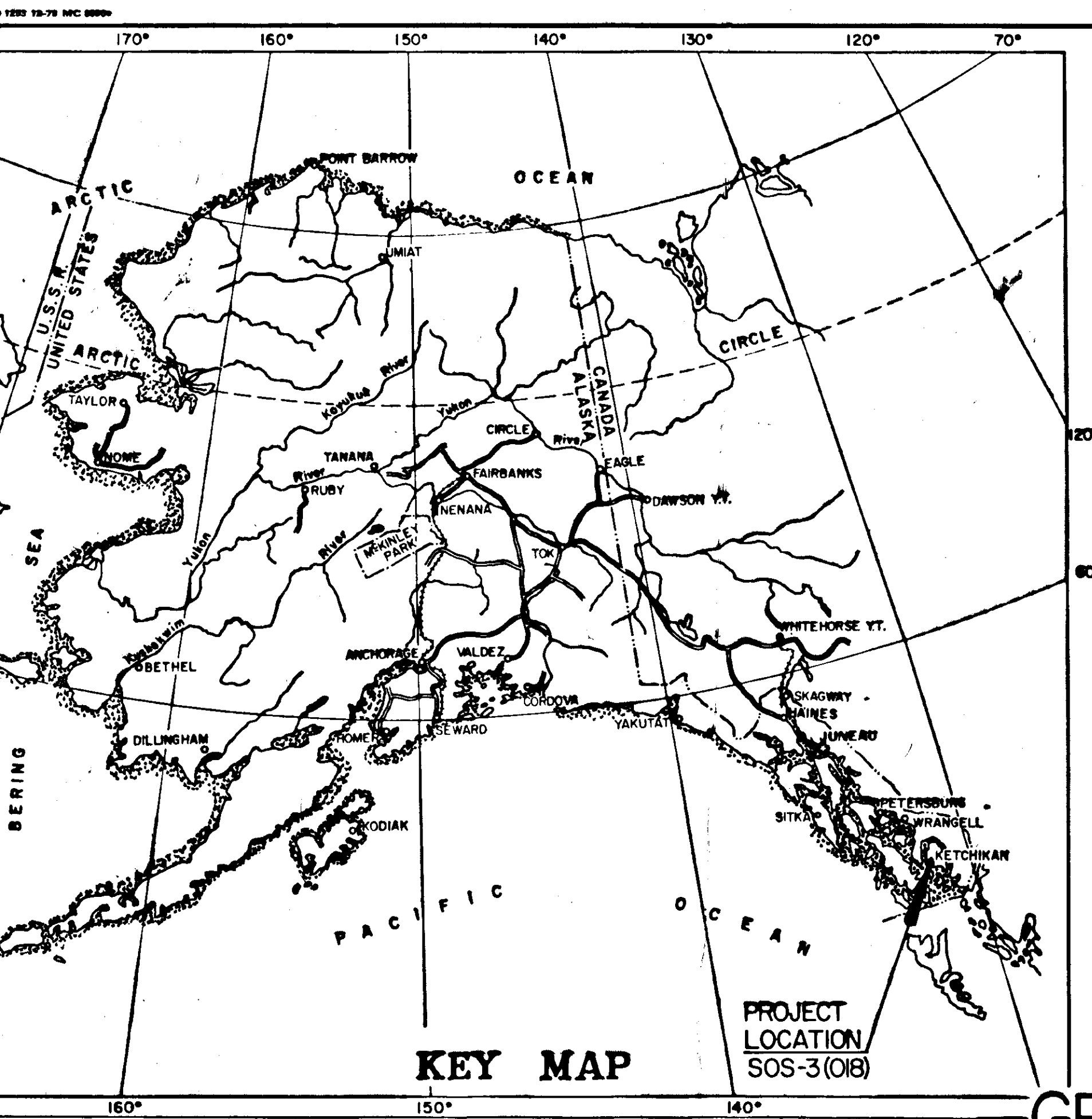




STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

ROOSEVELT DRIVE
SOS-3(018)
(E-86902)
AS-BUILT PLANS

SHEET NO. 1 OF 11 FOR
SUPPLEMENTAL WORK.

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	605-3(018)	1	18

INDEX OF SHEETS	
1	Title Sheet
2	Typical Section
3	Estimate of Quantities
4	Traffic Control Plan and Project General Notes
5E	Summary Tables
6	Plan & Profile Sheets
7-13C	Intersection Details
14-14a	Forks Creek Crossing Details
15-16	Water Appurtenance Table
17-18	

PROJECT SUMMARY

- WIDTH OF ASPHALT SURFACE TREATMENT = 26.00'
- LENGTH OF BRIDGE (BRIDGE NO. 218) = 21.50'
- LENGTH OF TEMPORARY CONNECTIONS = 98.5'
- TOTAL LENGTH OF PROJECT AND SURFACING = 3,466.65'
- LENGTH OF SUPPLEMENTAL WORK = 1597.01'

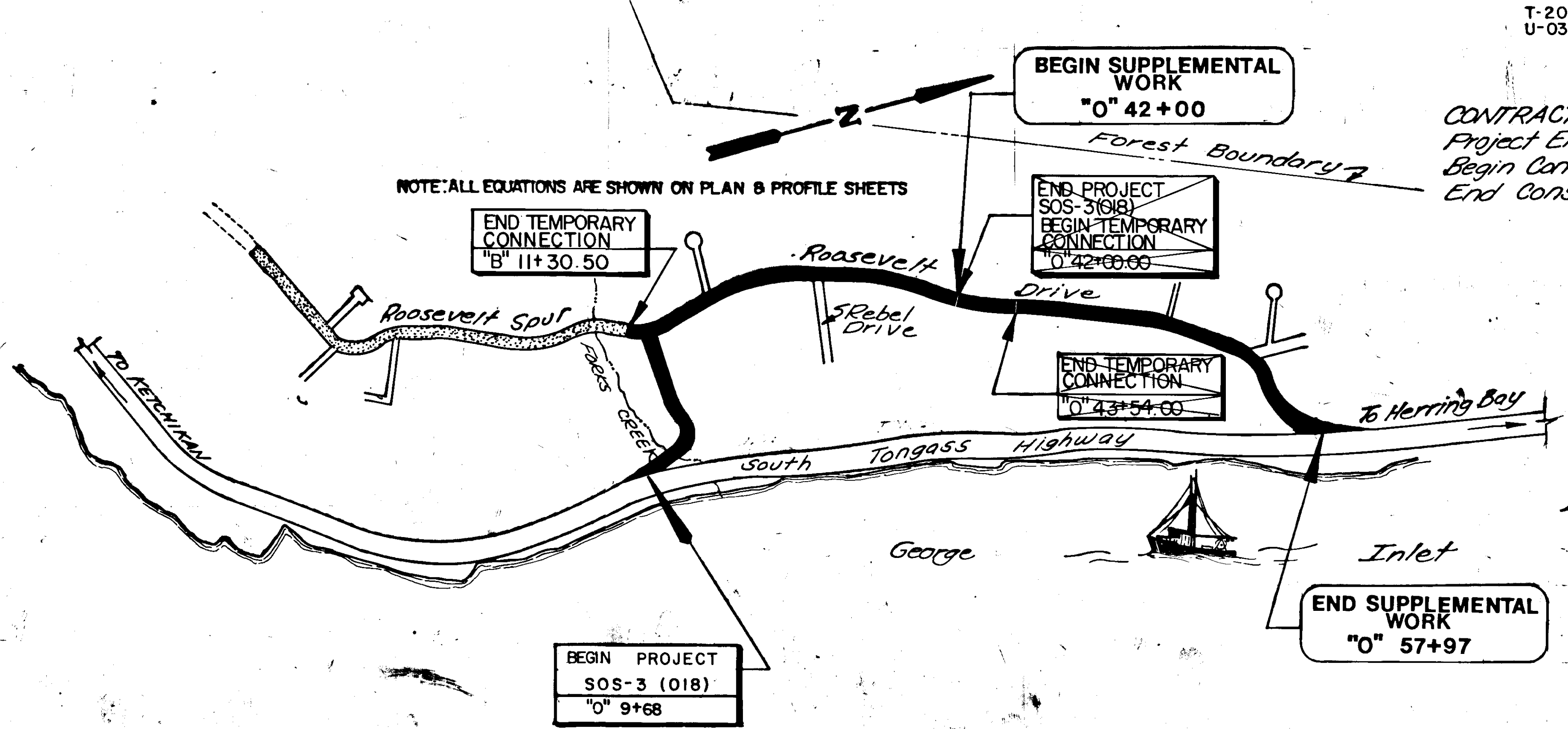
*DESIGN EXCEPTION FOR BELOW
MINIMUM RADIUS CURVES
GRANTED 9/13/1982
BY FHWA

DESIGN DESIGNATION

- ADT (1980) = 304
- ADT (2000) = 605
- DHV (15%) = 91
- D = 55-45
- T = 3%
- V = 30 m.ph.*
- T.I. = 5.5

GRADING, DRAINAGE, ASPHALT SURFACE TREATMENT
STRIPING & SIGNING

BRIDGE



THE FOLLOWING STANDARD PLANS ARE INCLUDED IN THIS PROJECT:

- A-1
- C-00.00, C-10.01, C-11.01
- D-01.00, D-04.00, D-05.00, D-07.00, D-20.00, D-24.00, D-26.00, D-27.00
- G-14.00S, G-18.00
- I-40.00, M-11.00, M-20.00, M-05.00, M-23.00
- S-0000, S-05.00, S-30.00
- T-20.00, T-21.00, T-22.00
- U-03.00

"AS-BUILTS"

CONTRACTOR: Hardrock Construction
Project Engineer: Dale Robbins
Begin Construction: April 5, 1984
End Construction: July 31, 1985

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED
W. Baumgartner Date 1/13/83
for SOUTHEASTERN REGION
DESIGN/CONSTRUCTION ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

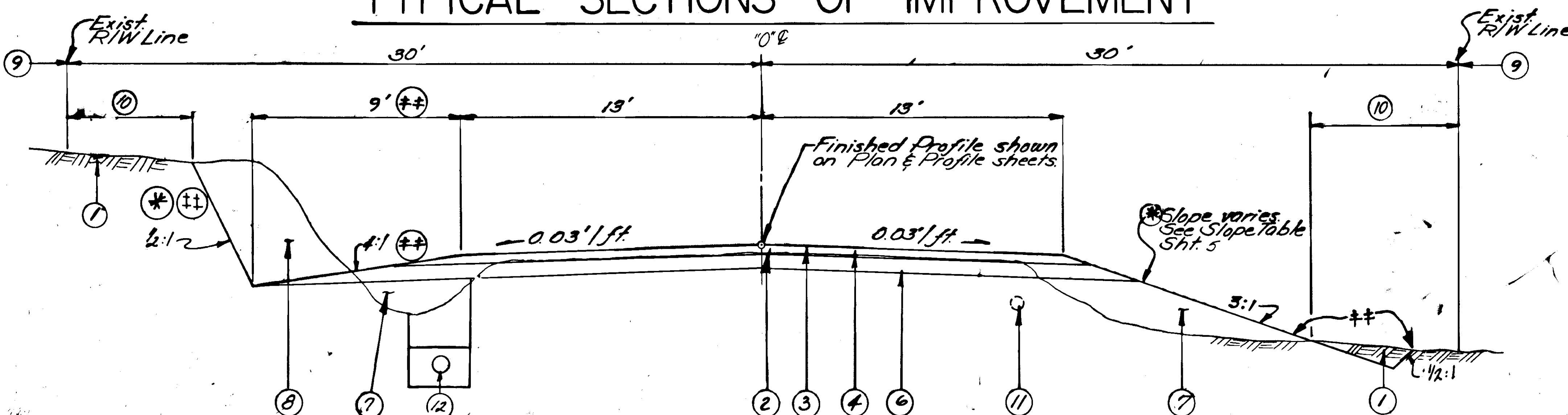
APPROVED
Charles H. Haddock Date 1-13-83

"As-Built" January, 1986 - C. Anderson

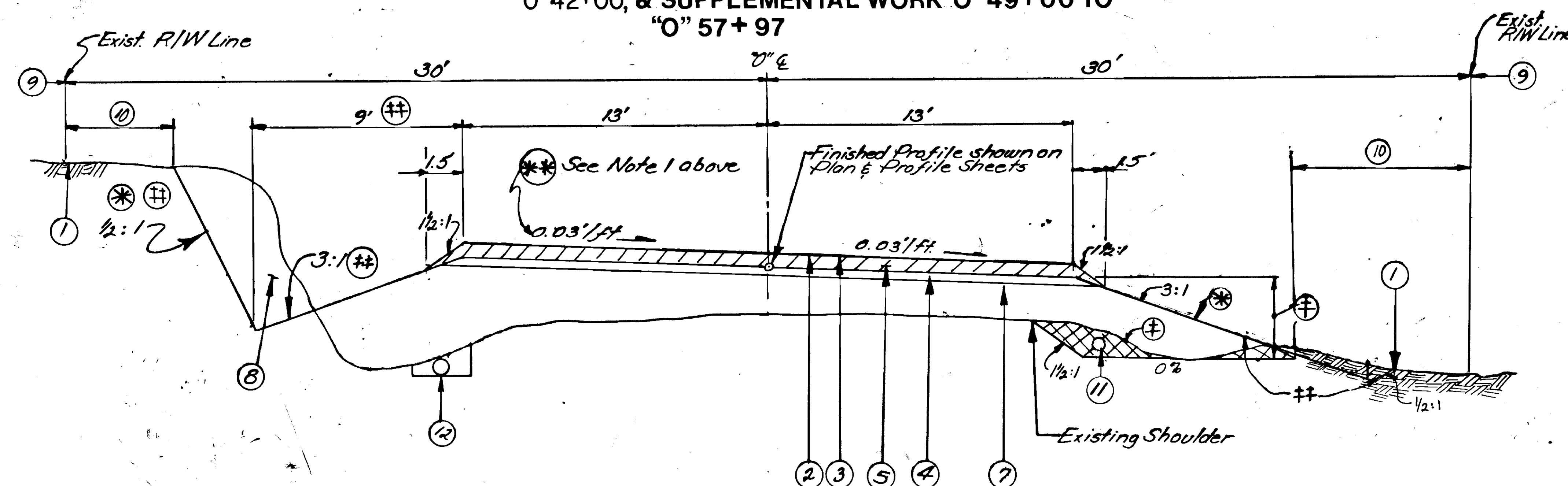
TYPICAL SECTIONS OF IMPROVEMENT

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SoS-3 (018)	1983	2	18

SHEET 2 OF 11 FOR
SUPPLEMENTAL WORK.



THIS TYPICAL SECTION APPLIES BETWEEN THE FOLLOWING
STATIONS: B.O.P. "0" 9+68 TO "0" 15+00, "0" 40+00 TO
"0" 42+00, & SUPPLEMENTAL WORK "0" 49+00 TO
"0" 57+97

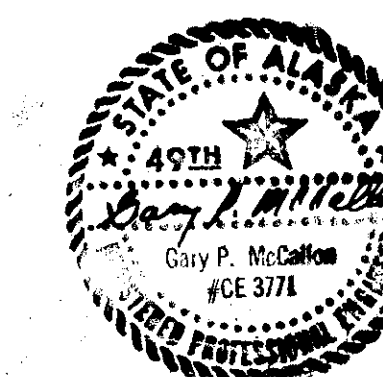


THIS TYPICAL SECTION APPLIES BETWEEN THE FOLLOWING
STATIONS: "0" 15+00 TO "0" 40+00 "0" 42+00 TO "0" 43+54
& SUPPLEMENTAL WORK "0" 42+00 TO "0" 49+00

-NOTES-

- Between "0" 30+88 ~ "0" 35+45.23 and "0" 10+00 ~ "0" 11+35.5 the rates of cross slope differs from that shown below. See Shts 11 & 14 for details.
- The depth of Unclassified Excavation between the existing & proposed shoulder shall be 3'.
- See Plan & Profile sheets for exceptions to the stated slope angles and/or distances.
 - Begin & end stations shown for these exceptions are for area of need only and it shall be the contractor's responsibility to slope stake & construct a smooth transition between the different widths & depths of ditches.
 - If required, the minimum transition length shall be 25 feet.

