

KEY MAP

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES**

**PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT
TONGASS BOULEVARD
GRADING, PAVING, & DRAINAGE
SOS - 003 (15)**

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-003(15)	1	6

INDEX OF SHEETS	
1	TITLE SHEET
2	TYPICAL SECTIONS
3	ESTIMATE OF QUANTITIES & MISCELLANEOUS SUMMARIES
4	DRAINAGE DETAILS
5-6	PLAN & PROFILE SHEETS

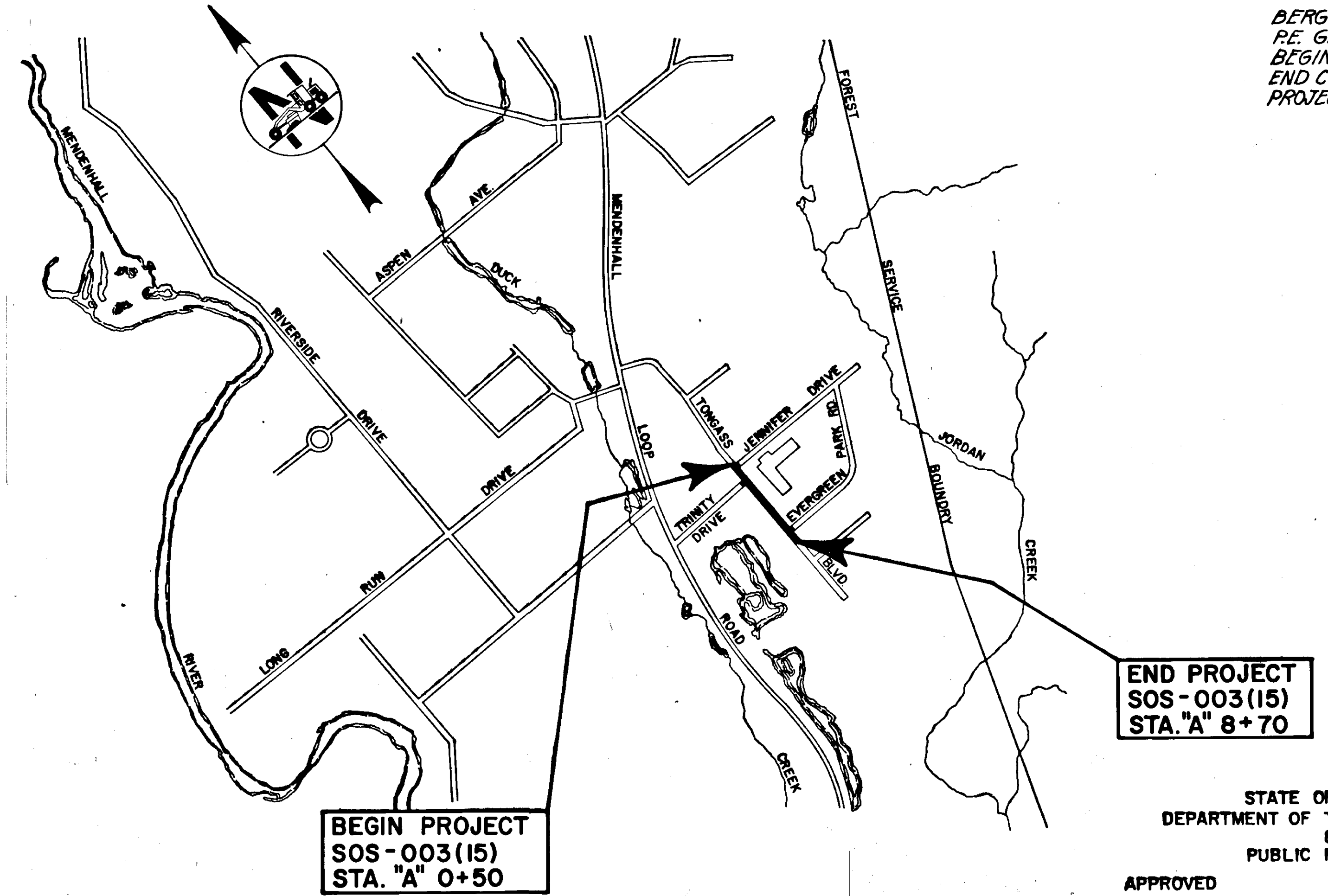
THESE STANDARD DRAWINGS SHALL APPLY TO THIS PROJECT: A-1, C-00.04, C-10.04, C-11.04, D-01.00, D-04.00, D-05.00, D-20.10, D-23.02, D-24.13, D-26.03, E-09.00, I-20.01, I-40.21, M-20.02, M-23.02, S-00.11, S-05.00, S-20.10, S-30.12, T-20.03, T-21.03

PROJECT SUMMARY

- WIDTH OF SUBGRADE = 33.5'
- WIDTH OF PAVEMENT = 31'
- LENGTH OF PAVEMENT = 750' = 0.14 mi.
- LENGTH OF GRADING = 820' = 0.16 mi.
- LENGTH OF PROJECT = 820' = 0.16 mi.

