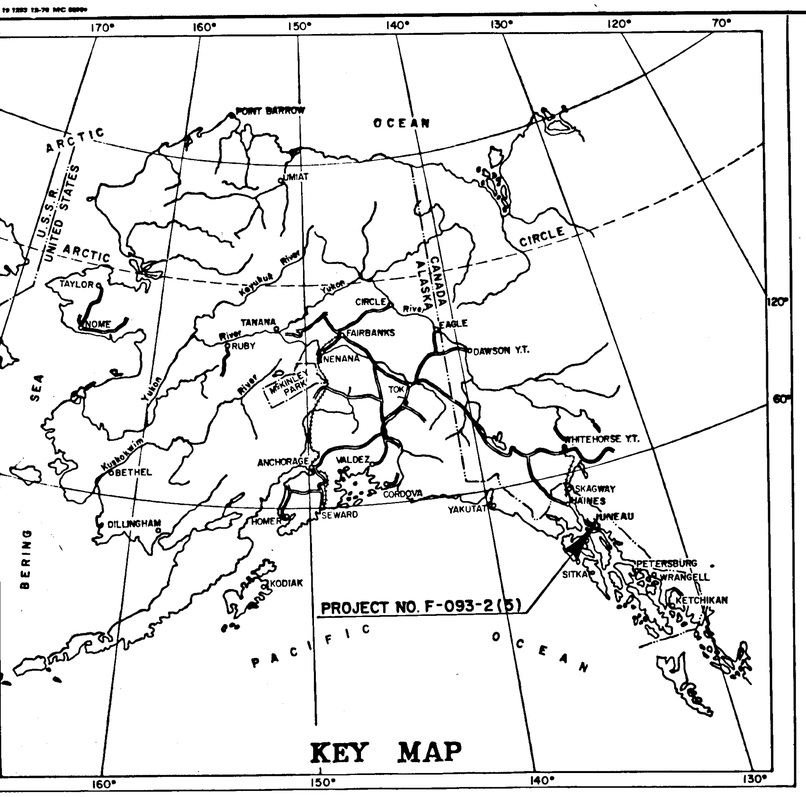
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1	16



KEY MAP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

INTERSECTION OF ADMIRAL WAY & SOUTH FRANKLIN ST.
F-093-2(5)
GRADING, DRAINAGE, PAVING, ILLUMINATION, AND UTILITIES

INDEX OF SHEETS	
1	TITLE SHEET
2	TYPICAL SECTION
3	ESTIMATE & SUMMARIES
4-5	PLAN & PROFILE
6-8	UTILITIES
9	INTERSECTION DETAIL
10-11	DRAINAGE DETAILS
12-15	SIGNING, STRIPING & ILLUMINATION
16	TRAFFIC CONTROL PLAN

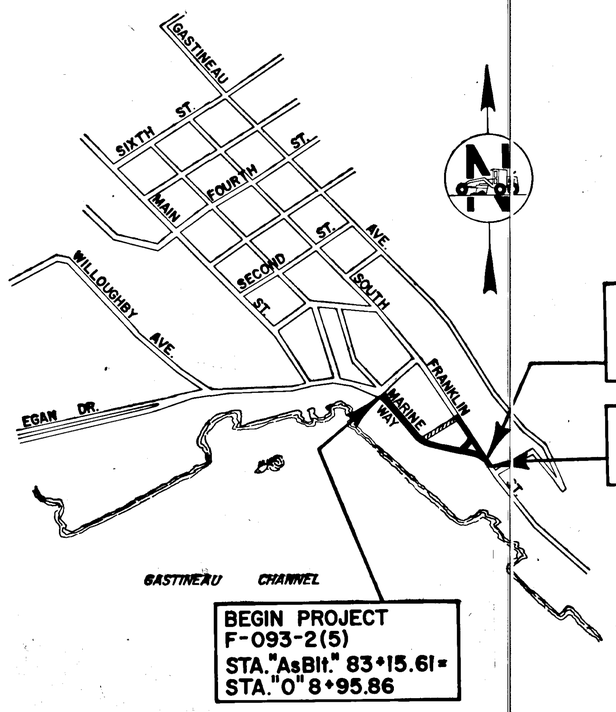
THE FOLLOWING STANDARD DRAWINGS SHALL APPLY TO THIS PROJECT:
A-1, C-00.04, C-10.04, C-11.04, D-01.00, D-04.00, D-20.10, D-23.02, D-26.03, I-20.01, L-03.12, L-10.13, L-23.03, L-30.01, M-16.03, S-00.11, S-05.00, S-20.10, S-30.12, S-41.00, T-20.03, T-21.03, T-22.00, T-30.00, T-32.01, T-52.01, & U-03.00

DESIGN DESIGNATION

ADT 1980	=	4,400
ADT 2000	=	7,000
DHV 13 %	=	910
D	=	60-40
% T	=	13%
T.I.	=	8%
V.	=	20

PROJECT SUMMARY

WIDTH OF ROADBED	=	VARIES, 38' to 48'	
WIDTH OF PAVEMENT	=	VARIES, 24' to 34'	
LENGTH OF GRADING	=	994.53'	= 0.188 mi.
LENGTH OF PAVING	=	1,019.53'	= 0.193 mi.
LENGTH OF PROJECT	=	730.67'	= 0.138 mi.



"AS BUILT" PLAN

PROJECT ENGINEER: PHIL SPEER

CONTRACTOR: RED SAMM CONSTRUCTION

BEGINNING DATE: APRIL 22, 1982

ENDING DATE: JULY 23, 1982

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED Walter K. Williams DATE 5/22/82
Southeastern Region Design/Construction Engineer