LABELING		INDEX		BASIS OF ESTIMATE	
ITEM NO.	ESTIMATING FACTORS	ITEM NO.	ESTIMATING FACTORS	ITEM NO.	ESTIMATING FACTORS
1	Existing Ground	9	Clearing & Grubbing limits unless otherwise noted on the Plan & Profile Sheets.	301(1)	2.1 tons/cu. yd.
2	Asphalt Surface Treatment (3)	10	Seeding Limits	304(1)	2.1 tons/cu. yd.
3	MC-30 Liquid Asphalt for Prime Coat. (3)	11	Existing Water Conduit	403(2)	0.25 gal/sq. yd.; 253 gal./ton @ 60°F.
4	4" Crushed Aggregate Base Course (13)	12	6" PVC Water Conduit - Location & depth Varies. See Sheets 7-14 & 17 for details.	405(1)	0.6 gal/sq. yd.; 241 gal./ton @ 60°F. 1st pass
5	6" Crushed Aggregate Base Course - Surcharge. (3)	13	See Note 13, Sht 4 of 21	405(2B)	4.5 lbs./sq. yd.
6	8" Embankment material meeting the requirements for Subbase Grading "A"			405(1)	0.4 gal/sq. yd.; 241 gal./ton @ 60°F. 2nd pass
7	Embankment material meeting the requirements for Subbase Grading "A"			405(2E)	2.5 lbs./sq. yd.
8	Unclassified Excavation				



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3(018)	1982	3	18

SHEET 3 OF 11 FOR
SUPPLEMENTAL WORK

ESTIMATE OF QUANTITIES											B.O.P TO D" 43+54	SUPPLEMENTAL WORK			
ITEM NO.	ITEM	UNIT	SHEET NUMBER								TOTAL	SHEET 8/11	SHEET 9/11	SHEET 10/11	TOTAL
			7	8	9	10	11	12	13						
110(1)	Mobilization	L.S.									All Req'd				All Req'd
111(1)	Temporary Erosion & Pollution Control	C.S.									All Req'd				All Req'd
112(1)	Training in Accordance with FHWA Order Interim 7-2(2)	C.S.									All Req'd				All Req'd
113(1)	Flagging	M.H.									All Req'd	(244.5 hrs)			All Req'd
114(1)	Construction Surveying by the Contractor	L.S.	(Also See Monument Notes on Sheet 5)								All Req'd				All Req'd
115(1)	Traffic Maintenance	L.S.									All Req'd				All Req'd
115(2)	Construction Signs	L.S.									All Req'd				All Req'd
201(28)	Clearing and Grubbing	L.S.	Estimated Quantity is approx. = 1.6 acres								All Req'd	ESTIMATED QUANTITY = 0.5 ACRES			
202(1)	Removal of Structures and Obstructions	L.S.									All Req'd				All Req'd
202(4)	Removal of Culvert Pipe	L.F.	92.13	2873	5959	145	1470	149	2183		698762	105120	11756	146115	338291
202(9)	Single Mailbox Installation	Ea.		2	1	43	44	1	21		112	81	42	2	35
202(10)	Multiple Mailbox Installation	L.F.	20	43	80	8	80	3	0		1514	40	445	0	245
203(3)	Unclassified Excavation	C.Y.	262	1279	297	454	229	658	573		3760 C.Y.	204	1264	834	2302
301(1)	Crushed Aggregate Base Course	Ton	246	791	976	1442	1257	1078	416		6206	667	791	367	1825
303(1)	Reconditioning	Sq. Yd.	24	54	54	6.5	6.5	5.8	2.8		33.4 34.7	3.0	6.3	5.28	14.5 121
304(1)	Subbase Grading "A"	Ton	874	1700	1745	2738	28.28	2746	563		13194	1778	1984	1316	5078
403(2)	MC-30 Liquid Asphalt for Prime Coat	Ton	1.01	1.90	1.82	2.61	2.16	2.02	1		12.52	1.15	2.06	1.51	4.92
405(1)	CRS-2 Liquid Asphalt for Surface Treatment	Ton	4.25	7.97	7.63	10.95	9.07	8.47	3.8		52.1	5.25	8.64	6.33	20.2
405(28)	Grading B Cover Coat Material for Asphalt Surface Treatment	Ton	23.1	43.2	41.4	59.4	49.2	45.9	25.9		244	23.2	46.9	34.4	104.5
405(25)	Grading E Cover Coat Material for Asphalt Surface Treatment	Ton	12.8	24	23	33	27.3	25.5	14.4		160	12.9	26.0	19.1	58.0
506(3)	Treated Timber	M.B.M.	48	55		N.I.C.			55		48		111 0.94		111 0.94
602(3)	Structural Plate Arch Span 21'6" Rise 7'9"	L.F.	50.4								50.54				54
603(13)	18 Inch Pipe	L.F.	6876	116192	12684	266224	90120	734124	84728		844950	0	13285	106	238191
603(13-24)	24 Inch Pipe	L.F.	6440	12060	9080	186154	282305	760112	46445		248810	48134	0.58	0.60	48252
603(13-36)	36 Inch Pipe	L.F.		5054							50.54	84118	0	0	84118
604(5A)	Inlets, Field Type	Ea.	1								1			1	1
604(5B)	Inlets, Type B	Ea.	1								1			1	1
605(6)	Modified Underdrain	L.F.					54				54	88	136100		834188
606(1)	Beam Type Guardrail, Type I Posts	L.F.	250	243.75							250	243.75	200	175	200
606(6)	End Anchorage	Ea.	42								42		2		2
615(1)	Standard Signs	S.F.	28	17	22.4	10					77.4		8.5	25.3	33.8
618(1)	Seeding	M. SF	2.2	7.4	8.3	9.6	10.9	7.8	3.9		50.1	7.0	9.2	3.5	19.7
618(4)	Water for Maintenance	M. Gal.	0.4	0.4	0.4	0.5	0.6	0.4	0.2		2.6 0	0.4	0.5	0.2	1.1 0
628(4)	Install Valve Box	Ea.		1	3						4				
628(9)	Water Service Connection	Ea.		46	3	87	4	2			21 22				
628(10)	Install 6 inch Gate Valve	Ea.		1	3						4				
628(12)	6 inch P.V.C. Water Conduit, Class 100	L.F.		469	648	663	652	220			2652 2630				
629(1)	Approaches	Ea.	42	89	41	9	50	45	1		32 438	56	3	3	11 12
670(1)	Painted Traffic Markings Deleted from Contract	L.S.	Estimate of Quantities shown on Sheet 6								All Req'd				All Req'd
201(5)	Select tree removal (E.W.O #4)	ea.											2		2
628(13)	4 inch P.V.C. water conduit, Class 150 E.W.O. #1	L.S.				(100)		(50)			All req'd. (150 LF)				
628(14)	Water Service Connection (Upgrade from 4" to 6") E.W.O. #2	Ea.			2						2				
628(15)	6 inch P.V.C. Water Conduit, Class 100 E.W.O. #3	L.F.						259			259				

1053

17

18.5

6245

8676.90

46.8

19,585.63

13.39

71.39

622.15

312.38

1.59

54

1,141

1,062

172

1

2

242

418.75

4

111.2

34.9

50

Estimate of Quantities
shown on Sheet 6



TRAFFIC CONTROL PLAN

GENERAL NOTES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	505-3(018)	1983	4	18

SHEET 4 OF 11 FOR
SUPPLEMENTAL WORK

** Indicates changes made to
original contract documents.

1. The contractor shall assign one of his employees the duty & responsibility of installing & maintaining the required traffic control elements for this project.
2. Project identification & construction signing for this project shall be as shown on Standard Plans C-10.01
3. Allowable one-lane closures on this project shall be constructed & maintained to a 12' width at all times.
4. When the contract calls for existing or proposed roadway to be opened to two-way traffic a 20' width shall be constructed & maintained.
5. All closures for this project shall be barricaded, signed, etc. in accordance with Standard Plan C-11.01.
 - A. During dusk to dawn hours the barricades utilized at the Forks Creek Closure shall include flashing yellow lights.
6. All flagging required within these project limits shall be paid for under Item 113(1) FLAGGING. Any flagging req'd. outside the proj. limits shall be considered incidental to other items of work.
7. The contractor shall keep the public advised of his construction activities through use of the local news media. Advance notice of all road closures & detours shall be published in the local newspaper(s) & broadcast over all local radio & TV stations for 5 days prior to beginning each closure or detour.
8. During the reconstruction of the Forks Creek crossing, the contractor may close the area between "0"11+00 & "0"12+40 to all traffic provided he has met the following requirements.
 - A. Notified the Engineer & the following agencies as to the day & time this closure will begin & end. Notification shall be by letter & shall be delivered 15 days prior to beginning the closure.
 1. Post Commander of the State Troopers
 2. Manager, Superintendent of Schools, and Fire Chief for the City and Borough of Ketchikan.
 3. U.S. Postmaster - Ketchikan
 - B. Once the contractor disrupts the flow of traffic in this area he shall have 40 consecutive days to complete the area to finished grade (including the guardrail) or liquidated damages in the amount specified in Subsection 108-1.07 of the Special Provisions will be charged.

1. Grade & alignment shown on these plans are subject to minor revisions.
2. Storm inlet locations & elevations shown are subject to minor revisions.
3. Culvert lengths & locations shown on these plans are subject to minor revisions.
4. The locations of all utilities shown on these plans are approximate only and shall be verified by the contractor.
5. The installation, adjustment & removal of all utility poles & related appurtenances shall be performed by others.
6. Proposed utility pole locations are shown & are to be considered informational only.
7. Reconstruction, as referred to in this contract assembly, is any work called for under this contract.
8. The rates of superelevation & transition lengths for this project are shown on the Plan & Profile sheets. Superelevation for this project is revolved about centerline.
9. All pipe installed between "0"15+00 & "0"49+00 shall have two feet of bedding material under the planned inverts unless otherwise directed. Backfill for all pipes shall be Subbase, Grading "A".
10. During reconstruction of this project all damage done to the existing &/or relocated utility poles & appurtenances shall be repaired by the owners of the utility and the cost of these repairs shall be paid by the contractor. Costs can include but are not limited to the following: Stand by time, crew time, materials, etc.
 - A. Damage done to the existing or proposed water conduit shall be repaired by the contractor at his expense.
 1. Prior to starting any work that may cause damage to existing water conduit and/or services, the contractor shall have an approved plan for keeping the existing Conduit and/or services operable until the new conduit services have been accepted for service. This plan shall be submitted in, and approved in writing.
11. Prior to completing the area between "0"15+00 to "0"40+00 and "0"42+00 to "0"49+00** to top of subbase, trucks & equipment working on the following items of work shall be allowed on the existing embankment, clearing, installation of pipes & the proposed water conduit.
12. While working on the following items of work: 1) Clearing & grubbing, 2) Installation of the water conduit, 3) Removal of unclassified excavation, 4) Installation of pipes, 5) Placement of the subbase material, the contractor may totally close 300 foot sections of the roadway during his normal working hours provided he has met the following requirements:
 - A. The roadway is returned to two-way operations, meeting the requirements listed in T.C.P. Note no. 4, during non-working hours.
 - B. The above closures do not coincide with closures allowed at the Forks Creek crossing, nor shall they interfere with traffic using Roosevelt Spur.
 - C. In case of emergency these closures shall be made possible as soon as possible.
 - D. At least 24 hours in advance of each closure, the contractor shall have gone door to door & notified all residents within the affected area of each closure.
 - E. Fifteen days prior to beginning this type of construction the contractor shall have notified, in writing, the Engineer & the agencies listed in T.C.P. Note 8 as to his planned beginning & ending dates for this type of construction.
13. Placement of the prime coat & asphalt surface treatment may not begin until the following stipulations have been met:
 - A. The proposed Embankment & Base Course required between "0"15+00 to "0"40+00, & "0"42+00 to "0"49+00** has been allowed to consolidate for 240 consecutive calendar days.
 - B. The newly reconstructed roadway has been reconditioned & relevelled in accordance with Section 303 of the Special Provisions.
 - C. The weather limitations stated in Sect. 405 of the Special Provisions can be met.
14. When installing the asphalt surface treatment (AST) the contractor shall place half of the required width of a turn and route through traffic over the other half. Traffic shall not be allowed on the freshly applied AST until the minimum cure time shown in Section 405 of the Special Provisions have been met.
15. The contractor shall temporarily relocate mailboxes as required so as to maintain postal service. These locations shall be acceptable to the local post master & the engineer.
16. Fire department identification signs shall be relocated & visible at all times. Any relocation of the fire signs shall be approved by the Engineer & payment shall be considered incidental to other items of work appearing in the bid schedule.



SHEET 5 OF 11 FOR
SUPPLEMENTAL
WORK.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	505-3(18)	1983	5	18

REMOVAL OF STRUCTURES & OBSTRUCTION SUMMARY

FROM STATION	TO STATION	LT.	RT.	REMARKS
0+11+56	0+11+61	✓		Remove exist. Guardrail
0+11+54	0+11+59	✓		Remove exist. Guardrail
0+11+75		✓		Remove exist. Bridge
0+11+88	0+11+93	✓		Remove exist. Guardrail
0+44+70	0+44+75	✓		Remove exist. Bridge **
0+50+30		✓		Remove exist. Stairway **
0+51+9		✓		Remove exist. Stairway **

NOTE: ** INDICATES ADDED
SUPPLEMENTAL WORK

GUARDRAIL SUMMARY

FROM STATION	TO STATION	OFFSET LT. RT.	INSTALL	END SECTION	REMARKS
0+10+87.94	0+12+34.49	✓	* 150'	2-1	See Post Deletion Details on Sheet 16
0+11+37.44	0+12+37.8	✓	* 100' 3.8	2-1	See Post Deletion Details on Sheet 16
0+50+32.62	0+52+25.837	✓	* 175 193.75	2	**

* Indicates installation of 645 Beam Guardrail, Type I Post, only

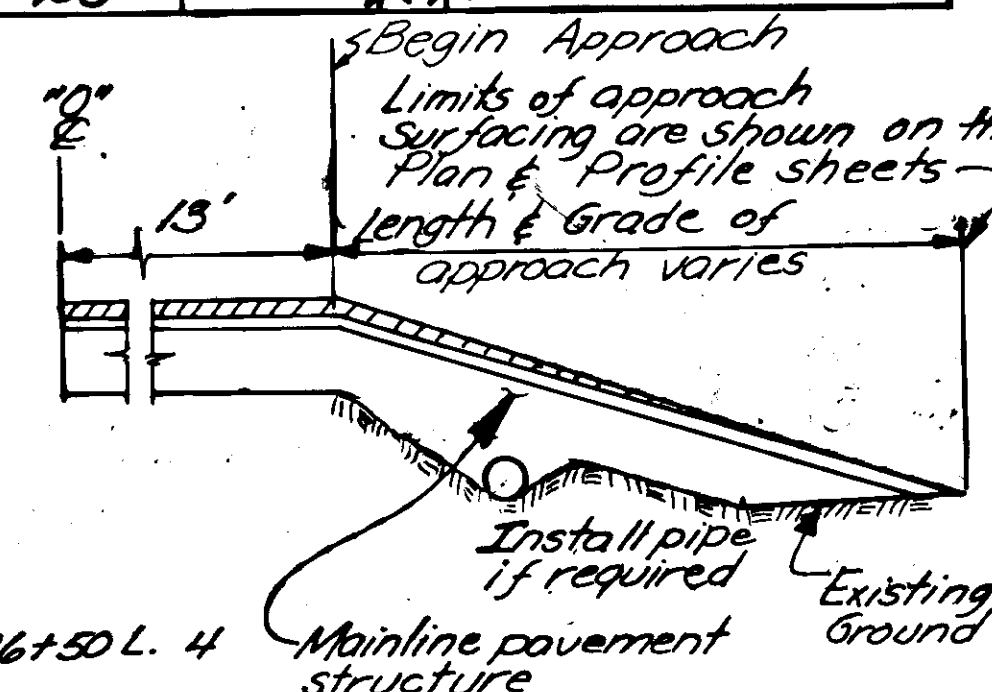
TABLE OF SLOPES

FILL		STATION		CUT	
LT.	RT.	From	To	LT.	RT.
1 1/2:1	1 1/2:1	0+11+55	0+12+00		
3:1		0+12+00	0+13+00		
		0+13+00	0+13+90	2:1	*
2:1		0+15+10	0+17+50		
1 1/2:1		0+19+75	0+21+25		
3:1		0+30+30	0+32+25		
		0+38+50	0+39+00		
		0+40+00	0+41+00	4:1	
3:1		0+40+30	0+41+80		
3:1		0+43+50	0+44+50		
		0+44+50	0+45+00	4:1	N.E.C.
3:1		0+44+25	0+45+05		
1 1/2:1		0+48+05	0+48+55		
		0+50+00	0+50+50	4:1	
3:1		0+50+55	0+51+60		
		0+53+40	0+56+85		

* The 1 1/2:1 slope shall begin 13' Rt. of E.
* 13' to 15' Rt. of E. only, then 1 1/2:1.

APPROACH SUMMARY

STATION	LT.	RT.	WIDTH	RADIUS	REMARKS
0+9+70	X		49'	25'	
0+12+55		X			See Approach Detail, this sheet
0+13+18		X	15'	25'	
0+13+98		X	22'	25'	
0+14+29	X		20'		Bk. Rad. 15'; Ahd. Rad. 25'
0+15+09		X	22'		Bk. Rad. 10'; Ahd. Rad. 20'
0+15+85	X		15'	25'	
0+17+84		X	17'	25'	
0+18+18	X		20'	25'	
0+18+35		X	22'		Bk. Rad. 25'; Ahd. Rad. 10'
0+19+37	X		14'	10'	
0+21+07		X	22'	25'	
0+22+23	X		30'	25'	
0+22+45		X	24'	25'	
0+11+40	X		24'	40' Long	Added per C.O. #3
0+23+09		X	15'	25'	
0+24+02		X	26'	25'	
0+24+14	X		22' 30"	10' Ahead 25' back	
0+25+19		X	21'	25'	
0+17+18	X		20'	25'	
0+26+22.7	X		20'	25'	
0+26+6.2		X	22'	25'	
0+27+85.54		X	24' 80"	25'	
0+29+76		X	20'	25'	
0+17+25		X	20'	25'	
0+30+23	X		20'	10'	
0+33+4.17		X	15'	25'	
0+34+41		X	35'	25'	
0+34+97	X		24'	25'	
0+31+55		X	15'	25'	
0+35+00		X	18'	25'	
0+36+38		X	74'	25'	
0+39+42.65	X		36'	25'	
0+39+66		X	20'	25'	
0+32+50		X	15'	25'	
0+42+57	X		20' 50"	25'	
0+34+37	X		18'	25'	
0+35+10	X		26'	25'	
0+42+10	X		N.I.C.		As Detailed on Sht. 7
0+43+65	X		22'	25'	**
0+43+81		X	18' 24"	25'	**
0+44+95.0		X	22'	25'	**
0+45+00	X		28'	25'	**
0+46+23.0		X	18'	25'	**
0+47+85.90	X		60'	25'	**
0+49+32		X	14'	10'	**
0+49+46.9	X		35'		BK. RAD. 10' AND RAD. 25'
0+52+96	X		24'	25'	**
0+54+63	X		20'	25'	**
0+55+72	X		18' 20"	25'	**



NOTES

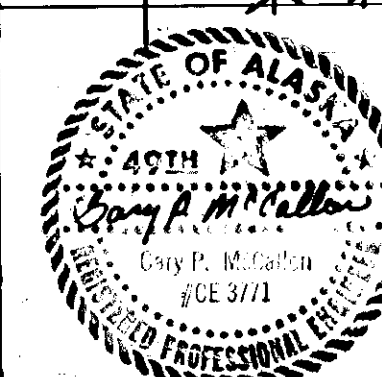
1. Fore slopes shall be 1 1/2:1.
2. All approaches shall be crowned 3% away from their centerline.
3. The 6" of Crushed Aggregate, used as a Surcharge, shall not be placed on approaches between the B.O.P. and 0+15+25.

