



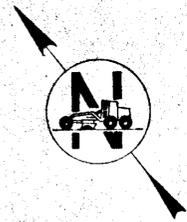
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT

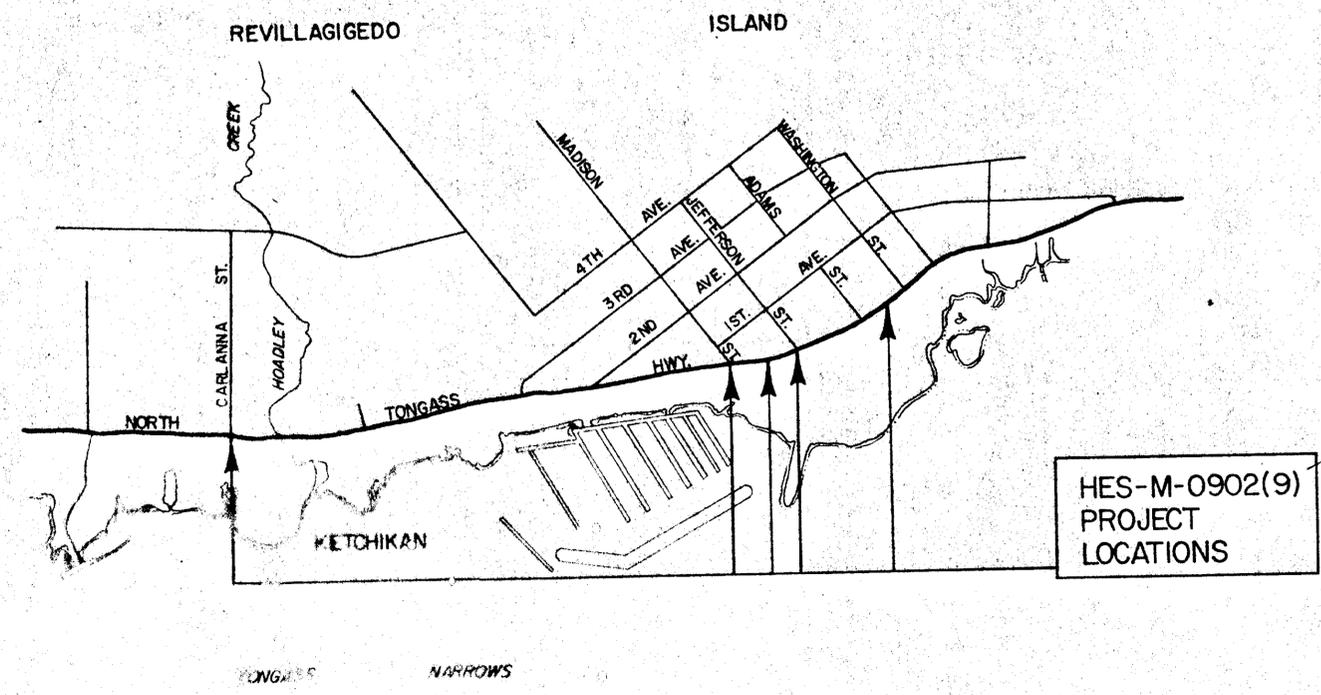
HES-M-0902(9) TONGASS AVENUE IMPROVEMENTS

INDEX OF SHEETS	
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES
3-5	PLAN SHEETS
6-7	STRIPING & SIGNING
8	RETAINING WALL DETAILS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
A-1, C-00.04, C-10.03, C-11.03, D-01.00, D-23.01, D-26.02, I-20.01,
S-00.11, S-05.00, S-21.00, S-30.12, T-21.02, T-22.00, T-52.01, U-03.00,
S-20.10



"AS-BUILT" PLANS
CONTRACTOR: WICK CONSTRUCTION CO.
PROJECT ENGINEER: D.F. ROBBINS
BEGINNING DATE: SEPT. 16, 1980
COMPLETION DATE: JULY 9, 1981
NO CHANGE IN LENGTH



HES-M-0902(9)
PROJECT
LOCATIONS

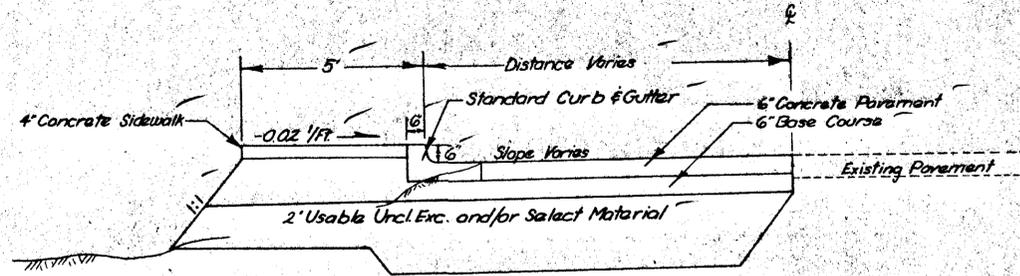
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED
R. D. Miller DATE 2-11-81
SOUTHEASTERN REGION
DESIGN / CONSTRUCTION ENGINEER

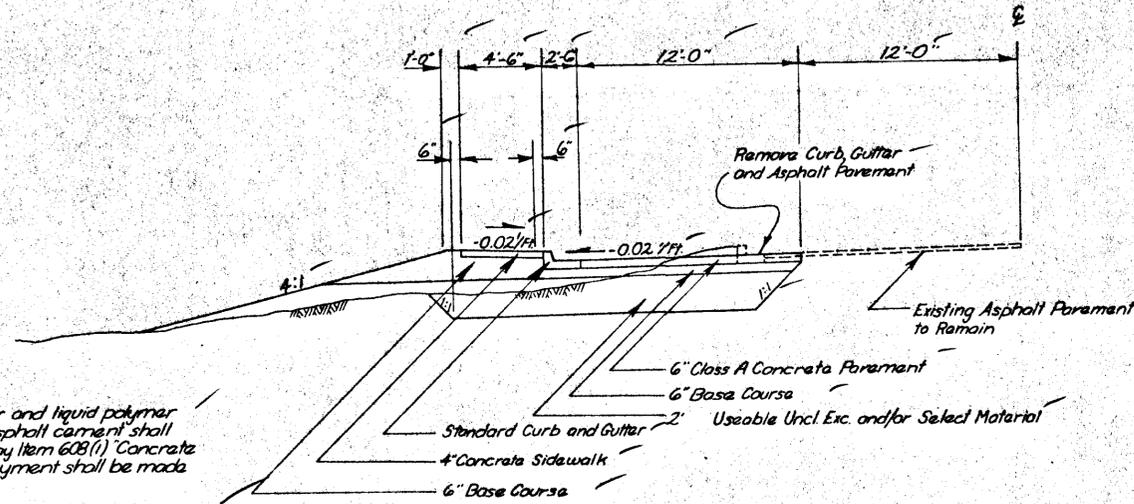
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED
[Signature] DATE 2-20-81
DIRECTOR - HIGHWAY DESIGN & CONSTRUCTION

