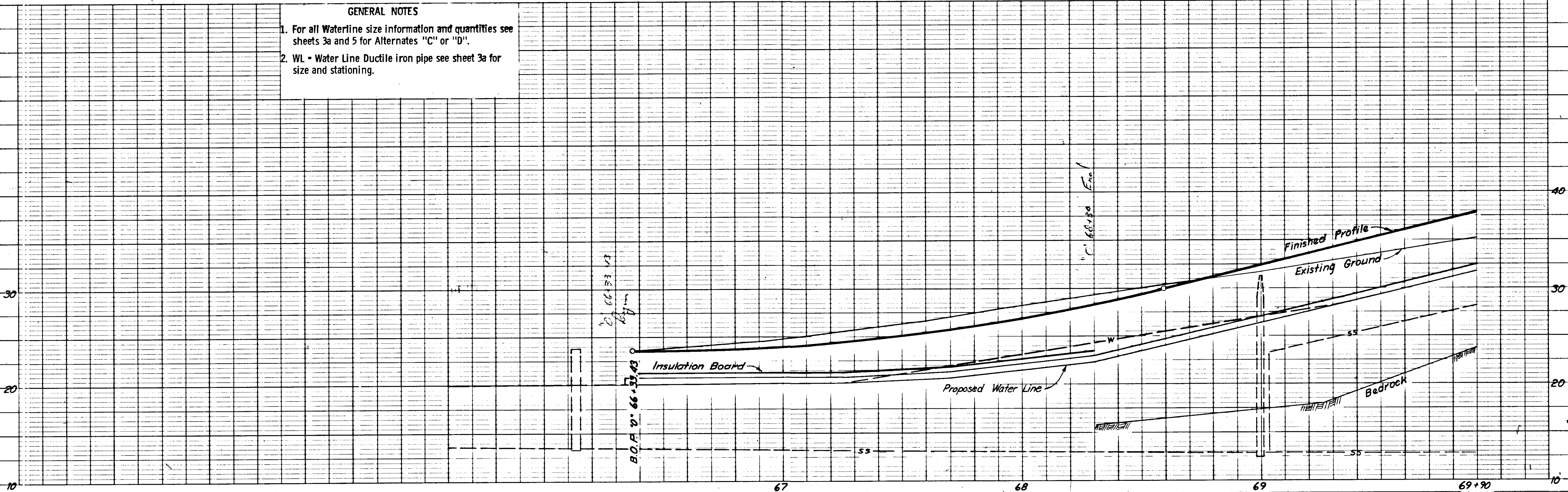


LEGEND

Insulation Board

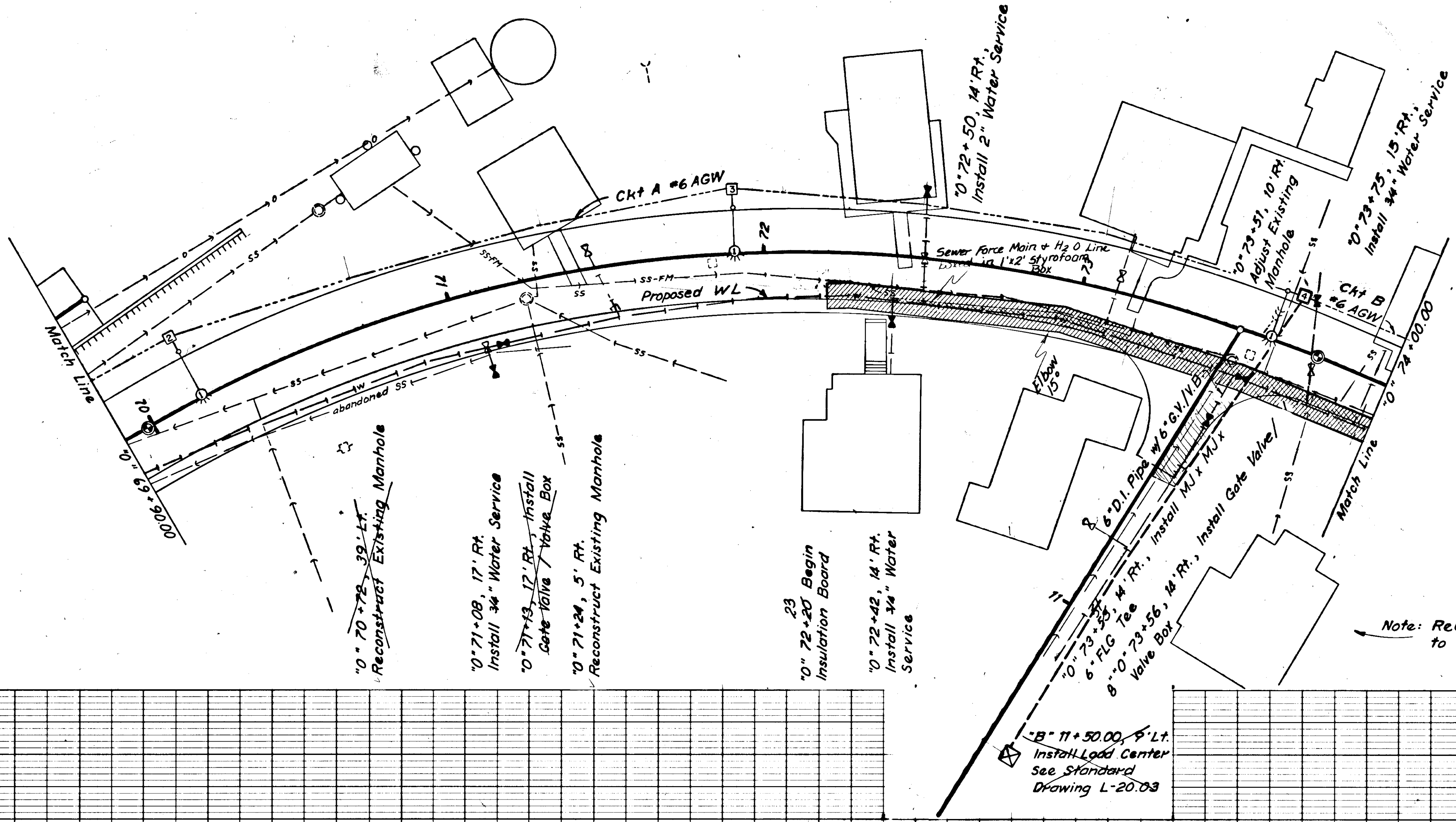
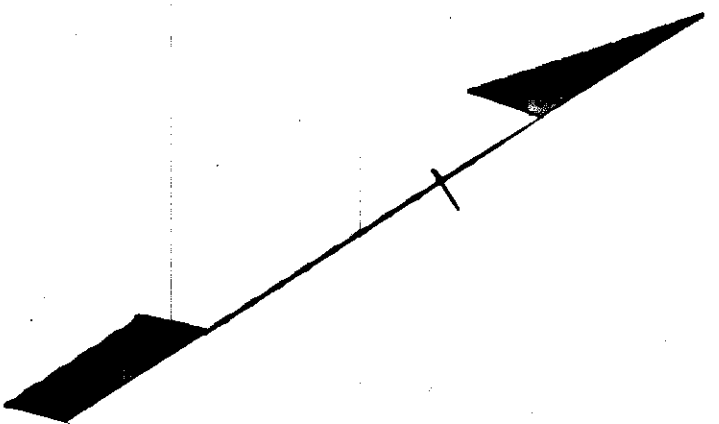
GENERAL NOTES

- For all Waterline size information and quantities see sheets 3a and 5 for Alternates "C" or "D".
- WL - Water Line Ductile iron pipe see sheet 3a for size and stationing.



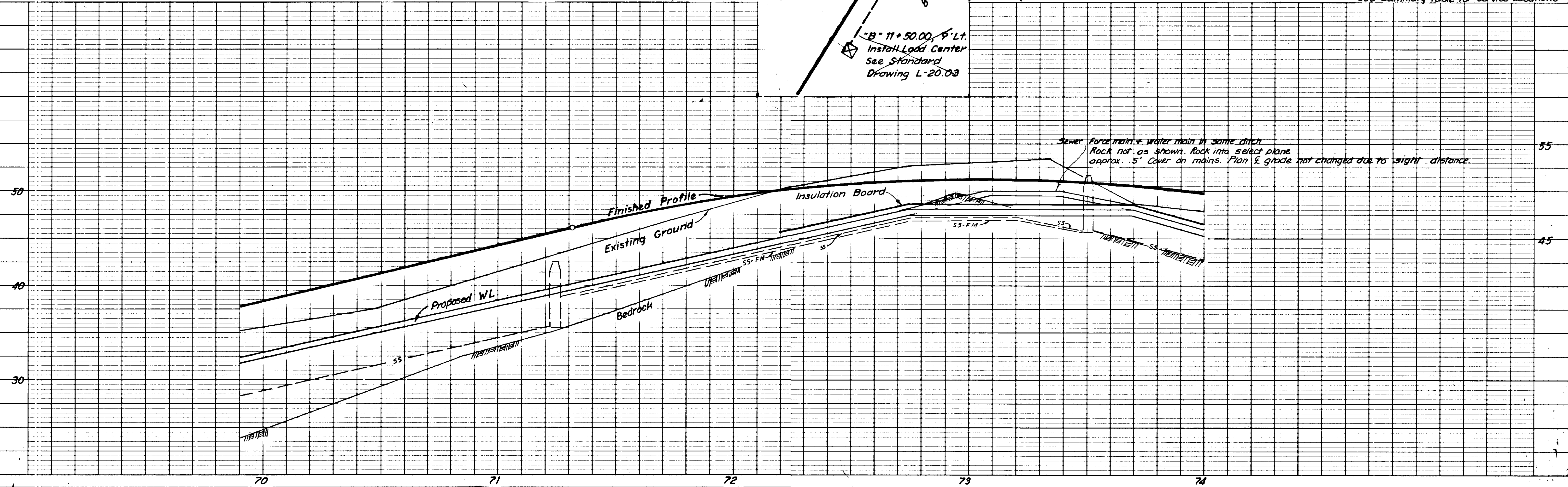
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TAS-0937 (15)	1977	33	47

UTILITIES



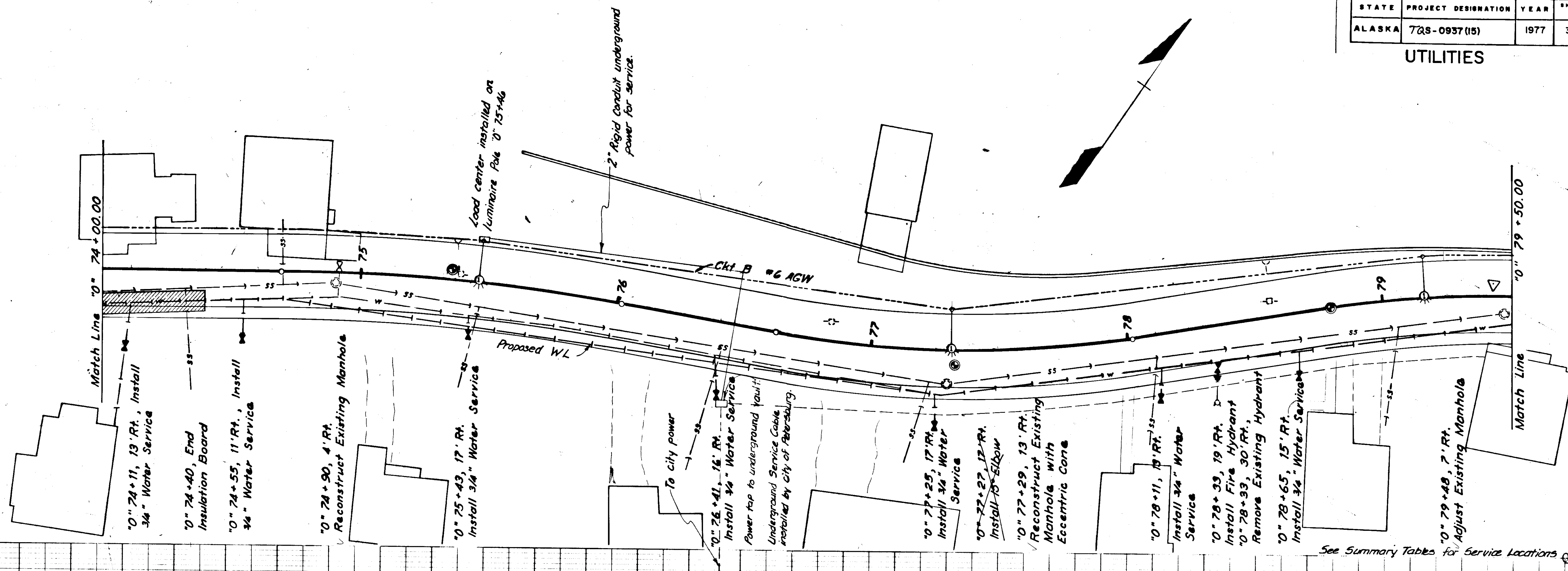
Note: Reconnect 6" D.I. Pipe to Existing Main.