APPROACH DETAIL

0+51+90 Lt. 1

PIPE SUMMARY

STATION	REMOVAL DISPOSAL CULVERTS	HEIGHT OF COVER	INSTALL			REMARKS
			18" PIPE	24" PIPE	36" PIPE	
"0" 9+70.8' & 22' L	72'					
"0" 11+87		2'			54	
"0" 12+00 L	20'		10'		21' 6" x 7' 5" x 50' S.P.R.	
"0" 14+06.39				68'		
"0" 14+38.2			44'		Skew 40° Rt. Ahd.	
"0" 15+12 R			36'			
"0" 16+31				52'	54	
"0" 16+32 L				58'	Skew 7° Rt. Ahd.	
"0" 17+25 R			36'			
"0" 17+82 R	28'		36'			
"0" 18+20 L 17' 45" 26'			40'			
"0" 18+35 R			40'			
"0" 11+00				42' 38"		
"0" 20+13	33'			48'	Skew 9° Rt. Ahd.	
"0" 21+07 R			46'			
"0" 22+19 L	46'		56'			
"0" 22+45 R			46'			
"0" 23+08 R			40'			
"0" 23+95 L	10'					
"0" 24+15 R	40'					
"0" 25+18 R			50'			
"0" 26+27 L	19'		38'			
"0" 26+74.90	30'			56' 54"		
"0" 26+56.7 R			38'			
"0" 27+40.5 R				150' 100'		
"0" 29+55	35'			52'		
"0" 29+78 R			44'			
"0" 31+64	33'			44'		
"0" 33+02	36'			50' 47"		
"0" 33+15 Rt.				28'		
"0" 32+50 R				26'		
"0" 34+39 R/L	42'		36'			
"0" 34+67 R			40'	108'		
"0" 34+98 L	24'		46'			
"0" 35+87.70	34'			46' 58"		
"0" 36+55 R. 95				71' 54"		
"0" 39+46.5			60'			
"0" 39+68.5 R	49'		44' 38"			
"0" 40+25 L	38'		36' 0"			
"0" 42+17 L	33'			70' 80"		
"0" 42+54.47				16'		
"0" 42+70 R						
"0" 42+82	21'			45' 45"		
"0" 43+44	29'			40'		
"0" 46+20 R						
"0" 9+46/24 L 28 L.F						
"0" 9+95/12 L 38 L.F			66' 58"	44' 64"		
Storm Sewer						
"0" 9+50 L						
"0" 43+71	29'				* *	
"0" 43+81 Rt.			48'			
"0" 44+85	40'			78' 84"	Skewed 134° 30' Rt. Ahd.	
"0" 44+88.90 R			40'		* *	
"0" 45+89	36'		46'		* *	
"0" 47+79	64'		62'		* *	
"0" 47+90 Lt.					* *	
"0" 48+31	53'			58'		
"0" 49+49 Lt.			52'			
"0" 51+89 Lt.			18'			
"0" 52+96 Lt.			56'			
"0" 52+98	52'					
"0" 54+61	35'					
"0" 54+63 Lt.			50'			
"0" 55+69	29'			60'		
Storm Sewer				102'		
"0" 56+65 L			114'	106'	173	



SIGNING SCHEDULE

NO.	STATION	DIST. FROM		CODE NO.	LEGEND	SIGN PANEL		THICKNESS	POST					FACING TRAFFIC	REMARKS
		LT.	RT.			SIZE	UNFRAMED		NO. OF POSTS	TYPE	SIZE	LENGTH	EMBEDMENT		
1	0+9+86	17'		R1-1	STOP	30"x30"	.080	6.25	1					S.B.	
2	0+10+50	17'		D1-1	ROOSEVELT DRIVE	66"x12"	.100	5.5	2	TUBE	2"	13.5'	3'	N.B.	
3	0+11+50	17'		R2-1	25 MPH	24"x30"	.080	5.0	1	TUBE	2"	15'	3'	N.B.	
4	0+12+00	17'		W1-4L		30"x30"	.080	5.0	1	TUBE	2"	15'	3'	N.B.	MOUNT BELOW
5	0+12+00	17'		W13-1	15 MPH	18"x18"	.080	6.25						N.B.	
6	0+17+00	17'		W1-4L		30"x30"	.080	6.25		TUBE	2"	16'	3'	E.B.	
7	0+17+00	17'		W13-1	15 MPH	18"x18"	.080	2.25						E.B.	MOUNT BELOW
8	0+17+50	17'		W1-1R		30"x30"	.080	6.25	1	TUBE	2"	15'	3'	W.B.	
9	0+17+50	17'		W13-1	15 MPH	18"x18"	.080	2.25						W.B.	MOUNT BELOW
10	0+19+00	35'		D1-1	ROOSEVELT SPUR	92"x12"	.125	7.67	2	TUBE	2"	12'	3'	W.B.	
11	0+10+50	19'		R1-1	STOP	30"x30"	.080	6.25	1	TUBE	2"	13.5'	3'	N.B.	
12	0+21+00	17'		W1-1L		30"x30"	.080	6.25	1	TUBE	2"	15.5'	3'	S.B.	
13	0+21+00	17'		W13-1	15 MPH	18"x18"	.080	2.25						S.B.	MOUNT BELOW
14	0+23+00	17'		R2-1	25 MPH	24"x30"	.080	5.0	1	TUBE	2"	13.5'	3'	S.B.	
15	0+23+50	17'		R2-1	25 MPH	24"x30"	.080	5.0	1	TUBE	2"	13.5'	3'	N.B.	
SUPPLEMENTAL WORK															
16	0+49+00	17'		W1-2L		30"x30"	.080	6.25	1	TUBE	2"	15'	3'	E.B.	
17	0+49+00	17'		W13-1	20 M.P.H.	18"x18"	.080	2.25						E.B.	MOUNT BELOW
18	0+53+55	17'		W1-2R		30"x30"	.080	6.25	1	TUBE	2"	15'	3'	S.B.	
19	0+53+55	17'		W13-1	20 M.P.H.	18"x18"	.080	2.25						S.B.	MOUNT BELOW
20	0+55+25	17'		R2-1	25 M.P.H.	24"x30"	.080	5.0	1	TUBE	2"	13.5'	3'	S.B.	
21	0+55+40	17'		R1-1	STOP	30"x30"	.080	6.25	1	TUBE	2"	13.5'	3'	N.B.	
22	0+57+00	17'		D3-1	ROOSEVELT DRIVE	66"x12"	.100	5.5	2	TUBE	2"	13.5'	3'	S.B.	

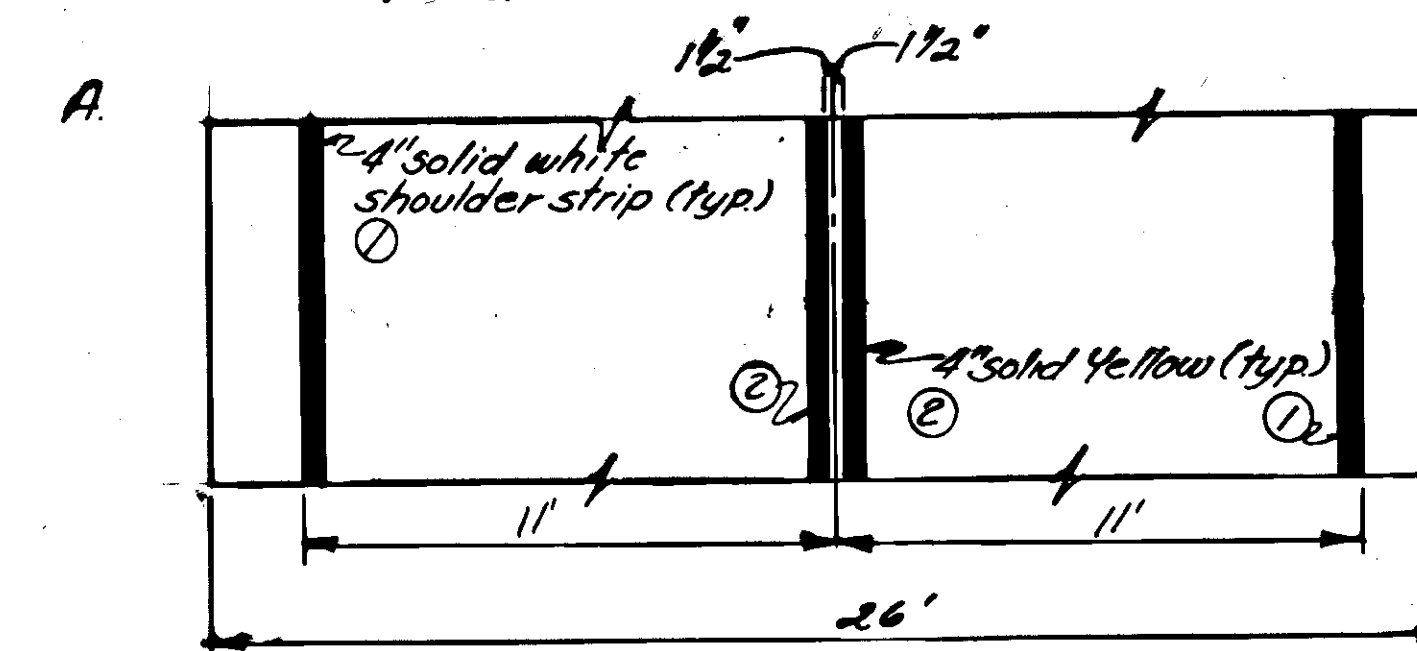
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT. SHEETS
ALASKA	605-3(018)	1983	6	16

SIGNING SUMMARY

SHEET 6 OF 11 FOR SUPPLEMENTAL WORK

GENERAL STRIPING NOTES

1. Painted traffic markings shall be applied in accordance with Sections 610, 712, of the Standard Specifications The Alaska Traffic Manual, & the following:



- B. Shoulder striping shall continue straight through private approaches. Rebel Drive, B.O.P., Roosevelt Spur & other public approaches shall be striped as shown on sheets 14 & 11 of 11 for Supplemental Work as directed.

- C. Estimated Striping Quantities ~ 4" Yellow, 4" White, 24" White.

4" yellow - 7001'
4" white - 7190'
24" white - 31'

SUPPLEMENTAL WORK

4" yellow = 3,200'
4" White = 3,300'
24" White = 45

GENERAL SIGNING NOTES

- Sign locations & post lengths are approximate only & are subject to minor revisions.
- All sign posts shall be square telescoping perforated galvanized steel posts, the 2" size shall be used above ground & the 2 1/4" size shall be used below ground for the sleeve.
- All sign posts shall be installed with the sleeve type embedment as per std. Plan S-30.00, except that the 2 1/4" size shall be used for the entire embedment depth.
- Post lengths are from the cut-off in the sleeve to the top of the post. See Std. Plans S-05.00 & S-30.00.
- The contractor shall remove & dismantle all exist. signs. All dismantled signs shall be returned to the D.O.T. / P.F. maintenance station located at 4.2 mile N. Tongass Highway. This work shall be considered incidental to Item 615(c) STANDARD SIGNS.



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3(018)	1983	7	18

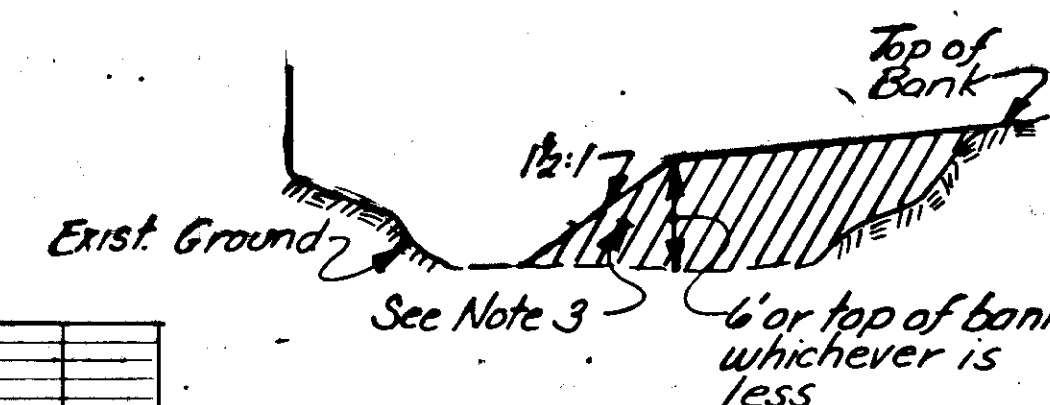
- * BST=Begin Supertransition
- * BFS=Begin Full Super
- * EFS=End Full Super
- * EST=End Super Transition
- * 2" blow-off water line (polyethylene)

NOTES

1. All back-slopes between "0"10+70 Rt. to "0"11+30 Rt. shall be daylighted above Tongass Highway ditch.

2. [Symbol] Indicates additional clearing & grubbing to be accomplished.

3. [Symbol] Indicates on area that is to be filled with rock from unclassified excavation.



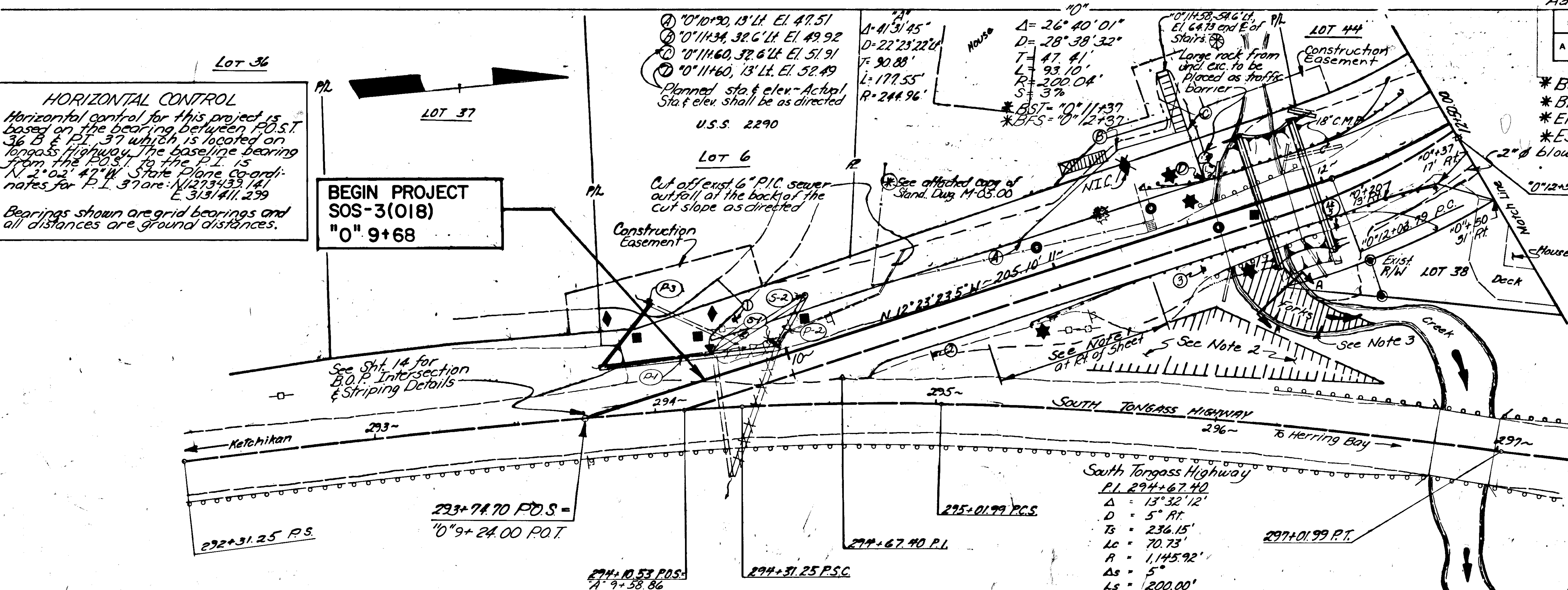
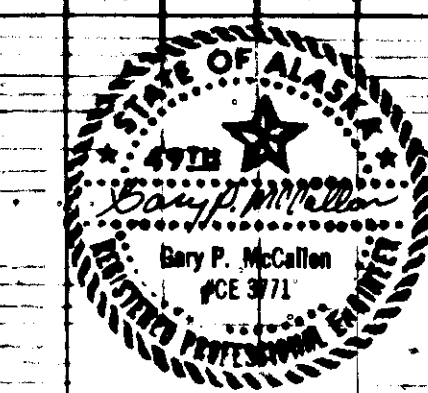
SECTION A-A

T.B.M. RD-5, Elev. 89.14
Spike in foot of 12" Hemlock.
30' Rt. "A" 11+85

Existing Ground ("A" Line)

Earthwork Equation:
Embankment=Unclassified
Excavation=Waste x Grading Factor

Unclassified Excavation = 290 c.y.
Embankment (Subbase) = 194 c.y. (Includes approx. 170 c.y. of Class II riprap)



DRAINAGE		STRUCTURE		SUMMARY	
INLET NO.	INLET TYPE	LOCATION	OFFSET L.T. RT.	ELEV. TO TOP OF GRATE	ELEV. TO TOP OF LID
S-1	B	"0"9+97.5	6'	41.76	38.83
S-2	Field	"0"10+15	19'	41.76	39.76

PIPE		SUMMARY	
PIPE NO.	PIPE DIA.	FROM	TO
P-1	24"	Ditch 39.8	S-1 38.83
P-2	18"	S-2 39.76	S-1 38.83
P-3	18"	Ditch 40.80	S-1 38.83

* Match existing culvert Invert and Location.