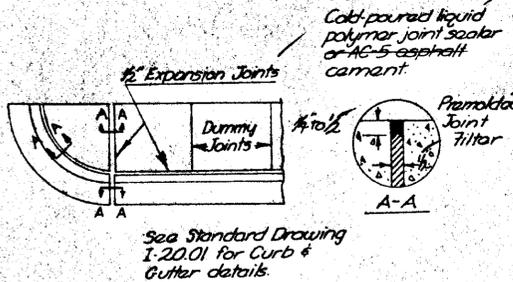
TOTAL ESTIMATE OF QUANTITIES				
ITEM NO.	ITEM	UNIT	QUANTITY	
109 (1)	Petroleum	C. S.	All Req'd	0
110 (1)	Mobilization	L. S.	All Req'd	142,834
111 (1)	Temporary Erosion and Pollution Control	C. S.	All Req'd	0
113 (1)	Flagging	Man Hr.	2,200	514
114 (1)	Construction Engineering by the Contractor	L. S.	All Req'd	2648
115 (1)	Traffic Maintenance	L. S.	All Req'd	2952
202(1)	Removal of Structures and Obstructions	L. S.	All Req'd	16086
203(3)	Unclassified Excavation	Cu. Yd.	470	650
203(6c)	Select Material	Cu. Yd.	240	351
301(1)	Crushed Aggregate Base Course	Ton	270	254
501(1A)	Class A Concrete Pavement	L. S.	All Req'd	44250
501 (5)	Concrete Block Retaining Wall	L. S.	All Req'd	10765
603(22b)	8" Pipe Conduit	Lin Ft.	62	78
604(5)	Curb Inlet Type A	Each	7	-
604 (7)	Reconstruct Inlet	Each	1	-
604 (8)	Relocate S. D. Cleanout	Each	1	-
608 (1A)	Concrete Sidewalk 4" Depth	Sq. Yd.	179	206.5
608 (1B)	Concrete Sidewalk 6" Depth	Sq. Yd.	11	12.7
609 (1)	Curb Type II	Lin. Ft.	432	-
609 (2)	Standard Curb & Gutter	Lin Ft.	338	590.5
615 (1)	Standard Signs	Sq. Ft.	58.65	-
615 (2)	Standard Signs (Overhead Mounting)	Sq. Ft.	30	-
628 (6)	Fire Hydrant Installation	Each	1	-
628 (8)	Fire Hydrant Removal	Each	1	-
670 (1)	Painted Traffic Markings	L. S.	All Req'd	-



MADISON AVENUE TYPICAL SECTION
Sta. "M" 0+21 to Sta. "M" 0+54



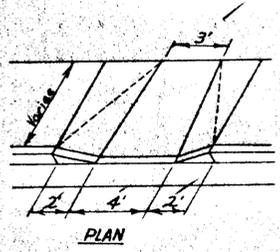
CARLANNA STREET TYPICAL SECTION
Sta. "C" 0+60.5 to Sta. "C" 1+04.8



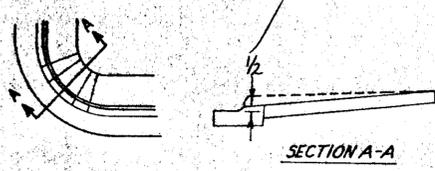
W.R. GRACE
NORAFLEX

NOTES:
1. Precast expansion joint filler and liquid polymer sealant (see spec.) or AC-5 asphalt cement shall be considered incidental to pay item 608(1) Concrete Sidewalk and no separate payment shall be made therefore.
2. Curb and gutter expansion joints shall be at each end of the curb return, and immediately following and preceding curb cuts. Thereafter they shall be placed at intervals of 30' except where shorter sections are needed for closure.
3. Sidewalk expansion joints shall be opposite expansion joints in adjoining curb & gutter. Dummy joints shall be equally spaced between expansion joints and the spacing shall not exceed 6'.

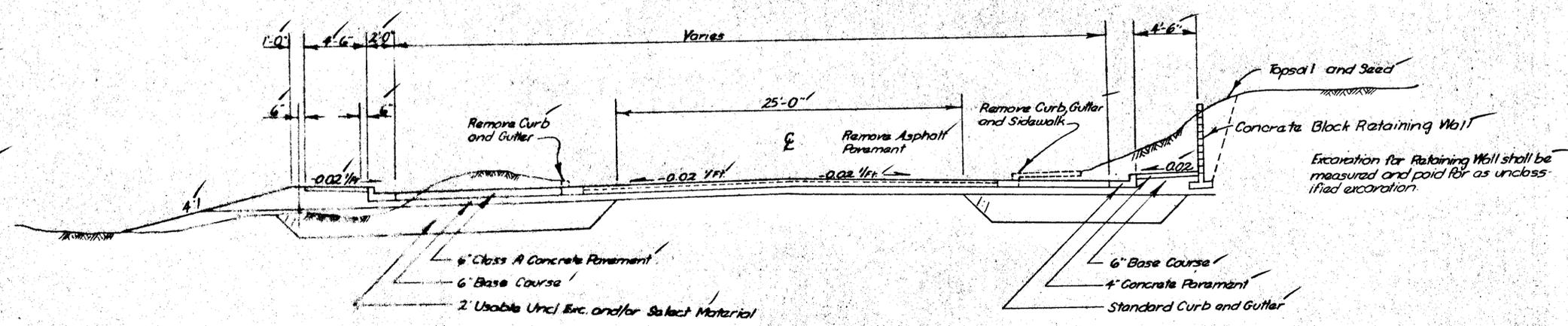
TYPICAL CURB & SIDEWALK JOINT DETAIL



NOTES:
1. Wheelchair ramps shall be considered incidental to item 608(1). Concrete sidewalk and no separate payment will be made therefore.
2. Wheelchair ramps shall have a wood float or rougher finish.
3. Wheelchair ramps shall have a curb face of 1/2".