See Summary Table for Service Locations

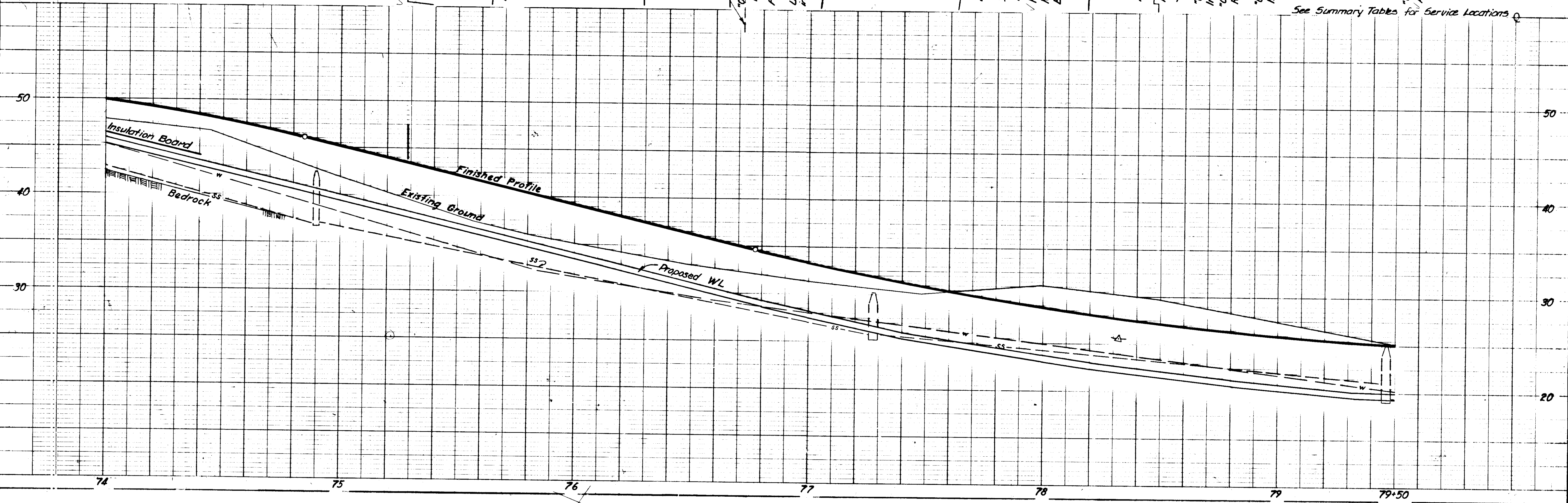


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7AS-0937 (15)	1977	34	47

UTILITIES

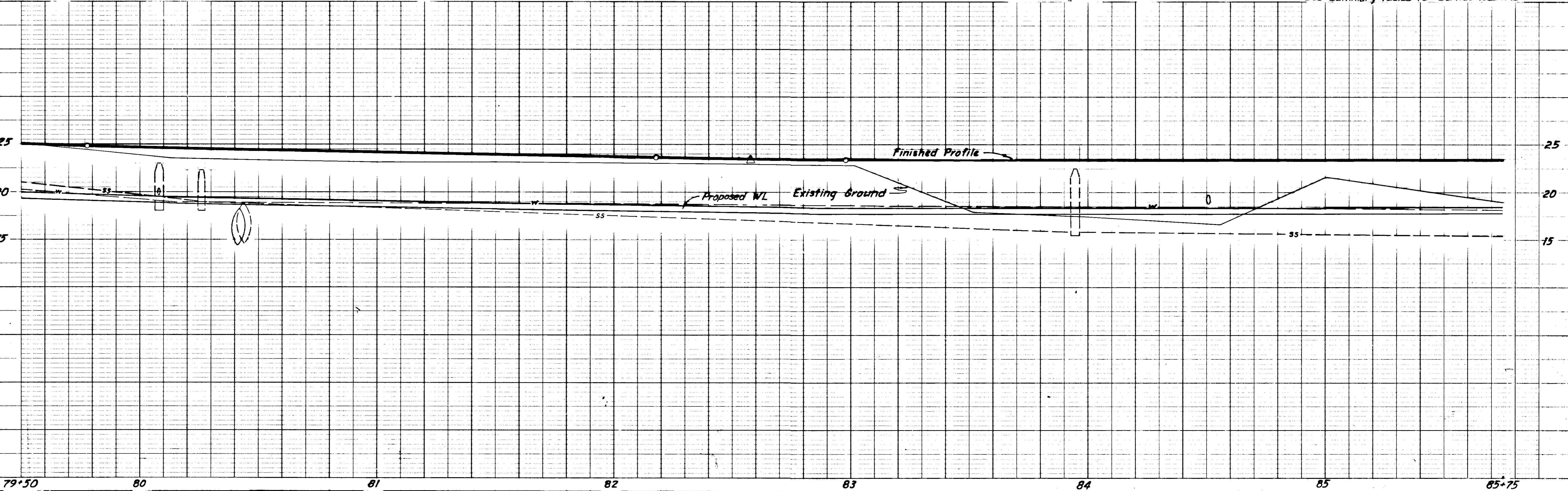
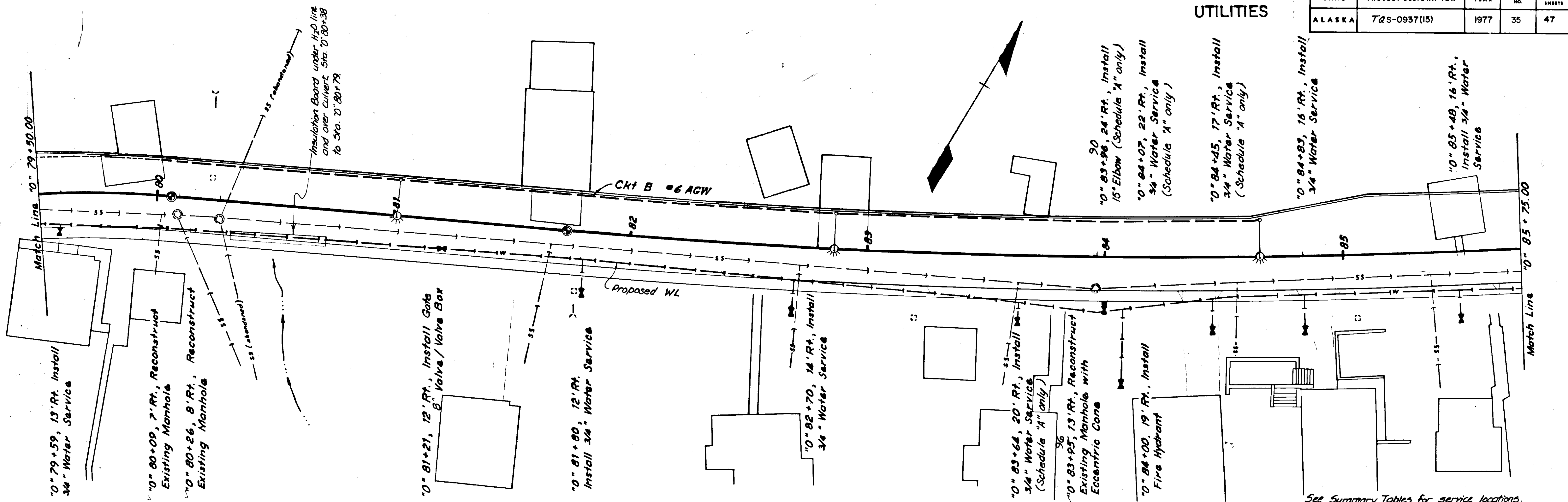


See Summary Tables for Service Locations



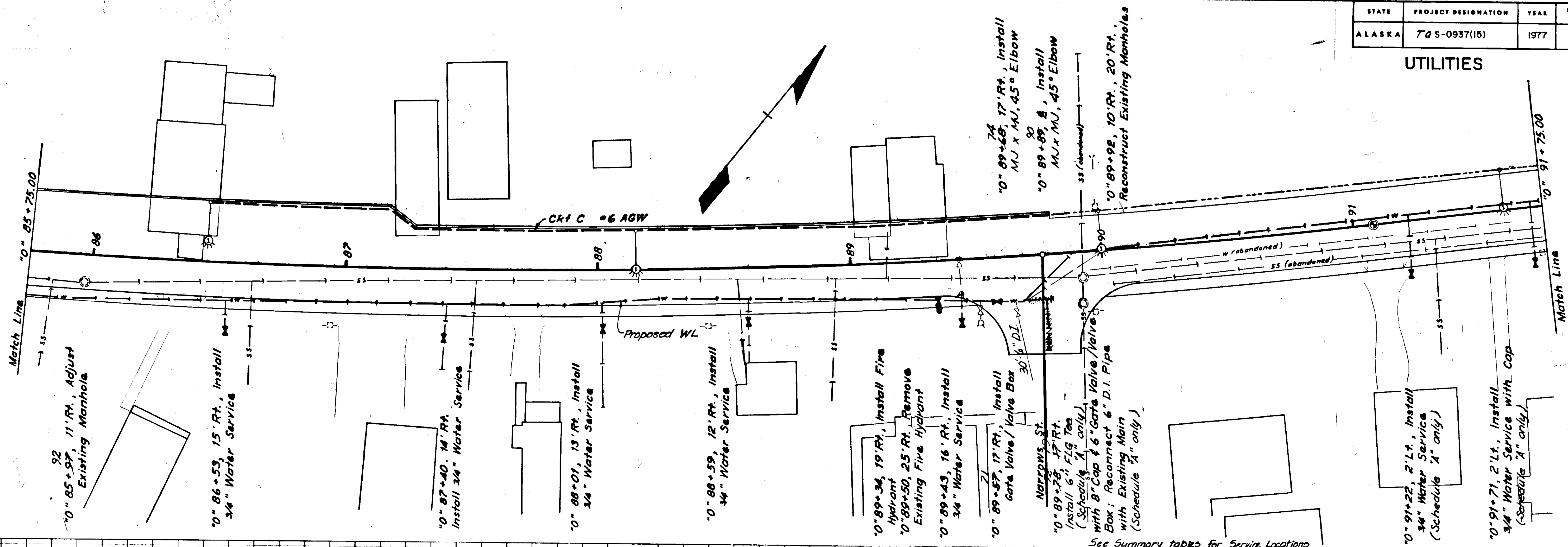
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	T&S-0937(15)	1977	35	47