VERTICAL CONTROL

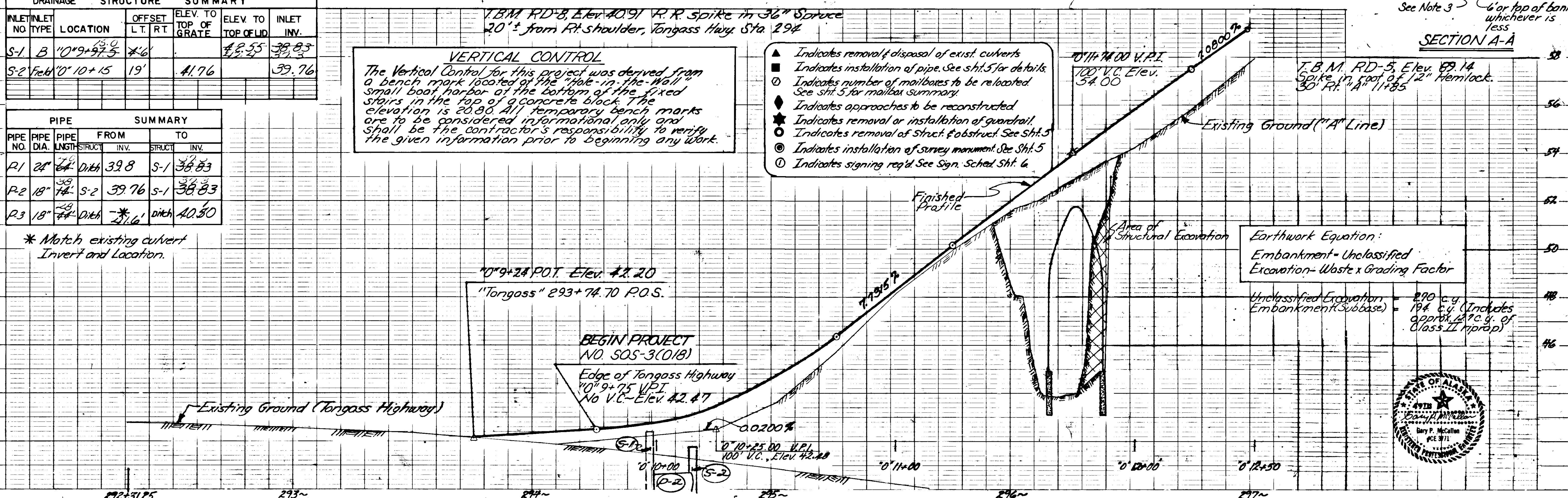
The Vertical Control for this project was derived from a bench mark located at the "Hole-in-the-Wall" small boat harbor at the bottom of the fixed stairs in the top of a concrete block. The elevation is 20.80. All temporary bench marks are to be considered informational only and shall be the contractor's responsibility to verify the given information prior to beginning any work.

- ▲ Indicates removal/disposal of exist. culverts
- Indicates installation of pipe. See Sht. 5 for details.
- ① Indicates number of mailboxes to be relocated. See Sht. 5 for mailbox summary.
- ◆ Indicates approaches to be reconstructed.
- ★ Indicates removal or installation of guardrail.
- ⊙ Indicates removal of struct. & obstruct. See Sht. 5.
- ⊙ Indicates installation of survey monument. See Sht. 5.
- ① Indicates signing req'd. See Sign. Sched. Sht. 6.

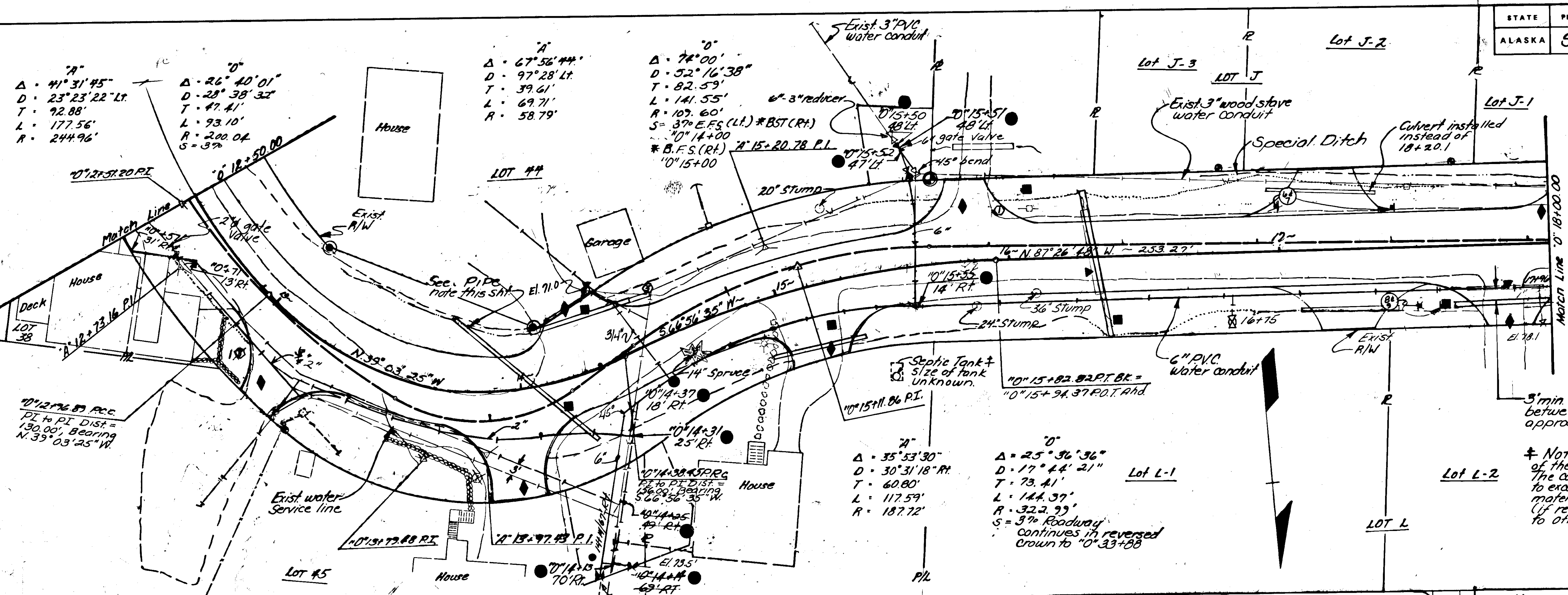
"0"9+24 P.O.T. Elev. 42.20
"Tongass" 293+74.70 P.O.S.

BEGIN PROJECT
NO. SOS-3(018)

Edge of Tongass Highway
"0"9+75 V.P.I.
No V.C. Elev. 42.47

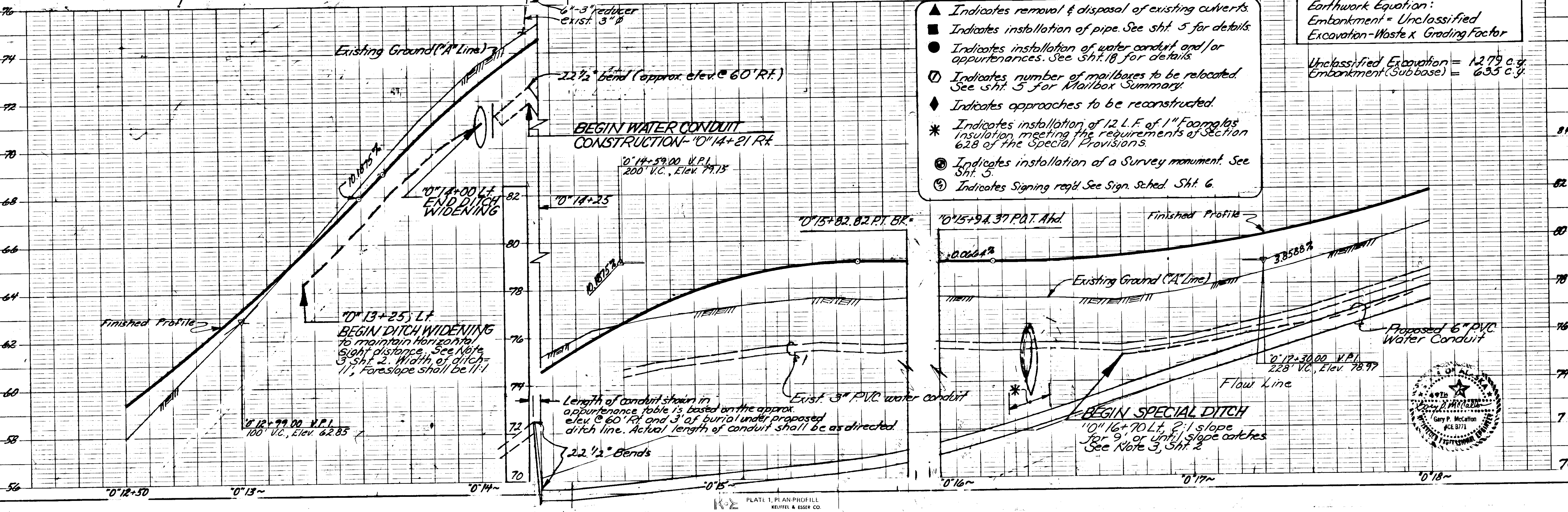


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3(18)	1983	8	18

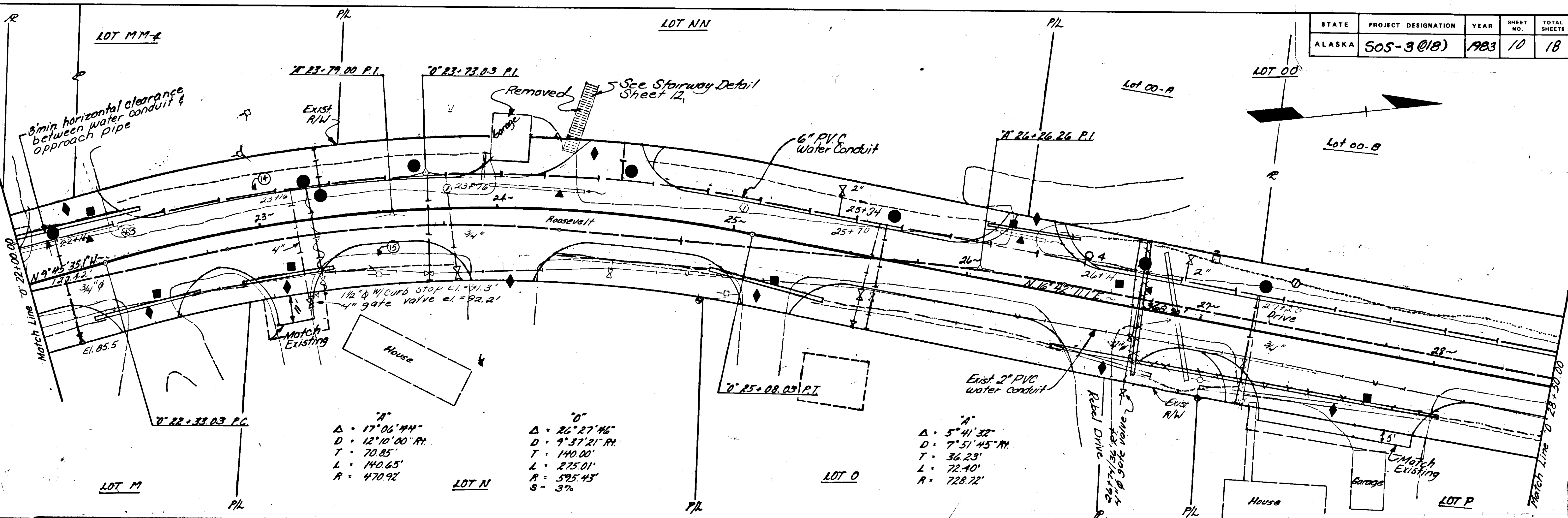


PIPE NOTE
 Inlet @ "0+14+22, 22' Rt.
 Outlet @ "0+13+72, 24' Lt.
 The invert of this culvert may be placed 6" below the ditch invert, if necessary, to provide adequate cover over the pipe @ centerline.

* NOTE: The exact location & configuration of the exist. septic tank are unknown. The contractor shall locate the tank prior to excavation in this area. All labor & materials required to relocate the tank (if req'd.) shall be considered incidental to other items of work.

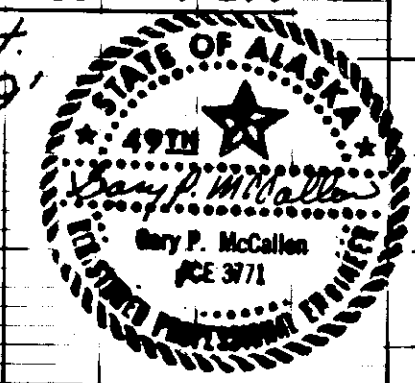
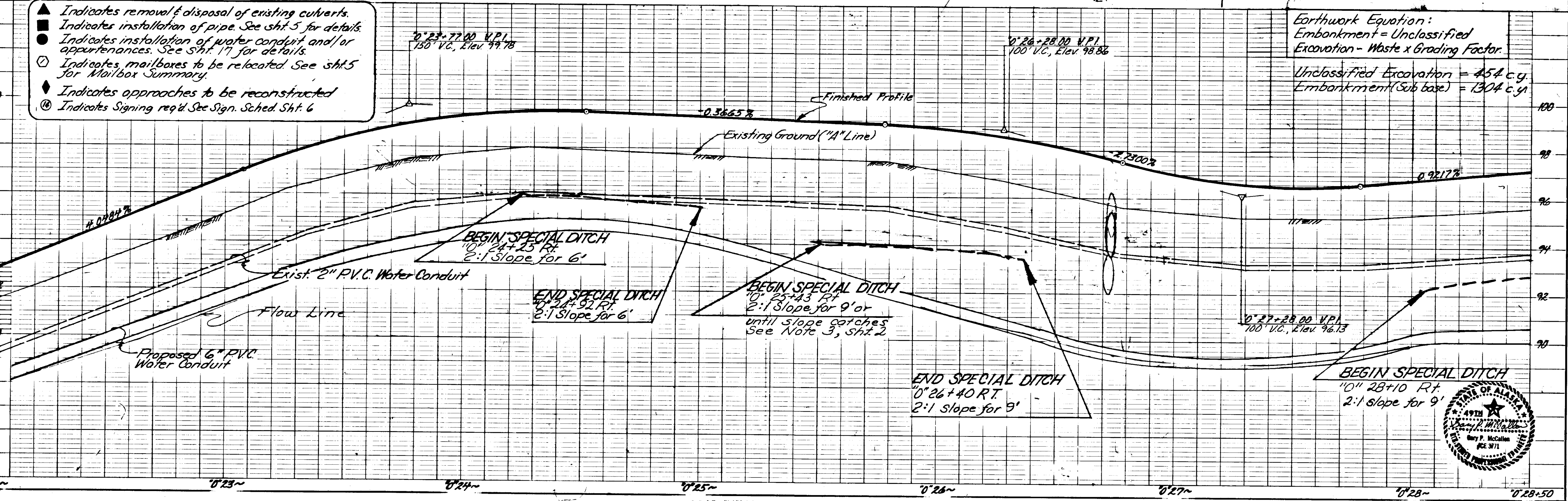