WHEELCHAIR RAMP DETAILS



CARLANNA STREET TYPICAL SECTION
Sta. "C" 0+27 to Sta. "C" 0+60.5

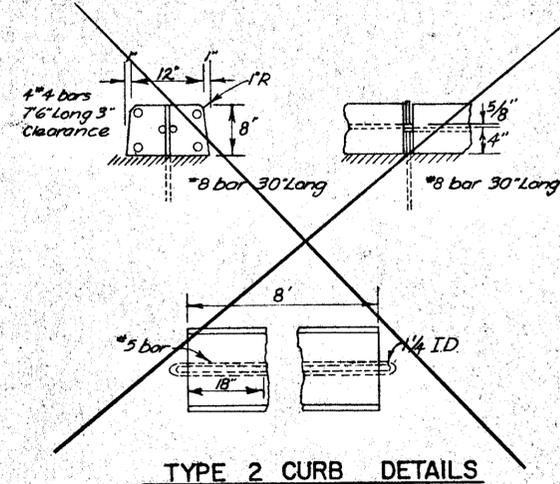
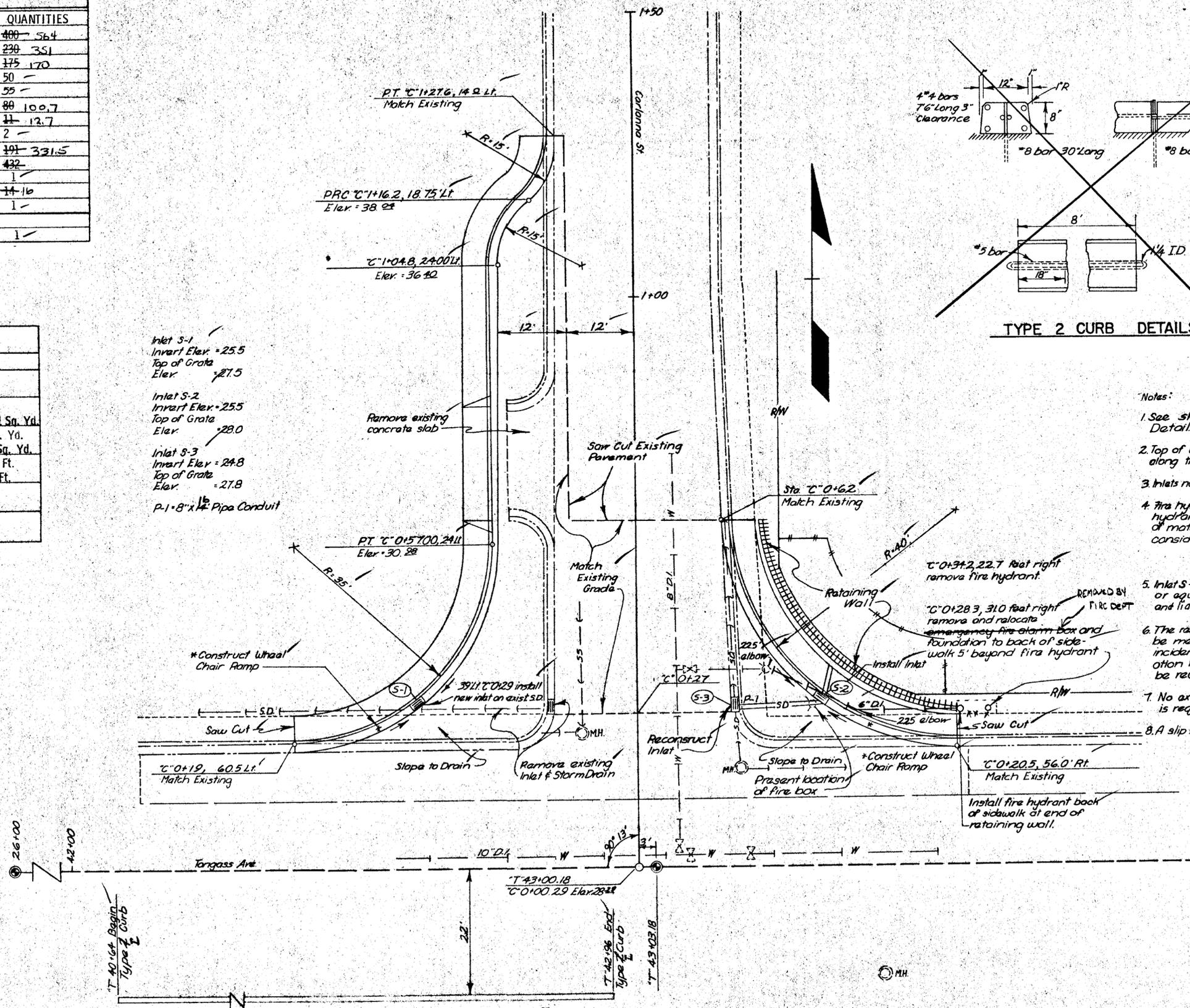
- GENERAL NOTES:
- All inlets shall be Type "A" Boxes in accordance with Standard Drawing D-26.02.
 - Elevation of inlets are approximate only. All drainage dimensions shall be field verified and new inlets set to meet field conditions.
 - All inlets shall have bicycle safe grates.
 - During Construction activities traffic may be routed around work areas providing only one intersection may be closed to thru traffic at a time. No traffic closures will be allowed on Tongass Ave. Permission will be obtained from the local police, fire and street departments prior to any rerouting of traffic.

Note: Seeding will be considered incidental to other work

SHEET SUMMARY OF QUANTITIES		
ITEM	UNIT	QUANTITIES
Unclassified Excavation	Cu. Yd.	400 - 564
Select Material	Cu. Yd.	230 - 351
Crushed Aggregate Base Course	Ton	175 - 170
Class A Concrete Pavement	Cu. Yd.	50 -
Concrete Block Retaining Wall	Lin. Ft.	55 -
Concrete Sidewalk 4" Depth	Sq. Yd.	80 - 100.7
Concrete Sidewalk 6" Depth	Sq. Yd.	11 - 12.7
Standard Curb Inlet Type A	Each	2 -
Standard Curb & Gutter	Lin. Ft.	191 - 331.5
Curb Type II DELETED S.C.O.#1	Lin. Ft.	432 -
Fire Hydrant Removal	Each	1 -
8" Pipe Conduit	Lin Ft.	14 - 16
Reconstruct Inlet	Each	1 -
Fire Hydrant Installation	Each	1 -

SUMMARY	
REMOVAL OF STRUCTURES AND OBSTRUCTIONS	
Concrete Pavement	Sta. "C" 0+56.7 to Sta. "C" 0+86.1 Lt. 20 Sq. Yd.
Asphalt Pavement	Sta. "C" 0+27 to Sta. 0+60.5 107 Sq. Yd. Sta. "C" 0+60.5 to Sta. "C" 1+27.6 12' Lt. 11 Sq. Yd.
Concrete Sidewalk	Sta. "C" 0+22.5 to Sta. "C" 0+27 Lt. 21 Sq. Yd. Sta. "C" 0+22.5 to Sta. "C" 0+60.5 Rt. 37 Sq. Yd.
Concrete Curb & Gutter	Sta. "C" 0+20.5 to "C" 1+27.6 Lt. 130 Lin. Ft. Sta. "C" 0+20.5 to "C" 0+60.5 Rt. 80 Lin. Ft.
Inlet 1 Each	Sta. "C" 0+28, 15' Lt.
Pipe Conduit	Sta. "C" 0+28, 08" Diameter, 24 Lin Ft.

HORIZONTAL & VERTICAL CONTROL
Monumentation distances & angle shown below.
D.O.T. brass cap dated 1977 in front of fire station Elev. 24.27.



- Notes:
- See sheet 8 for Concrete Block Retaining Wall Detail.
 - Top of wall shall be a smooth continuous line along the existing ground.
 - Inlets no. S-1 and S-2 shall be standard curb inlets.
 - Fire hydrant installation shall include: installation of hydrant, valve, valve box and waterline. Furnishings of materials including water pipe shall be considered incidental to this installation.
 - Inlet S-3 shall have a Maanah Foundry Co. No. R-187B, or equal solid lid. Furnishing and installation of frame and lid shall be incidental to Item 604(7).
 - The removal and reconstruction of the fire alarm box be measured or paid for but shall not be considered incidental to other items of work. The fire alarm box is a 55 gal. drum filled with concrete which may be reused or a new foundation furnished.
 - No extra compensation will be paid if rock excavation is required on the east side of Carlanna.
 - A slip form paver may be used but is not mandatory.