DESIGN DESIGNATION

- ADT 1980 = 1500
- ADT 2000 = 2460
- DHV 12% = 180
- D = 30-70
- T = 3%
- T.I. = 6.5
- V = 20



AS BUILT PLANS

BERG CONSTRUCTION
P.E. GARY HOGINS
BEGIN CONSTRUCTION: MAY 12, 1982
END CONSTRUCTION: SEPTEMBER 8, 1982
PROJECT LENGTH: NO CHANGE
820'



**END PROJECT
SOS - 003 (15)
STA. "A" 8+70**

**BEGIN PROJECT
SOS - 003 (15)
STA. "A" 0+50**

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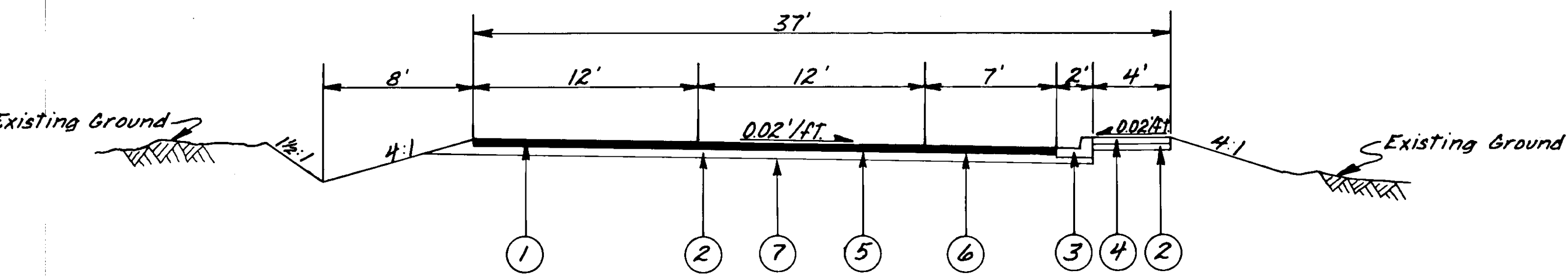
APPROVED
Wallace L. Williams
SOUTHEAST REGION DESIGN/CONSTRUCTION ENGINEER