UTILITIES

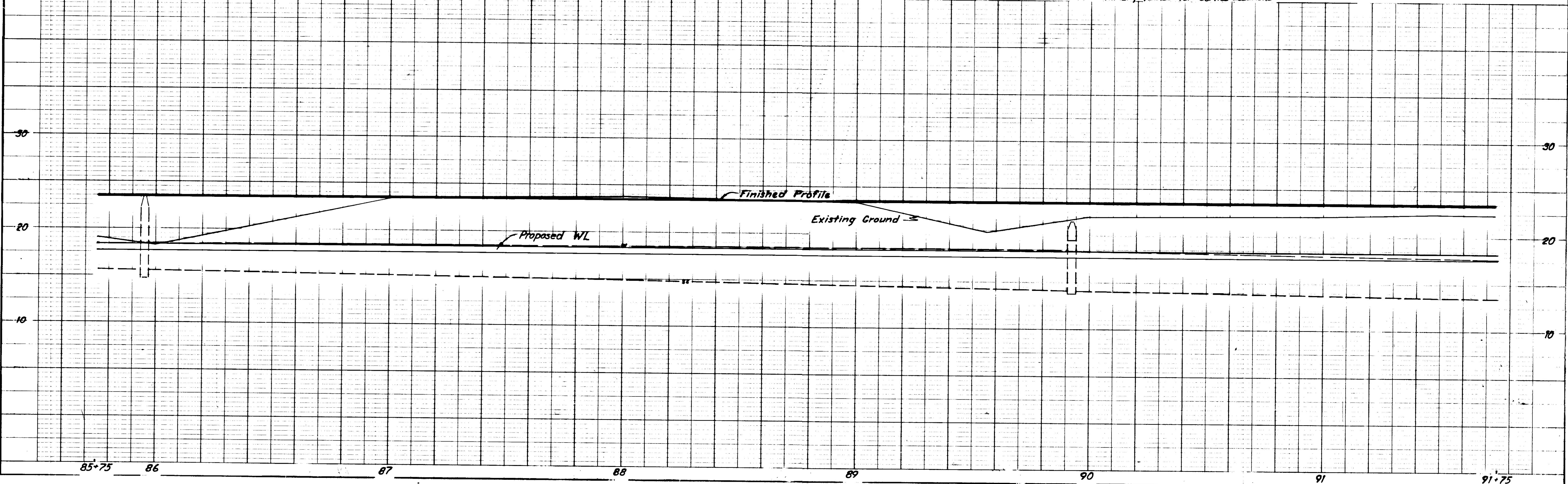


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937(15)	1977	36	47

UTILITIES

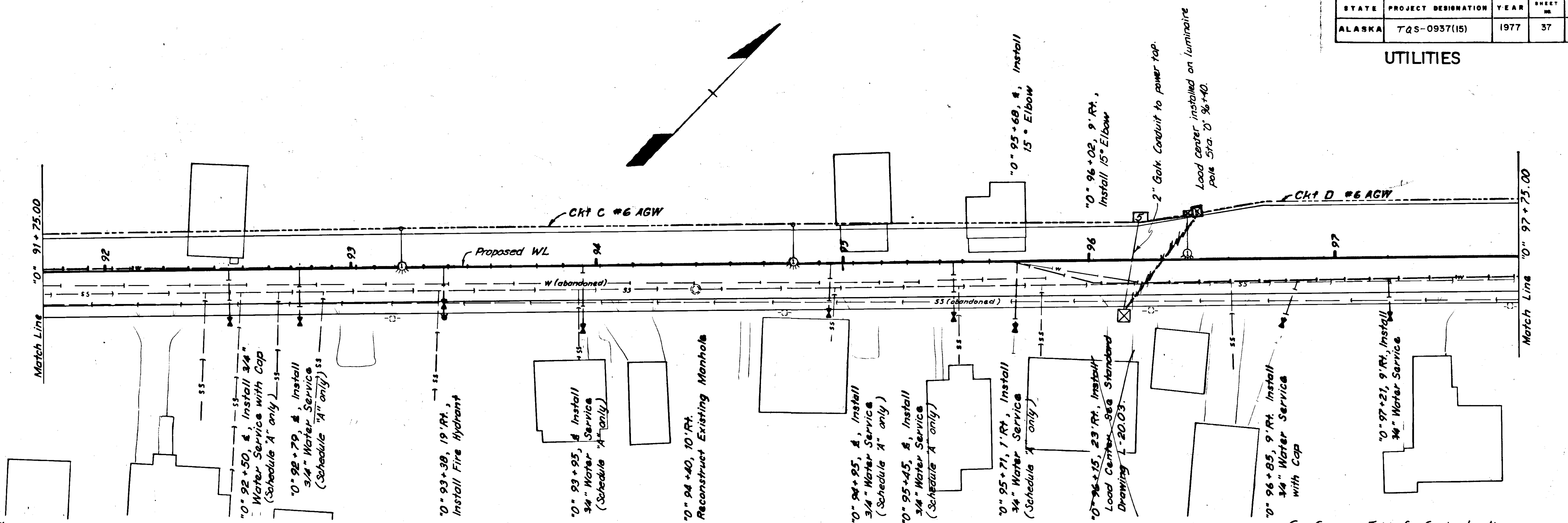


See Summary tables for Service Locations



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937(15)	1977	37	47

UTILITIES

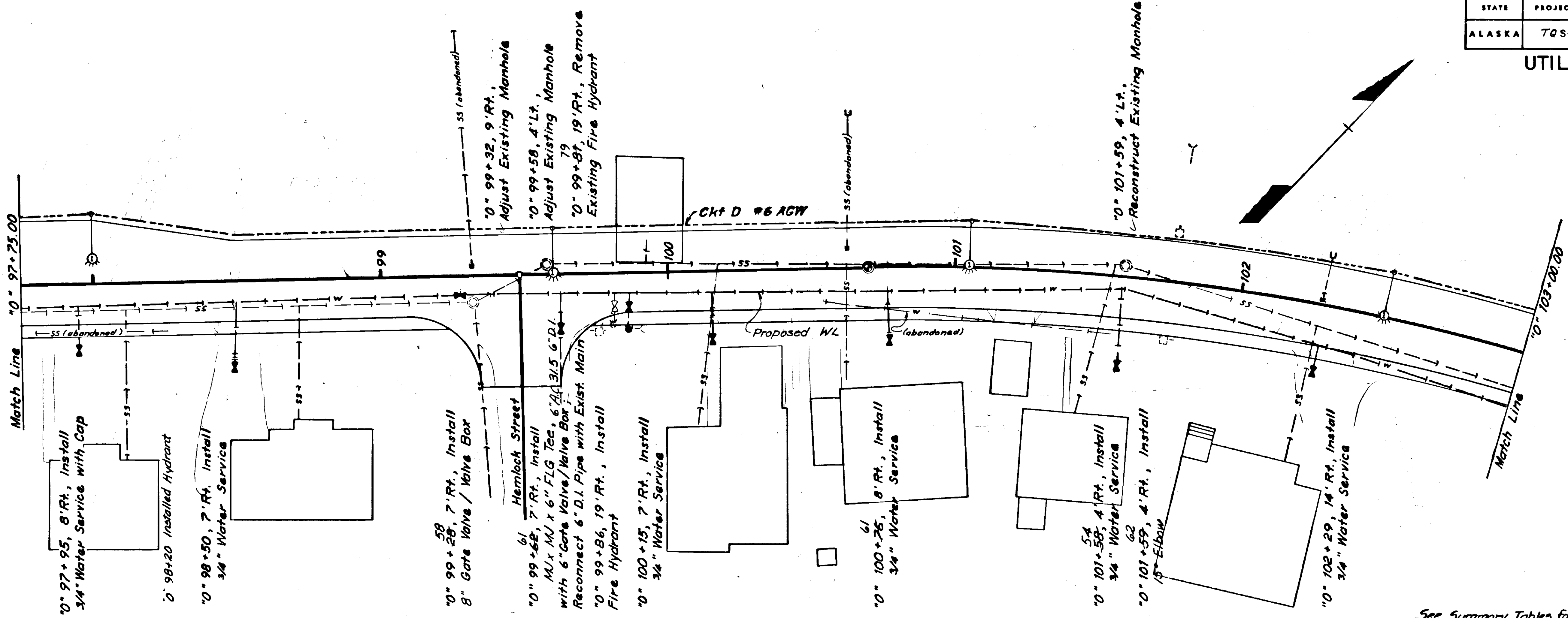


See Summary Table for Service Locations

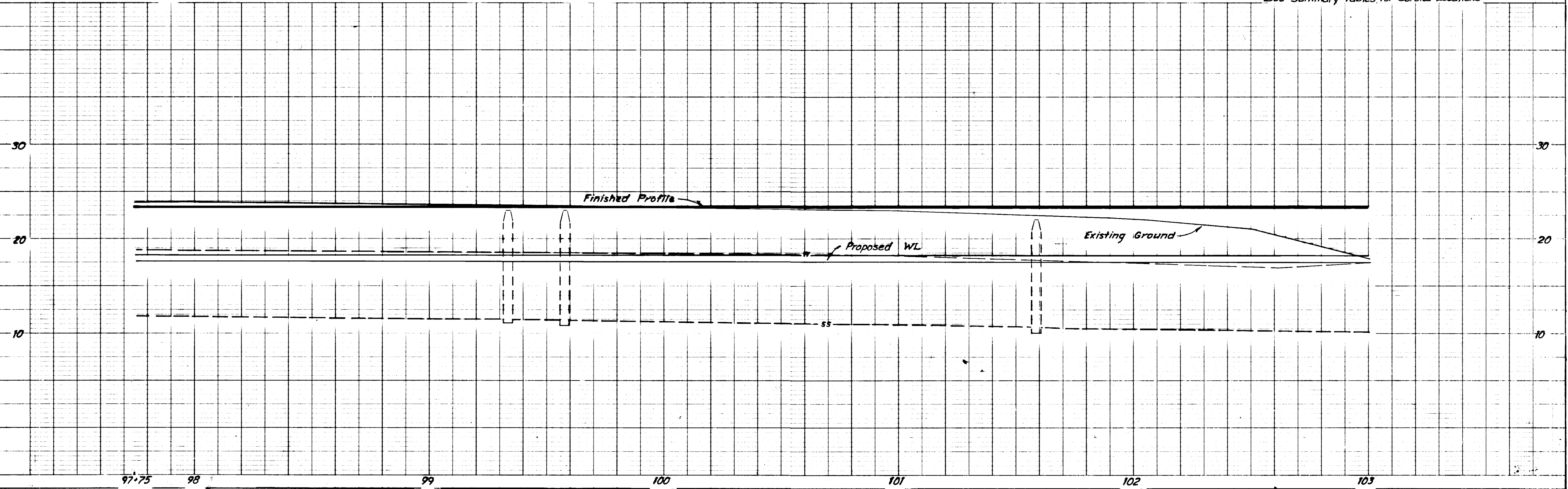


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937(15)	1977	38	47

UTILITIES

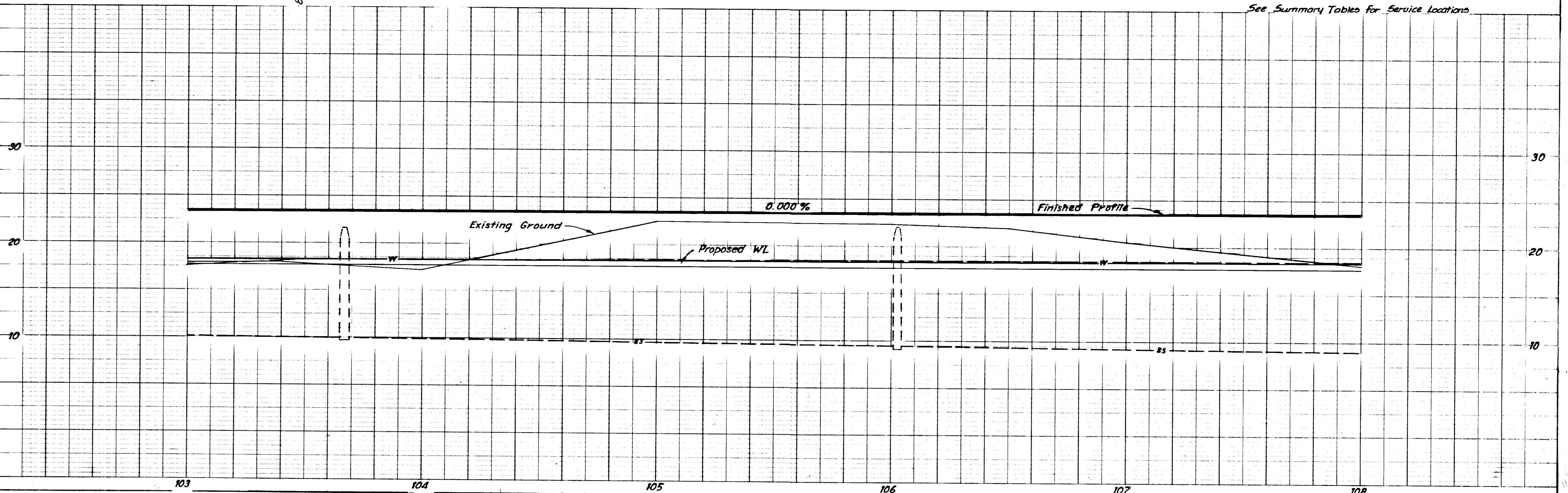
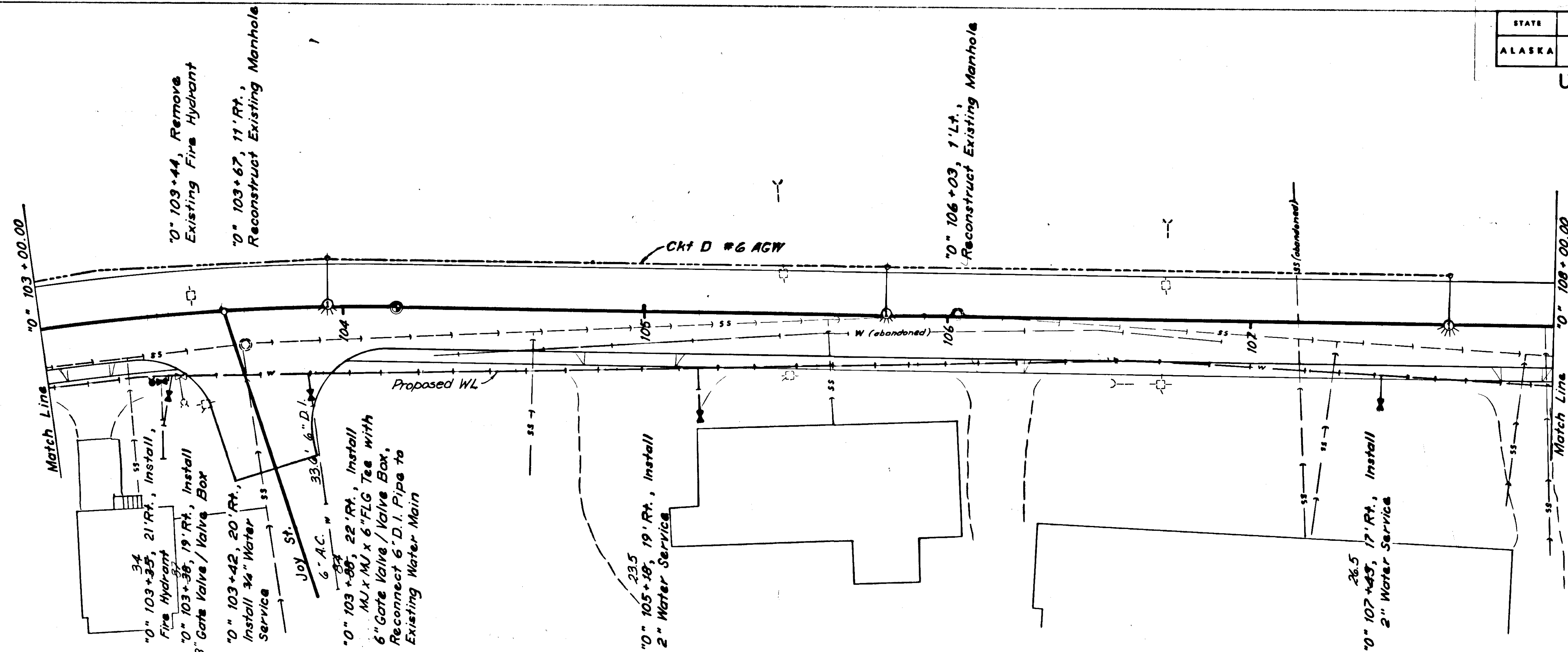


See Summary Tables for Service Locations



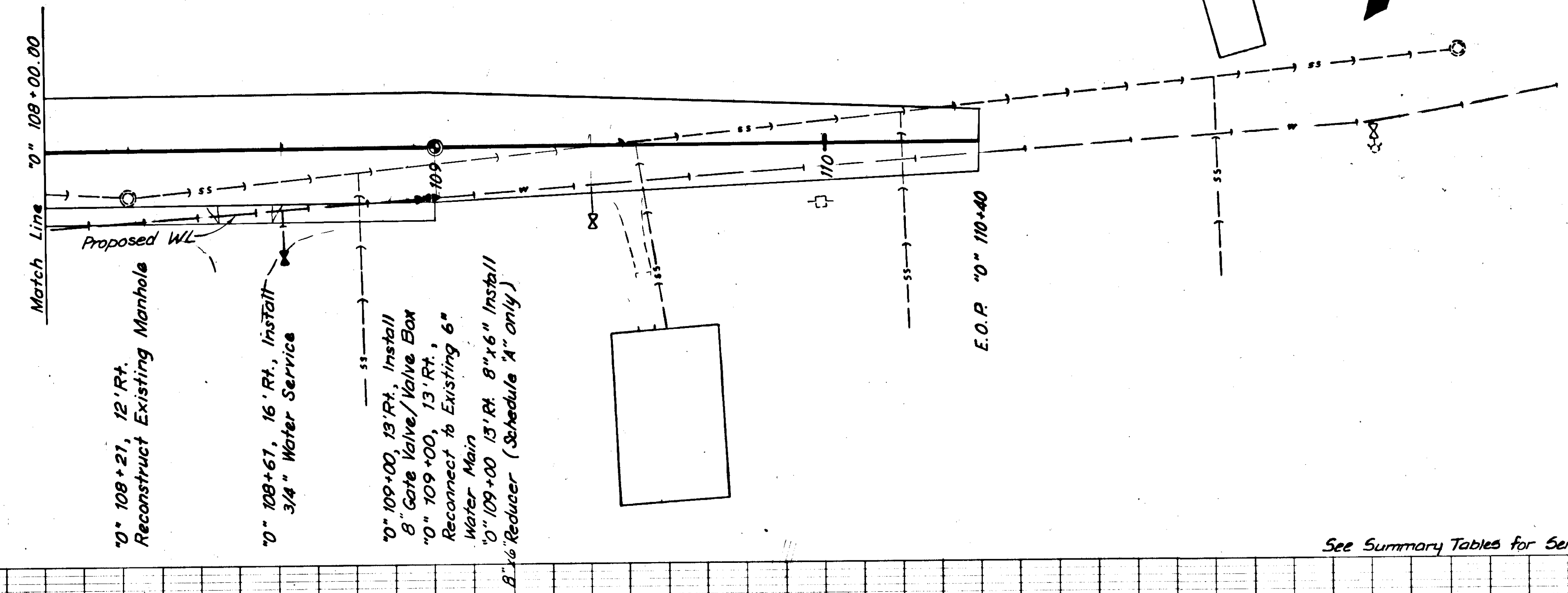
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937(15)	1977	39	47