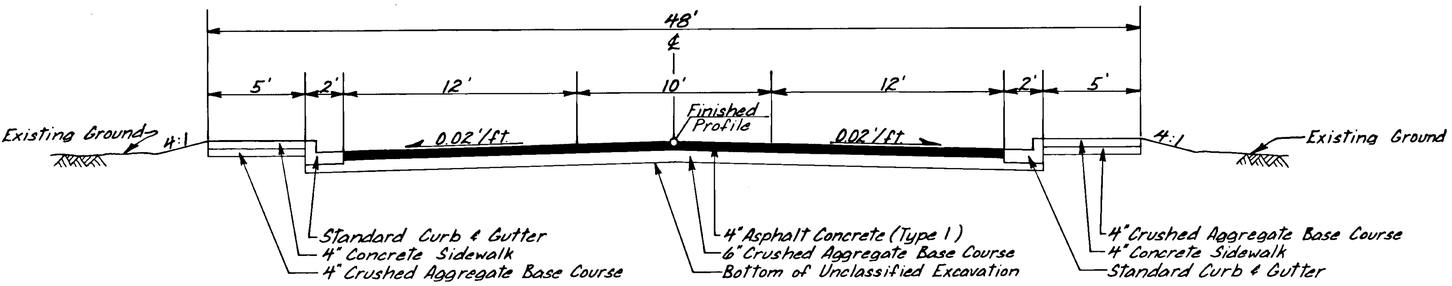
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED Harry Kabler Date 7/12/82
for Director, Highway Design/Construction

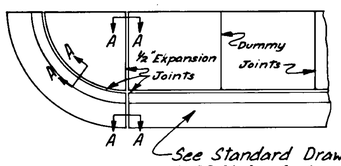
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	2	16

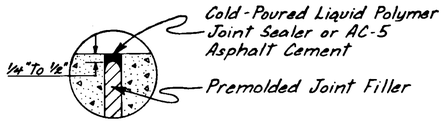
TYPICAL SECTIONS

TYPICAL SECTION
STA. "0" 12+48 to "0" 14+53



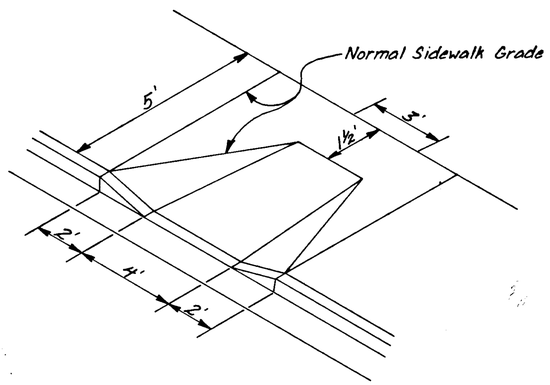
TYPICAL CURB & SIDEWALK JOINT DETAILS

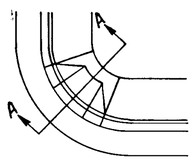


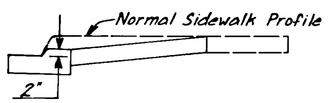


SECTION A-A

WHEELCHAIR RAMP DETAILS







SECTION A-A

GENERAL NOTES

1. Grades & alignment shown on the plans are subject to minor revisions.
2. Curb inlets & culvert lengths & locations are subject to minor revisions.
3. All existing piling encountered within the project limits shall be either removed or cut off 1' below the proposed subgrade. Payment shall be made under Item 202(1) Removal of Structures & Obstructions.
4. Asphalt pavement removal shall be paid for as unclassified excavation.
5. Where the proposed sidewalk abuts existing asphalt that asphalt shall be patched in a workmanlike manner. This work shall be considered incidental to Item 401(1A) Asphalt Pavement Type I & no separate payment shall be made therefore.

SIDEWALK NOTES

1. Premolded expansion joint filler & liquid polymer joint sealer (see specs.) or AC-5 asphalt cement shall be considered incidental to Items 608(1-4) & 608(1-6) Concrete Sidewalk. No separate payment shall be made therefore.
2. Curb & gutter expansion joints shall be at each end of the curb returns & immediately preceding and following all 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; spacing shall not exceed 5'.
4. Wheelchair ramps shall be constructed as detailed on this sheet & shall be constructed at locations designated by a ★ on the plan sheets.
5. Wheelchair ramps shall have a wood float finish or rougher finish & shall have a small curb face of 2".

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	3	16

ESTIMATE OF QUANTITIES AND SUMMARY TABLES

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
109(1)	Petroleum Escalation NOT USED	C.S.	All Req'd.
110(1)	Mobilization	L.S.	All Req'd.
111(1)	Temporary Erosion & Pollution Control NOT USED	L.S.	" "
113(1)	Flagging	M.H.	~~100~~ 140
114(1)	Construction Surveying by the Contractor	L.S.	All Req'd.
115(1)	Traffic Maintenance	L.S.	" "
116(1)	Furnishing & Maintaining Field Office	L.S.	" "
116(2)	Furnishing & Maintaining Field Laboratory	L.S.	" "
202(1)	Removal of Structures and Obstructions	L.S.	" "
202(2)	Removal of Pavement	S.Y.	~~2886~~ 20833
202(3)	Removal of Sidewalk	S.Y.	~~325~~ 337
202(5)	Removal of Manholes	EA.	1
202(7)	Removal of Inlets	EA.	~~10~~ 9
202(8)	Removal of Curb and Gutter	L.F.	~~649~~ 741
203(3A)	Unclassified Excavation	L.S.	All Req'd.
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 NOT USED	L.S.	" "
604(5A)	Special Inlet Drainage		
403(2A)	MC-30 Liquid Asphalt for Prime Coat	L.S.	All Req'd.
603(13-12)	12" Corrugated Aluminum Pipe	L.F.	~~488~~ 517
603(13-18)	18" Corrugated Aluminum Pipe	L.F.	~~334~~ 356
604(1)	Storm Sewer Manhole	EA.	1
604(4)	Adjust Existing Manholes	EA.	6
604(5)	Inlets	EA.	10
608(1-4)	Concrete Sidewalk, 4" Depth	S.Y.	~~589~~ 505.1
608(1-6)	Concrete Sidewalk, 6" Depth	S.Y.	~~210~~ 228.2
609(2)	Curb & Gutter, Type Standard	L.F.	~~1598~~ 1659
614(1)	Survey Monuments	EA.	4
614(2)	Monument Cases	EA.	5
614(3A)	Adjust Existing Monuments	EA.	~~21~~ 1
615(1)	Standard Sign	S.F.	~~1233~~ 159.4
626(2)	15" P.V.C. Sewer Conduit	L.F.	216
628(2)	8" Ductile Iron Water Conduit	L.F.	316
628(7)	Fire Hydrant Relocation	EA.	2
628(11)	Adjustment of Valve Boxes	EA.	~~7~~ 8
660(3)	Highway Lighting System, Complete	L.S.	All Req'd
670(6)	Thermoplastic Pavement Markings	L.S.	" "
681(1)	Electrical Power System	L.S.	" "