APPROVED
Charles J. Staiter
DIRECTOR, HIGHWAY DESIGN/CONSTRUCTION

DATE 3-13-81

DATE 4-17-81

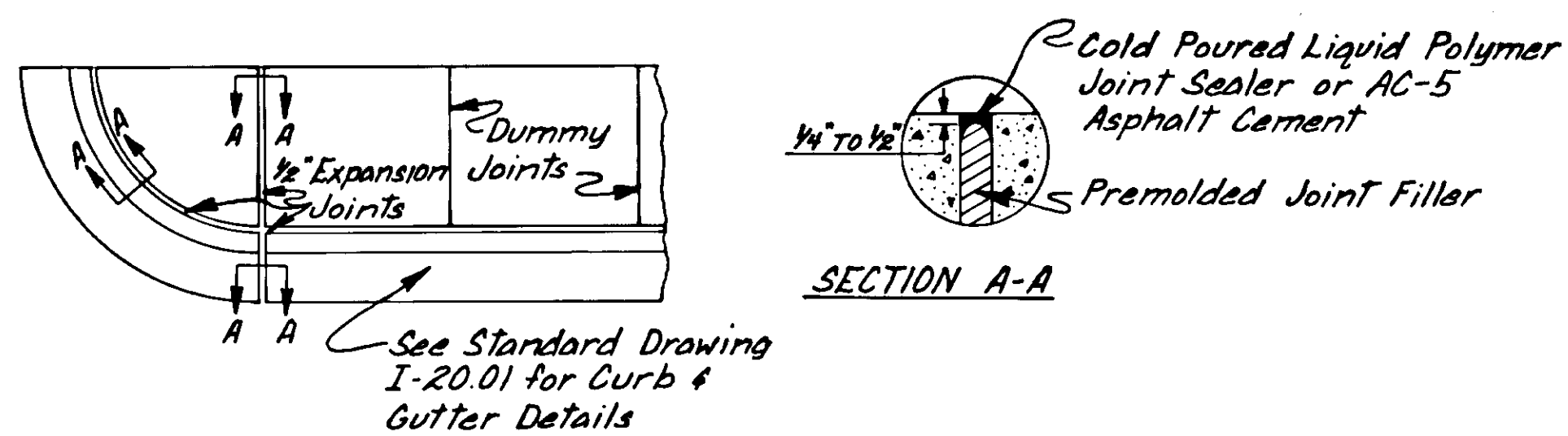
TYPICAL SECTION



LABELING INDEX

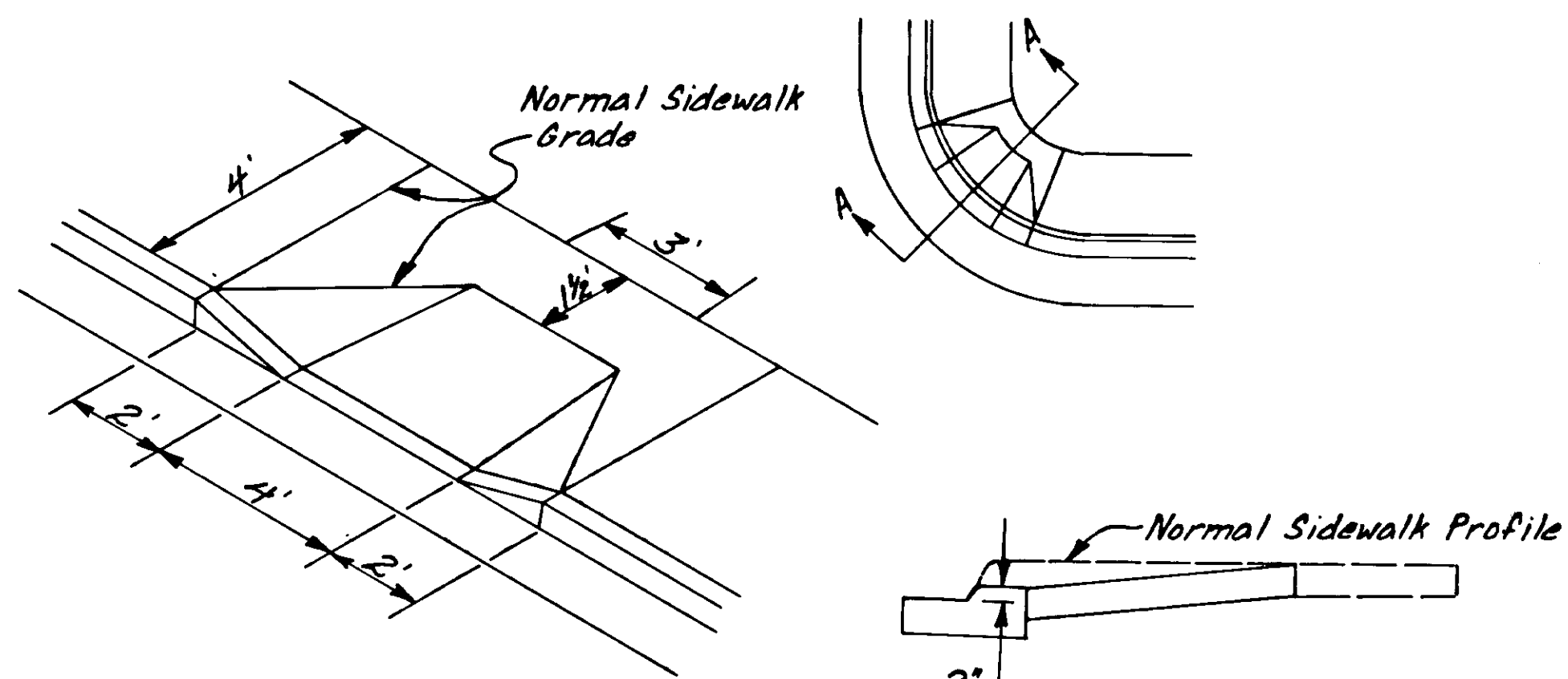
①	3" Asphalt Concrete (Type I) (2-1 1/2" Lifts)
②	4" Crushed Aggregate Base Course
③	Standard Curb & Gutter
④	4" Concrete Sidewalk
⑤	MC-30 Liquid Asphalt for Prime Coat
⑥	CSS-1 Asphalt for Tack Coat
⑦	Bottom of Unclassified Excavation

TYPICAL CURB & SIDEWALK JOINT DETAILS



SECTION A-A

WHEELCHAIR RAMP DETAILS



SECTION A-A

SIDEWALK NOTES

- Premolded expansion joint filler & liquid polymer joint sealer (see specs.) or AC-5 asphalt cement shall be considered incidental to Item 608(1) Concrete Sidewalk and no separate payment shall be made therefore.
- Curb & gutter expansion joints shall be at each end of the curb returns, & immediately preceding & following all curb cuts. Thereafter they shall be placed at intervals of 30' except where shorter sections are needed for closure.
- Sidewalk expansion joints shall be opposite expansion joints in adjoining curb & gutter. Dummy joints shall be equally spaced between expansion joints, spacing shall not exceed 5'.
- Wheelchair ramps shall be constructed as detailed on this sheet & shall be constructed at locations designated by a ★ on the plan sheets.
- Wheelchair ramps shall have a wood float finish or rougher finish & shall have a small curb face of 2".

GENERAL NOTES

- Grades shown on these plans are subject to minor revisions.
- Regrade all existing approaches at curb cuts with crushed aggregate base course as directed by the engineer.
- Regrading of side street ditches to drain shall not be measured or paid for but shall be considered incidental to Item 203(B) Excavation & Embankment.
- Removal of existing pavement shall be paid for under Item 203(B) Excavation & Embankment. No separate payment shall be made therefore.
- Disposal of unused project excavation material, waste, & other items to be wasted during construction shall be in a disposal area to be provided by the contractor & approved by the engineer.
- Curb inlets, field inlets, & culvert lengths & locations are subject to minor revisions.
- Any connections between the existing concrete walkways & the new sidewalks shall be paid for as 4" sidewalk.
- Any required clearing & grubbing shall not be measured or paid for but shall be considered incidental to Item 203(B) Excavation & Embankment.
- Those mailboxes which require relocation shall not be paid for directly but shall be considered incidental to other items. New installations shall be in accordance with Standard Drawings M-20.02 Mailbox Location & M-23.02 Mailbox Installation.
- The # of driving lanes on Tongass Blvd, a crosswalk at approx. sta. A+3+00, & parking lanes shall be striped and shall conform to standard drawings T-20.03 & T-21.03 Pavement Marking Applications. The # stripe shall be a broken yellow stripe & parking lanes shall be as shown on the plans.
- The locations of the sewer manholes as shown on these plans are approx. only & it shall be the responsibility of the contractor to locate them prior to any work which may result in damage to the utility. Assistance in this location may be obtained from the City & Borough of Juneau, Engineering Office.
- The contractor shall have the option of installing Thermoplastic Pavement Markings or Painted Traffic Markings.