UTILITIES



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	40	47

UTILITIES

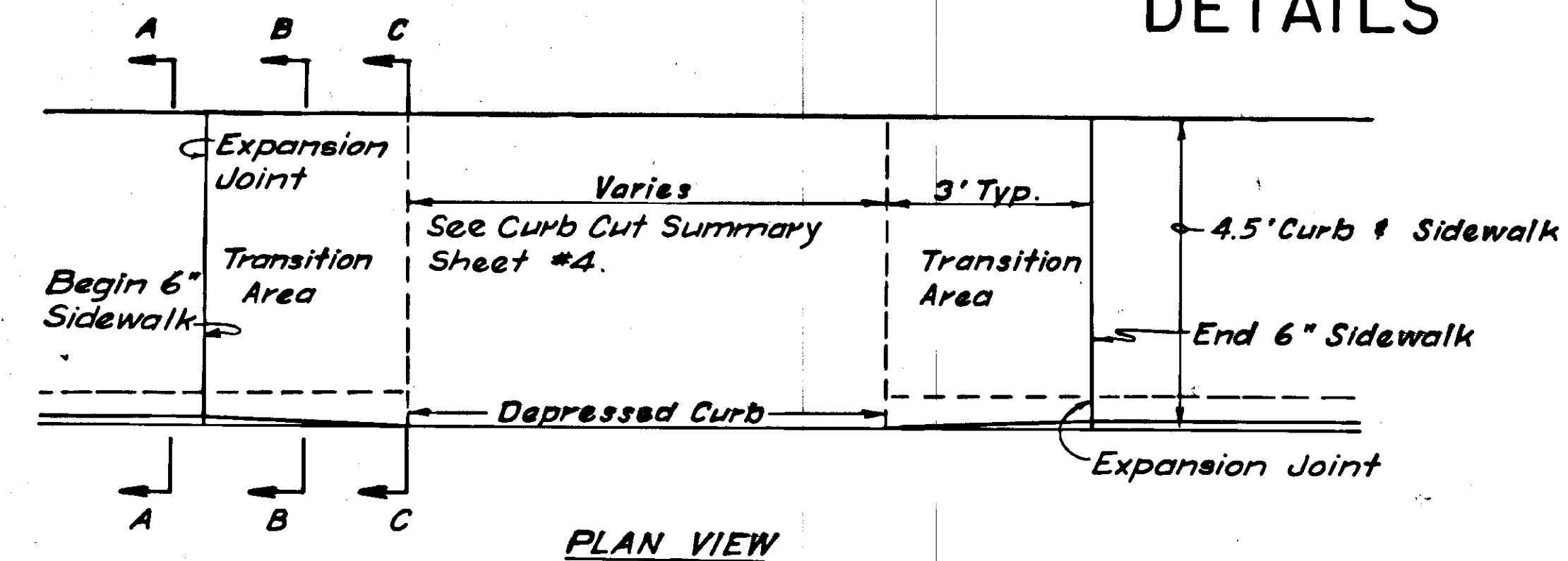


See Summary Tables for Service Locations

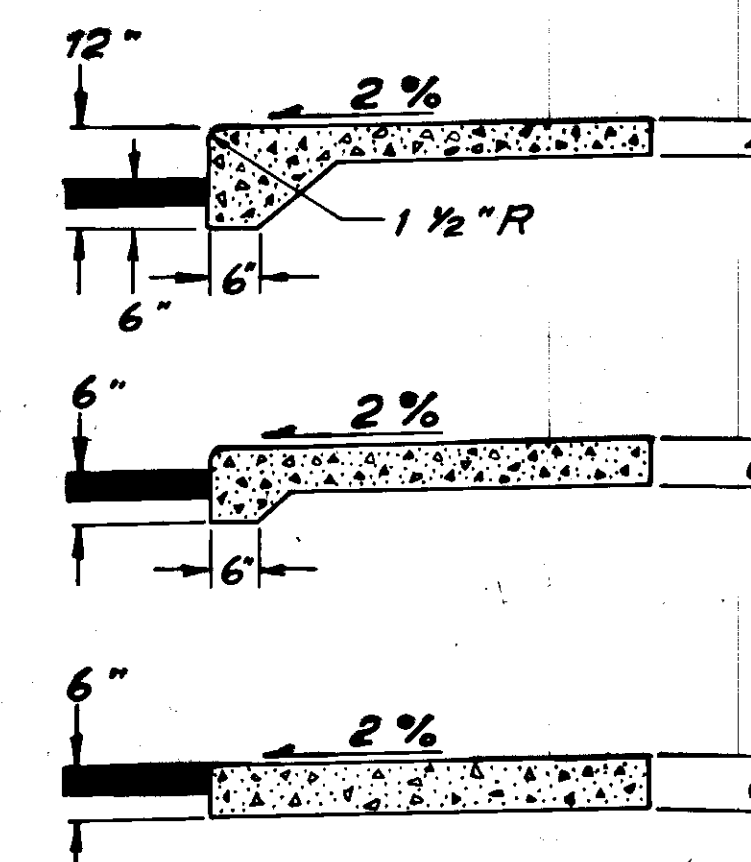


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (IS)	1977	42	47

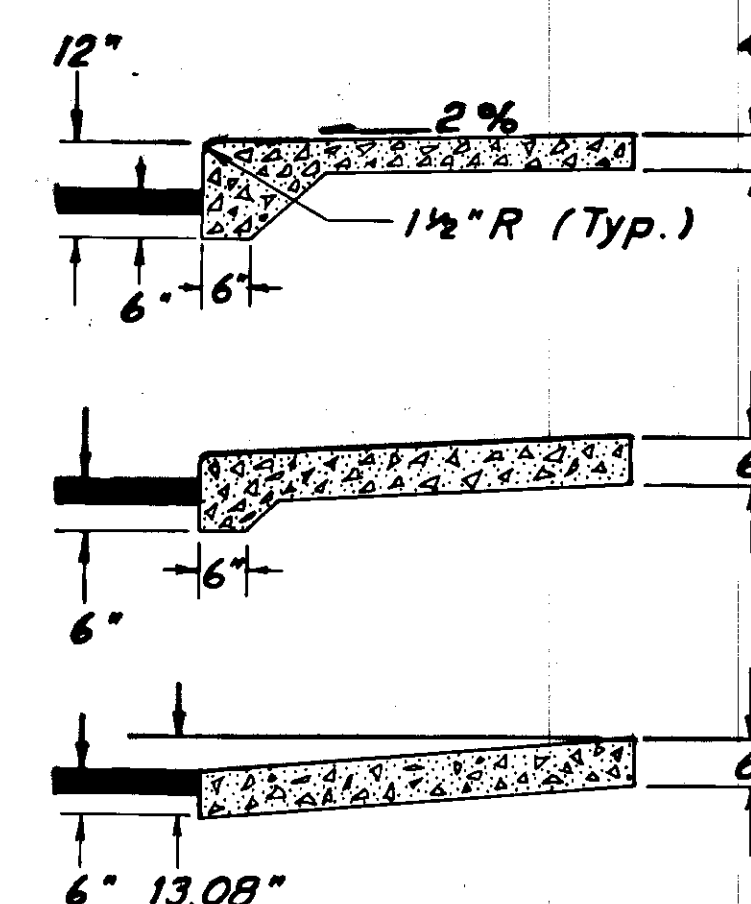
MISCELLANEOUS DETAILS



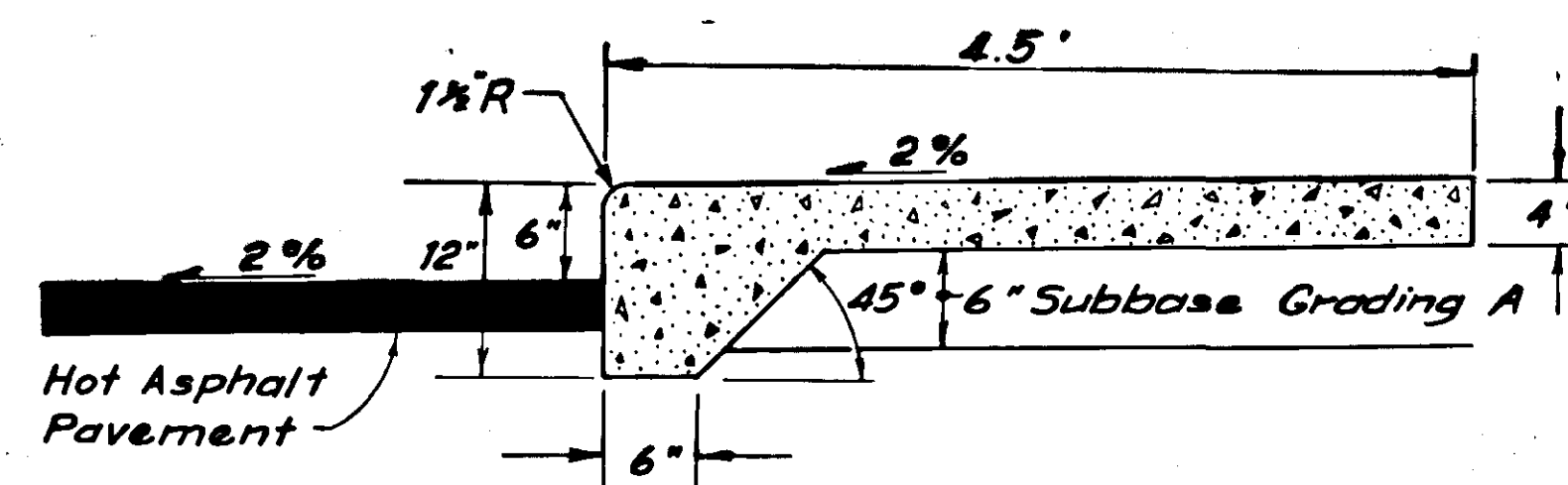
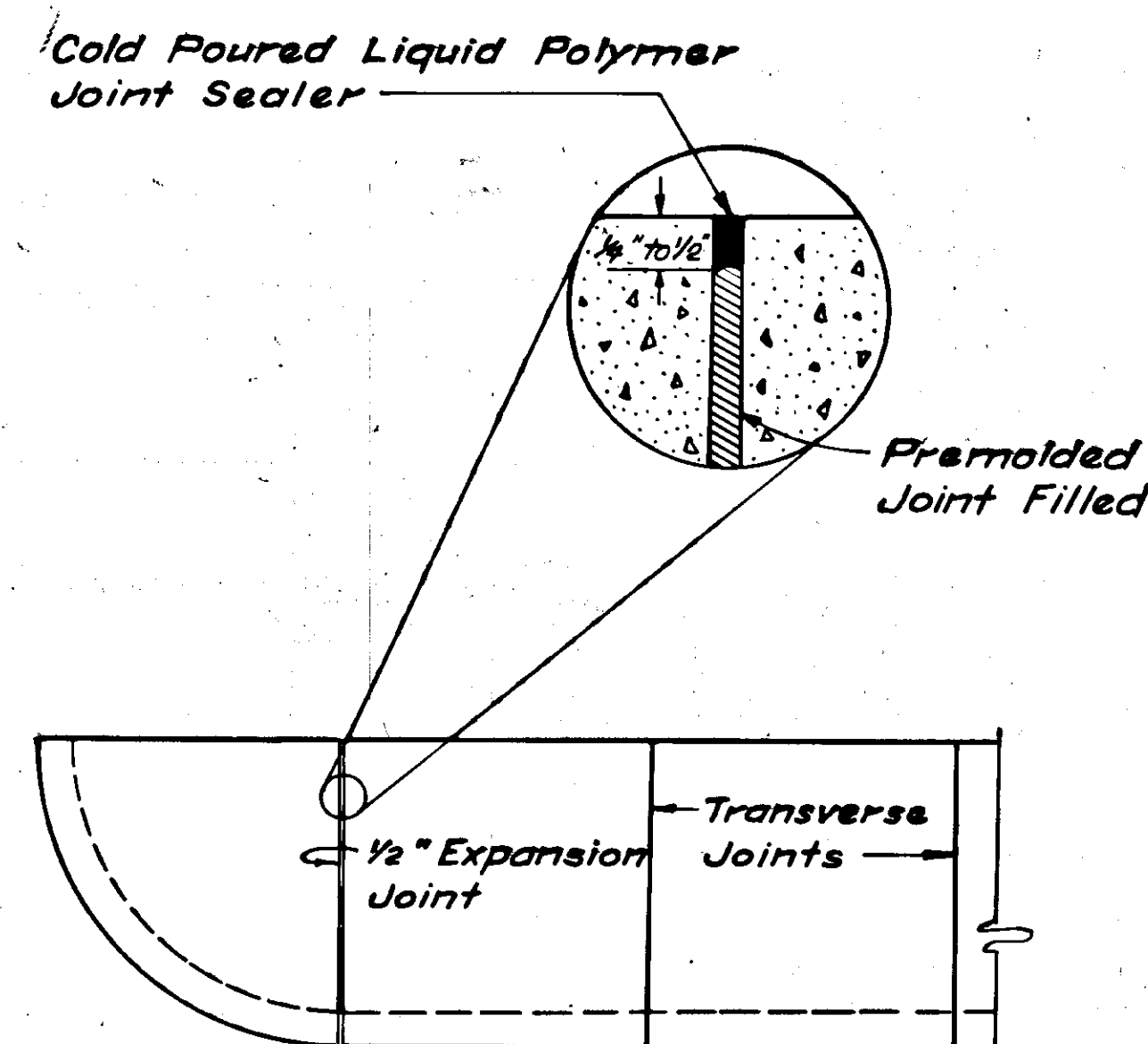
SPECIAL MONOLITHIC CURB CUT DETAILS



TYPICAL MONOLITHIC CURB CUT DETAILS



MONOLITHIC CURB AND SIDEWALK & DEPRESSED CURB DETAILS

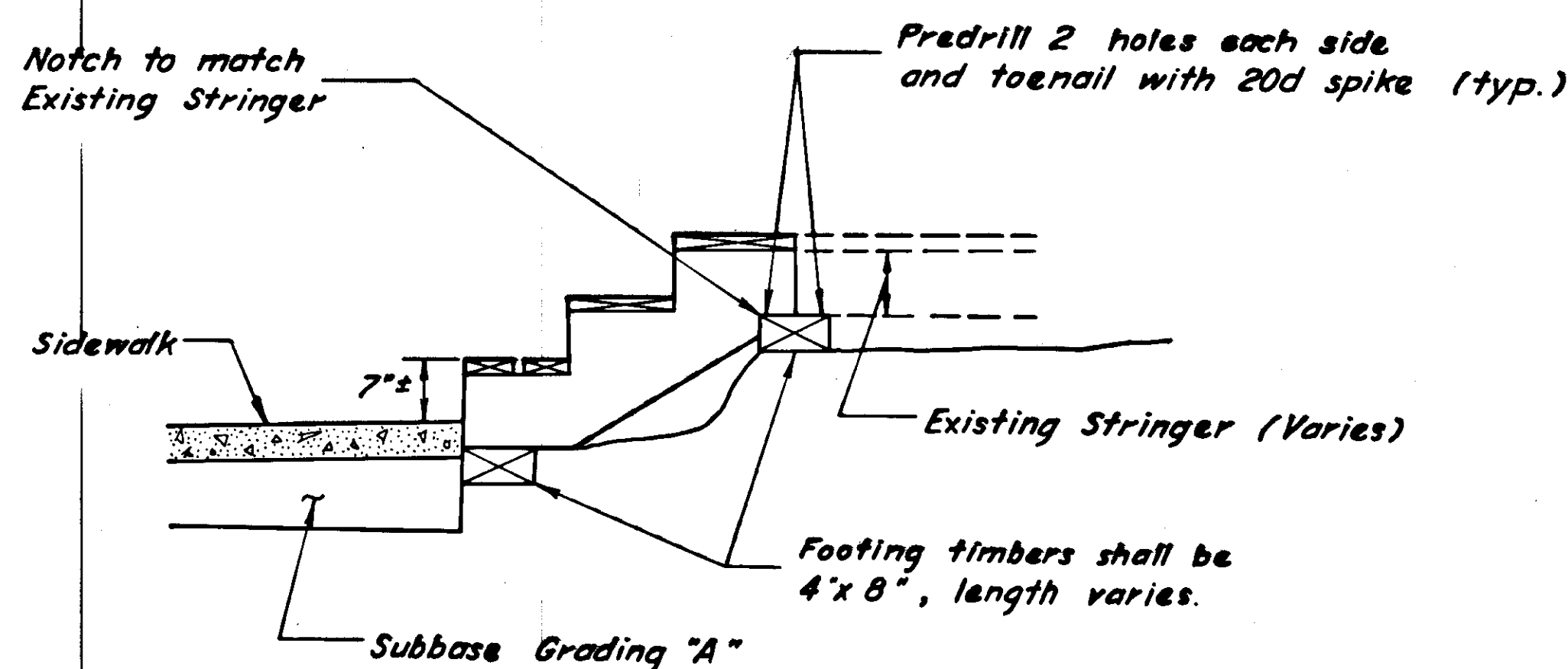


MONOLITHIC CURB & SIDEWALK

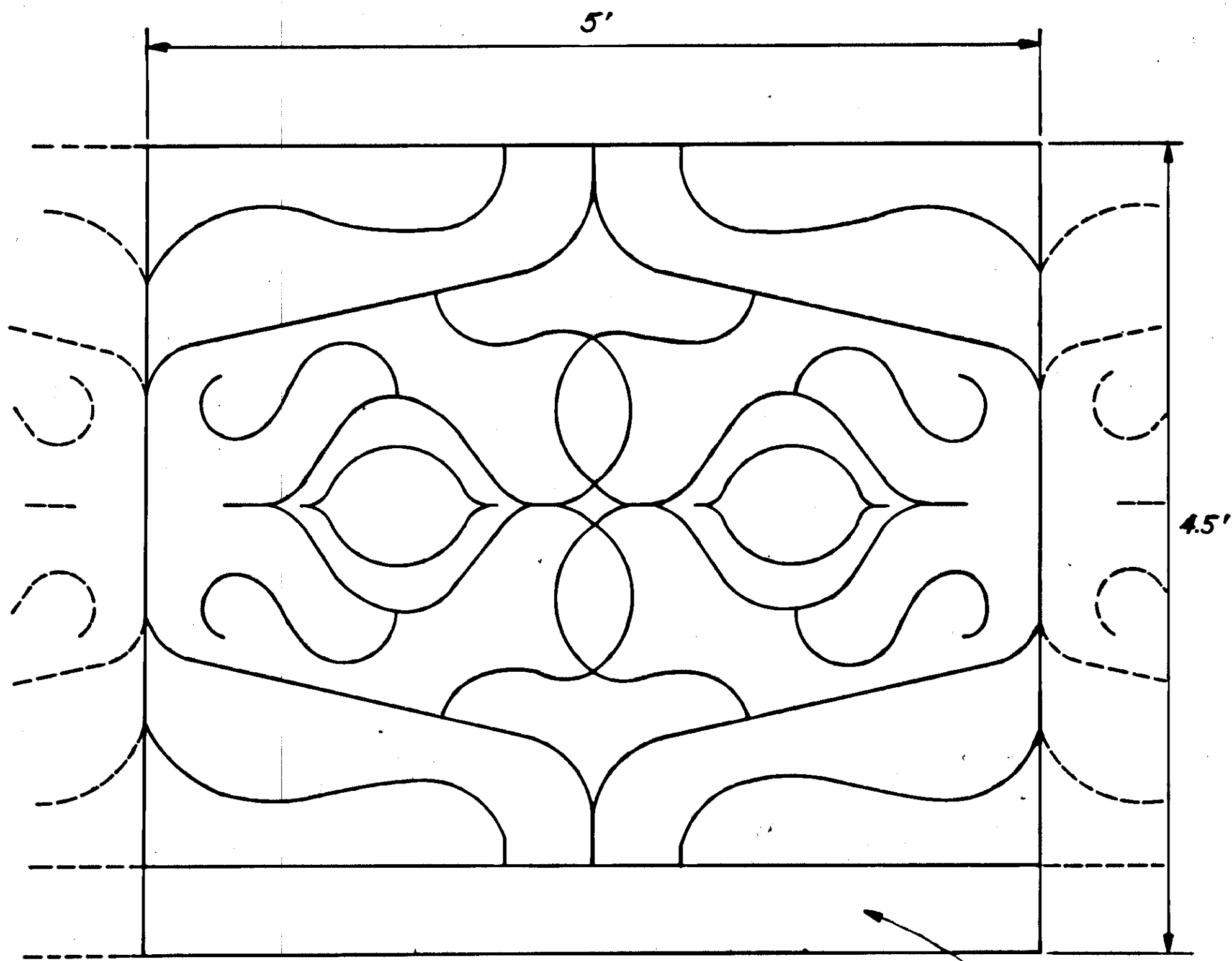
Constructed as Shown.

NOTES

1. If stairs require 3 or more risers, Standard Drawing M-05.00 shall be used in lieu of this detail.
2. Wooden stairs and sidewalks shall be field fit to match existing walks to new concrete sidewalk as directed by the engineer.
3. Existing structures not being removed shall be protected during construction of embankment.
4. Handrails will not be required on sidewalks or on stairs with 3 risers or less.
5. Footing timbers shall extend 2' outside the outer stringers.
6. All stairs with 3 risers or less and sidewalks wider than 3' shall have three stringers.
7. All lumber dimensions and nail sizes shall conform to Standard Drawing M-05.00 except 2"x8" stringers may be used on the wooden sidewalks or as directed by the engineer.
8. Wooden sidewalks shall have a 2.00% maximum slope, or as directed by the engineer.
9. The landing length and width shall be varied in lieu of Standard Drawing M-05.00 to fit field conditions.
10. Where applicable and the walk is in a down-grade situation Standard Drawing M-05.00 shall be utilized with the landing to match back of sidewalk grade.
11. Footings, posts, and field cuts in contact with the ground shall be treated with preservative creosote oils. Water born preservatives shall be used above ground in accordance with the latest standards of the American Wood Preserver's Association.
12. All timber shall be S-4-S, construction grade f-1200 p.s.i. minimum, Douglas fir or Hemlock.
13. The length and width of the new timber approaches shall match the existing.
14. All ferrous metals shall be galvanized.
15. Furnish and install wood bracing as required by the engineer.



MISCELLANEOUS DETAILS

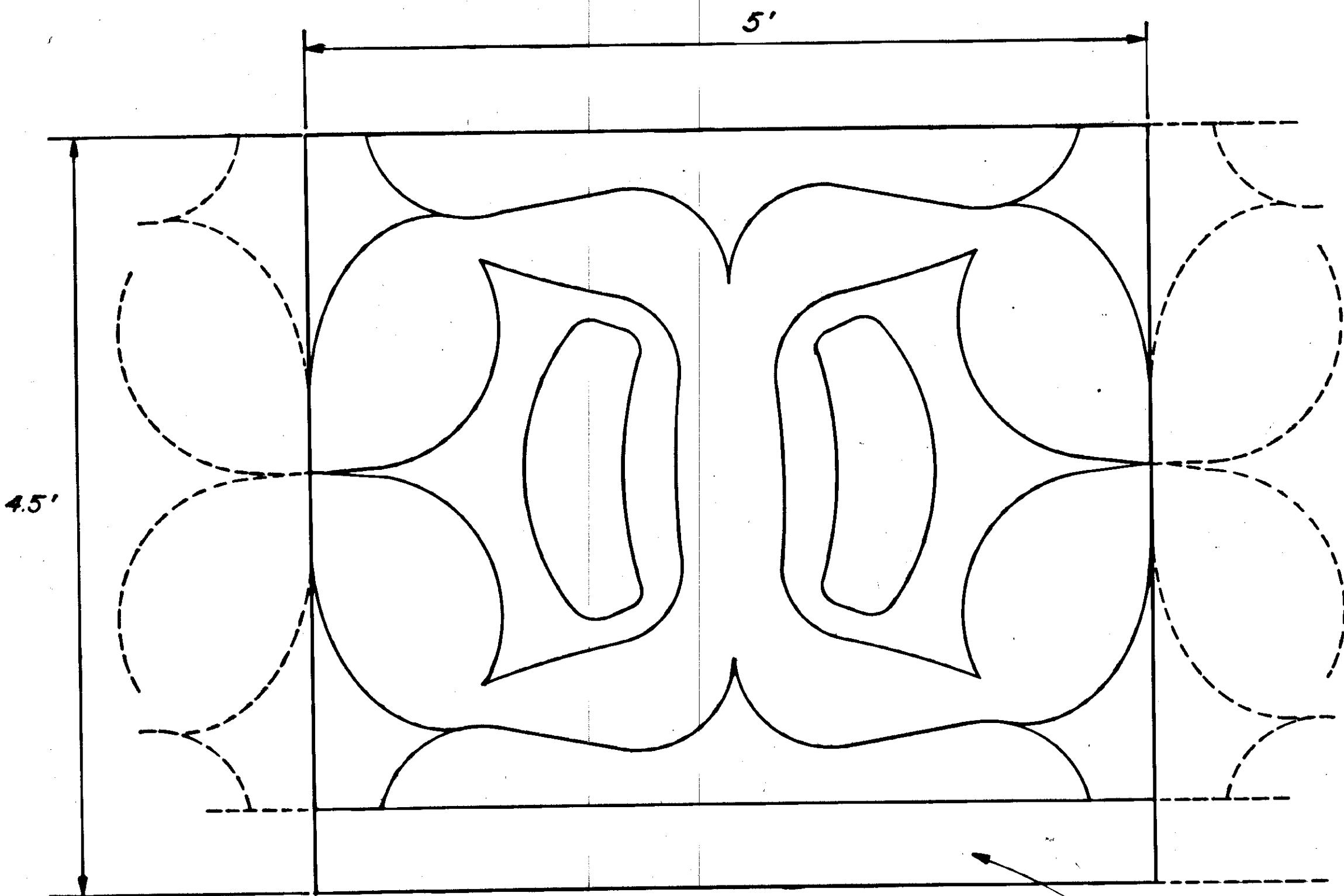


DESIGN "A"