ESTIMATE OF ROADWAY QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
203(3A)	Unclassified Excavation	C.Y.	1,050
301(1A)	Crushed Aggregate Base Course	Ton	1,484
401(1A)	Asphalt Concrete (Type I)	Ton	914
401(2A)	AC-5 Asphalt Cement	Ton	55
402(2)	CSS-1 Asphalt for Tack Coat	Ton	1.8
403(2A)	MC-30 Liquid Asphalt for Prime Coat	Ton	45
670(6)	See sht. 13		

BASIS OF ESTIMATE

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

* Diluted

INLET REMOVAL SUMMARY

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
"O" 9+74		15'	
"O" 10+65	19'		
"O" 10+95	19'		Deleted-See book No.4, pg 35
"O" 11+04		12'	
"O" 11+55	18'		
"Y" 9+78		15'	
"Y" 9+90	15'		
"Y" 10+27		18'	
"Y" 11+65		15'	
"Y" 11+89	16'		
"O" 14+07	19'		See Book No.4, Page 39

CURB CUT SUMMARY

STATION	WIDTH LEFT	WIDTH RIGHT	REMARKS
"O" 10+12	74'		
"O" 10+51		50'	
"O" 11+23	17'		
"O" 11+64	30'		
"O" 11+79 to "O" 12+34	97'		~~Depressed Curb~~ ~~Mountable Curb~~ w/6" Sidewalk
"O" 13+55		32'	
"O" 13+60	24'		
"Y" 10+20.50		24'	
"Y" 11+78	10'		
"Y" 12+93	~~11~~ 18'		Match Existing

MANHOLE ADJUSTMENT SUMMARY

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
"O" 9+05	2'		
"O" 12+24		21'	
"O" 12+27		24'	
"X" 12+97	℄	℄	
"X" 14+18	3'		
"Y" 9+96	13'		

MANHOLE REMOVAL SUMMARY

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
"O" 12+11		19'	Remove after new water line is installed.

SEWER MAIN INSTALLATION SUMMARY

STATION TO STATION	LENGTH	OFFSET	DIA.	REMARKS
M.H. "A" to M.H. "B"	95'		15"	P.V.C.
M.H. "B" to M.H. "C"	121'		15"	P.V.C

FIRE HYDRANT RELOCATION SUMMARY

STATION	EXISTING LOCATION	PROPOSED LOCATION	REMARKS
"O" 10+75	17' Lt.	20' Lt.	
"O" ~~12+07~~ 12+05	19.5' Rt.	~~22' Rt.~~ 21' Rt.	

WATER MAIN INSTALLATION SUMMARY

STATION TO STATION	LENGTH	OFFSET	DIA.	REMARKS *
"O" 9+03 to "O" 12+24	316'	Varies	8" D.I.	
"O" 10+75		11' Rt.	8"×8"×6"	Tee
"O" 12+06		℄	8"×8"×6"	Tee
"O" 12+15		5' Rt.	8"	Gate Valve & Valve Box
"O" 12+21		9' Rt.	8"×10"	Reducer
"O" 12+23		10' Rt.	10"	90° Elbow

* See Notes on this Sheet.

MONUMENT SUMMARY

STATION	LOCATION	REMARKS	MON	CASE
"O" 8+95.86	℄	P.O.T.	X	X
"O" 11+37.28	℄	P.C.	X	X
~~"O" 12+20.00~~	~~10' Rt.~~	~~Deleted Adjust~~		~~X~~
"O" 12+36.78	℄	P.T.	X	X
"O" 14+30.00	℄	P.O.T.	X	X
"X" 14+09.00	14' Lt.	Adjust		

See page 32, book No. 10

VALVE ADJUSTMENT SUMMARY

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
"O" 9+02.50	11'		
"O" 9+06.50	7'		
"O" 9+08.50	11'		
"O" 15+44	21'		
"O" 12+32		4'	
"Y" 9+92	6'		
"Y" 9+92	9'		
"X" 13+01	9.5'		New Valve Box

NOTES

1. Water main appurtenances shall not be paid for directly but shall be considered incidental to Item 628(2) 8" Ductile Iron Water Conduit.