CARLANNA INTERSECTION

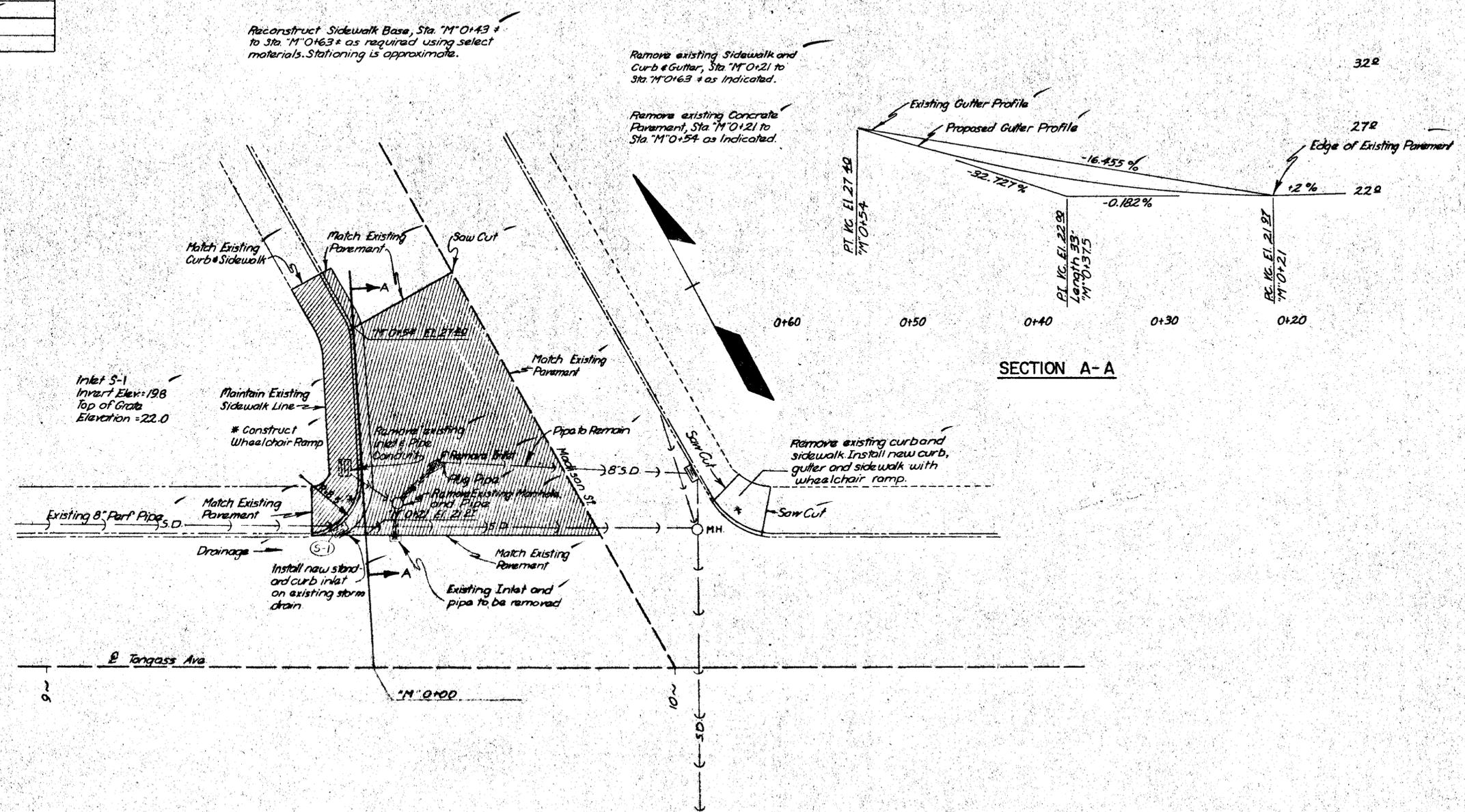
SHEET SUMMARY OF QUANTITIES		
ITEM	UNIT	QUANTITY
Unclassified Excavation	Cu. Yd.	38 86
Select Material	Cu. Yd.	10 0
Crushed Aggregate Base Course	Ton	50 45
Class A Concrete	Cu. Yd.	20
Concrete Sidewalk 4" Depth	Sq. Yd.	28 33.6
Curb & Gutter Type I	Lin. Ft.	47 66
Standard Curb Inlet	Each	1

SUMMARY	
REMOVAL OF STRUCTURES AND OBSTRUCTIONS	
Concrete Pavement	Sta. "M" 0+21 to Sta. "M" 0+54 7 1/2" thick 120 Sq. Yd.
Concrete Sidewalk	Sta. "M" 0+21 to "M" 0+63 Lt. 21 Sq. Yd. Sta. "M" 0+21 to "M" 0+26 Rt. 7 Sq. Yd.
Concrete Curb & Gutter	Sta. "M" 0+21 to "M" 0+63 Lt. 47 Lin Ft. Sta. "M" 0+21 to "M" 0+26 Rt. Lin Ft.
Inlet	3 Each
Pipe Conduit	20 L.F.
Manhole	1 Each

HORIZONTAL & VERTICAL CONTROL

The intersection of the "M" Line and the edge of pavement on Tongass Ave. LT defines Sta. "M" 0+21.00, Elev. 21.97.

"M" Line is defined as the existing curb line.

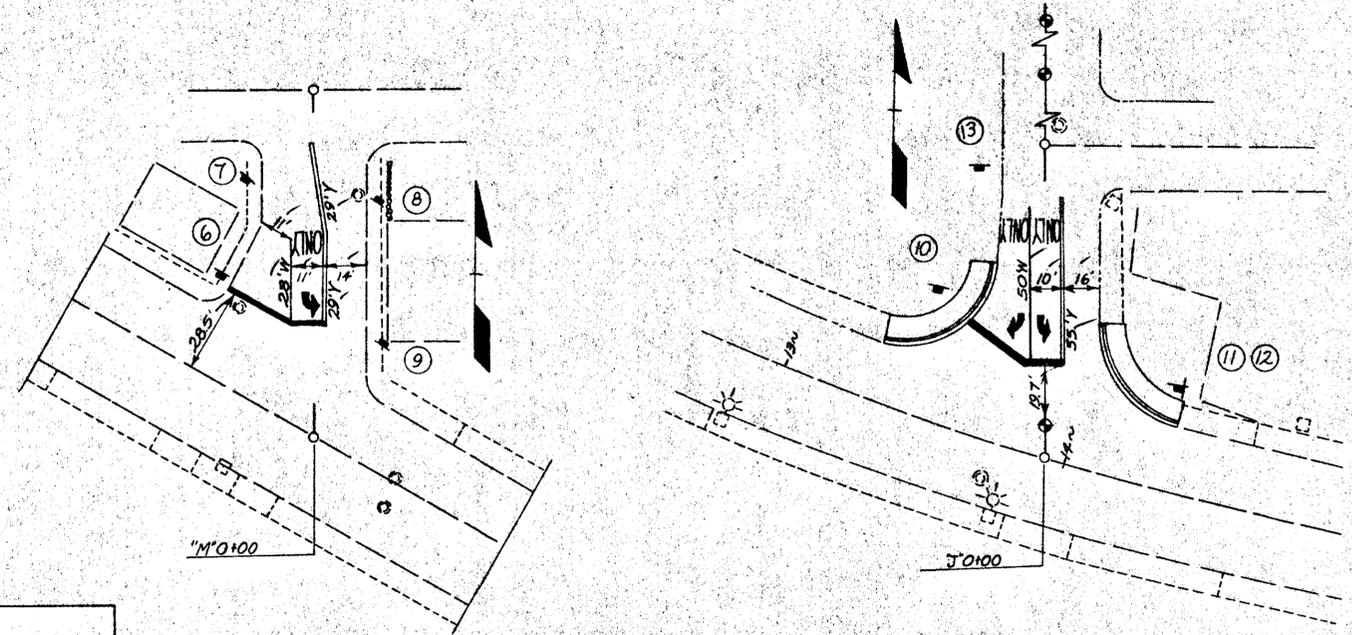


MADISON INTERSECTION

STRIPING AND SIGNING

SIGNING NOTES:

1. Sign posts shall be 2" Square Perforated Galvanized Steel.
2. Sign Posts bases shall have 3 ft. embedment and be 2 1/4" square to allow sign posts to telescope inside for 1 ft.
3. Sign panel minimum thickness shall be 0.063 inches.
4. Post lengths may vary and should be used for estimating purposes only.
5. Sign locations are subject to minor field adjustments by the engineer.
6. Removed signs shall be delivered to the Dept. of Transportation maintenance yard at 4 1/2 mile N. Tongass Hwy.
7. Removal of signs shall be incidental to other items of work.
8. Street name signs (D3-1) shall have the legend on both faces.

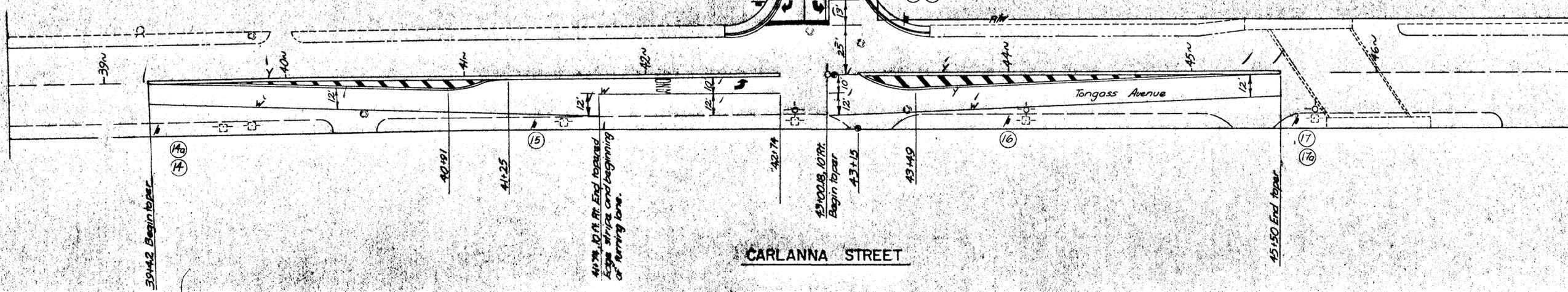
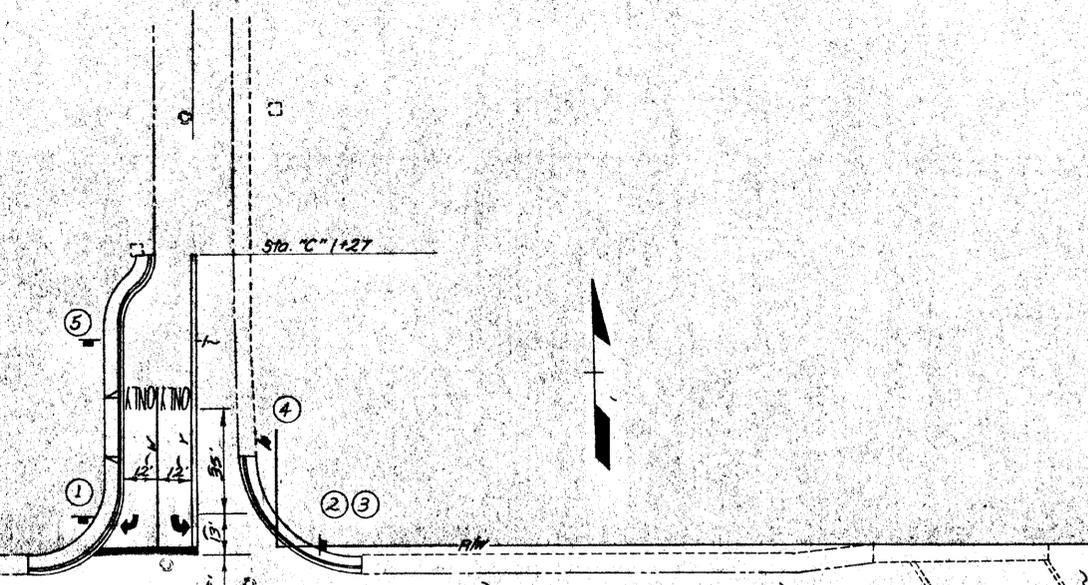


STANDARD SIGNS SUMMARY									
No.	Station	Offset Lt.	Offset Rt.	Code	Legend	Size	Area Sq. Ft.	Post Length	Remark
1	"C" 0 + 38	36		R1-1	Stop	30x30	6.25	10.5	
2	"C" 0 + 29	39		D3-1	Carlanna St.	60x8	3.3		
3	"C" 0 + 29	39		D3-1	Tongass Ave.	60x8	3.7	8.0	Mount 90° to each other on Post Top.
4	"C" 0 + 39	22		R7-1	No Parking Anytime	12x18	1.5	9.5	Mount 45° to Traffic.
5	"C" 0 + 99	31		R3-8LR	"ONLY" left, "ONLY" Right	30x30	6.25	10.5	
6	"M" 0 + 67	25		R1-1	Stop	30x30	6.25	10.5	
7	"M" 0 + 86	23		R7-1	No Parking Anytime	12x18	1.5	9.5	Mount 45° to Traffic
8	"M" 0 + 79	24		R7-1	"	12x18	1.5	9.5	"
9	"M" 0 + 32	24		R7-1	"	12x18	1.5	9.5	"
10	"J" 0 + 57	31		R1-1	Stop	30x30	6.25	10.5	
11	"J" 0 + 23	41		D3-1	Tongass Ave	60x8	3.7		
12	"J" 0 + 23	41		D3-1	Jefferson Street	60x8	3.7	8.0	Mount 90° to each other on Post Top
13	"J" 1+00	20		R3-8LR	"ONLY" Left, "ONLY" Right	30x30	6.25	10.5	
14	"T" 39+30	24		R7-1L	No Parking Anytime ←	12x18	1.5	10.0	Mount 45° to Traffic
14a	"T" 39+30	24		R7-201A	Begin	12x6	0.5	-	Mount above 14
15	"T" 41+40	24		R7-1D	No Parking Anytime ↔	12x18	1.5	9.5	Mount 45° to Traffic
16	"T" 44+00	24		R7-1D	No Parking Anytime ↔	12x18	1.5	9.5	" " " "
17	"T" 45+60	24		R7-1D	No Parking Anytime ↔	12x18	1.5	9.5	" " " "
17a	"T" 45+60	24		R7-201B	End	12x6	0.5	-	Mount above 17
STANDARD SIGNS (OVERHEAD MOUNTING)									
18	73+79		*	R3-9A	Two Way Left Turn	30x36	7.5	*	Mount back to back High Intensity required.
19	80+85		*	R3-9A		30x36	7.5	*	Mount back to back High Intensity required.
			*	R3-9A		30x36	7.5	*	
			*	R3-9A		30x36	7.5	*	

* See Sheet 7.