ESTIMATE OF QUANTITIES & MISCELLANEOUS SUMMARIES

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
109(1)	Petroleum Escalation	C.S.	All Req'd.
110(1)	Mobilization	L.S.	"
114(1)	Temporary Erosion & Pollution Control	C.S.	"
114(1)	Construction Surveying by the Contractor	L.S.	"
115(1)	Traffic Maintenance	L.S.	"
202(4A)	Removal of Culvert Pipe	L.S.	"
203(8)	Excavation & Embankment	L.S.	"
301(1A)	Crushed Aggregate Base Course	L.S.	"
401(1A)	Asphalt Concrete, Type I	L.S.	"
401(2A)	AC-5 Asphalt Cement	L.S.	"
402(2)	CSS-1 Asphalt for Tack Coat	L.S.	"
403(2A)	MC-30 Liquid Asphalt for Prime Coat	L.S.	All Req'd.
603(22-18)	18-Inch Pipe	L.F.	118
603(22-24)	24-Inch Pipe	L.F.	876
604(3)	Reconstruct Existing Manholes	Each	3
604(4)	Adjust Existing Manholes	Each	1
604(5A)	Inlets, Type 'A'	Each	3
604(5B)	Inlets, 24" Field	Each	3
608(4)	Asphalt Sidewalk	L.S.	All Req'd.
608(1A)	Concrete Sidewalk (4" Depth)	S.Y.	232
608(1B)	Concrete Sidewalk (6" Depth)	S.Y.	107
609(2)	Curb and Gutter, Type (Standard)	L.F.	766.761
615(1)	Standard Sign	S.F.	76.9
670(1)	Painted Traffic Markings	L.S.	All Req'd.
626(2)	Relocate Sewer Service Connection	L.S.	All Req'd.
626(3)	Septic Tank Removal	L.S.	All Req'd.
639(2)	Approaches	L.S.	All Req'd.

SIGNING SCHEDULE

NO.	STATION	OFFSET		CODE NO.	LEGEND	SIGN PANEL		POST LENGTH	FACING TRAFFIC	REMARKS
		LEFT	RIGHT			SIZE	AREA			
1	"A" 0+77.00	42'		RI-1	STOP	30"	6.25	11'	W.B.	On Jennifer Intersection
2	"A" 0+77.80	42'		D3-1	TONGASS BLVD.	8" x 42"	2.33		E.B. & W.B.	Mount Above Stop Sign
3	"A" 0+77.80	42'		D3-1	JENNIFER DR.	8" x 36"	2.00		N.B. & S.B.	Mount Above Tongass Blvd. Sign
4	"A" 1+39		26'	SI-1	Symbol	36"	6.75	11'	S.B.	
5	"A" 1+42	24'		R7-1R	NO PARKING →	12" x 18"	1.5	11'	N.B.	
6	"A" 2+32	24'		R7-1L	NO PARKING ←	12" x 18"	1.5	11'	N.B.	
7	"A" 2+41	37'		RI-1	STOP	30"	6.25	11'	W.B.	On School Exit
8	"A" 2+42		44'	RI-1	STOP	30"	6.25	11'	E.B.	On Trinity Intersection
9	"A" 2+42		44'	D3-1	TONGASS BLVD.	8" x 42"	2.33		E.B. & W.B.	Mount Above Stop Sign
10	"A" 2+42		44'	D3-1	TRINITY DR.	8" x 30"	1.67		N.B. & S.B.	Mount Above Tongass Blvd. Sign
*	"A" 2+33		26'		Stop					* Added by City
11	"A" 3+12	24'		S2-1	Symbol	36"	6.75	11'	N.B.	On Tongass Blvd. at School Exit
12	"A" 3+12		26'	S2-1	Symbol	36"	6.75	11'	S.B.	On Tongass Blvd. at Trinity Dr.
13	"A" 5+18	24'		SI-1	Symbol	36"	6.75	11'	N.B.	
14	"A" 7+30	24'		R7-1L	NO PARKING ←	12" x 18"	1.5	11'	N.B.	
15	"A" 7+36	38'		RI-1	STOP	30"	6.25	11'	W.B.	On Evergreen Park Rd. Intersection
16	"A" 7+36	38'		D3-1	TONGASS BLVD.	8" x 42"	2.33		E.B. & W.B.	Mount Above Stop Sign
17	"A" 7+36	38'		D3-1	EVERGREEN PARK RD.	8" x 54"	3.0		N.B. & S.B.	Series 'B' Lettering - Mount Above
*	"A" 3+06	16'			Stop					* Added by City
18	"A" 2+00	24'		SI-1	Symbol	36"	6.75	11'	E.B.	Stationing on Trinity Dr.