Curb

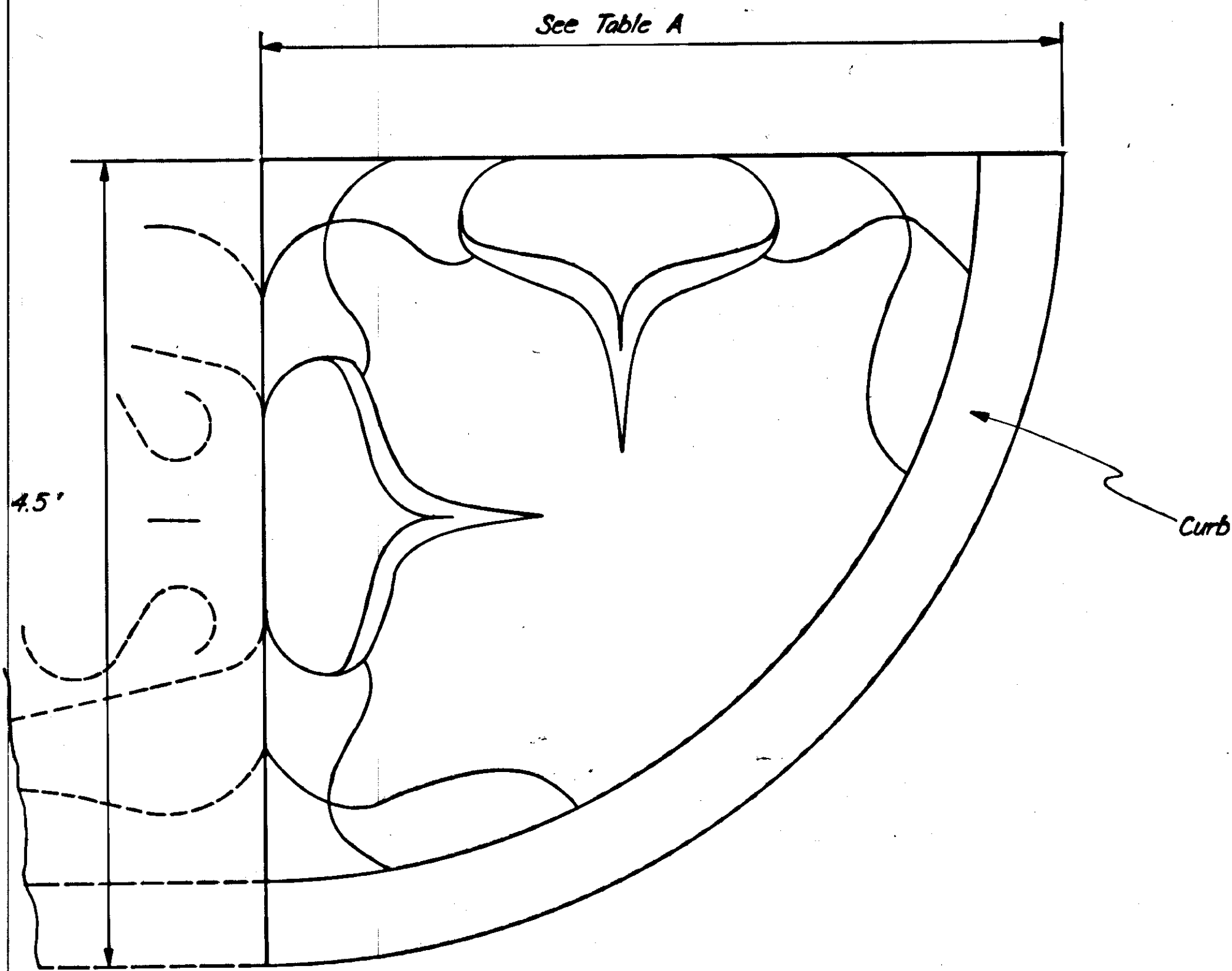
SIDEWALK DESIGN LOCATION		
From	To	Type
66 + 34.77	73 + 04.77	Design A
74 + 03.77	73 + 20.17	Corner B
73 + 62.23	73 + 77.63	Corner A
73 + 77.63	74 + 02.63	Design A
80 + 39.50	80 + 64.50	Design B
89 + 11.56	89 + 36.56	Design A
89 + 36.56	89 + 52.08	Corner B
89 + 97.08	90 + 13.60	Corner A
90 + 13.60	90 + 38.60	Design A
98 + 84.25	99 + 09.25	Design A
99 + 09.25	99 + 23.56	Corner B
99 + 72.94	99 + 87.25	Corner A
99 + 87.25	100 + 12.25	Design A
103 + 04.48	103 + 29.48	Design A
103 + 29.48	103 + 44.35	Corner B
103 + 99.98	104 + 14.85	Corner A
104 + 14.85	104 + 39.85	Design A

Constructed as Shown.

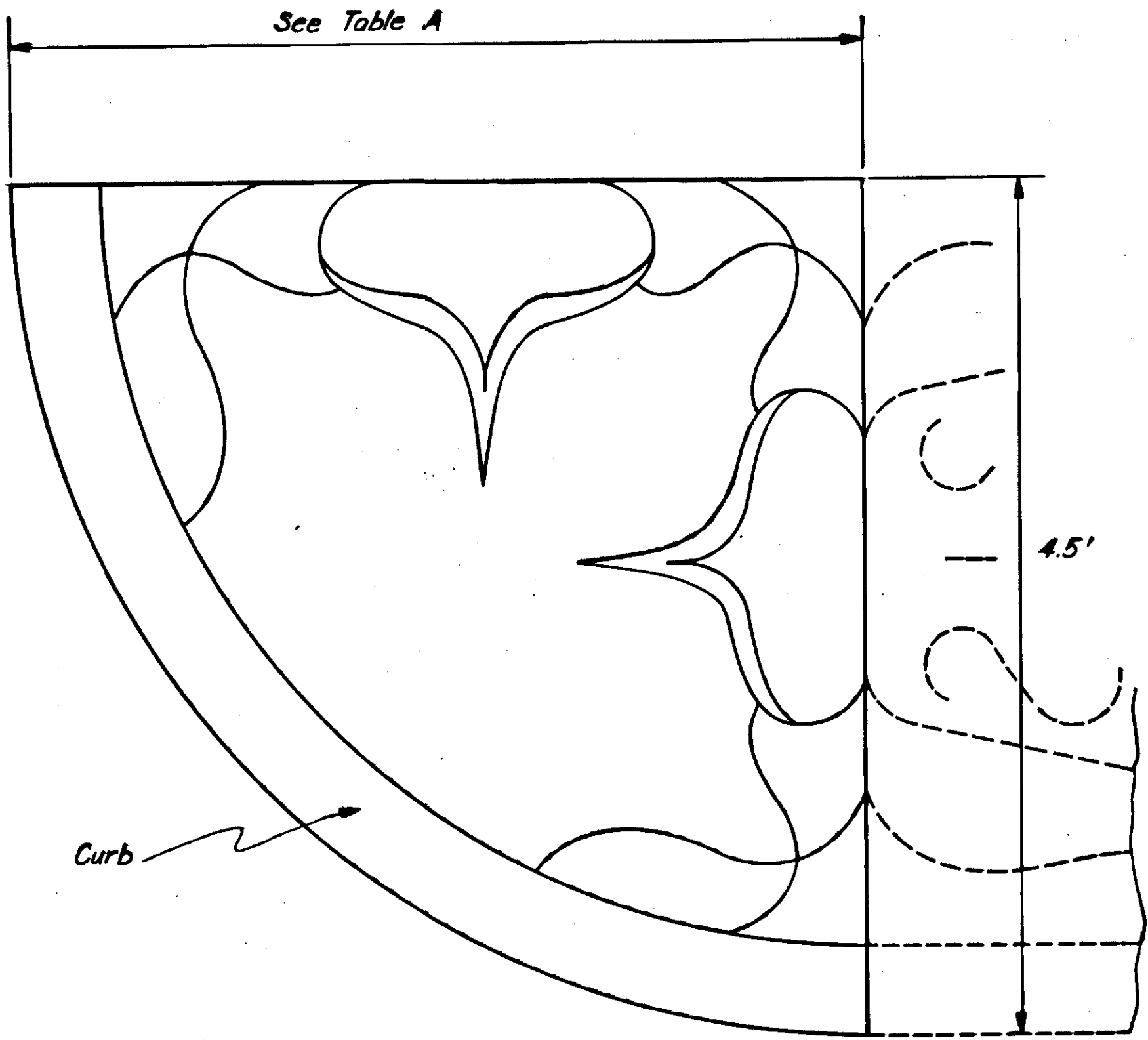


DESIGN "B"

Curb



SIDEWALK CORNER "A" DESIGN



SIDEWALK CORNER "B" DESIGN

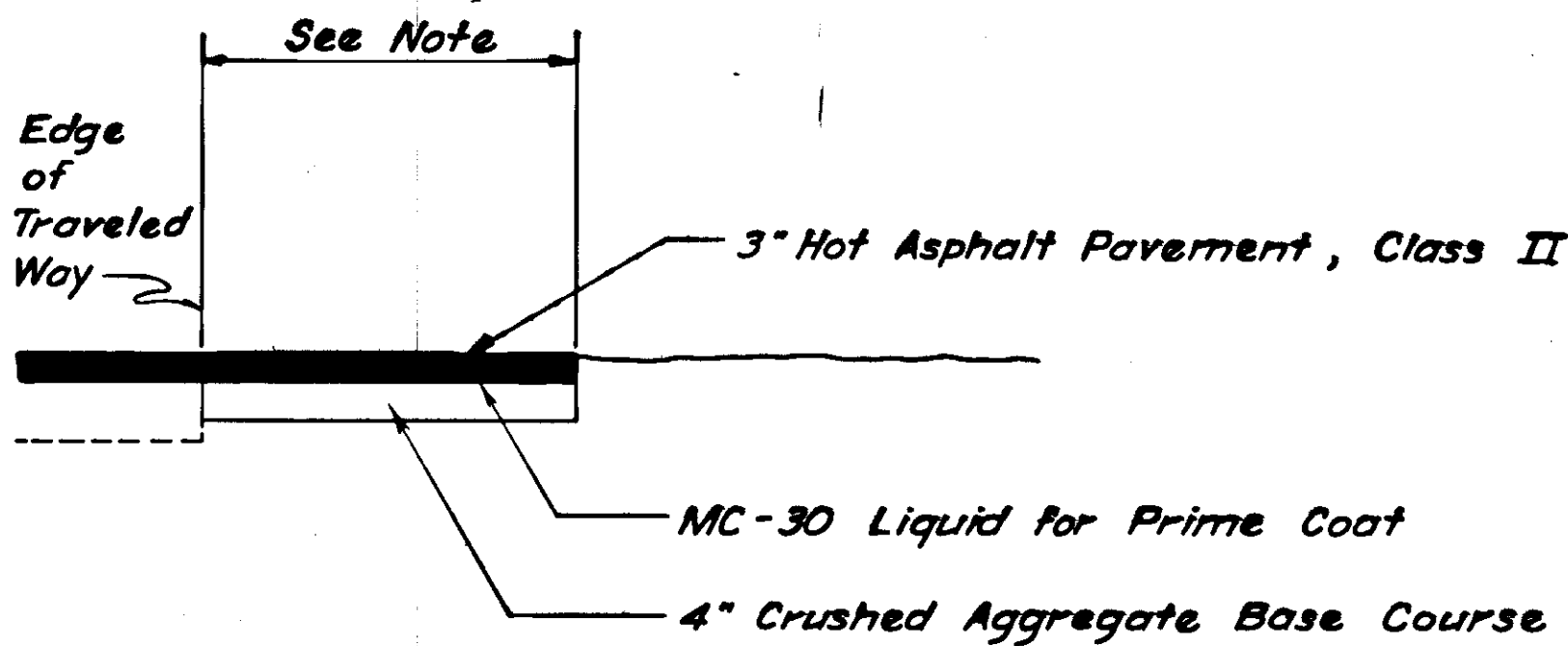
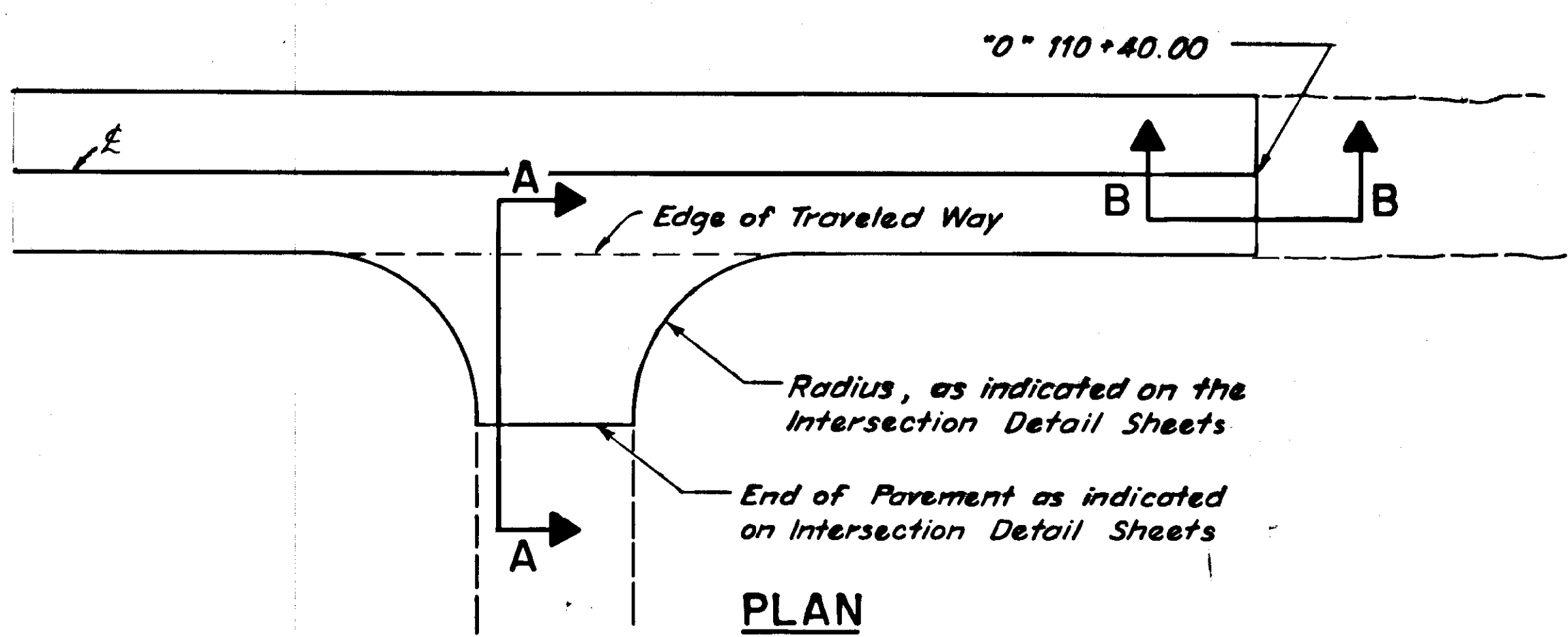
TABLE A		
Station	Distance	
73 + 04.77 , 14' Rt.	14.59' **	
73 + 77.63 , 14' Rt.	14.59' **	
89 + 36.56 , 14' Rt.	16.51' **	
90 + 13.60 , 14' Rt.	16.51' **	
99 + 09.25 , 14' Rt.	14.31' *	
99 + 87.25 , 14' Rt.	14.31' *	
103 + 29.48 , 14' Rt.	14.59' **	
104 + 14.85 , 14' Rt.	14.59' **	

* Distance on back of sidewalk.

** Distance on curve , back of sidewalk.

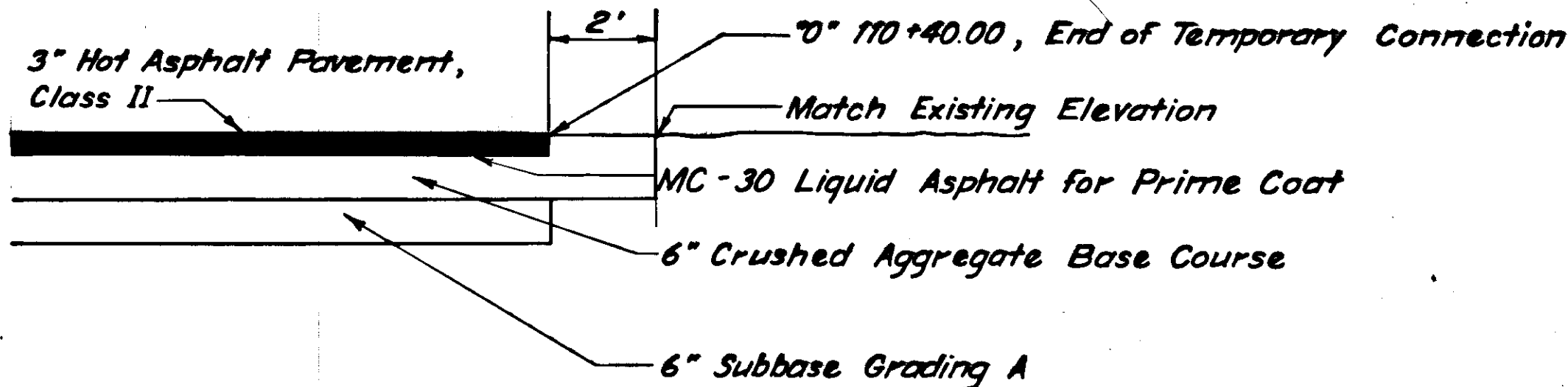
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	44	47