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3 (18)	1983	10	18

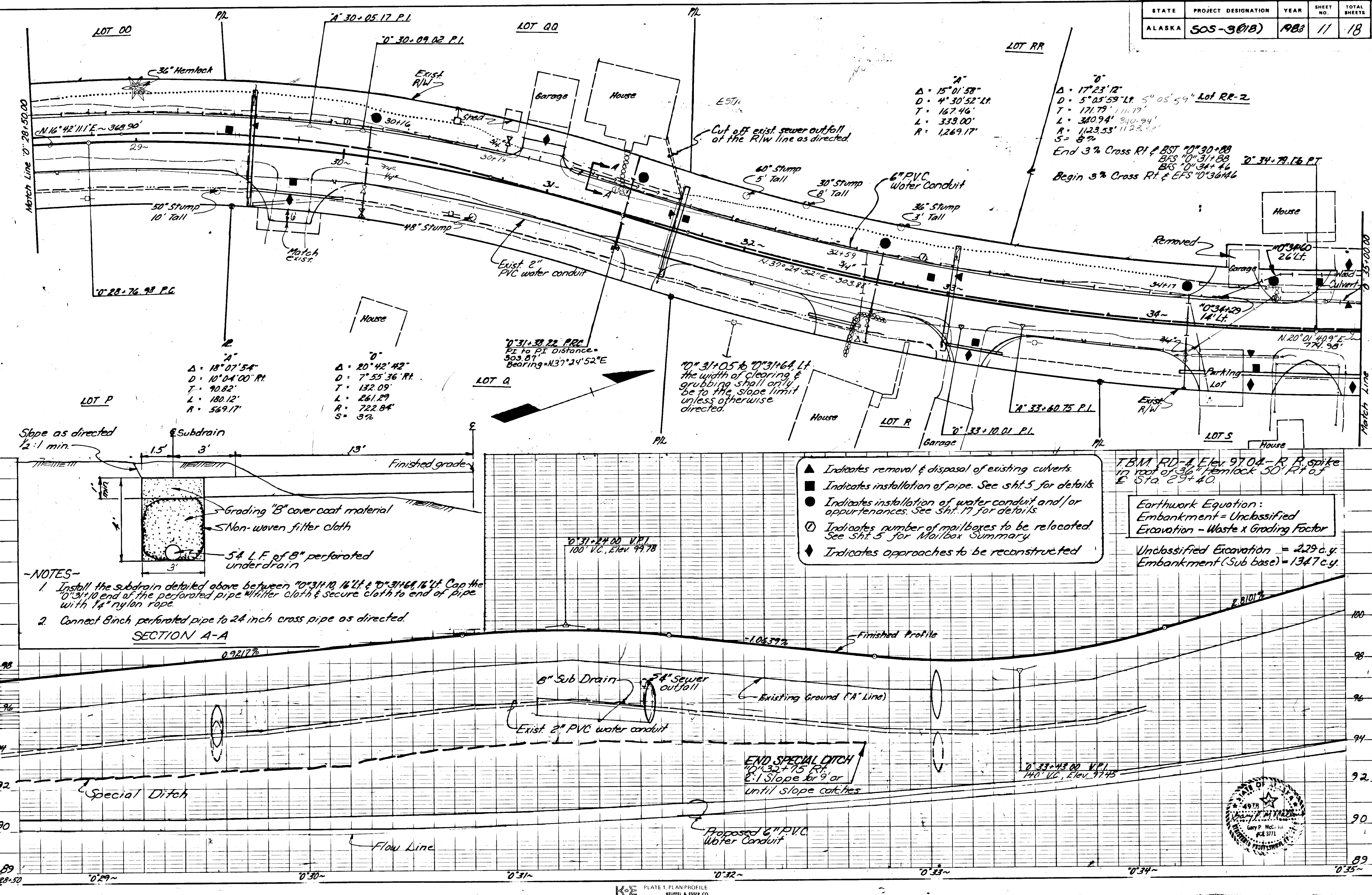


- ▲ Indicates removal & disposal of existing culverts.
- Indicates installation of pipe. See sht. 5 for details.
- Indicates installation of water conduit and/or appurtenances. See sht. 17 for details.
- Ⓜ Indicates mailboxes to be relocated. See sht. 5 for Mailbox Summary.
- ◆ Indicates approaches to be reconstructed
- Ⓢ Indicates Signing req'd. See Sign. Sched. Sht. 6

Earthwork Equation:
 Embankment = Unclassified
 Excavation = Waste x Grading Factor.
 Unclassified Excavation = 454 c.y.
 Embankment (Sub base) = 1304 c.y.



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3(18)	1983	11	18

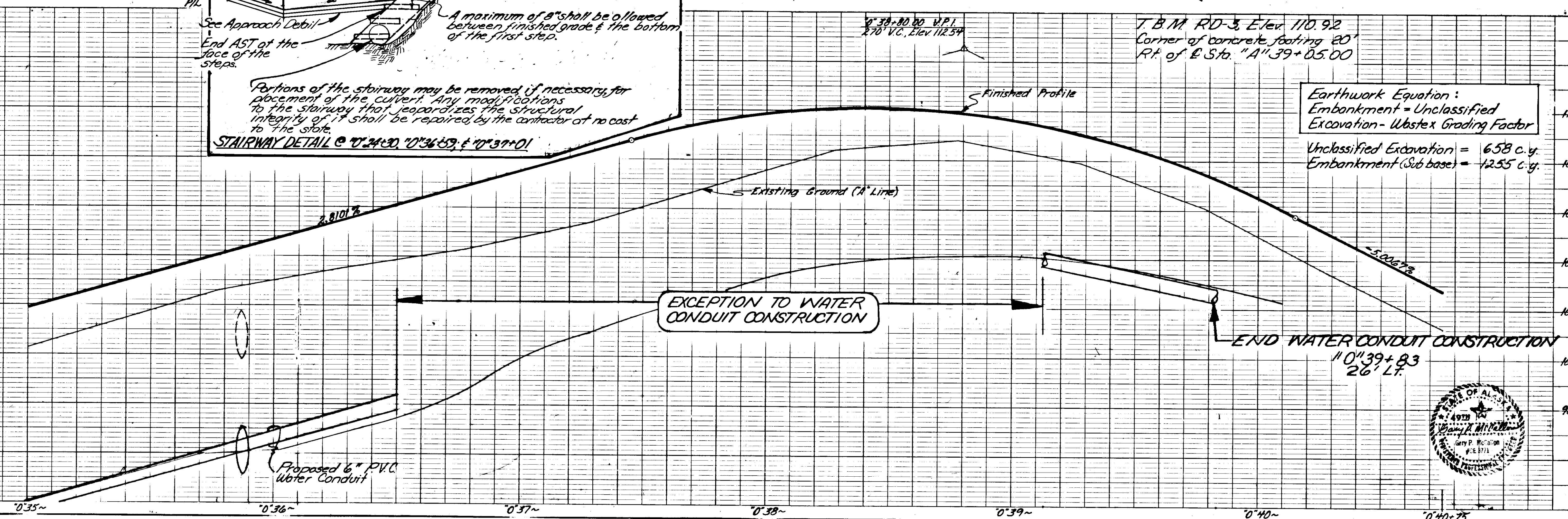
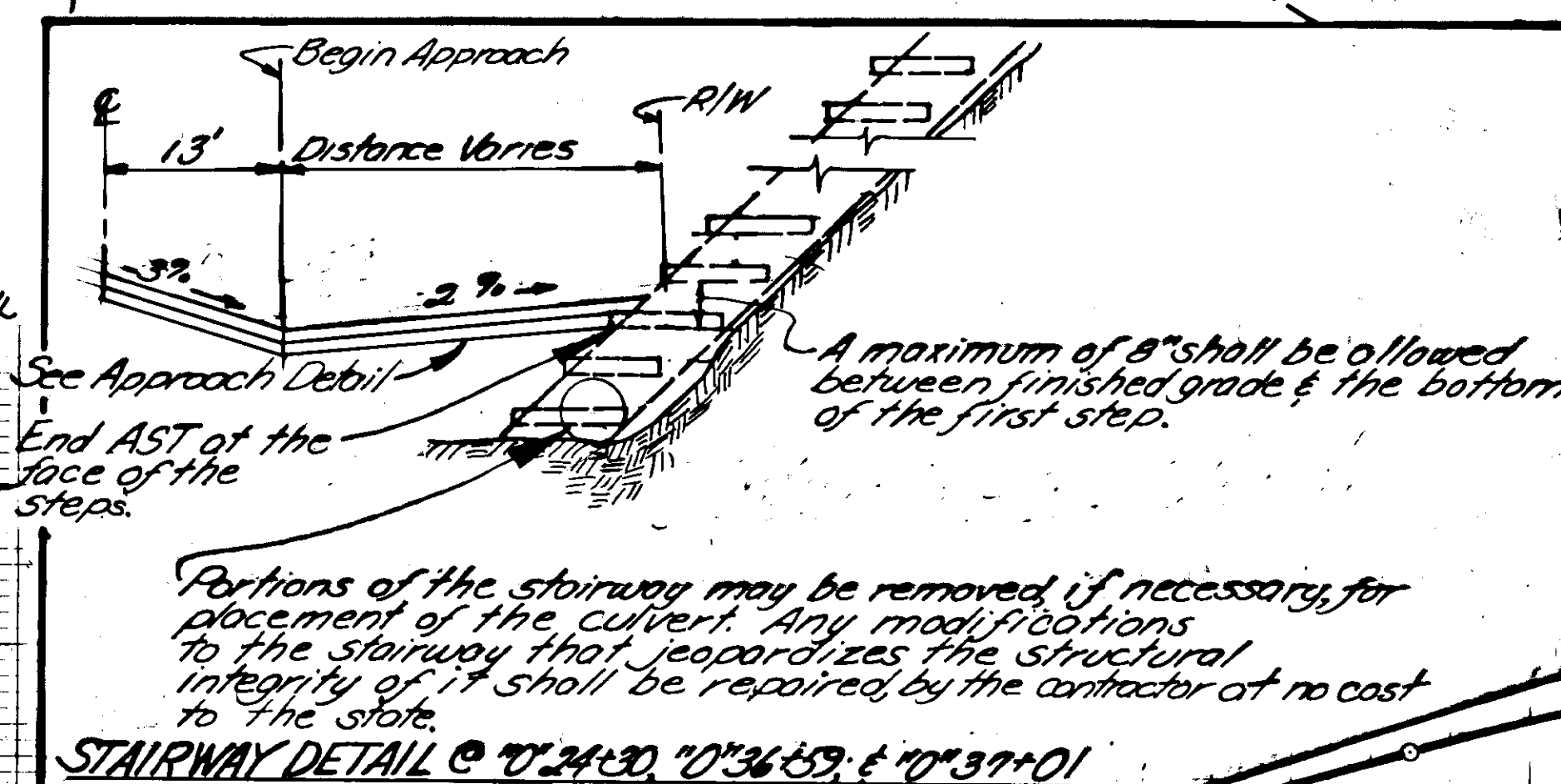
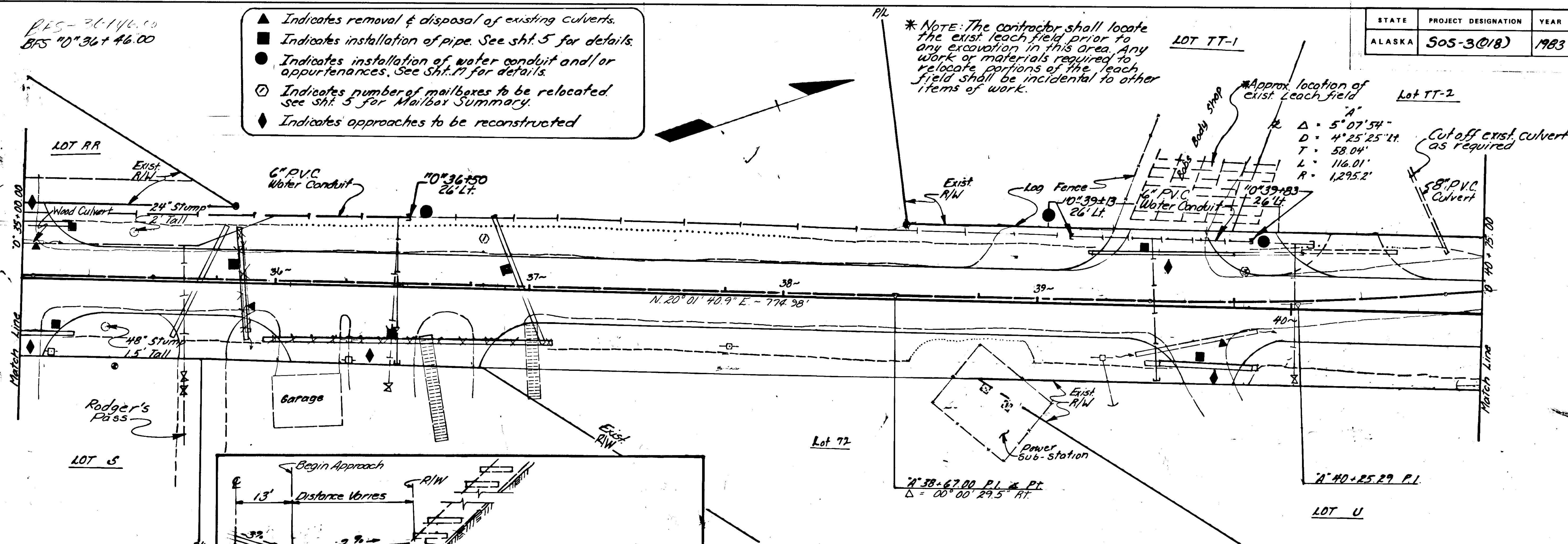


PFS-36146.00
BFS "0"36+46.00

- ▲ Indicates removal & disposal of existing culverts.
- Indicates installation of pipe. See sht. 5 for details.
- Indicates installation of water conduit and/or appurtenances. See Sht. 17 for details.
- ① Indicates number of mailboxes to be relocated. See Sht. 5 for Mailbox Summary.
- ◆ Indicates approaches to be reconstructed

* NOTE: The contractor shall locate the exist. leach field prior to any excavation in this area. Any work or materials required to relocate portions of the leach field shall be incidental to other items of work.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	505-3(18)	1983	12	18

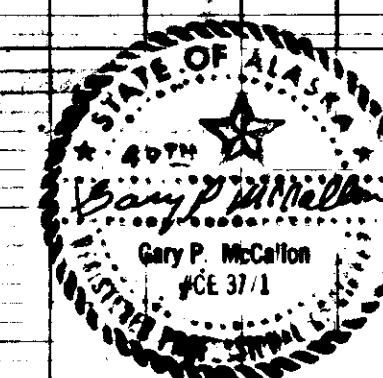
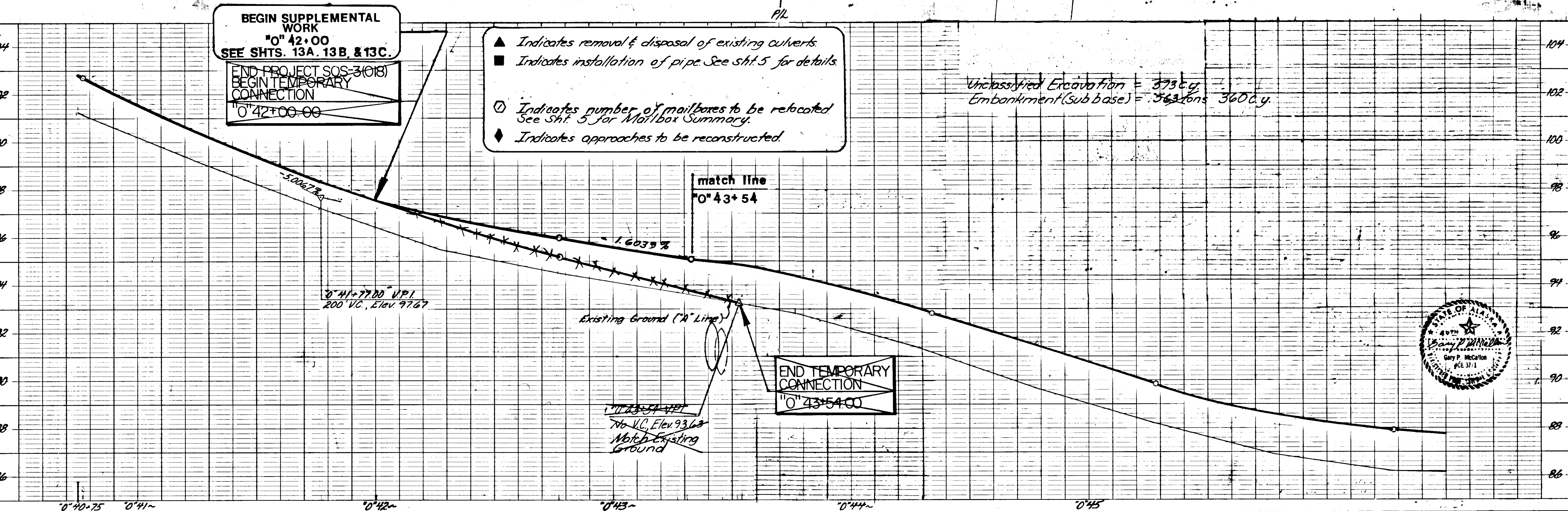
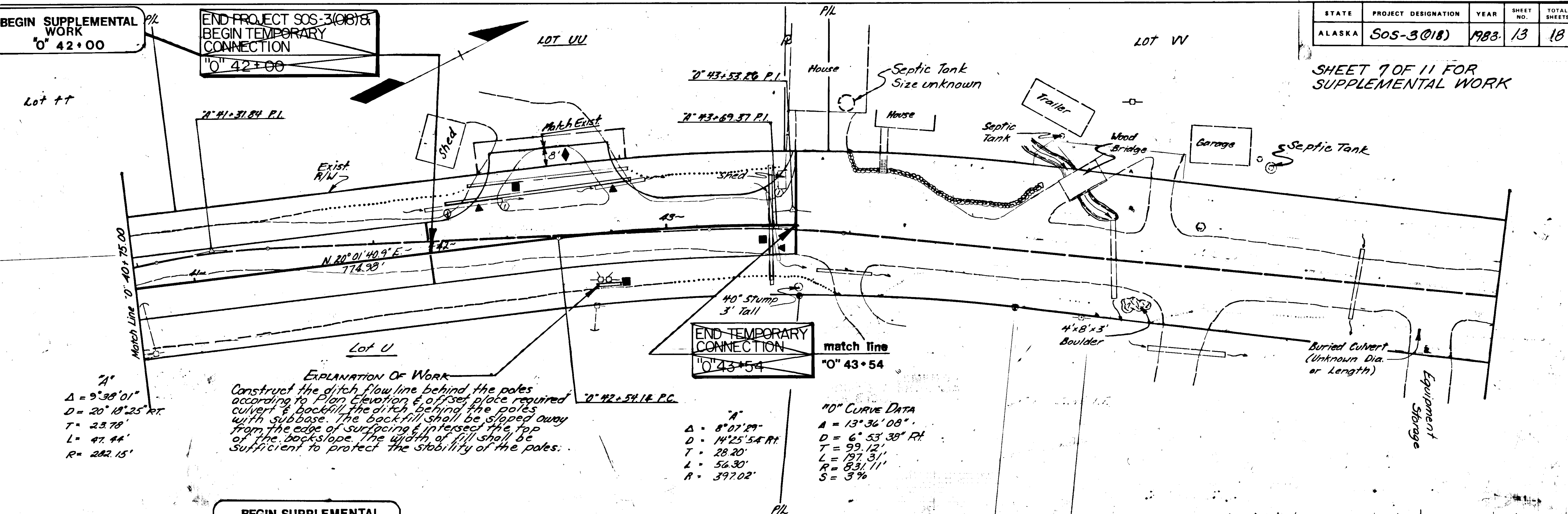