SIGNING NOTES

1. Sign locations & lengths are approximate only & are subject to minor revisions.
2. All sign posts shall be 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.
3. All posts shall be installed with sleeve type embedment in concrete as per Standard Drawing S-30.12, except that the 2 1/4" size shall be used for the entire embedment depth.
4. Post lengths are from the cut-off in the sleeve to the top of the post. See Standard Drawings S-05.00 & S-30.12.
5. Sign D3-1 shall have the legend printed on both sides.
6. All existing signs shall be dismantled by the contractor & stockpiled at the City & Borough of Juneau Maintenance Shop as directed by the engineer. This work shall be considered incidental to Item 615(1) Standard Signs and no separate payment shall be made therefore.
7. All sign panels shall be unframed.
8. All sign panels shall be .063" thick.

ESTIMATE OF ROADWAY QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
203(8)	Excavation & Embankment (Excavation)	C.Y.	1,027
203(8)	Excavation & Embankment (Embankment)	C.Y.	209
301(1A)	Crushed Aggregate Base Course	Ton	551
401(1A)	Asphalt Concrete, Type I	Ton	551
401(2A)	AC-5 Asphalt Cement	Ton	33.1
402(2)	CSS-1 Asphalt for Tack Coat	Ton	1.2
403(2A)	MC-30 Liquid Asphalt for Prime Coat	Ton	2.9

CULVERT PIPE REMOVAL SUMMARY

STATION	TO	STATION	DIAMETER	LENGTH
"A" 0+82.50 Lt.		"A" 1+46.50 Lt.	18"	64'
"A" 2+24.50 Lt.		"A" 2+40.00 Rt.	18"	41'
"A" 4+49.00 Lt.		"A" 4+95.00 Lt.	12"	46'
"A" 6+76.00 Rt.		"A" 6+96.00 Rt.	12"	20'
"A" 7+16.00 Rt.		"A" 7+39.00 Rt.	12"	23'
"A" 7+38.00 Lt.		"A" 7+78.00 Lt.	18"	40'
"A" 7+40.00 Lt.		"A" 7+78.00 Lt.	18"	38'

MANHOLE SUMMARY

STATION	OFFSET	REMARKS
"A" 0+01.00		
"A" 1+00.00	6' Rr.	No. 36.3A - Reconstruct
+60.00		
"A" 2+59.00	7' Rr.	No. 36.2
"A" 5+10.00	6' Rr.	No. 36.3 Reconstruct
+62.00		
"A" 7+03.00	4' Rr.	No. 36.4 Adjust

BASIS OF ESTIMATE

ITEM NO.	ITEM	ESTIMATING FACTOR
301(1A)	Crushed Aggregate Base Course	1.90 Tons / C.Y.
401(1A)	Asphalt Concrete, Type I	114.4 lbs. / S.Y. / Inch Depth
401(2A)	AC-5 Asphalt Cement	6% of Item 401(1A)
402(2)	CSS-1 Asphalt for Tack Coat	0.10 Gal. / S.Y. - 253 Gal. / Ton
403(2A)	MC-30 Liquid Asphalt for Prime Coat	0.25 Gal. / S.Y. - 256 Gal. / Ton @ 60°F.

CURB CUT SUMMARY

STATION	WIDTH	LT.	RT.	REMARKS
"A" 0+71.00	14'		X	
"A" 1+08.00	36'		X	
"A" 1+60.00	50'		X	
"A" 4+16.50	34'		X	
"A" 5+50.00	34'		X	
"A" 6+86.00	14'		X	
"A" 7+29.00	14'		X	