MADISON AVENUE

JEFFERSON AVENUE



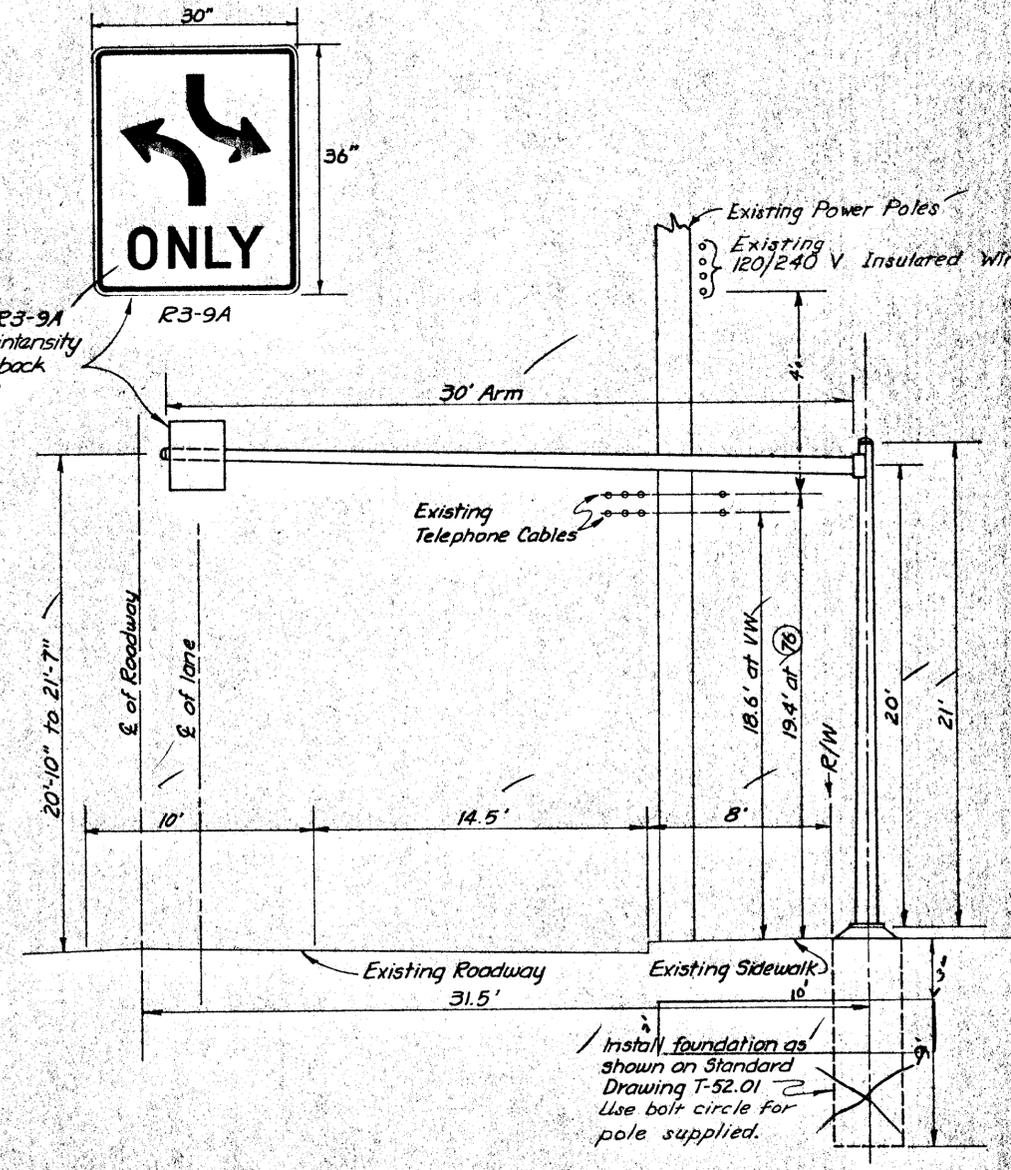
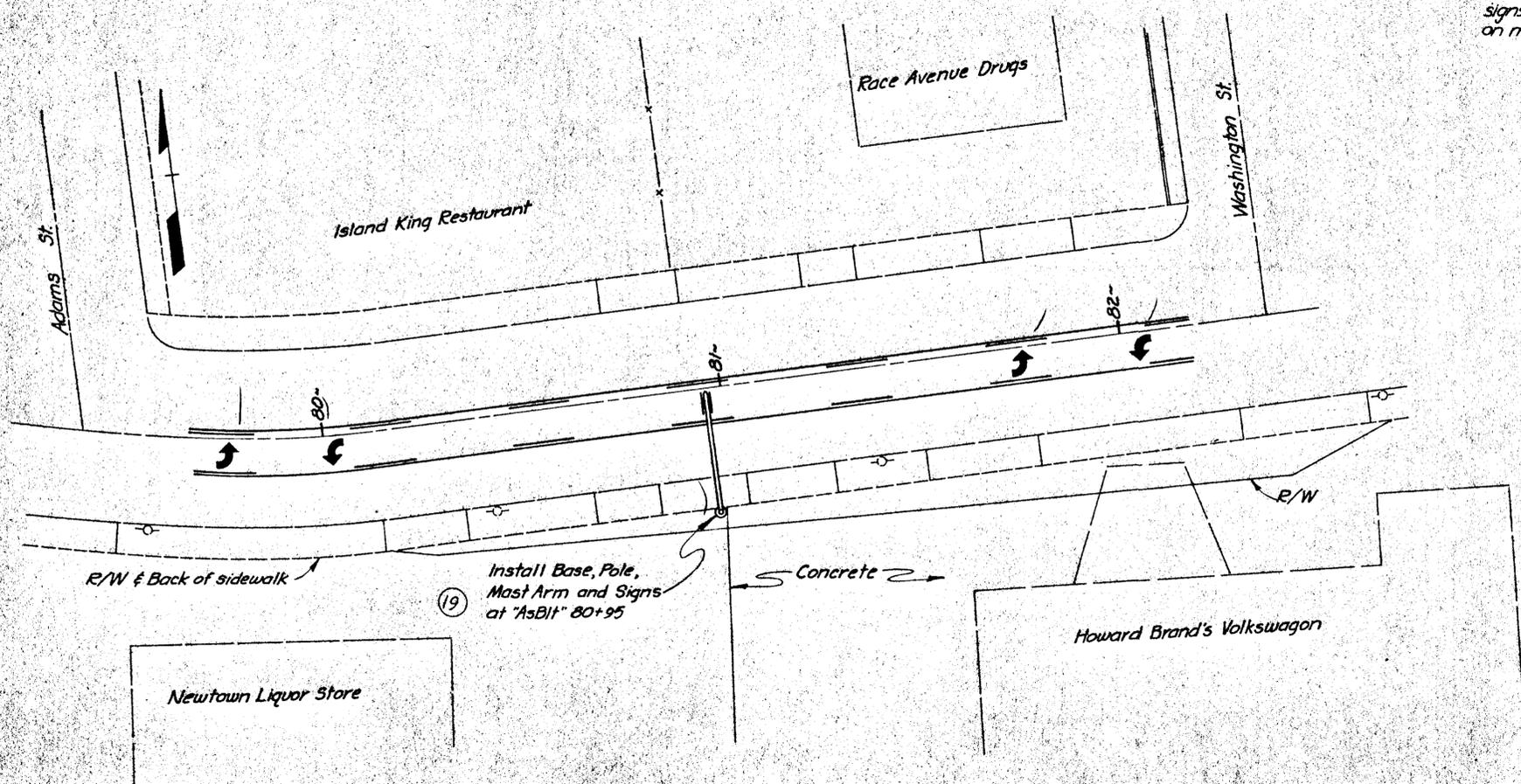
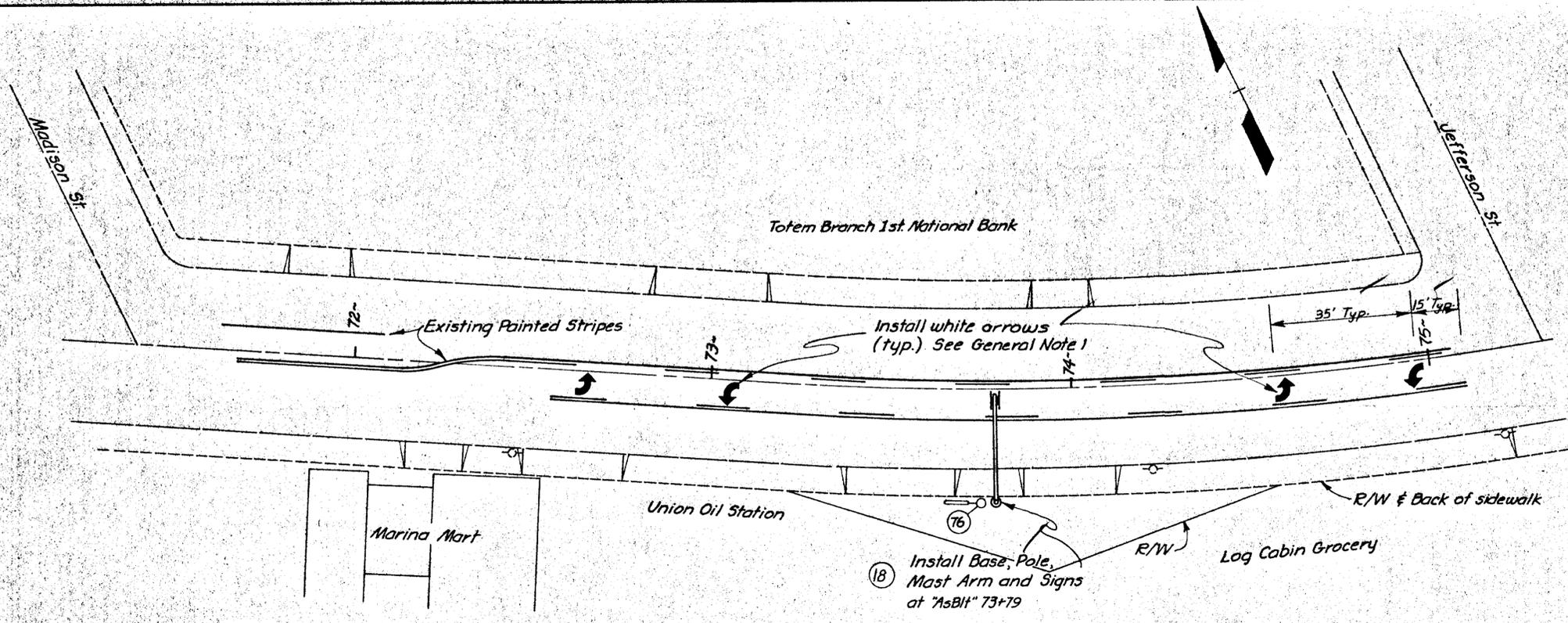
CARLANNA STREET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-M-0902(9)	1979	7	