ELECTRICAL POWER SYSTEM SUMMARY

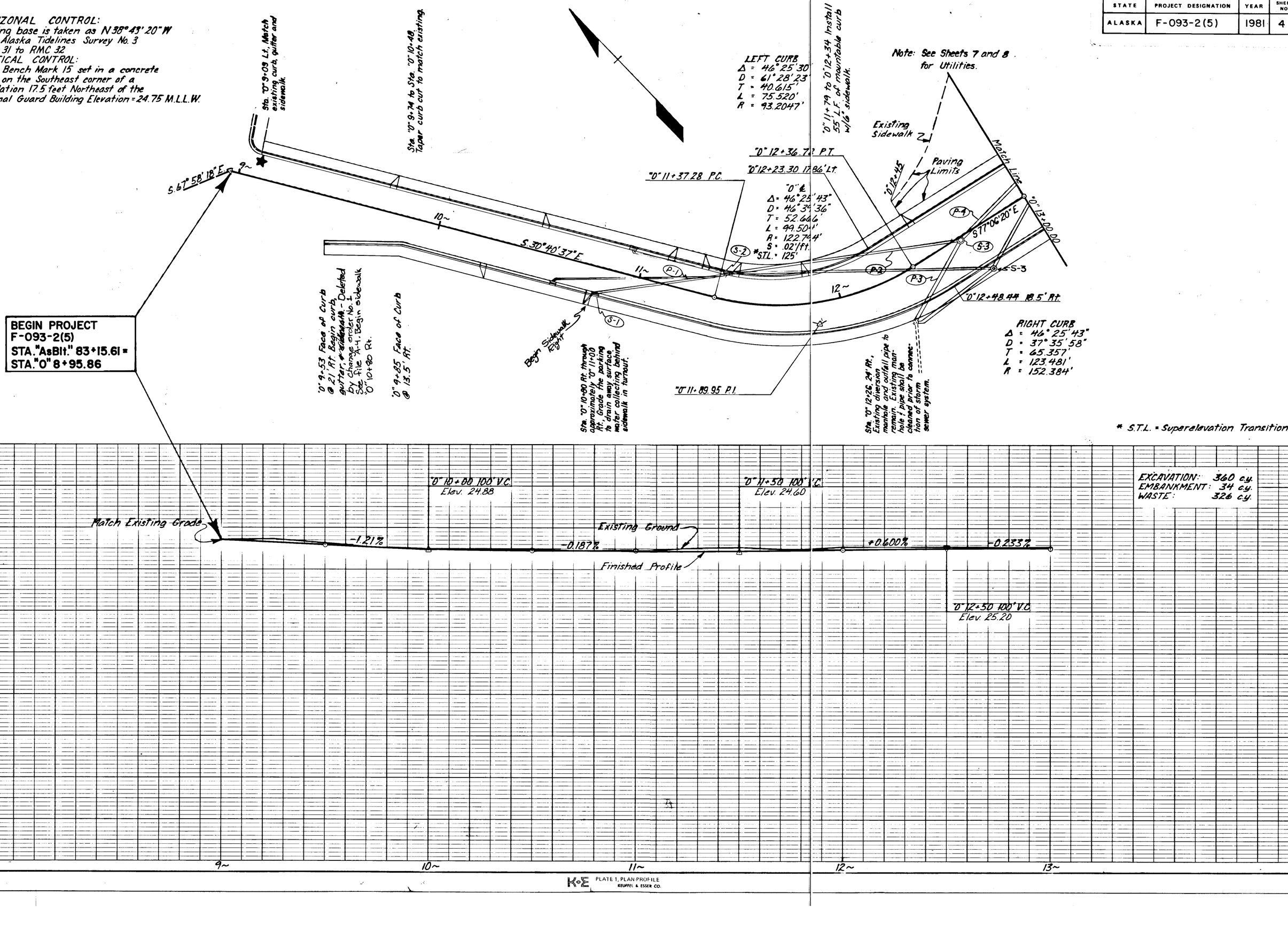
DESCRIPTION	UNIT	QUANT.
Class "A" Concrete 3% C.A. for duct	C.Y.	80
4" Polyvinyl Chloride Pipe	L.F.	1400
5" Polyvinyl Chloride Pipe	L.F.	1050
2" Polyvinyl Chloride Pipe	L.F.	~~100~~ 385' See EWO*
350 KCM XLP Wire	L.F.	1965
750 KCM XLP Wire	L.F.	1335
1/0 XLP Wire	L.F.	350
2/0 XLP Wire	L.F.	665
3/0 XLP Wire	L.F.	700
4/0 XLP Wire	L.F.	445
4" Rigid Steel Conduit	L.F.	32

ELECTRICAL CONNECTIONS SCHEDULE

NO.	FROM	TO	WIRE SIZE	DISTANCE	TOTAL LENGTH	SERVICE TYPE	CONDUIT SIZE	CONDUIT LENGTH	REMARKS
1.	Switch "X" 8+50, 60' Lt.	Transformer "O" 12+12, 25' Rt.	3#750 KCM 1#4/0 XLP	445 445	1335 445	15 KV 600V	5"	425	
2.	Transformer "O" 12+12, 25' Lt.	Service "O" 9+95, 25' Lt.	3#350 KCM 1#2/0 XLP	290 290	870 290	1ø, 3ø 600V	4"	270	
3.	Transformer "O" 12+12, 25' Lt.	Service "O" 11+56, 73' Lt.	3#350 KCM 1#2/0 XLP	195 195	585 195	1ø 600V	4"	175	
4.	Transformer "O" 12+12, 25' Lt.	Service "X" 13+31, 27' Lt.	3#350 KCM 1#2/0 XLP	170 170	510 170	1ø, 3ø 600V	4"	150	Through Vault at Sta. "X" 13+31, 13' Lt.
5.	Transformer "O" 12+12, 25' Lt.	Service "X" 13+38, 20' Lt.	2#3/0 XLP 1#1/0 XLP	180 180	360 180	1ø 600 V	4"	160	Through Vault at Sta. "X" 13+31, 13' Lt.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	4	16

HORIZONAL CONTROL:
Bearing base is taken as N 38°43'20" W from Alaska Tidelines Survey No. 3 RMC 31 to RMC 32
VERTICAL CONTROL:
Tidal Bench Mark 15 set in a concrete block on the Southeast corner of a foundation 17.5 feet Northeast of the National Guard Building Elevation = 24.75 M.L.L.W.



* S.T.L. = Superelevation Transition Length

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	5	16

Existing structure & pipe to remain.

℄ Pt "Y" 12+36.20 = 03°04'28" Lt. = "D" 15+62.73 P.T.

Paving Limits "Y" 9+77.00

S-10, S-11, P-12, P-10, P-9, S-9

N 30°04'30" W

N 33°08'58" W.

Paving Limits

4" Base Course & 1½" Asphalt Pavement deleted per CBJ's Request

"Y" 10+56.83 P.O.T. = "D" 0+91.12

N 12°33'40" E

S-7, P-7, S-8, P-8, P-11, S-6

4" Base Course & 1½" Asphalt Pavement to back of Sidewalk

Grade

Grade

Sta. "Y" 9+77 Rt. Match existing curb, gutter and sidewalk.

Sta. "Y" 11+00 Lt. Match existing curb, gutter and sidewalk.

Sta. "Y" 12+40 Rt., Match existing curb, gutter and sidewalk.

Sta. "Y" 13+00 Lt., Match existing curb, gutter and sidewalk.

"D"
Δ = 43°57'22"
D = 40°
T = 57.808'
L = 109.890'
R = 143.239
S = .020'/ft.
*S.T.L. = 150'

"D" 14+52.84 P.C.

14'

15'

12'

13'

P-6, S-4, P-5, S-5

"D" 14+30.00 P.O.T. = "D" 0+00.00

S 77°06'20" E

Match Line

"D" 13+00.00

Note: See Intersection Detail, Sheet No. 9.

NOTE: See Sheets 7 & 8 for Utilities.