DRIVEWAY SUMMARY

STATION	WIDTH	LT.	RT.	REMARKS
"A" 2+67.50	30'	X		
"A" 4+72.00	34'	X		

DRAINAGE DETAILS

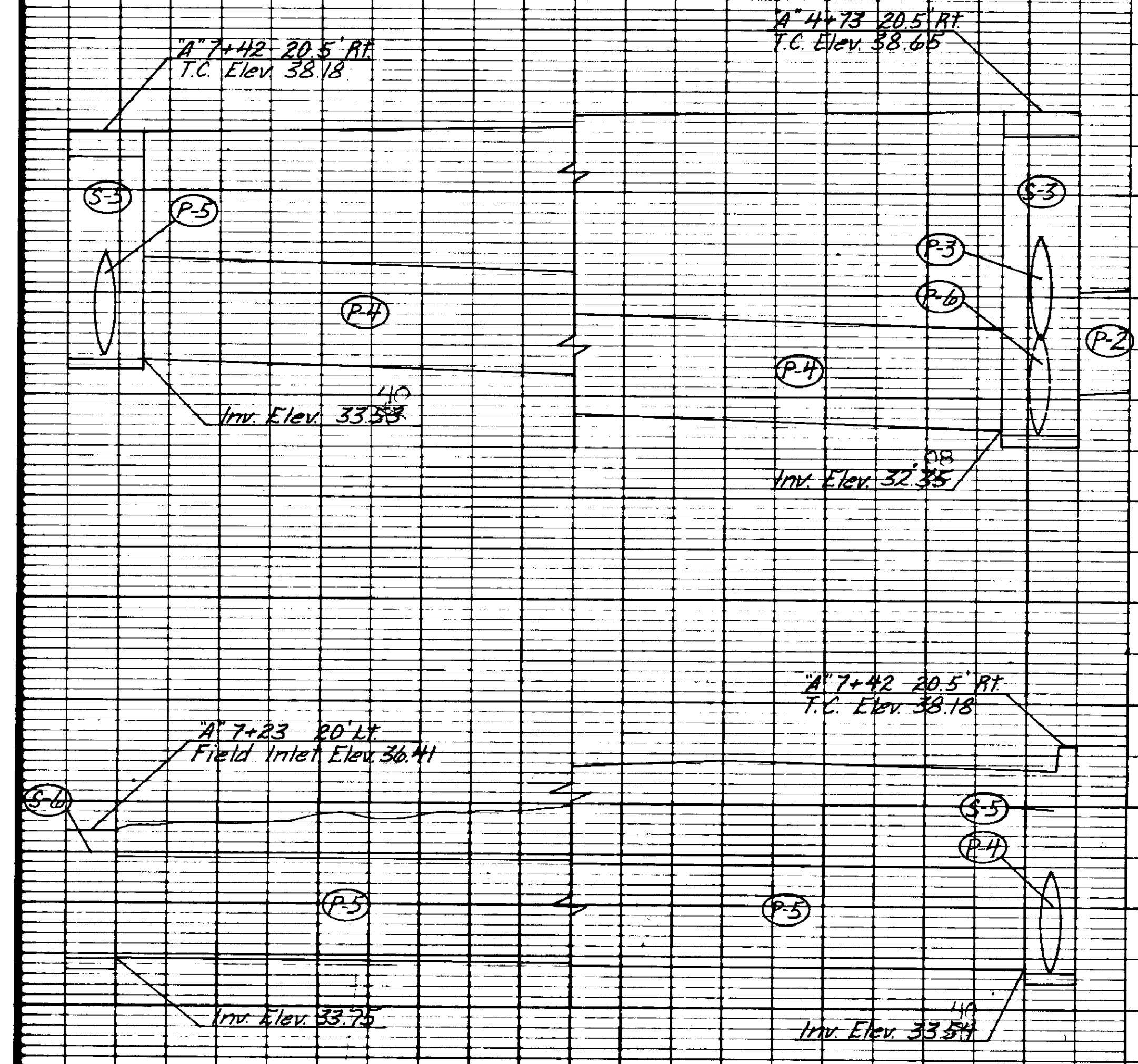
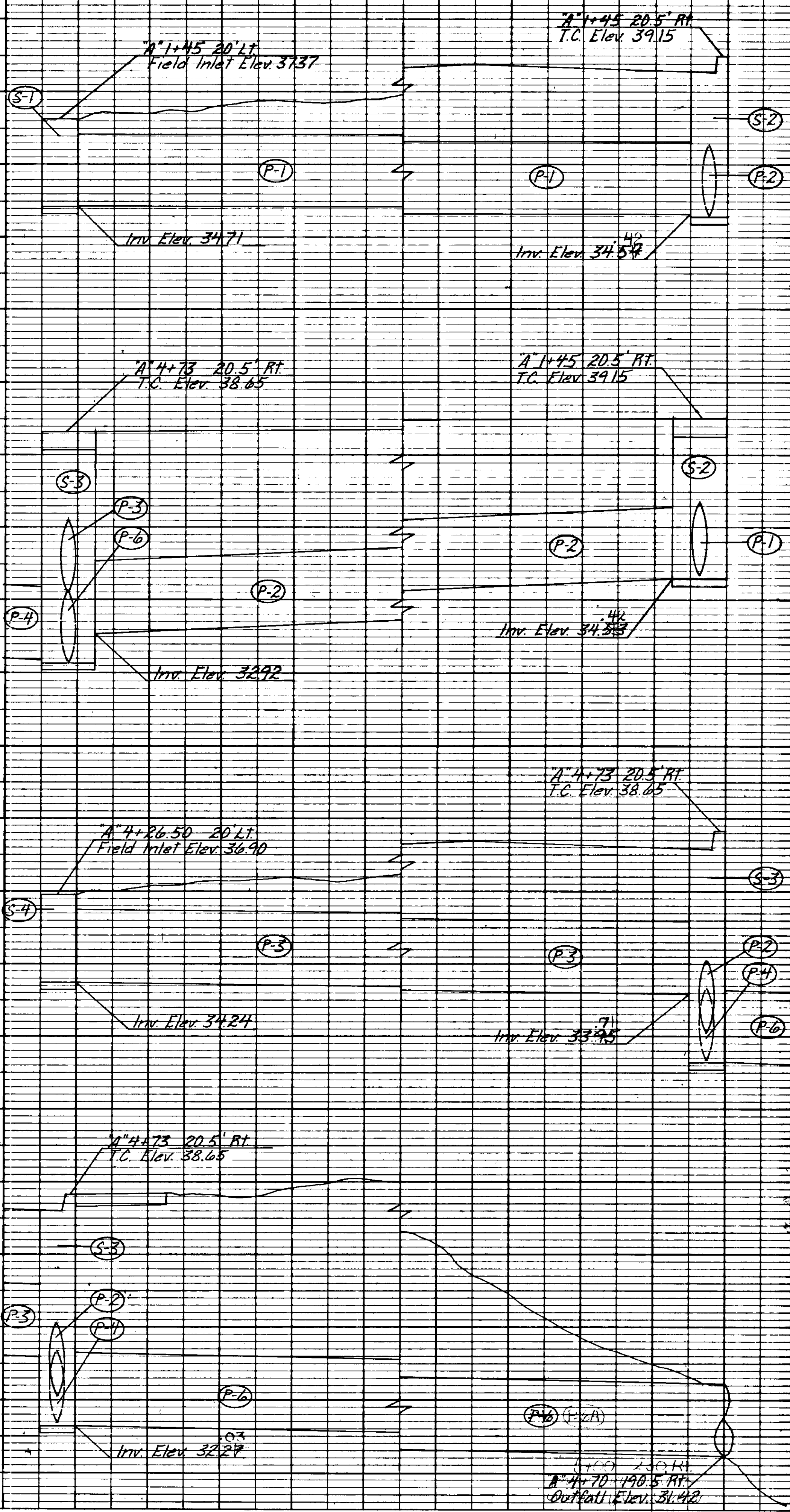
STRUCTURE SUMMARY