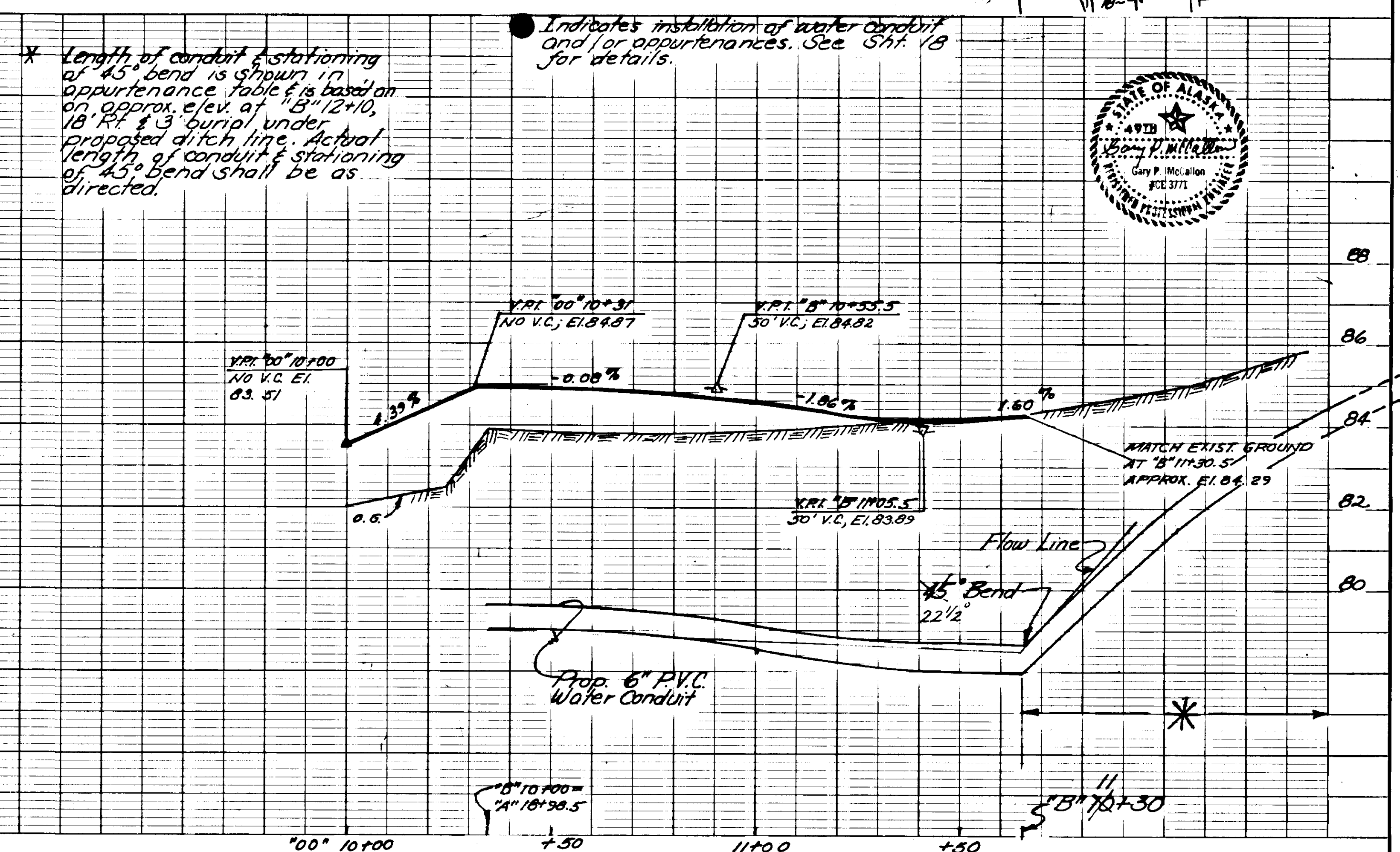
Earthwork Equation:
Embankment = Unclassified
Excavation - Wabtex Grading Factor
Unclassified Excavation = 658 c.y.
Embankment (Sub base) = 12.55 c.y.



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3018)	1983	13	18

SHEET 7 OF 11 FOR
SUPPLEMENTAL WORK

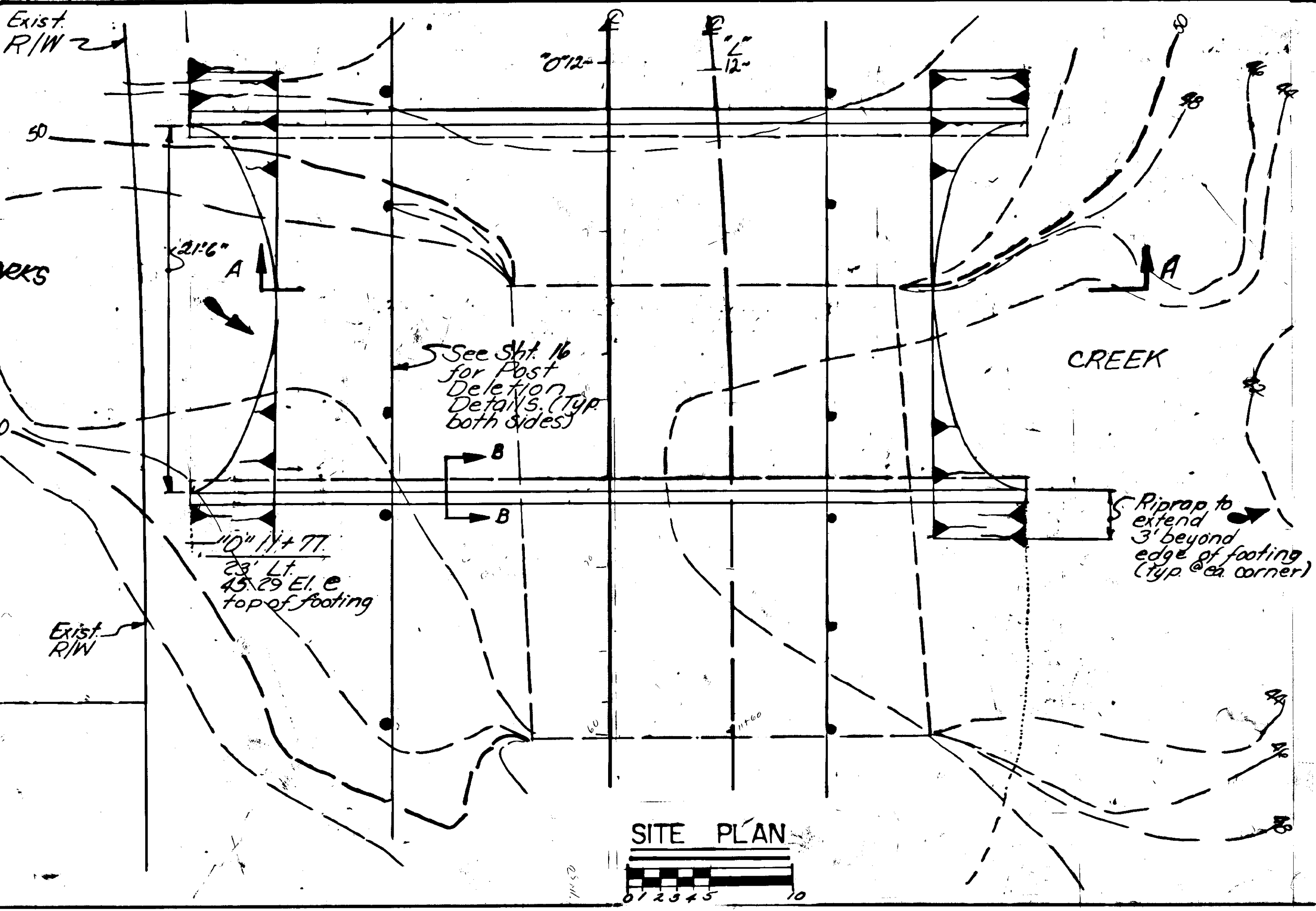
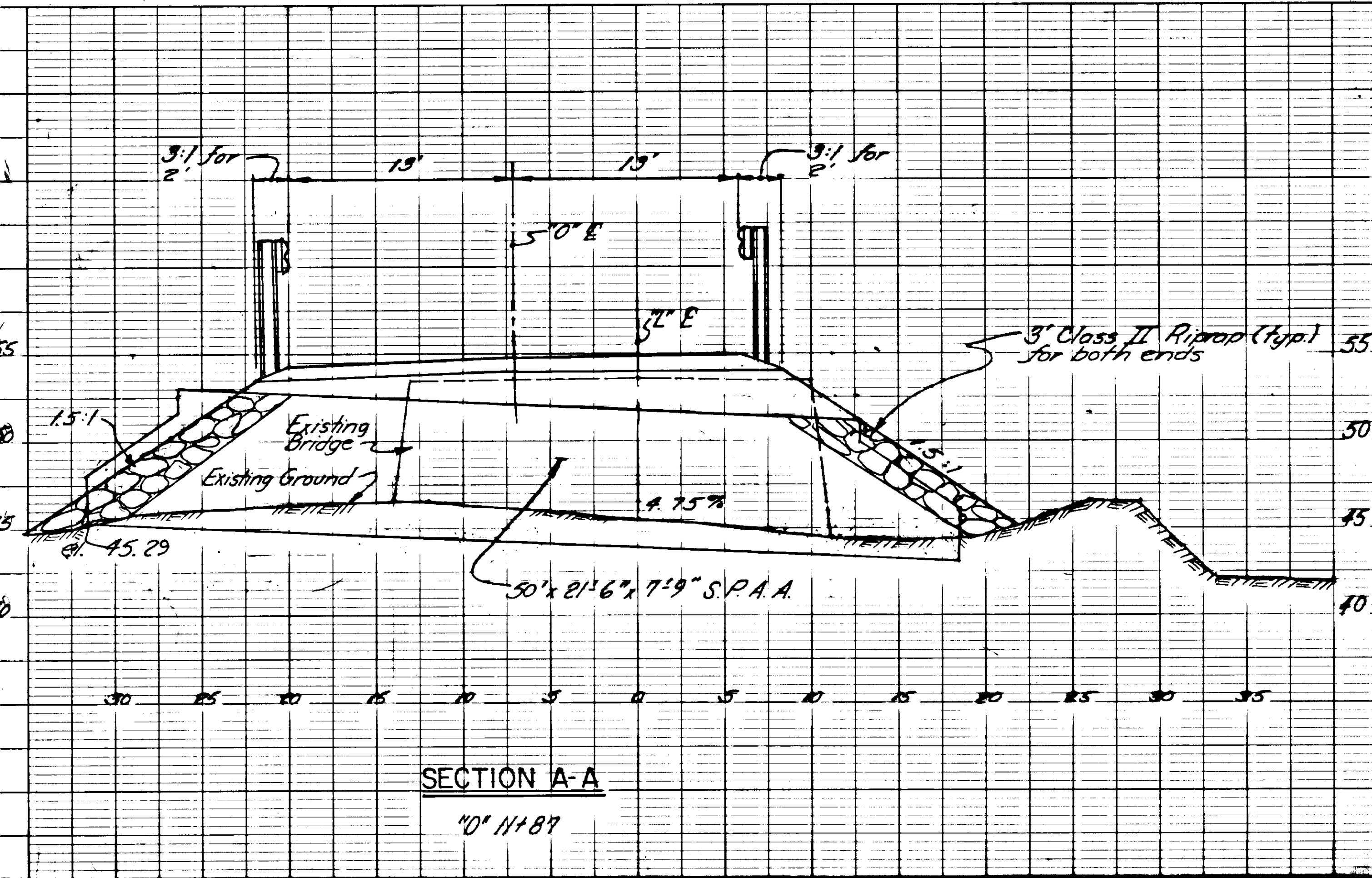




FORKS CREEK CROSSING

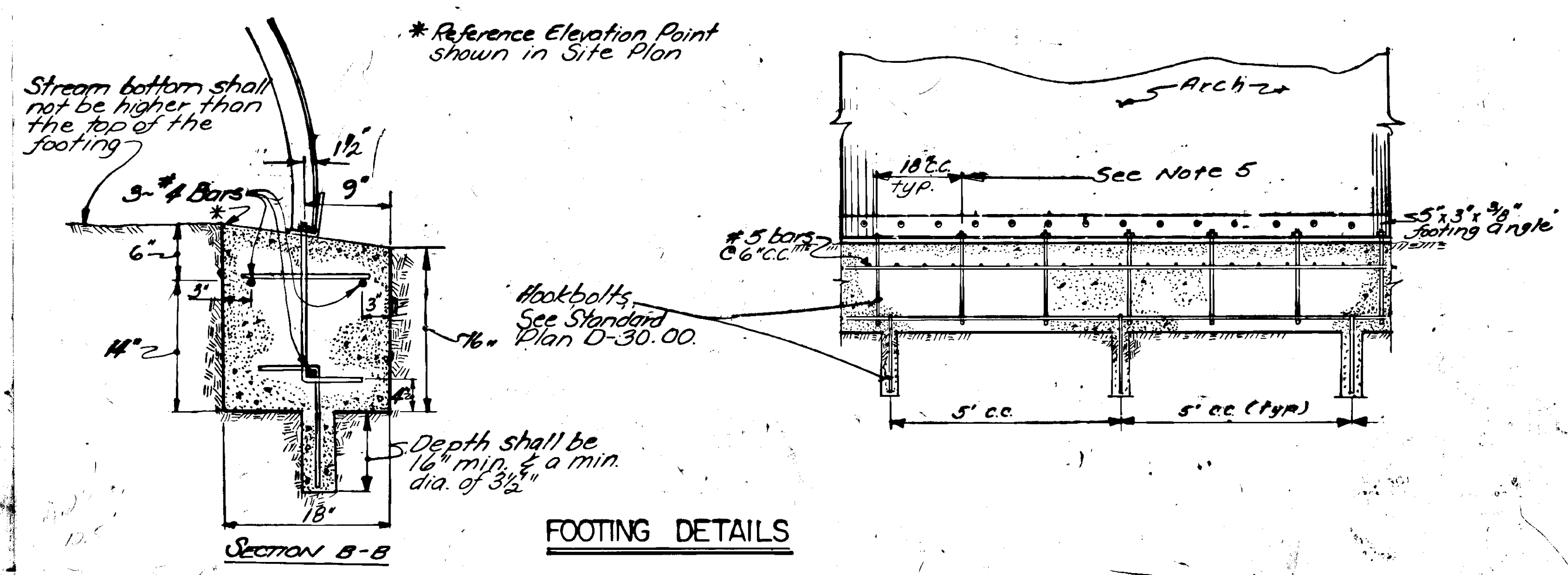
- GENERAL NOTES -

1. Partial "As-Built" plans of the Forks Creek Bridge (Bridge No. 218) are available for review in the office of the Bridge Design Engineer from 9:00 a.m. until 5:30 p.m. The Bridge Design Office is located at 1 mile Glacier Highway in Juneau, Alaska.
2. The substructure of the bridge shall be removed as follows: All wood components shall be removed. The existing concrete foundation located at approx. "0" 11+76 shall be removed in its entirety.
3. "0" 11+87 install 21" 6" x 7" 9" 50" Structural plate aluminum arch. Both ends of the pipe shall be step-beveled for a 1/2" slope. The minimum plate thickness shall be .225" with circumferential reinforcing ribs spaced 2' 3" o.c., but may be reduced if the ribs are placed closer together.
4. All concrete, riprap, steel & the structural excavation shown on this sheet shall be incidental to Item 602 (3).
5. 4 bolts shall be used to connect each bottom plate to the footing angle. All bolt holes needed in the angle shall be shop fabricated and in a pattern that will match the bolt hole pattern in the arch's plates. No field drilling shall be allowed on the structural plate arch or 5" x 3" x 3/8" footing.
6. The hook bolts, used to connect the angle to the footing, shall be positioned such that they do not interfere with the corrugations in the plates.
7. All bolt heads & nuts that come in direct contact with the arch shall have a 1" spherical radius that will match the contour of the corrugations.
8. The footing angle & the fasteners used to connect the arch to the angle shall be of the same base material as the arch being supplied.
9. All backfill shall be minus 3" material and bedding material shall meet the requirements for D-1 aggregate shown in Section 703-203 of the Special Provisions.