MISCELLANEOUS DETAILS

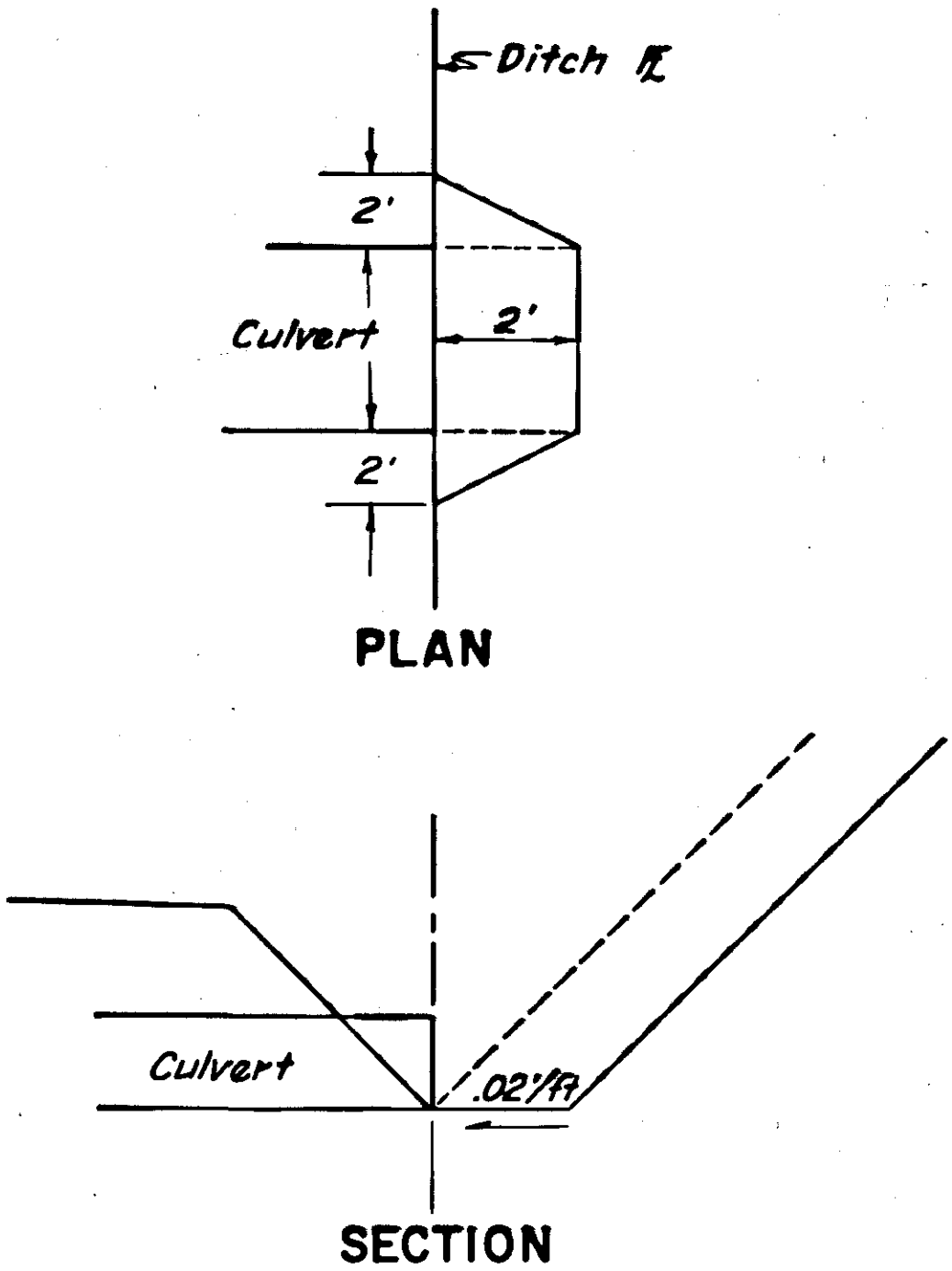


Note: End of Pavement is indicated on the Intersection Detail Sheets.

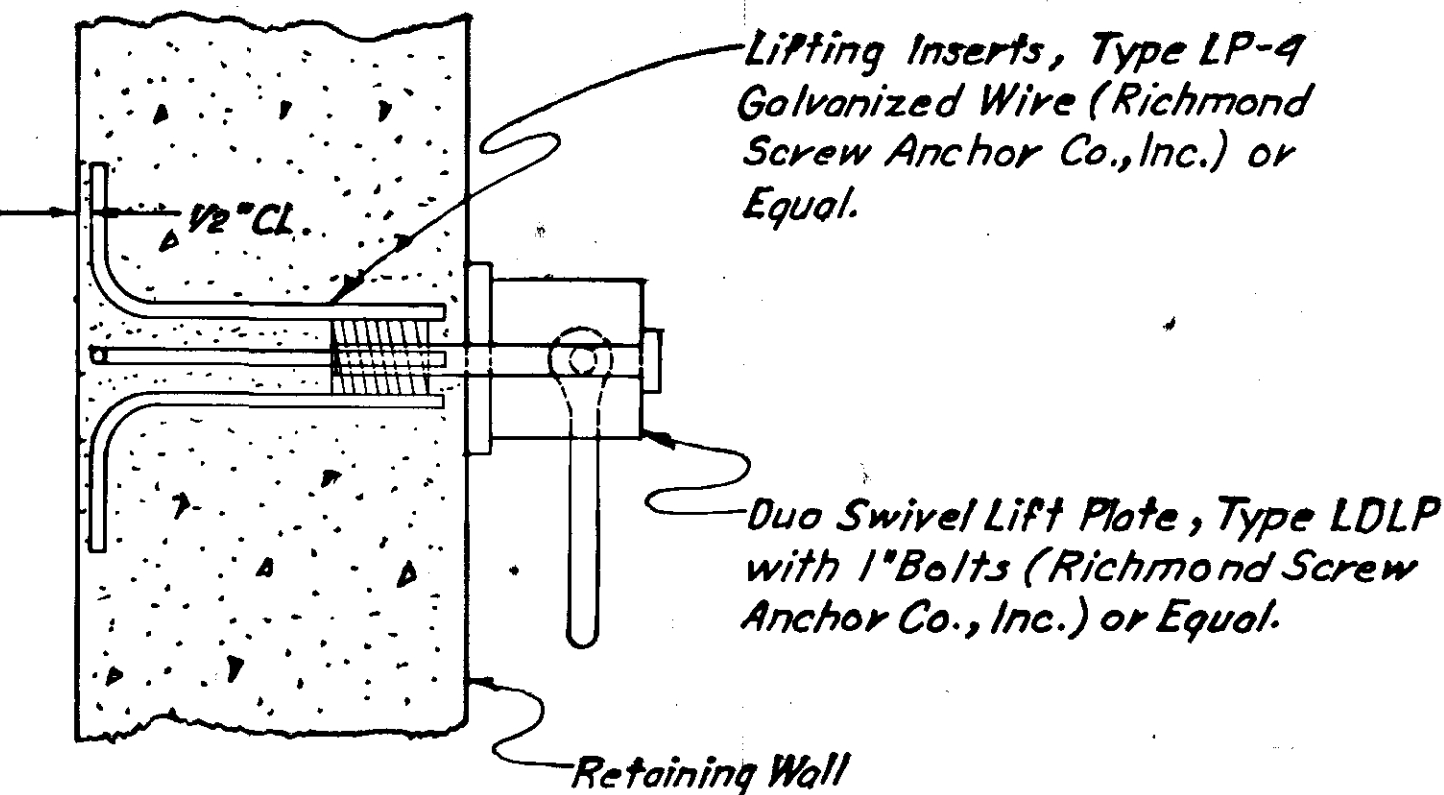
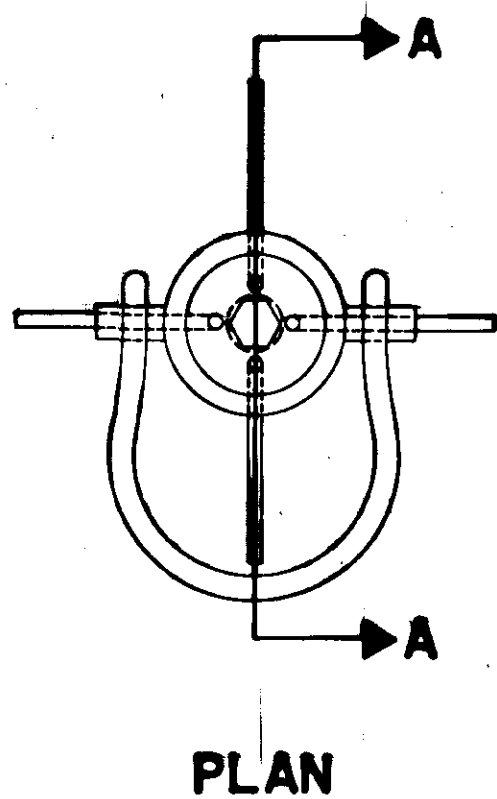
SECTION A-A
INTERSECTION AND APPROACH DETAIL



SECTION B-B
TRANSITION FEATHER DETAIL

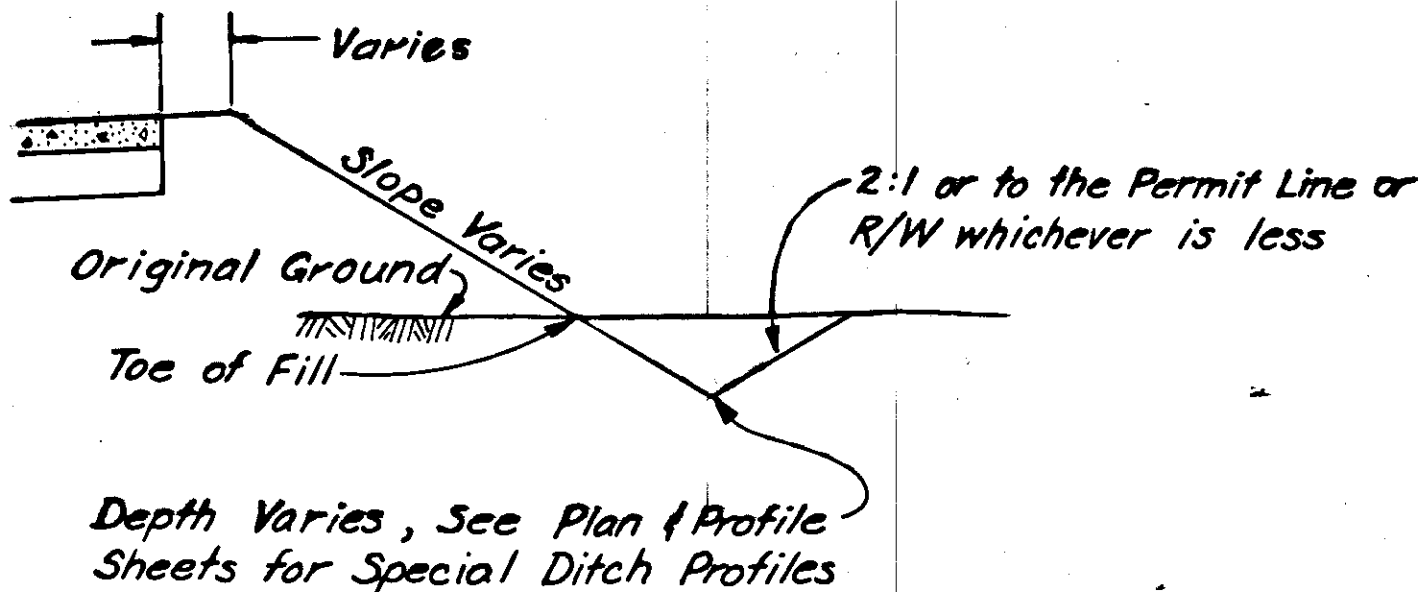


CULVERT INLET DETAIL



SECTION A-A
BOAT TIE ANCHOR

NOTE: All work required to construct "Special Ditches" and "Special Ditch to Culvert Details" shall be incidental to Item 203 (3) "Unclassified Excavation" and no separate payment shall be made therefore.



SPECIAL DITCH DETAIL

Constructed as Shown.

BOAT TIE ANCHOR TABLE	
Station	Offset
"0" 84+68	18.0' Lt.
"0" 84+76	19.5' Lt.
"0" 84+84	21.0' Lt.
"0" 86+68.07	21.0' Lt.
"0" 86+77.96	19.5' Lt.
"0" 86+87.86	18.0' Lt.

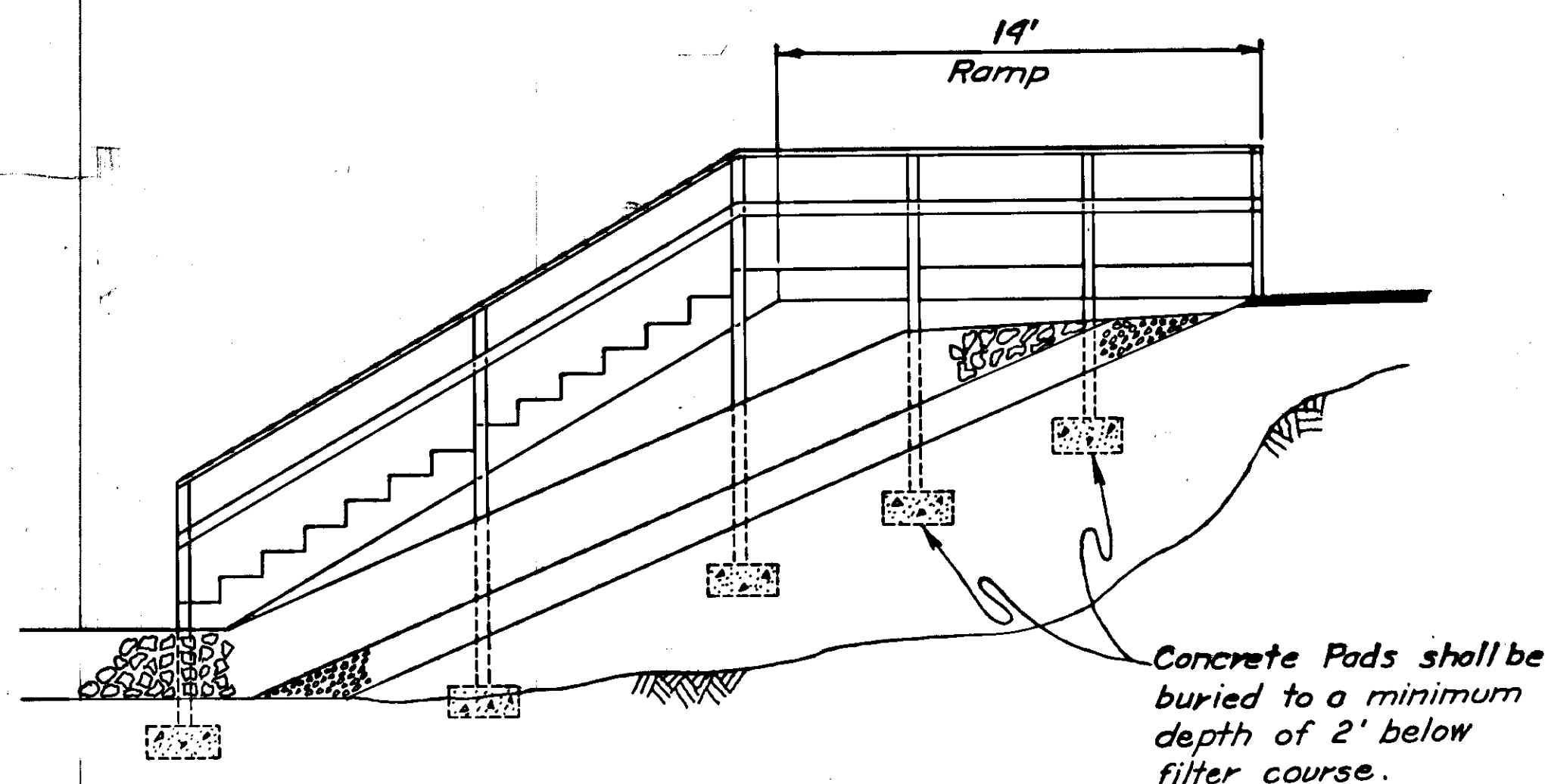
NOTE: Boat Tie Anchors shall be incidental to pay item 508(1) or 501(1).

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	45	47

WOODEN STAIRS

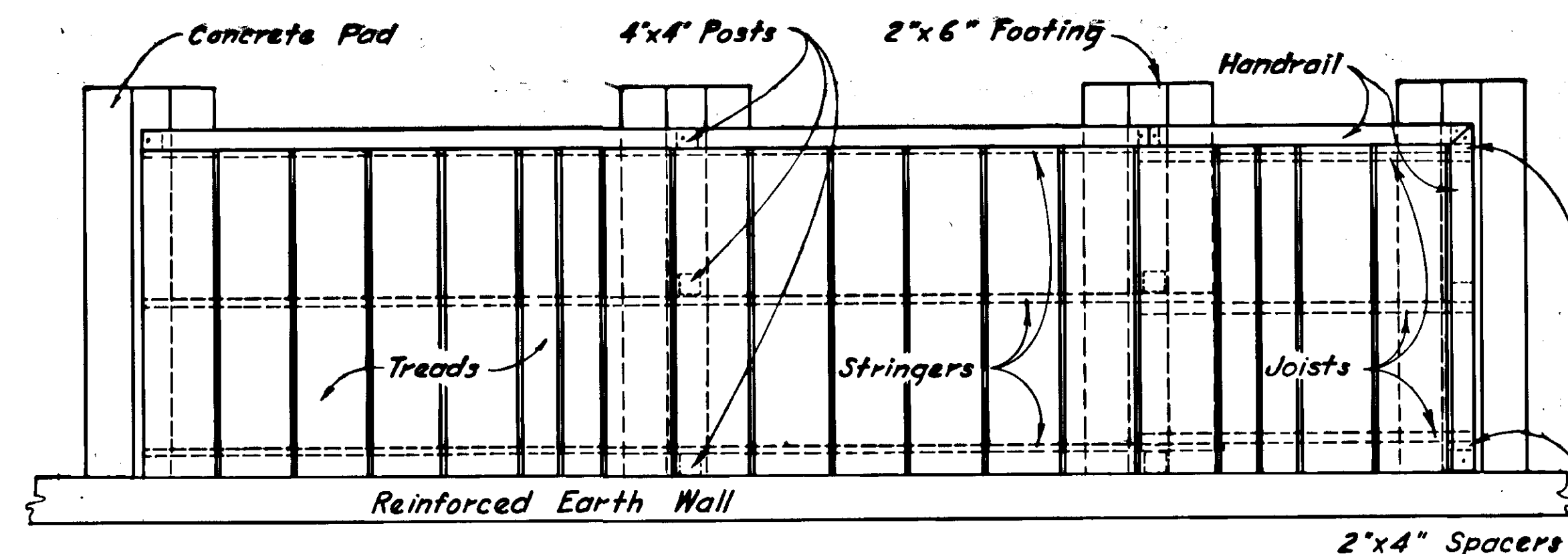
GENERAL NOTES

1. For lumber sizes, joint details, and general dimensions not specified on this sheet, see Standard Drawing M-05.00.
2. All lumber shall be construction grade, 1200 p.s.i. minimum, S-4-S, Douglas Fir or Hemlock, pressure treated.
3. Pressure treatment shall be coal tar creosote or creosote coal tar solution, 20 lbs. per cubic foot in outer two inches as specified in Federal Specification TT-W-571g.
4. All ferrous metals shall be galvanized.
5. All field cuts shall be treated with preservative creosote oils.
6. All steel fasteners shall conform to ASTM A307 Grade A.
7. Washers shall be placed under all lag screw heads, bolt heads, and nuts.
8. Lag screw heads and bolt heads shall be countersunk. Threaded portion of bolt with nut shall be placed on interior sides of stringers.
9. Handrail shall be placed on side away from retaining wall.
10. Stairs located at sta. "0" 85+00 left shall be built with 14 risers. Stairs located at sta. "0" 87+30 left shall be built with 12 risers.
11. Concrete for foundation pads shall be Class A concrete and will not be measured for payment, but shall be incidental to Item 506(2), Treated Timber.