STRUCTURE	TYPE	STATION	OFFSET		TOP CURB ELEV.	INVERT ELEV.
			LEFT	RIGHT		
S-1	X	A" 1+45.00	20' **		37.37*	34.71
S-2	A	A" 1+45.00		20.5'	39.15	34.53
S-3	A	A" 4+73.00/74.00		20.5'	38.65	32.27
S-4	X	A" 4+26.50	20' **		36.90*	34.24
S-5	A	A" 7+42.00		20.5'	38.18	33.53
S-6	X	A" 7+23.00	20' **		36.41*	33.75

PIPE SUMMARY

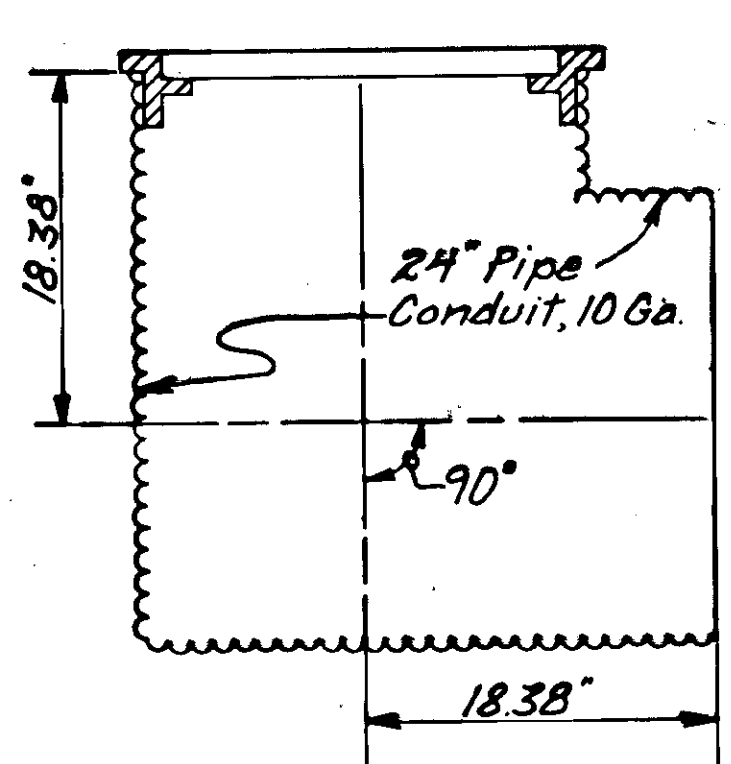
PIPE	DIA.	LENGTH	FROM		TO	
			STRUCTURE	ELEV.	STRUCTURE	ELEV.
P-1	24"	37' 4"	S-1	34.71	S-2	34.54
P-2	24"	322' 3/8"	S-2	34.53	S-3	32.92
P-3	24"	57' 6"	S-4	34.24	S-3	33.95
P-4	24"	269'	S-5	33.53	S-3	32.35
P-5	24"	77' 43"	S-6	33.75	S-5	33.54
P-6	24"	170'	S-3	32.37	Outfall	31.42
P-7	18"	70' 75"	Culvert @ Jennifer Dr. Intersection			37.35
P-6A	24"	50'	P-6		Outfall	30.61

- NOTES: 1. * = Top of grate elev.
 2. ** = Offsets are to center of grate.
 3. A = See Standard Drawing D-26.03.
 4. X = 24" Field Inlet, (See Details Below)
 5. On type A inlets the offsets are to the back of curb.
 6. Curb inlet grates shall be Type G-3R, see Standard Drawing D-23.02.