*S.T.L.: Superelevation Transition Length

END OF PROJECT
BEGIN TEMPORARY CONNECTION
F-093-2(5)
STA. "Y" 13+00.00

END TEMPORARY CONNECTION
F-093-2(5)
STA. "Y" 13+25.00

"D" 14+00 100' V.C. Elev. 24.85

Existing Ground

Finished Profile

-0.233%

+0.697%

+0.039%

-0.097%

Match Existing Grade

"D" 15+62.73 = "Y" 12+36.20 100' V.C. Elev. 25.98

"Y" 12+88 No V.C. Elev. 26.00

"D" 0+17 No V.C. Elev. 25.09

-0.177%

+0.934%

Existing Ground

Finished Profile

"D" 0+00 = "D" 14+30 Elev. 25.06

"D" 0+91.12 = "Y" 10+56.83 Elev. 25.76

"D" LINE PROFILE

EXCAVATION: 690 c.y.
EMBANKMENT: 0 c.y.
WASTE: 690 c.y.

"D" 15+62.73 = "Y" 12+36.20 x 14'

30, 25, 20

13+

14+

15+

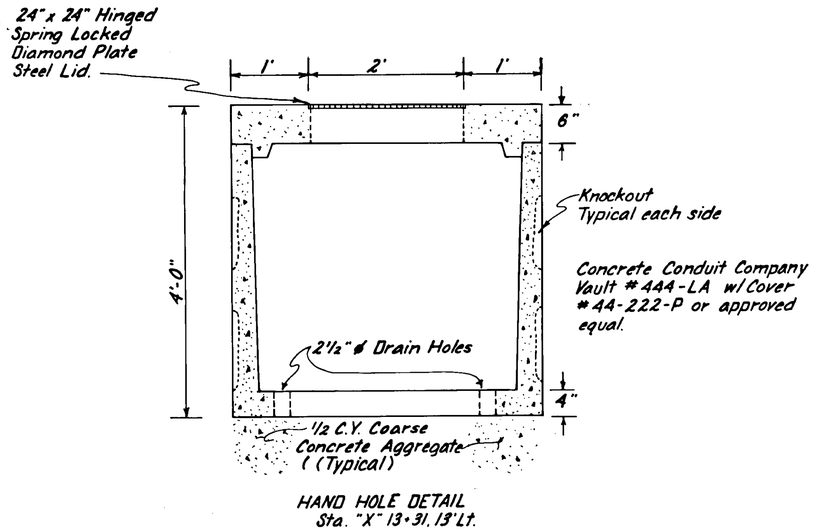
3+

13+50

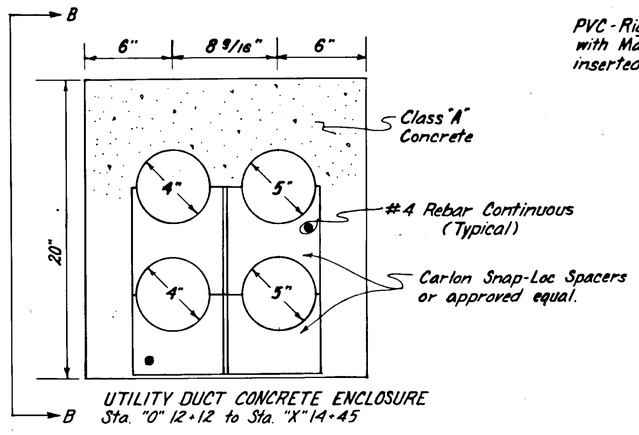
K&E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	6	16

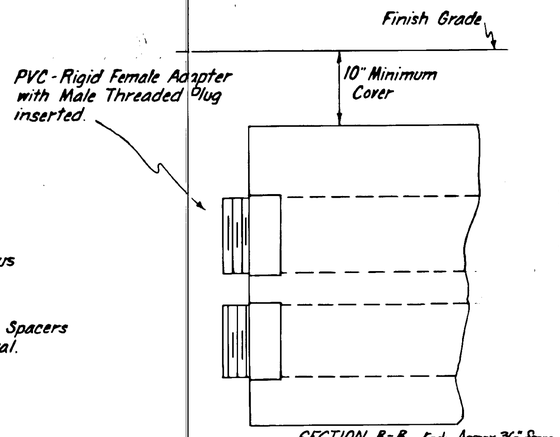
UTILITIES DETAIL



HAND HOLE DETAIL
Sta. "X" 13+31, 13'Lt.



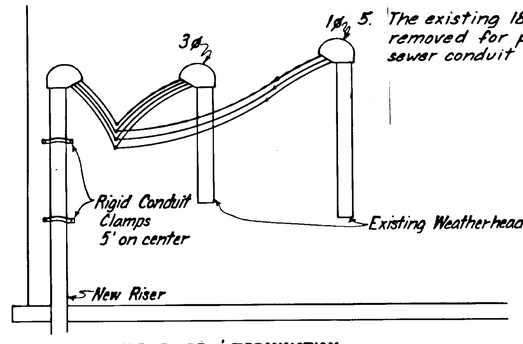
UTILITY DUCT CONCRETE ENCLOSURE
Sta. "0" 12+12 to Sta. "X" 14+45



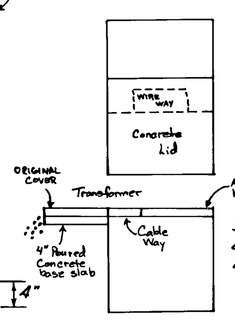
SECTION B-B
END DETAIL
Ends Approx. 36" from base of pole.
"X" 14+45, 17' Lt. & "0" 12+90, 74' Rt.

UTILITY GENERAL NOTES

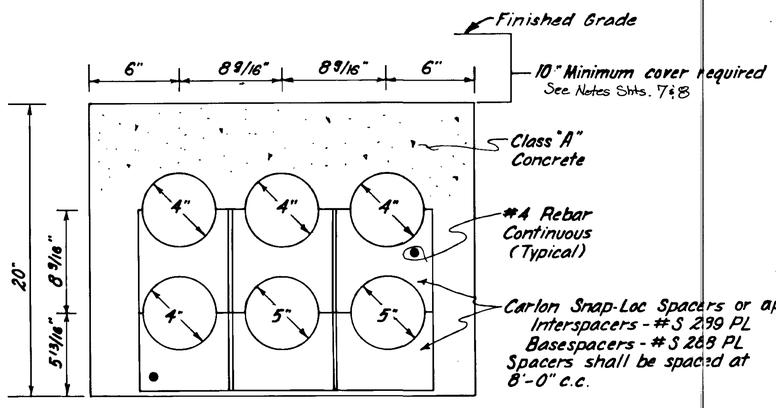
1. The 8" D.I. water line shall be installed at a depth of five (5) feet below the finish grade elevation. Minor adjustments may be permitted as approved by the engineer.
2. Existing storm drainage pipes that connect curb inlets to the sanitary sewer shall be capped and abandoned as directed by the engineer.
3. The contractor shall submit shop drawings showing the forming and tie down details for the construction of the Utility Ducts. The shop drawings shall be approved by the engineer prior to the placement of Class W Concrete.
4. Excavation, Bedding and Backfill for the conduit systems shall conform to Sections 203 and 205 and shall be considered incidental to Item 681 Electrial Power System Lump Sum.
5. The existing 18" A.C. sewer conduit is to be removed for placement of new 15" P.V.C. sewer conduit between manholes "A" & "C".