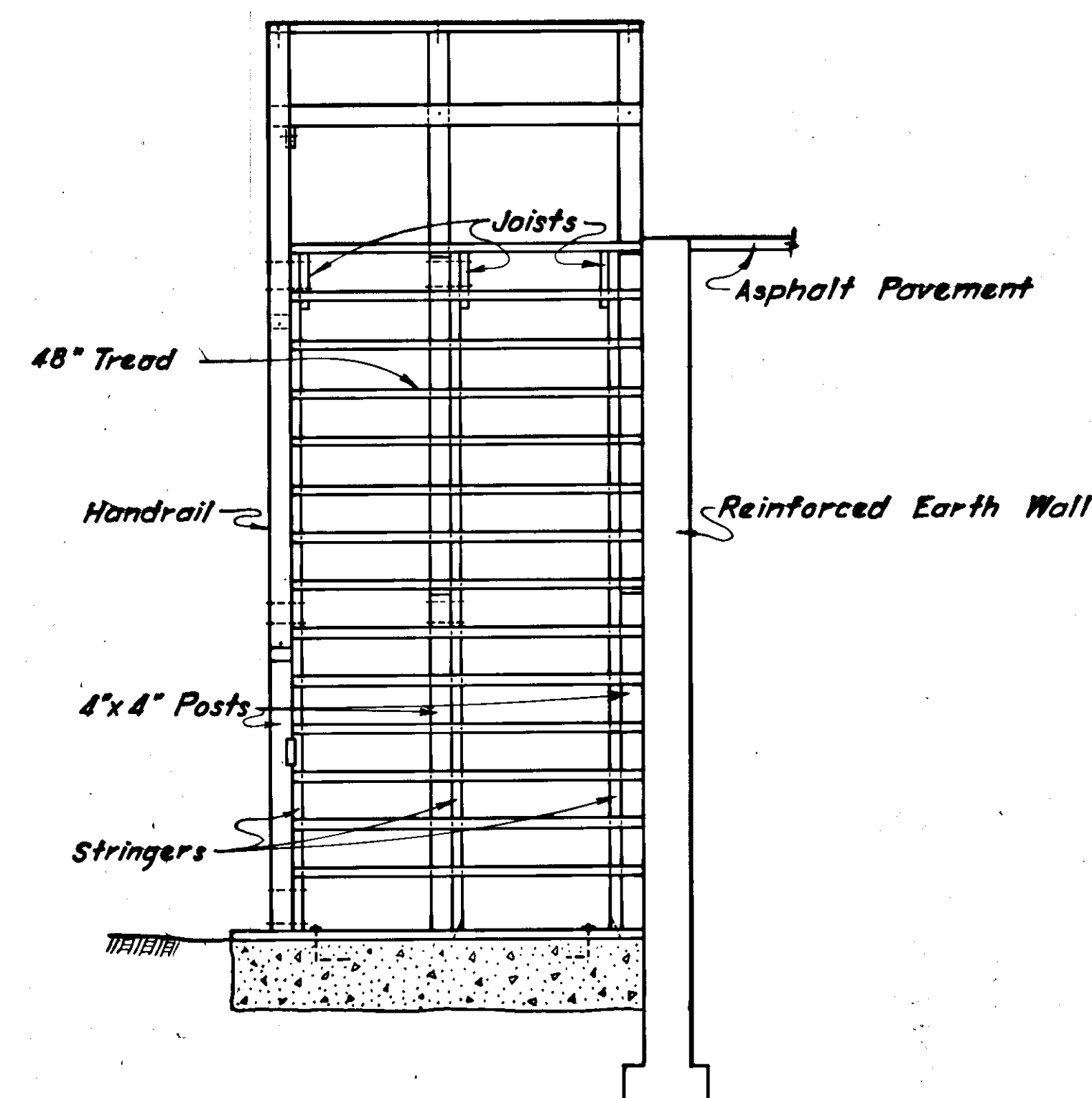


WOODEN STAIRS WITH RAMP
"0" 97+43.00

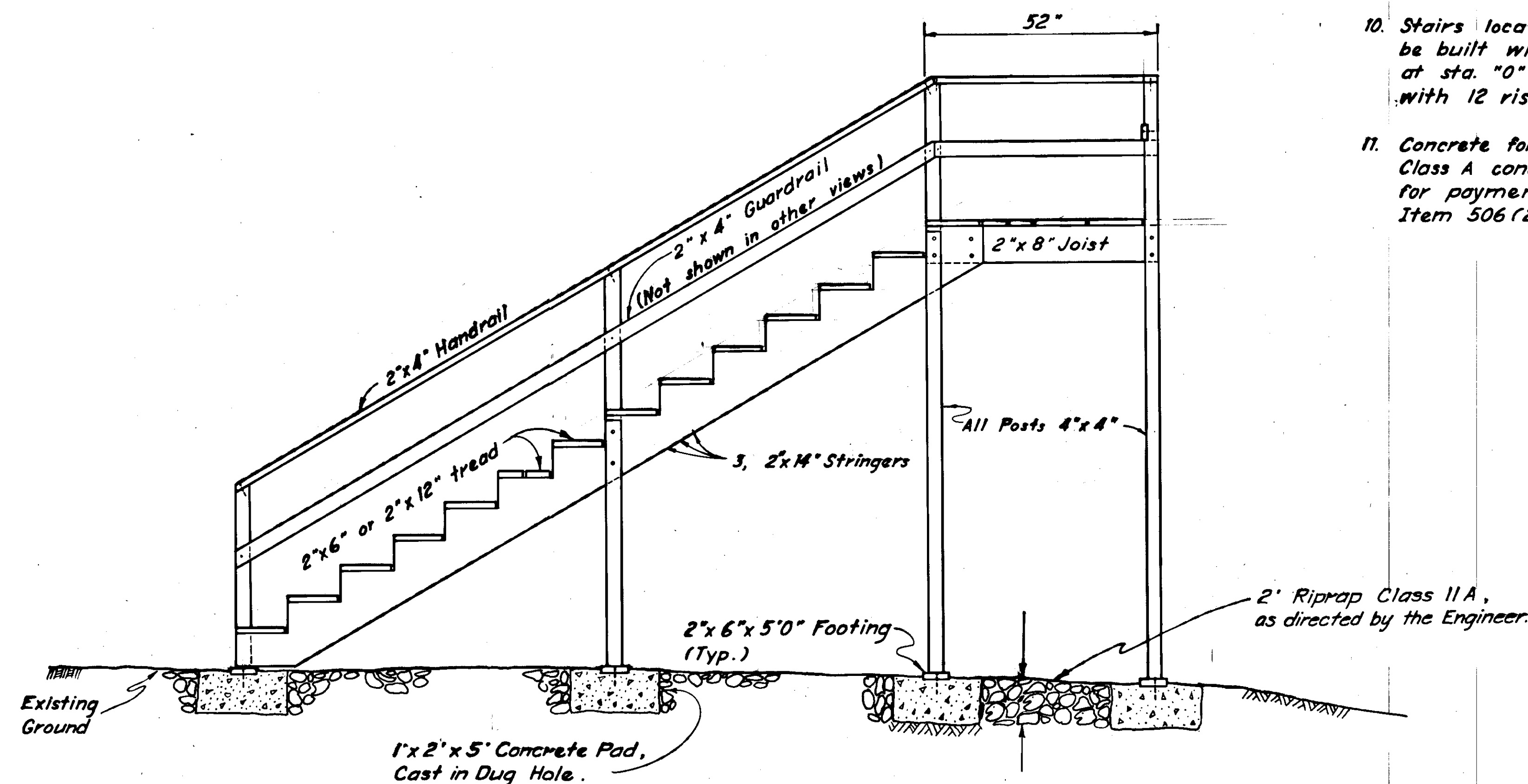
Note: Refer to Standard Drawing M-05.00 for all Design information.



PLAN VIEW



SIDE VIEW



ELEVATION
ALTERNATE A

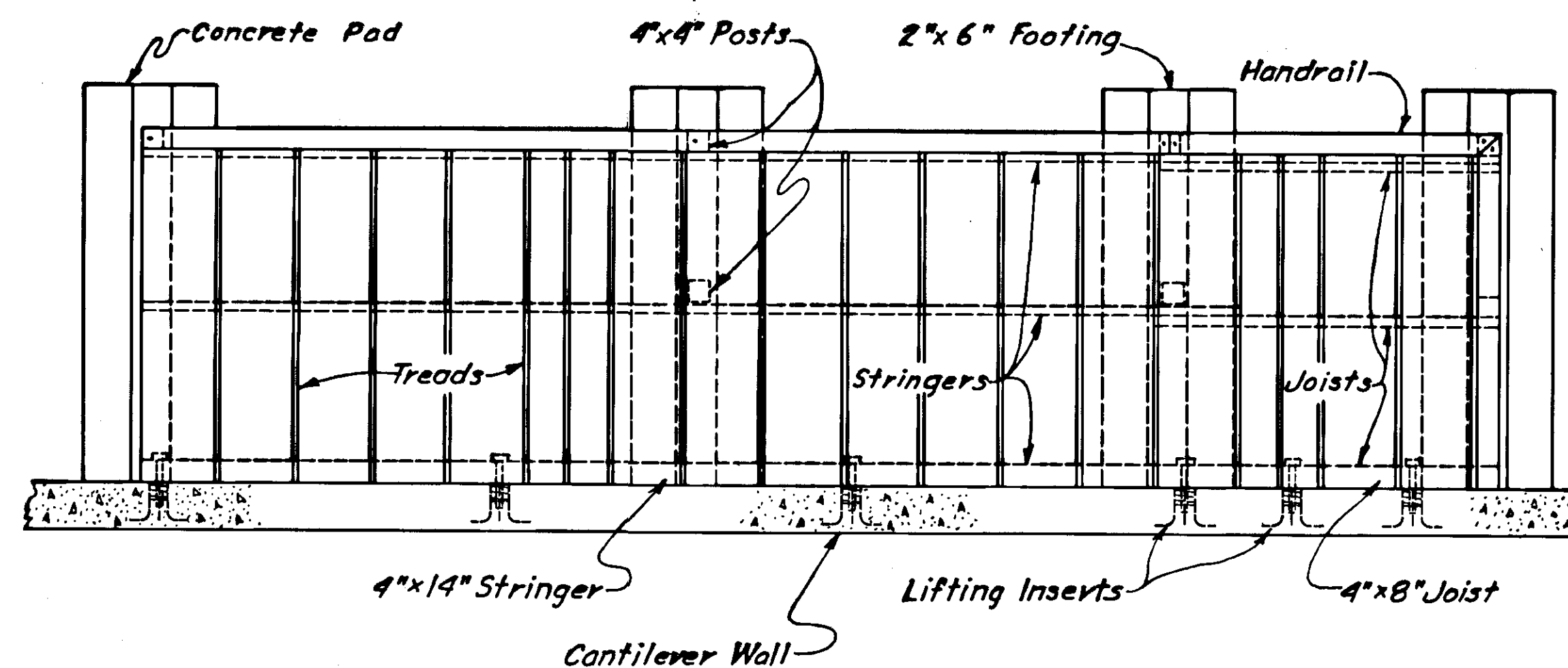
STA. "0" 84+86.5 and STA. "0" 87+30.00

WOODEN STAIRS
ALTERNATE B
STA. "0" 84+86.50 and "0" 87+30.00

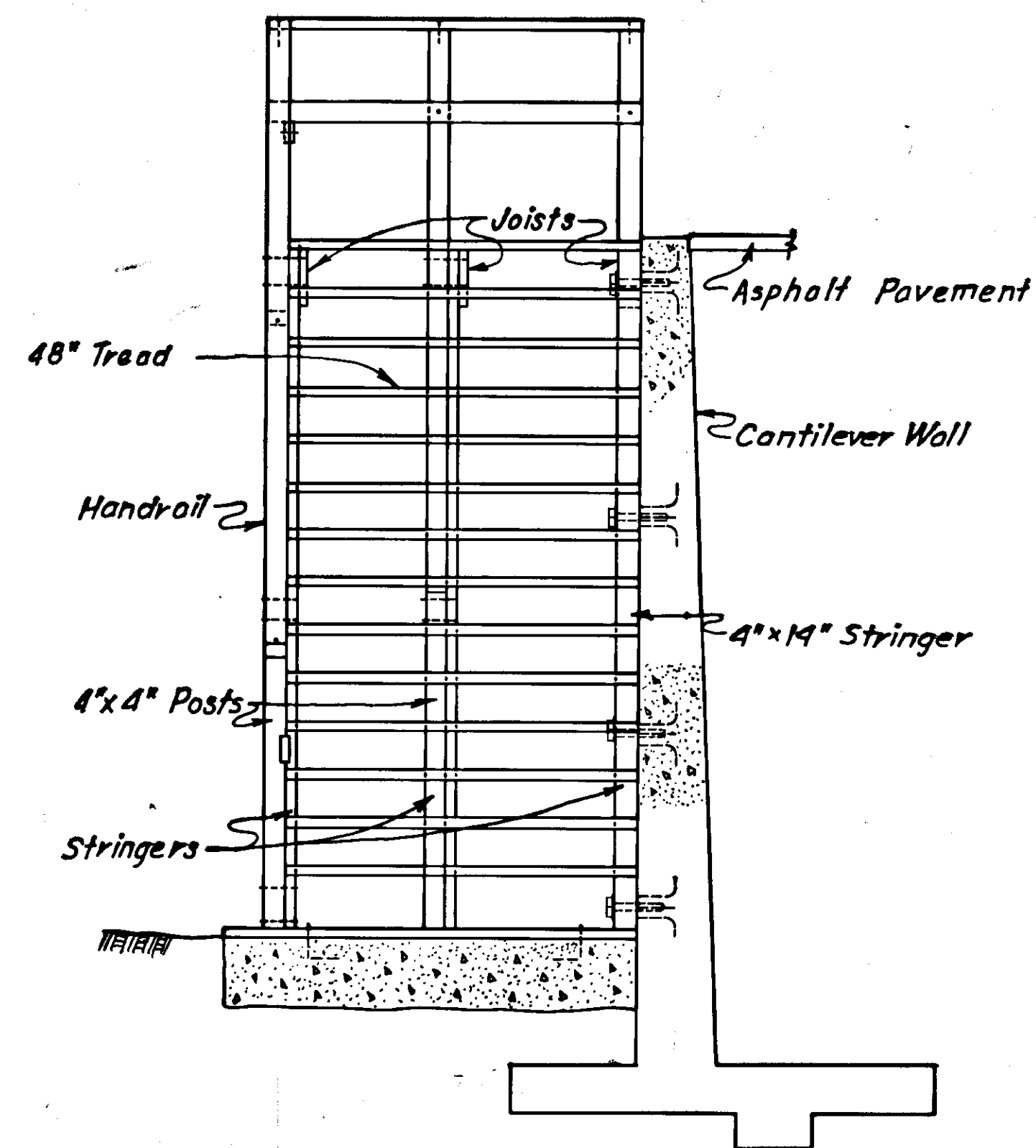
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	T & S-0937 (15)	1977	46	47

General Notes:

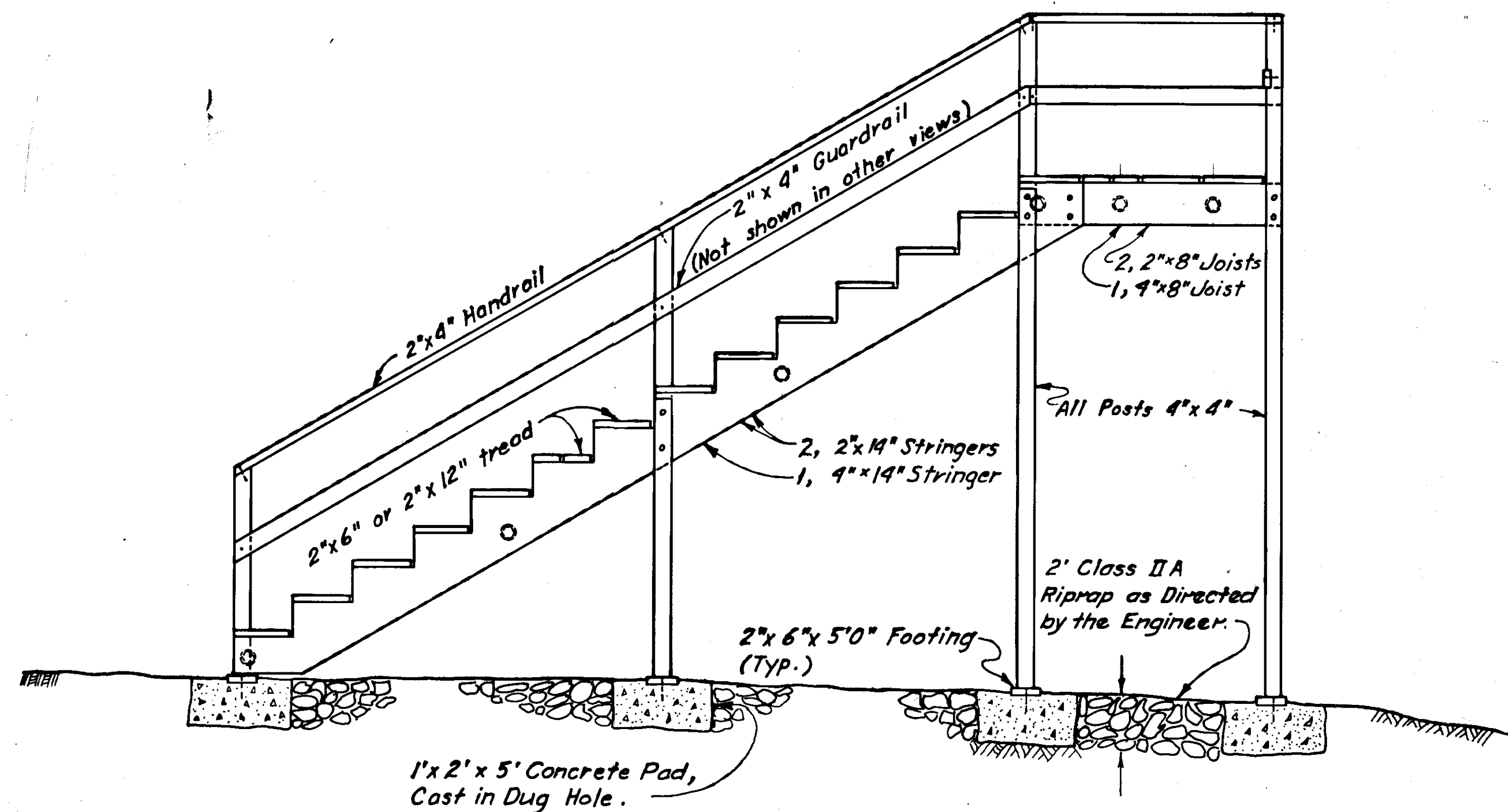
1. 4" x 14" stringer shall be attached to retaining wall with 4 evenly spaced Lifting Inserts, Type LP-4 and 1" bolts (Richmond Screw Anchor Co., Inc.) or equal. For Lifting Insert detail see sheet #44
2. 4" x 8" joist shall be attached to the retaining wall in the same manner as described in General Note #1.
3. All General Notes on Sheet # 45 apply to this detail unless otherwise specified.



PLAN



SIDE VIEW



ELEVATION

See Sheet no. 45

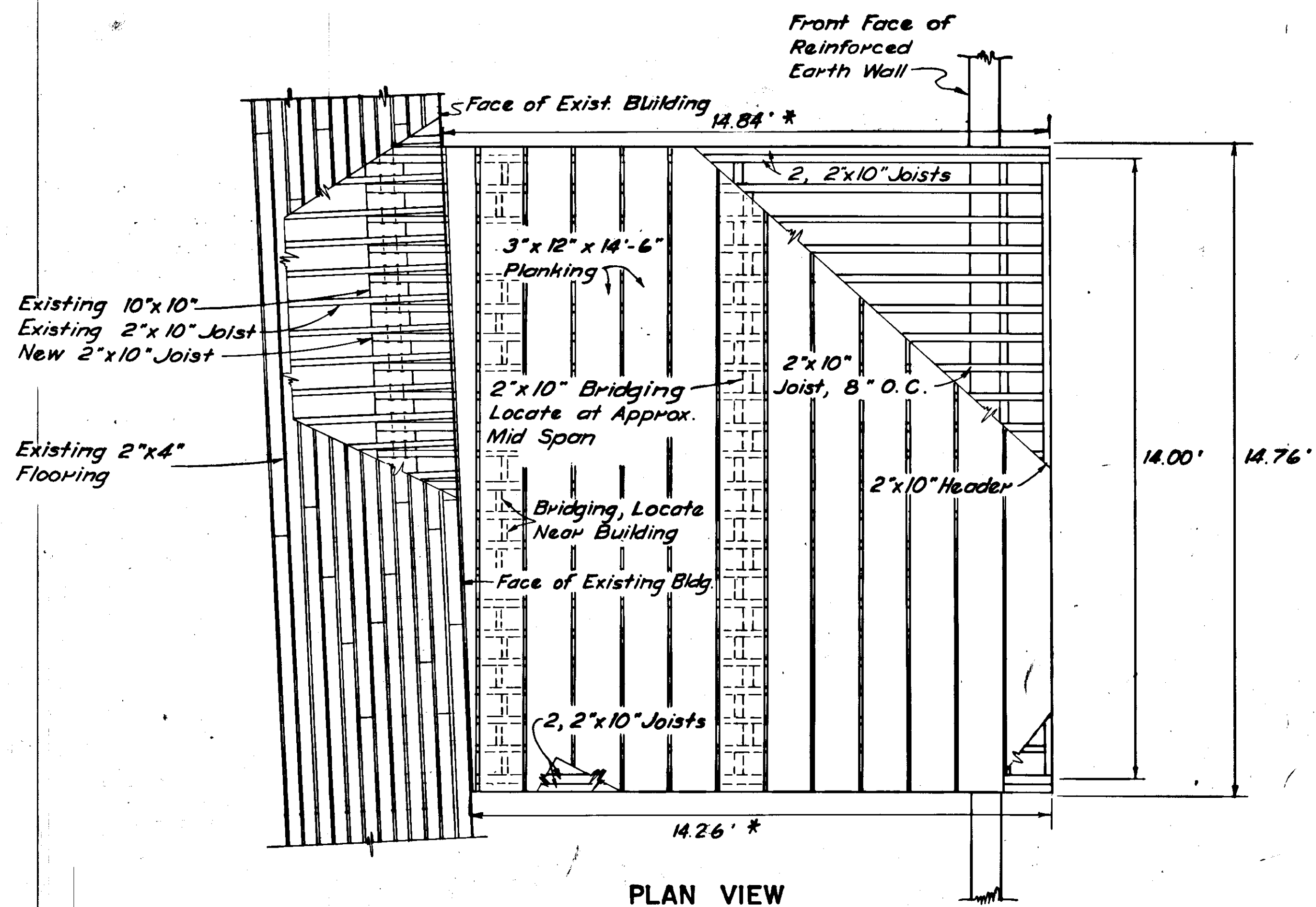
PLANK DRIVEWAY DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TQS-0937 (15)	1977	47	47

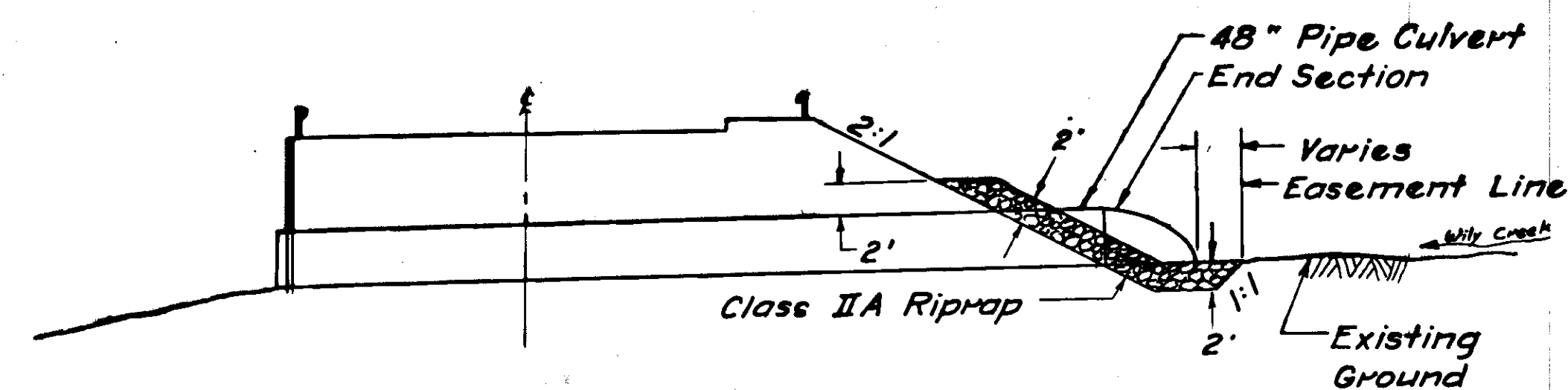
GENERAL NOTES

1. All new dimensions are nominal and shall conform to match the existing construction.
2. All beams and joists shall be Western Wood Products Association, Selected Structural, 1600 psi.
3. All decking shall be Western Wood Products Association, Commercial Decking, 1650 psi.
4. Pressure treatment shall be coal tar creosote or creosote tar solution 20 lbs. per cubic foot in outer two inches as specified in Federal Specification TT-W-571g.
5. All ferrous metals shall be hot dipped galvanized and considered incidental to pay item 506(2).

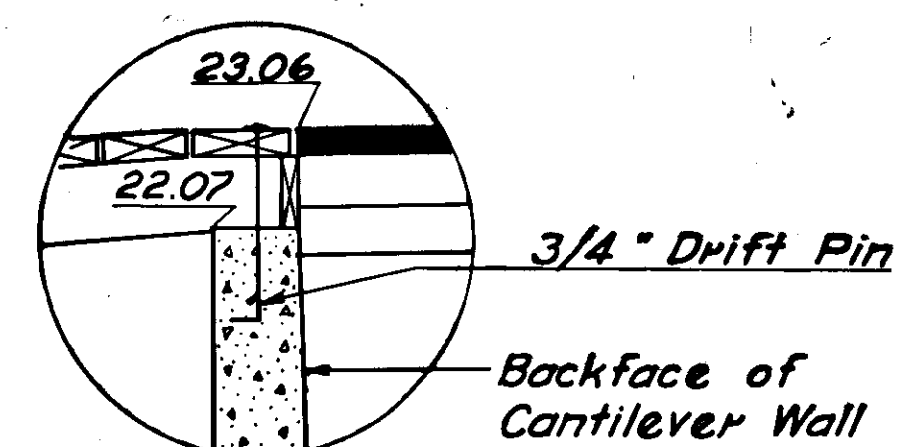
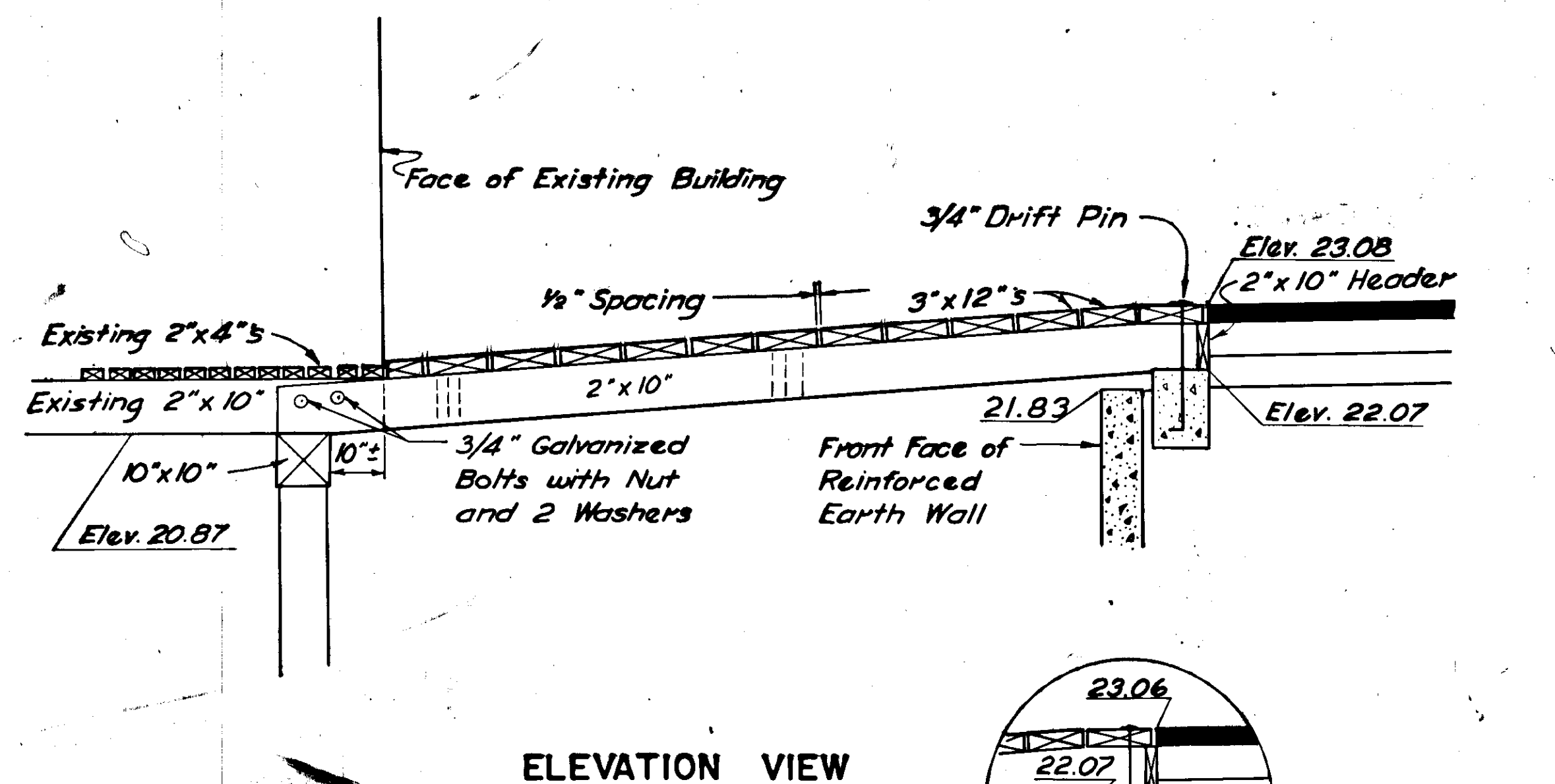
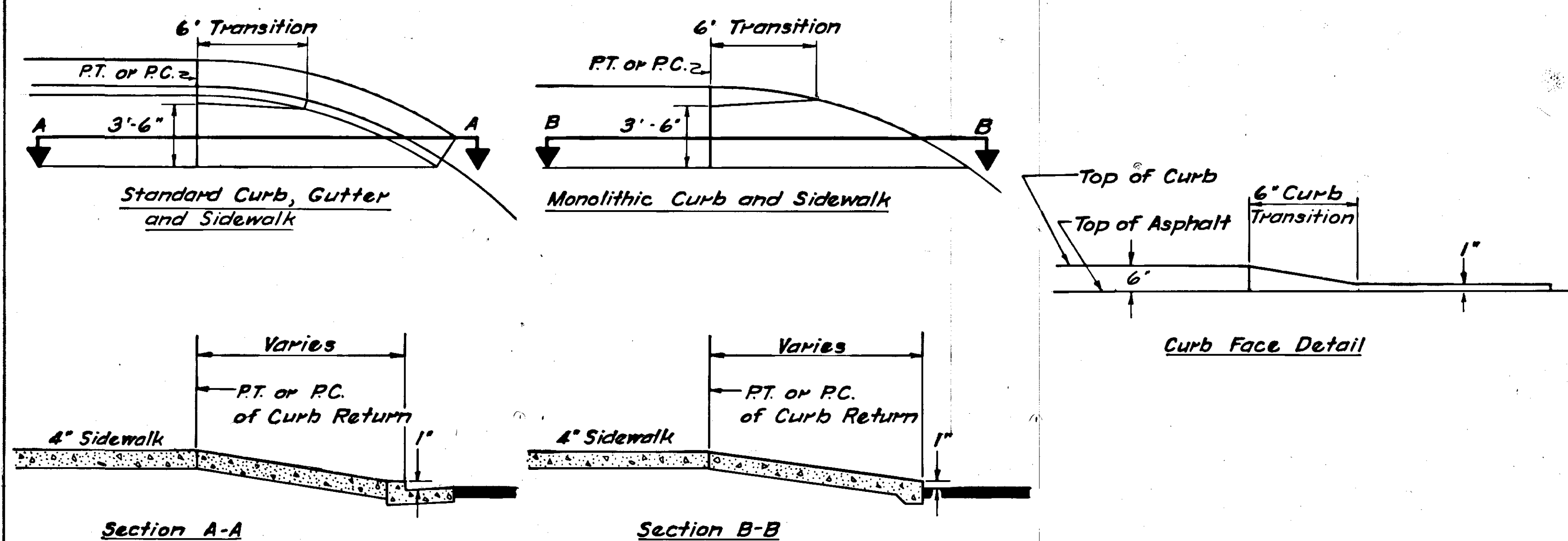
Constructed as Shown.



CULVERT RIPRAP DETAIL



WHEELCHAIR RAMP DETAIL



* Dimensions differ for alternate cantilever wall. The longer dimension is 13.09' and the shorter one 12.51'.