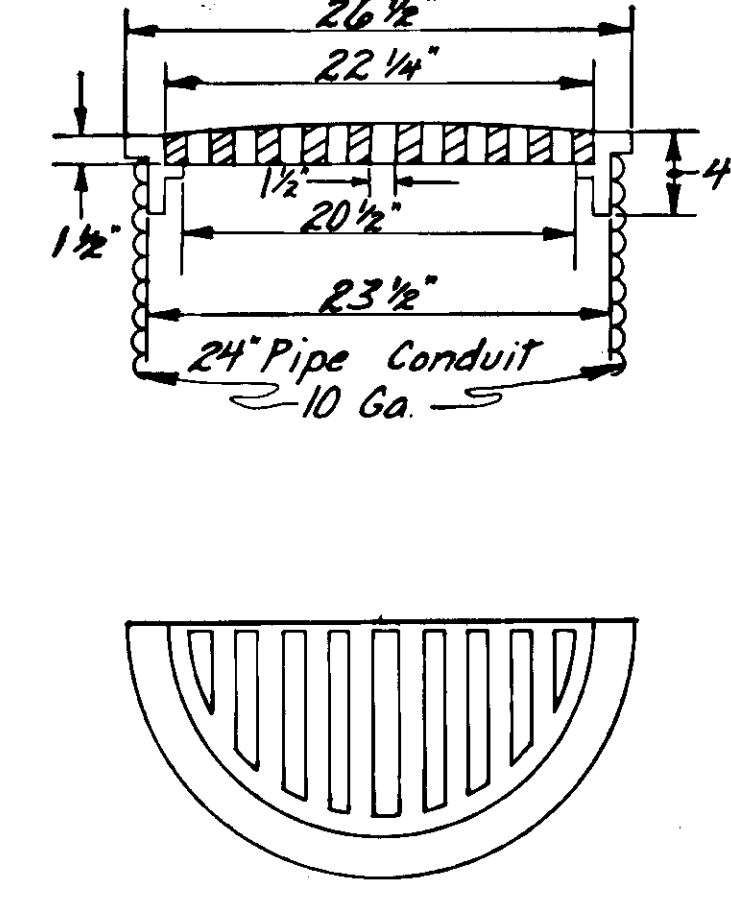


TYPE "X" INLET DETAILS

24" FIELD INLET DETAIL

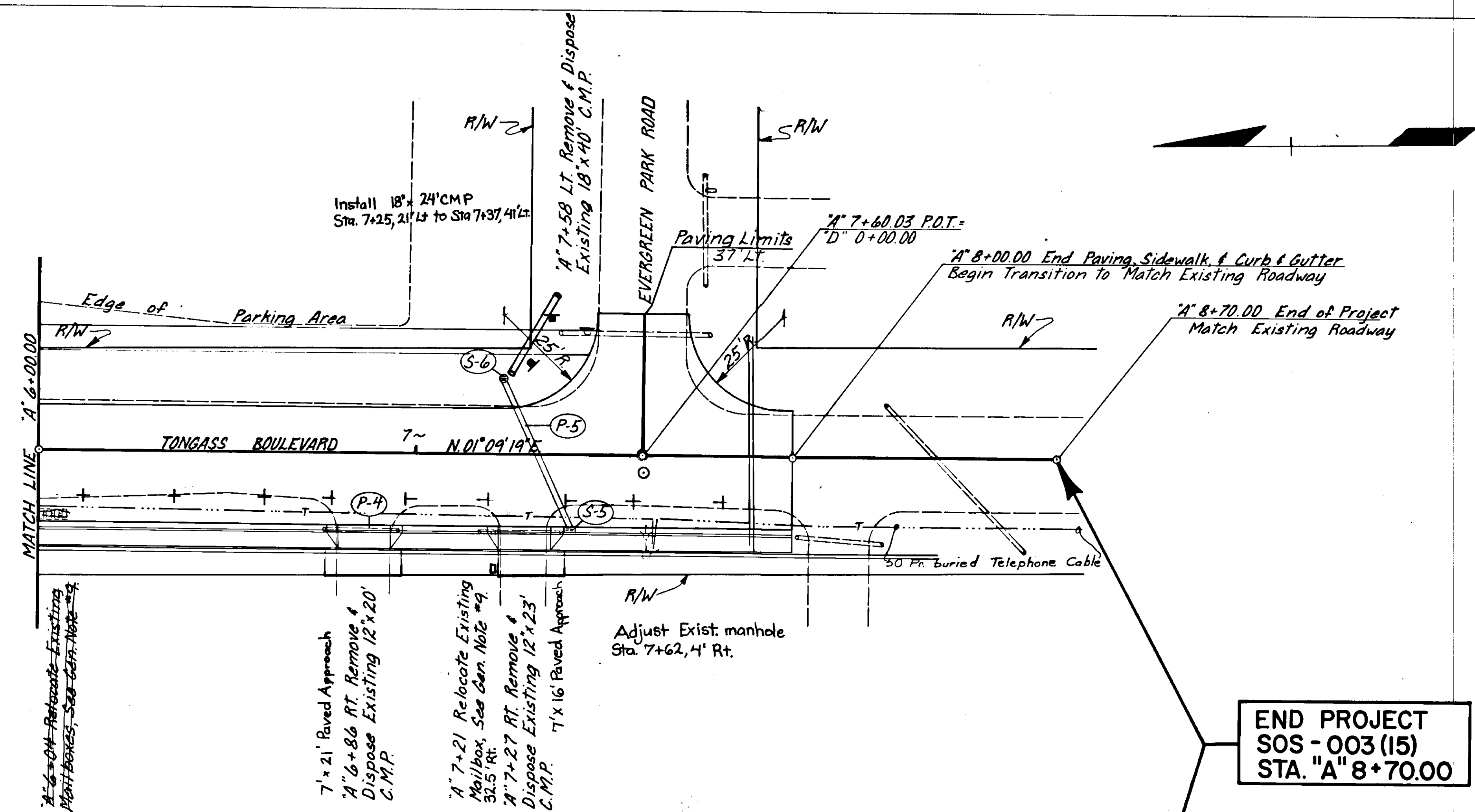


GRATE DETAIL



A" 7+20.00
 T.C. Elev. 33.42
 Outfall Elev. 31.42

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-003 (15)	1981	6	6



END PROJECT
SOS - 003 (15)
STA. "A" 8+70.00

Excavation = 289 C.Y.
 Embankment = 69 C.Y.