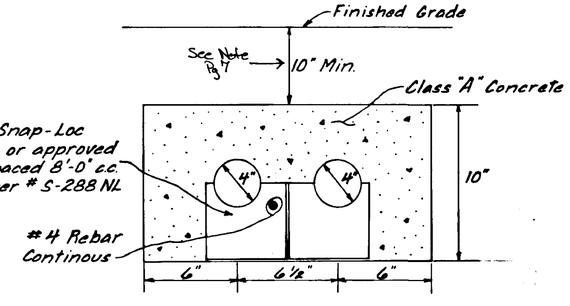
POWER RISER & TERMINATION



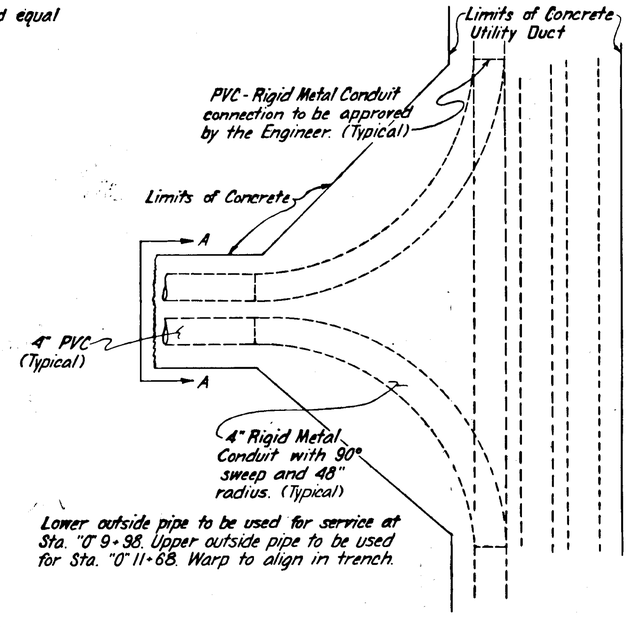
VAULT DETAIL
Sta. "0" 12+12.25' Rt.



UTILITY DUCT CONCRETE ENCLOSURES
Sta. "0" 9+50 to Sta. "0" 12+12



SECTION A-A
SERVICE DUCT CONCRETE ENCLOSURE



Lower outside pipe to be used for service at Sta. "0" 9+98. Upper outside pipe to be used for Sta. "0" 11+68. Warp to align in trench.

Addendum No. 1, Attachment No. 2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	7	16

UTILITIES

For Drainage Details, See Sheets 4 & 5

Addendum No. 1, Attachment No. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	8	16

UTILITIES

See Sheet 6 for Capping Details

"X" 14+31.32 = "Y" 10+00.00

"Y" 10+56.83 P.O.T. = "D" 0+91.12

Existing Pipe to remain
Existing Structure to remain
Water Meters to be Re-located by others

Sta. "O" 15+44.21 Lt., Adjust Valve Box

℄ P.T. "Y" 12+36.20 = 03°04'28" Lt. = "O" 15+62.73 P.T.

Sta. "Y" 9+92, 6' Lt. and 9' Lt., Adjust Valve Boxes.

Sta. "X" 14+18, 3' Lt., Adjust manhole.

Sta. "Y" 9+96, 13' Lt., Adjust manhole.

Sta. "X" 14+05, Reconnect sewer service.

Sta. "X" 13+80, Abandon sewer service. Cap end of service pipe.

Sta. "X" 13+60, Reconnect sewer service.

Sta. "X" 13+31, 13' Lt., Install Hand Hole, Concrete Conduit Co., Vault # 444-LA, with cover # 44-222-P or Approved Equal.

Duct run 3" before top of gutter pan

M.H. "C"

11~ N. 30°04'30" W. 12~ 13~ N. 33°08'58" W. 14~

20" HIGH PRESSURE

(2-5"P) (2-4"P) In Concrete Enclosure

Existing 18" Sewer

N. 12°53'40" E.

Relocated Timbers (Typ.)

1-4" P in R.M.C.

N. 40°53'55" E.

Proposed 15" PVC Sewer

"O" 14+52.84 P.C.

"O" 14+30.00 P.O.T. = "D" 0+00.00

14~

5' Typ.

S. 77°06'20" E.

Match Line "O" 13+00.00

"O"
Δ = 43°57'22"
D = 40°
T = 57.808'
L = 109.890'
R = 143.239'

END OF PROJECT
BEGIN TEMPORARY CONNECTION
F-093-2(5)
STA. "Y" 13+00.00

END TEMPORARY CONNECTION
F-093-2(5)
STA. "Y" 13+25.00

See Hand Hole Detail, This Sht.

2-4" P. & 2-5" P. In Concrete Enclosure

2-4" P. In Conc. Enclosure

1-4" P. In R.M.C.