PLAN AND DETAILS

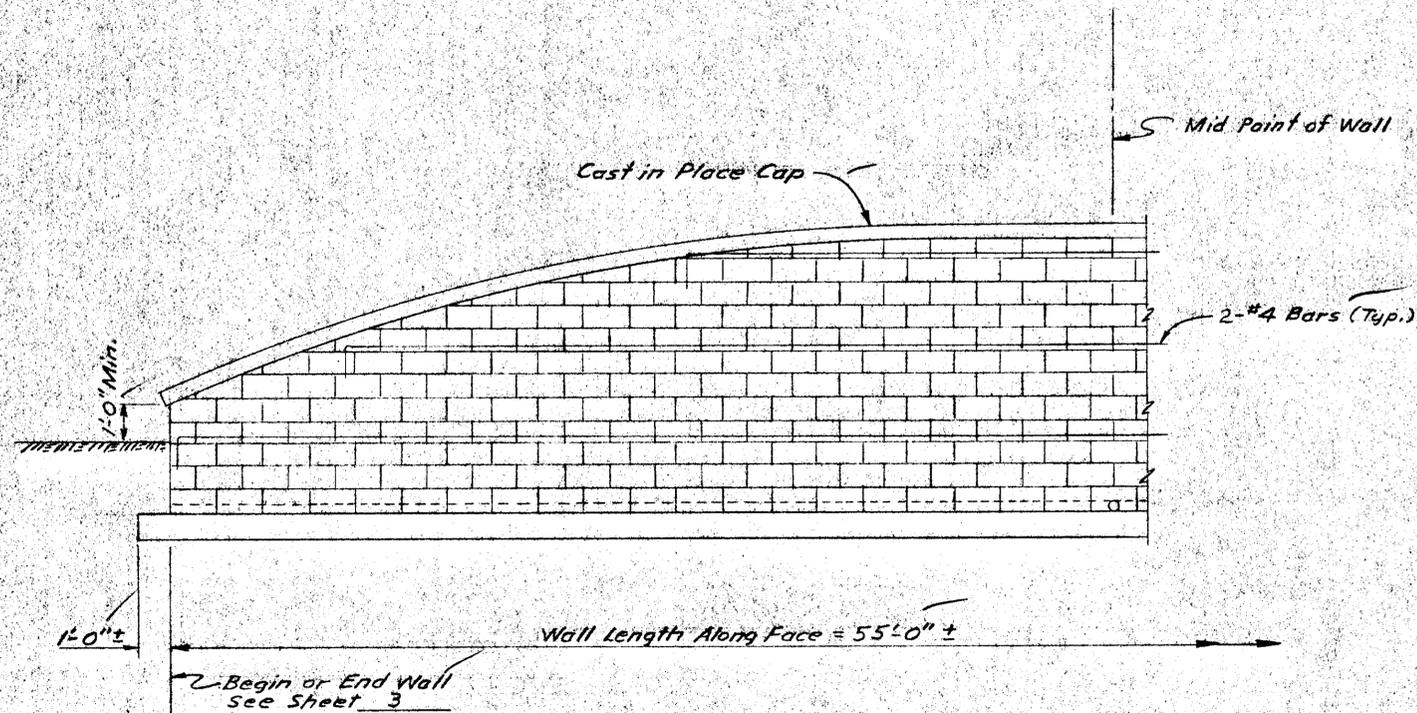
GENERAL NOTES

1. Install white arrows as shown on this plan, plus two arrows mid-block between Jefferson and Adams Streets.
2. Two-way traffic on Tongass Avenue will be maintained at all times. Lane closures and construction signing shall conform to Standard Drawing C-11.03.
3. Design wind load for poles and mast arm shall be 100 miles per hour.
4. The spread footing foundation may be used, but sidewalk repair and back fill shall be incidental to other items of work.
5. Material shall meet the requirements of Standard Drawing T-52.01.