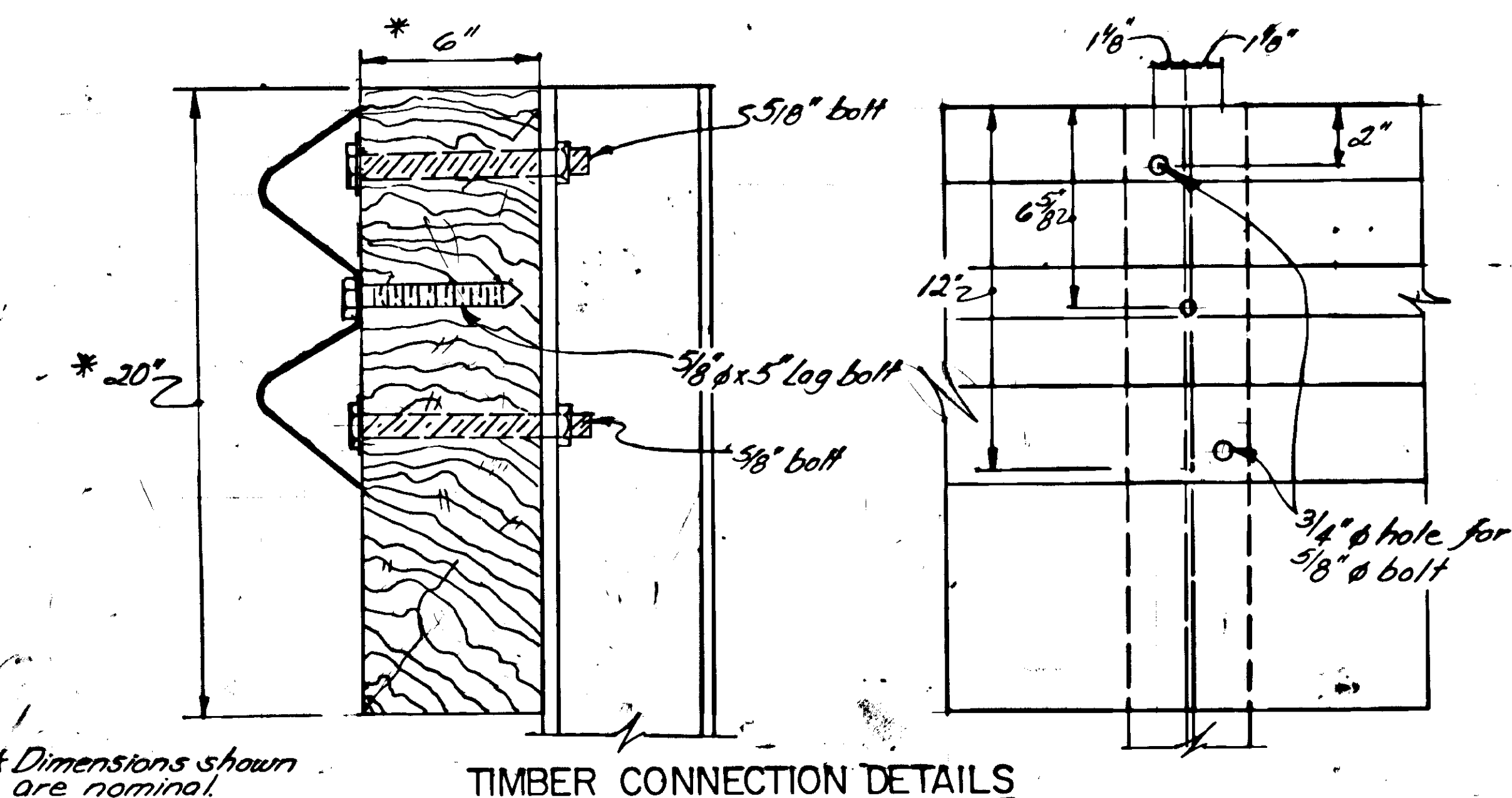
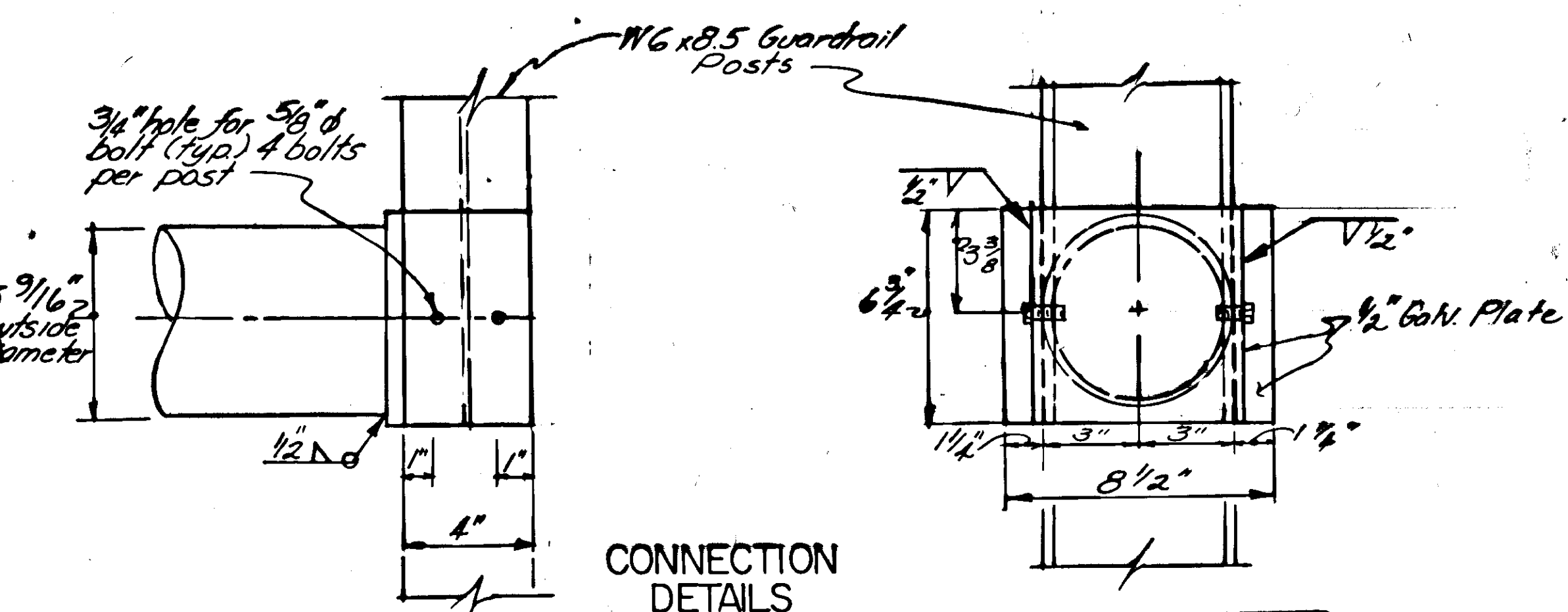
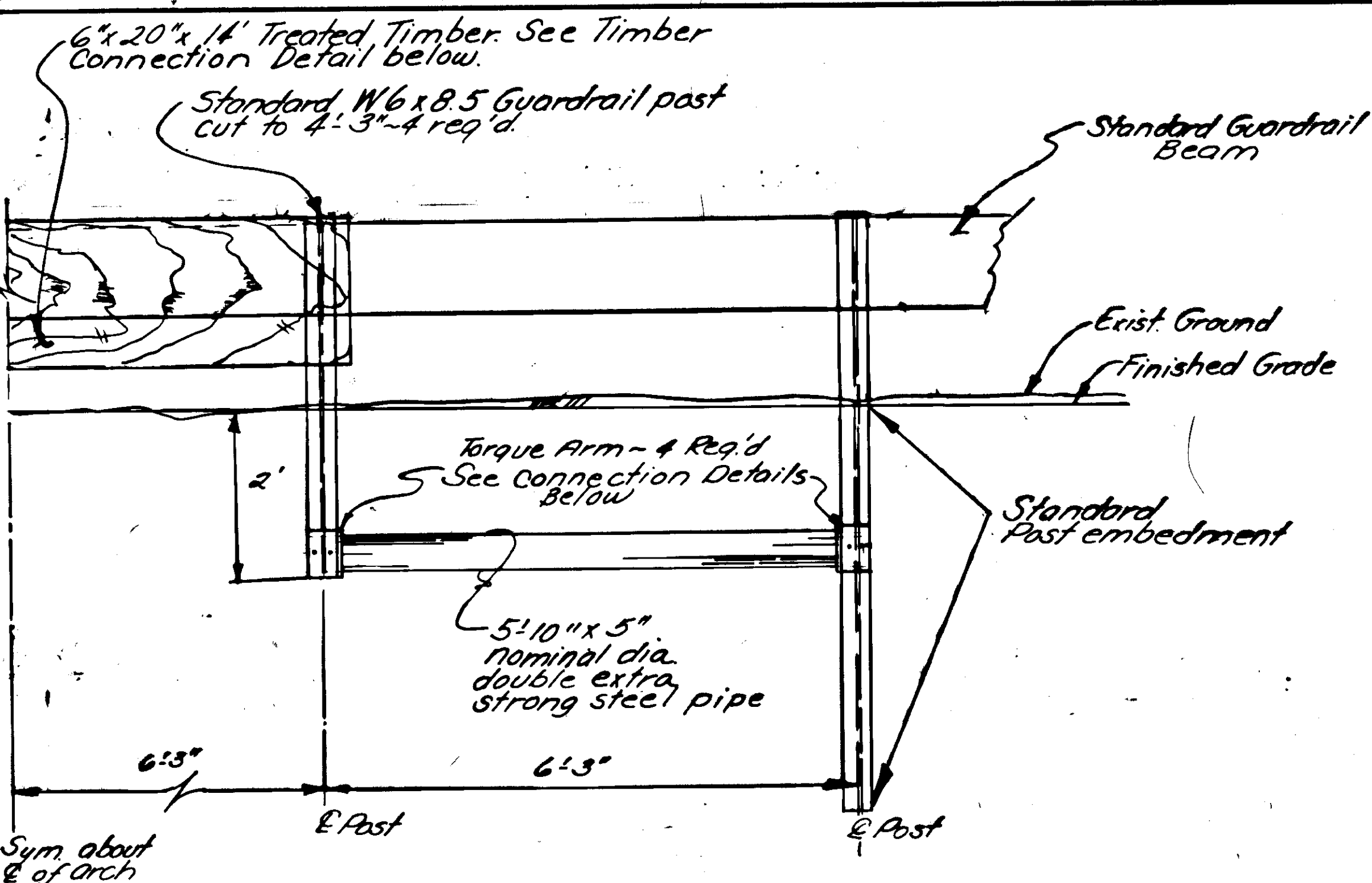


ESTIMATE OF QUANTITIES	
ITEM	QUANTITY
Riprap	12.7 CY
Structural Aluminum (6063-T6)	404 lbs.
Reinforcing Steel (FY=60ksi)	669 lbs.
Concrete (Class A, f'c=3500 psi)	8.5 CY
Structural Excavation	200 CY

HYDRAULIC DATA		
Flood Frequency	50 years	100 years
Exceedance Probability	2%	1%
Drainage Area	1.68	1.68
Design Discharge (cfs)	1200	1300
Design Elev.	49.4	49.7



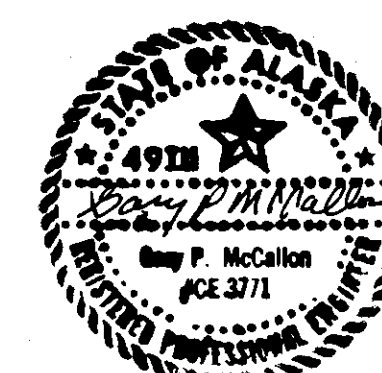
POST DELETION DETAILS



ESTIMATE OF QUANTITIES	
ITEM	QUANT.
Double Extra Strong Pipe ~ A36 Steel	900 lbs.
1/2" x 6 3/4" Plate Stock ~ A36 Steel	338 lbs.
Treated Timber ~ fb ≥ 1200 PSI	14 L.Ft.

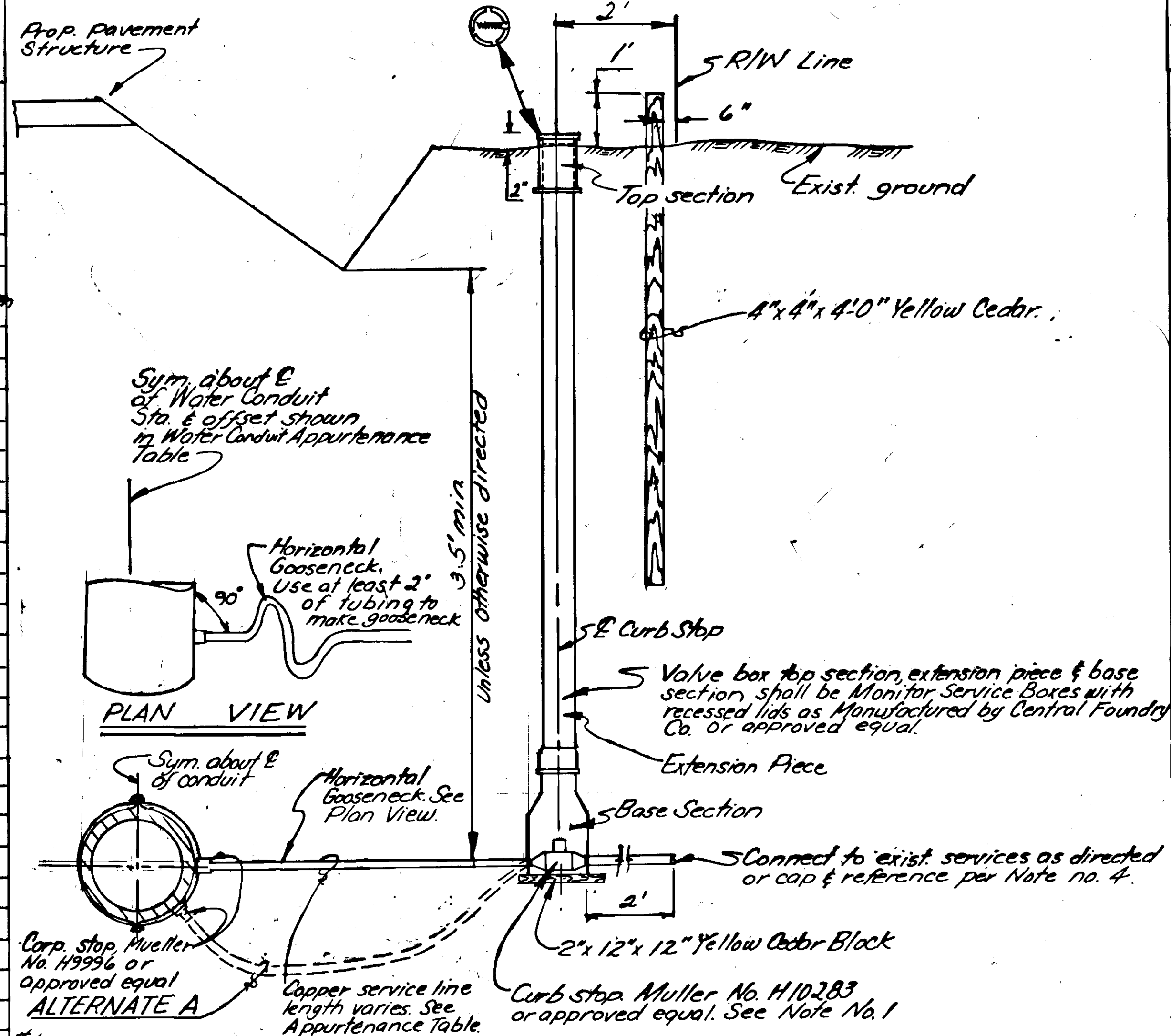
NOTES

1. All steel & hardware req'd for this structure shall be galvanized after fabrication & in accordance with ASTM A123 & A153. All timber shall be treated in accordance with Section 714 of the Alaska Standard Specifications.
2. No field drilling of the steel or treated timber shall be allowed.
3. All guardrail hardware shall be the same as that called for in Standard Drawing G-04.005.
4. Payment for furnishing & installing the components required in the post deletion detail shall be considered incidental to Item 606(1).