Hand Hole

2-5" P. In Conc. Enclosure. Warp Around Hand Hole

2-4" P. In Conc. Enclosure

2-4" P. & 2-5" P. In Concrete Enclosure

HAND HOLE DETAIL
STA. "X" 13+31, 13' LT.
No Scale

"O" 14+00 100' V.C.
Elev. 24.85

"O" 15+62.73 = "Y" 12+36.20
100' V.C. Elev. 25.98

"Y" 12+88 No V.C.
Elev. 26.00

Existing Ground

-0.233%

+0.694%

+0.039%

Finished Profile

Match Existing Grade

30
20
10

13~ 14~ 15~

"X" LINE PROFILE

Exist. Profile

M.H. "C"

Match Line

Exist. 18" Sewer 0.008%

Exist. 12" Sewer

Proposed 15" x 121' P.V.C. Sewer

Inv. Elev. 16.92

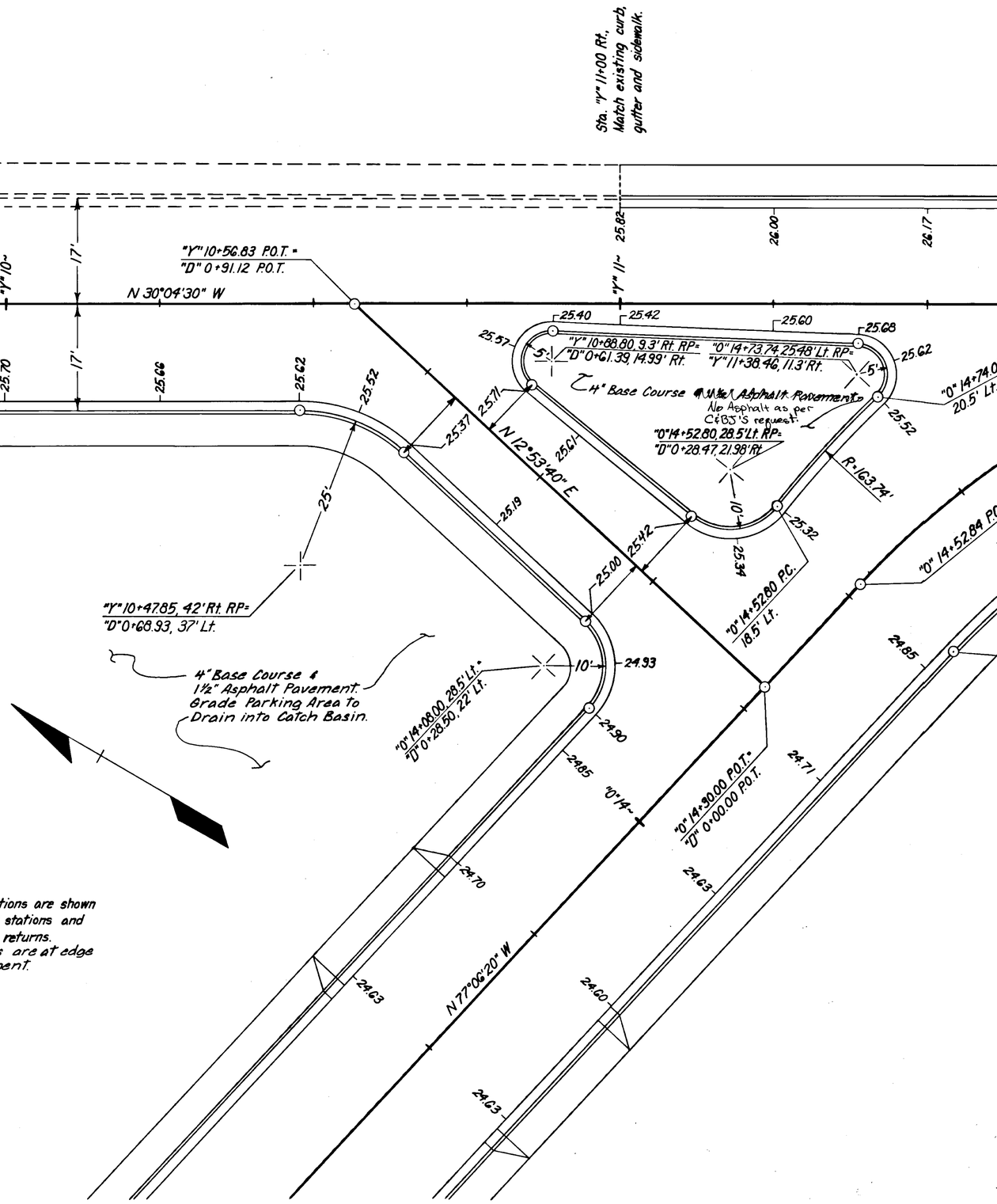
"O" 15+62.73 P.T. = "Y" 12+36.20 ℄ P.T.

13~ 13+50

HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
TELEDYNE
PRINTED IN U.S.A.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
ALASKA	F-093-2(5)	1981	9	16

INTERSECTION DETAIL



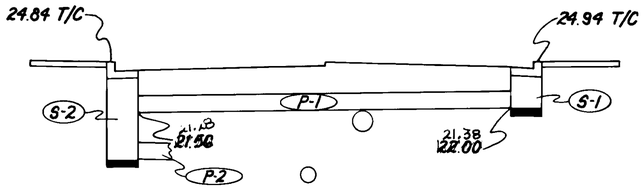
Note: Elevations are shown on even 25' stations and along curb returns. Elevations are at edge of pavement.

"0" Left Curb	"0" Right Curb	"0" Center Line
Δ = 8°29'37"	Δ = 43°57'22"	Δ = 43°57'22"
D = 34°59'31"	D = 45°55'57"	D = 40°00'00"
T = 12.16'	T = 50.34'	T = 57.81'
L = 24.27'	L = 95.70'	L = 109.89'
R = 163.74'	R = 124.74'	R = 143.24'

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	10	16

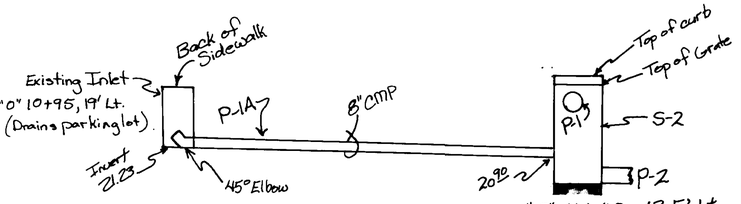
DRAINAGE DETAILS

P-1A: Special Inlet Drainage
See Extra Work Order No. 2



"0" 11+40, 13.5' Lt.

"0" 10+54, 13.5' Rt.