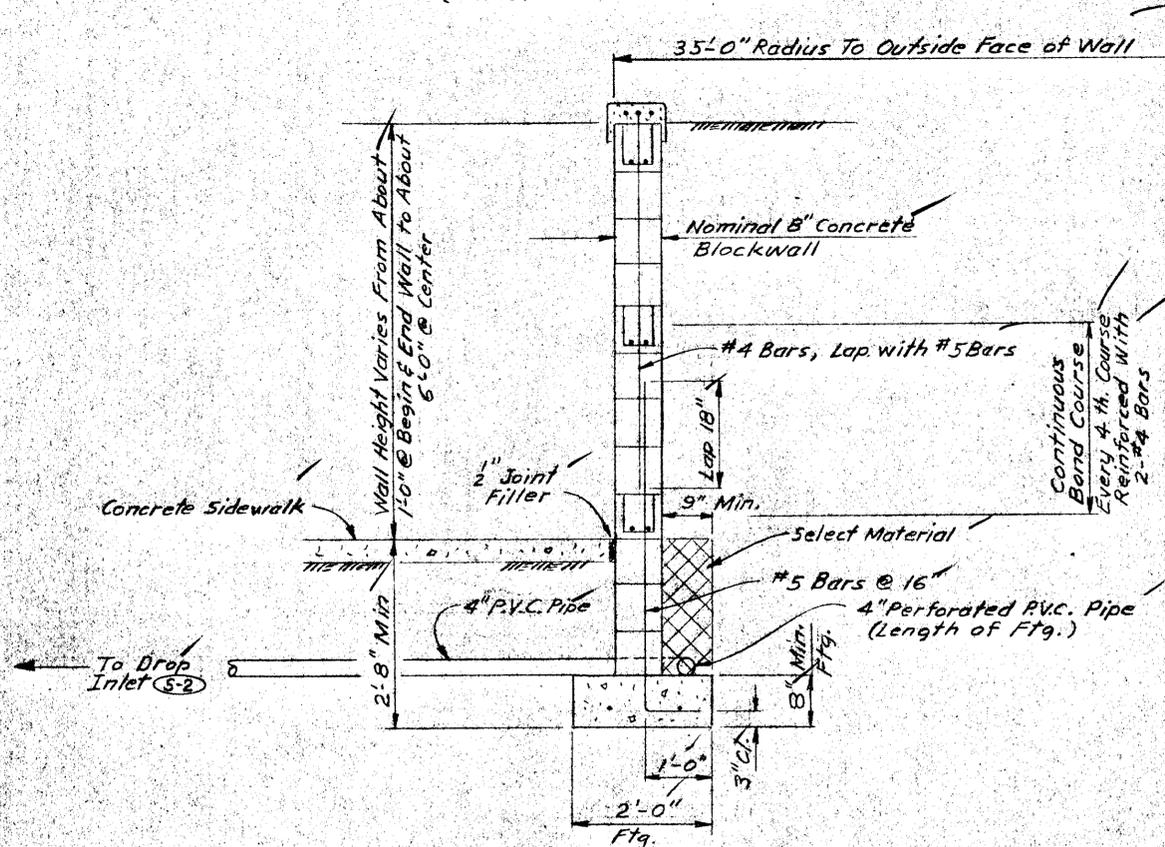


POST & MAST ARM DETAIL

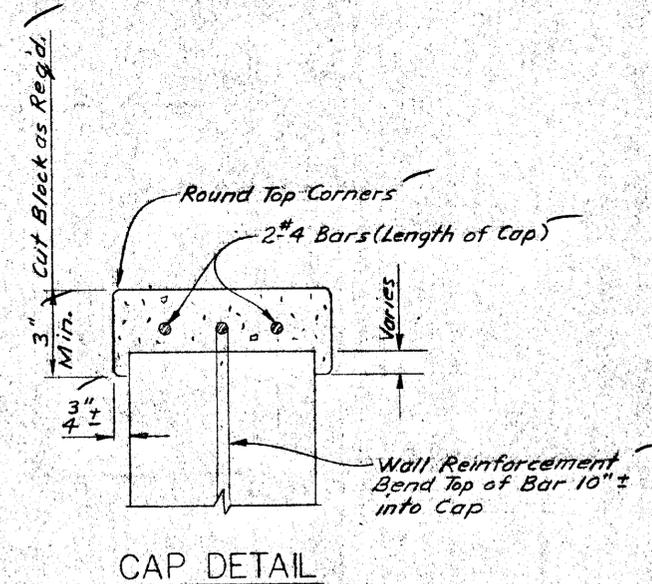
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
ALASKA	HE5-M-0902(9)	1980	8



HALF WALL ELEVATION
(Curvature Not Shown)



TYPICAL SECTION



CAP DETAIL

NOTES

Wall is shown as schematic only. Wall shall be constructed with top to follow existing ground line as directed by the Engineer, but height of unbalanced earth load shall be limited to maximum of 6 1/2 feet. Adjust cap dimensions as directed to form smooth continuous line.

Footing shall be placed on minimum 6 inch depth of compacted gravel.

All footing and cap concrete shall be Class A.

All reinforcing steel shall be Grade 40 or 60. Bars may be field fabricated. Bars may be lap spliced 30 bar diameters unless greater laps are shown.

Concrete block wall is based on nominal 8" x 8" x 16" units. Blocks shall be normal weight concrete with minimum 28 day compressive strength of 1350 psi, conforming to ASTM C90, Grade N.

Grout for bedding blocks shall consist of one part Portland cement, 2 1/4 to 3 parts sand and minimum water necessary to create a workable mix. If desired, not more than 1/10 part hydrated lime may be added to the mix. Joints on exposed face shall be tooled.

Grout for filling cavities and casting bond courses shall consist of one part Portland cement, not more than 1/10 part hydrated lime, 2 to 3 parts sand, not more than 2 parts gravel, and sufficient water to create workable mix. All cavities containing reinforcing steel shall be completely filled with grout. Grout placement in vertical lifts shall not exceed 4 feet, and shall be thoroughly rodded.

Wall shall be backfilled in accordance with the requirements of Section 206-3.03. Unbalanced backfilling above elevation of sidewalk shall not be done until grout has cured a minimum of 14 days.

Subject to Engineer's approval, cap may be formed by hand.

P.V.C. pipe and connection to drop inlet is incidental to retaining wall.

**CONCRETE BLOCK
RETAINING WALL**

TONGASS AVENUE IMPROVEMENT

State of Alaska
DEPARTMENT OF TRANSPORTATION
and PUBLIC FACILITIES
Juneau, Alaska

Date 3-19-80
Approved Karl M. Miller



BRIDGE NO.
DWNG. NO.

Designed by
Checked by
Drawn by
Checked by
Traced by