WATER CONDUIT APPURTENANCE TABLE

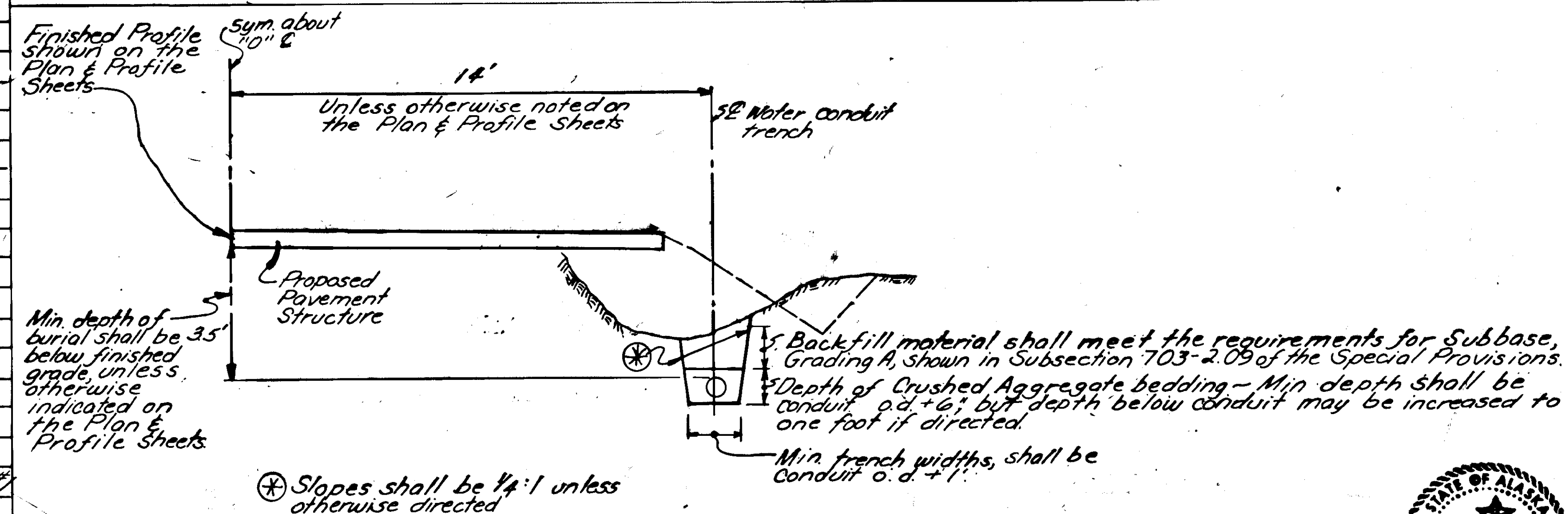
STATION	OFFSET	APPROX. LENGTH OF 6" P.V.C. WATER CONDUIT	INSTALL 6" GATE VALVE	INSTALL VALVE BOX	SIZE OF COPPER WATER SERVICE CONNECT.	APPROX. LENGTH OF REQ'D SERVICE LINE	REMARKS
72+13	70' R.						Connect to exist. 3" conduit. Install 3/4" 6" reducer. See Sht. 8
14+14	69' R.						Install 22 1/2" bend. See Sht. 8. Deleted
14+154	62 1/2' R.				3/4"	10'	Install Water Service.
14+25	49' R.	21'					Install 22 1/2" bend. Sht. 8 Deleted
14+3127	253' R.	25'			2" 3/4"	137'	Install 2" service 1' R. of surfacing limits. Junction between 3/4" & 2" services shall be copper Tee.
14+3929	218' R.	12'					Install 45° bend.
14+5333	15' R.	15'			3/4"	39'	Install Water Service.
15+5047	48 1/2' L.						Install 3" x 6" Reducer
15+5148	48 1/2' L.						Install 45° Bend
15+5249	48 1/2' L.	64'					Install 22 1/2" Bend
15+5549	14' R.	97'					Install 6" x 6" x 6" Tee.
18+38	12' R.	275'			3/4"	42'	Install Water Service.
19+03	33' L.	86'					
19+03	35' L.						
19+05	34' L.						Install 6" x 6" x 6" Cross. See Sht. 9 for details
19+06	32' L.						
19+08	46' L.	10'					Install 90° elbow
19+359	17' L.	54'			3/4"	54'	Install Water Service
11+30	18 1/2' R.	120'					Install 3/4" bend. See Sht. 9 for details.
12+1011459	18 1/2' R.	80'			3/4"	44'	Install 6" to 3" reducer
20+888	14' L.	144'			3/4"	44'	Install Water Service
22+156	14' L.	128'			3/4"	44'	" " " "
23+22	14' L.	108'			3/4"	44'	" Deleted "
23+2989	14' L.	6'			3/4"	16'	" " " "
23+726	14' L.	51'			3/4"	44'	" " " "
23+5034	14' L.	82'			2" 3/4"	164'	" " " "
25+6370	14' L.	114'			3/4"	44'	" " " "
26+74	14' L.						Install 6" x 6" x 4" Tee, S.O.L.F. of 4" pvc to 4" gate valve & box. E.W.O. #1
26+89	14' L.	107'			2" 3/4"	164'	Install Water Service
27+220	14' L.	53'			3/4"	44'	" " " "
30+126	14' L.	293'			1" 3/4"	44'	" " " "
31+3979	14' L.	128'			3/4"	164'	" " " "
32+6459	14' L.	126'			3/4"	44'	" " " "
34+167	14' L.	150'			3/4"	44'	" " " "
34+2966	14' L.	13'					Install 22 1/2" bend
34+5700	26' L.	31'					Install 22 1/2" bend
36+476	26' L.	186'			2"	56 1/4'	Install Water Service
36+50	26' L.	3'					Cap end of Conduit & thrust block. Deleted
39+13	26' L.						Cap end of Conduit. Deleted
39+4440406	26 1/2' L.	33'			2"	56 1/4'	Install Water Service
39+8340410	26 1/2' L.	37'					Cap end of Conduit & thrust block
16+75	14' R.				3/4"	16'	Install Water Service
17+96	14' R.				1"	16'	" " " "
23+16	14' L.						Install 6" x 6" x 4" Tee, S.O.L.F. of 4" pvc to 4" gate valve & box. E.W.O. #1
35+64	14' L.						" " " " " " " "



NOTES-

1. Rockwell No. 381 double strap saddle w/epoxy coating & stainless straps or equal, shall be required on all services.
2. Alternate "A" shall be utilized whenever & wherever it's req'd to maintain the min. depth of cover under prop. ditch grades.
3. Horizontal Gooseneck shall not be required on 2" water services.

WATER SERVICE CONNECTION DETAILS



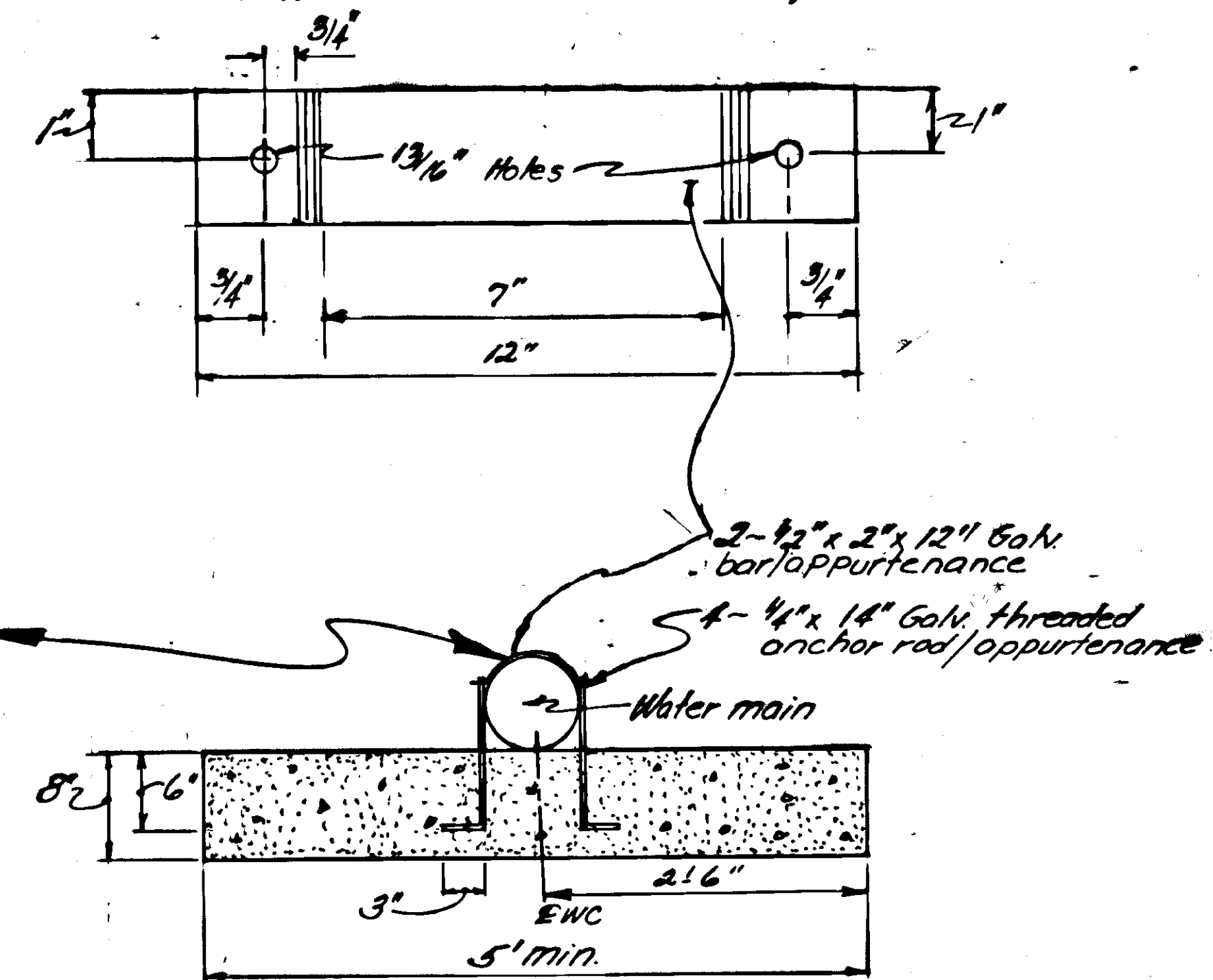
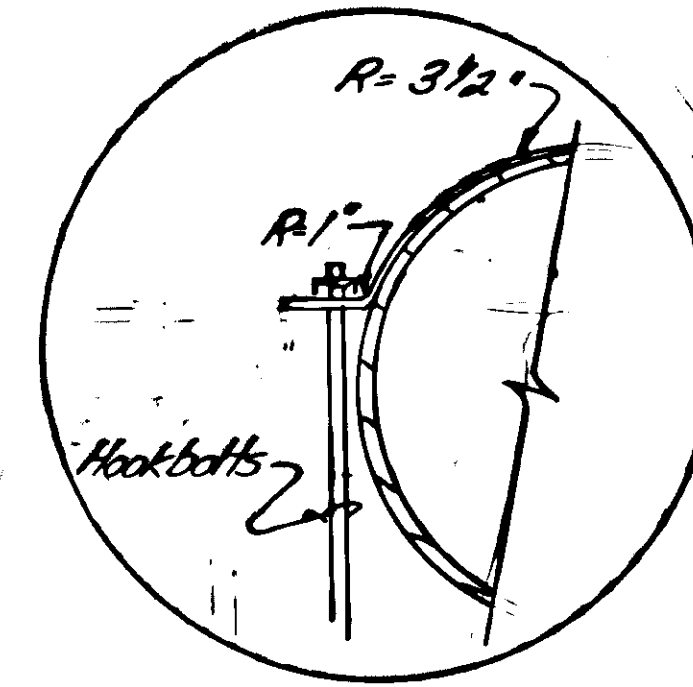
WATER CONDUIT TRENCH DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3 (018)	1983	17	18

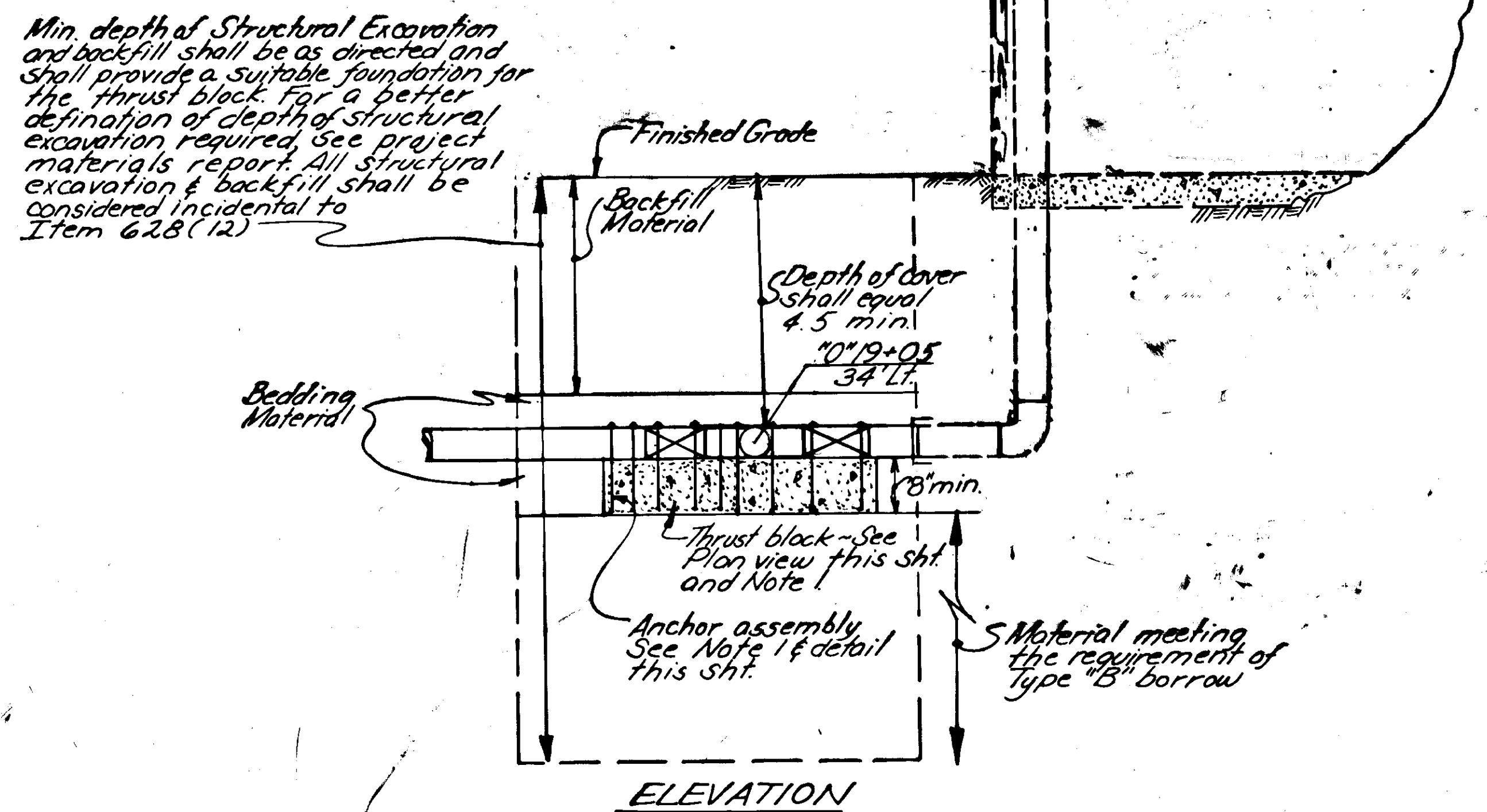
-GENERAL WATER CONDUIT NOTES-

1. All information shown in the Water Conduit Appurtenance Table is approx. only & is subject to field adjustments.
2. The working pressure of this main & its appurtenances shall be 100 p.s.i.
3. Size of thrust blocks for the conduit & its appurtenances shall be as indicated in the Thrust Block Minimum Size Table for water pressure in the pipe of 150 p.s.i. - Table is shown on Std. Plan U0300 for as indicated on the plans.
4. All curb stops & capped mains shall be referenced with horizontal & vertical ties.
 - A. Horizontal ties may be accomplished with swing ties from permanent objects to remain in place after construction is complete. All horizontal ties shall be indicated to the nearest tenth of a foot.
 - B. Vertical ties shall also be indicated to the nearest tenth of a foot & be on the project datum.
 - C. All horizontal & vertical ties required shall be shown on the project "As Builts".
 - D. Payment for this work shall be considered incidental to Item 114 (1).
5. The contractor shall block all capped conduit ends prior to testing any section of conduit.
6. All required deviation from the prop. horizontal & vertical alignments shall be approved, in writing, by the engineer. Deviations may not exceed the manufacturers minimum allowable radius for the specified class of conduit.
7. After the new system is operable the exist. system may be abandoned in place, however, any removal req'd in conjunction with other items of work shall be considered incidental to that item of work.





PLAN VIEW



1. This concrete thrust block will be poured in place. It shall be poured in a single pour, the concrete shall not be poured above the invert of the conduit, and the min. concrete volume shall be 11 cu.ft. of Class W concrete.
2. All steel detailed above shall be A-36 & galvanized after all fabrication has been completed. All anchors shall meet the requirements for hookbolts shown on Standard Plan D-30.00.