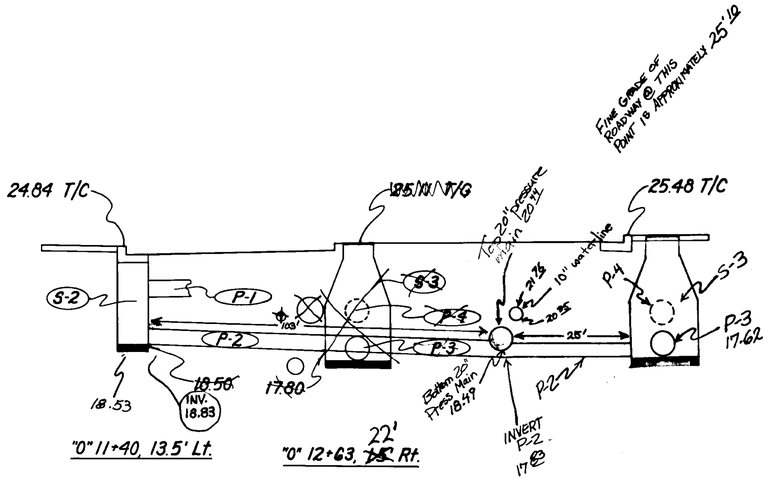


"0" 11+40, 13.5' Lt

INLET SUMMARY

Structure	Type	Location	Offset Left	Offset Right	Top Curb Elev.	Invert Elev.	
S-1	"A" Curb	"0" 10+54		13.5'	24.94	~~22.00~~	21.38
S-2	"A" Curb	"0" 11+40	13.5'		24.84	18.50	
S-3	Manhole	"0" 12+63		~~15~~ 22'	25.11*	~~17.50~~	17.62
S-4	"A" Curb	"0" 13+48	18.5'		25.13	20.40	
S-5	"A" Curb	"0" 13+78		18.5'	25.00	21.60	
S-6	"A" Field	"0" 13+56	64'		24.60*	21.20	

* Elevation to Top of Grate



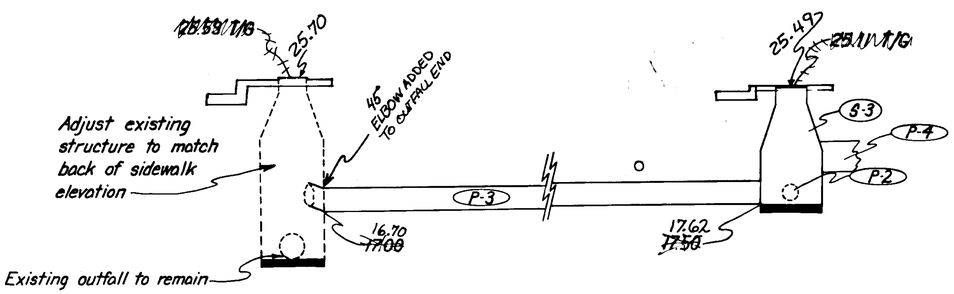
"0" 11+40, 13.5' Lt.

"0" 12+63, ~~15~~ 22' Rt.

PIPE SUMMARY

Pipe	Dia.	Length	From Struc./Sta.	From Elev.	To Struc./Sta.	To Elev.	
P-1	12"	~~90~~ 85'	S-1	22.00~~30~~	S-2	21.~~36~~86	
P-2	12"	~~119~~ 134'	S-2	18.~~50~~80	S-3	17.~~80~~67	
P-3	18"	~~46~~ 44'	S-3	17.~~50~~62	"0" 12+26, 24' Rt.*	~~17.00~~	16.70
P-4	18"	~~82~~ 84'	S-4	20.~~40~~44	S-3	19.~~60~~79	
P-5	18"	48'	S-5	21.~~60~~51	S-4	21.~~40~~12	
P-6	18"	~~46~~ 48'	S-6	21.~~20~~26	S-4	20.~~60~~48	

* Existing Structure

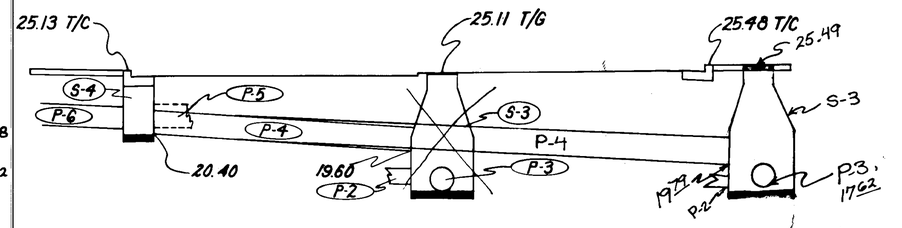


"0" 12+26, 24' Rt.

"0" 12+63, ~~15~~ 22' Rt.

DRAINAGE GENERAL NOTES

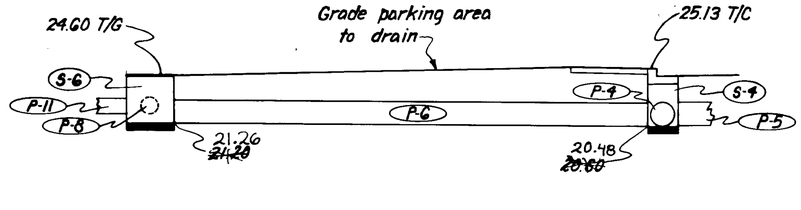
1. Curb inlet offsets are shown to face of curb. Field inlet and manhole offsets are shown to center of structure.
2. All work and materials involved in the cleaning of and connection to existing structures shall be considered incidental to the pipe conduit involved and no separate payment shall be made therefore.
3. All pipe conduit shall be aluminum.
4. The Contractor shall be responsible for field location of existing utilities.
5. Pipe conduit lengths and locations are approximate only and are subject to field adjustment.



"0" 13+48, 18.5' Lt.

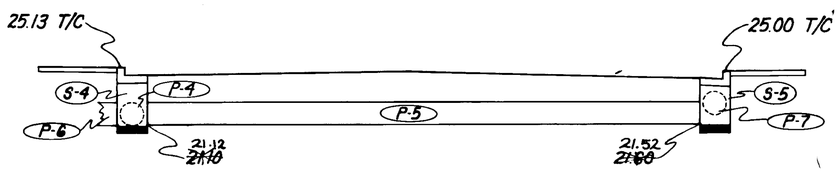
"0" ~~12+63, 15' Rt.~~

"0" 12+63, 22' Rt.



"0" 13+56, 64' Lt.

"0" 13+48, 18.5' Lt.

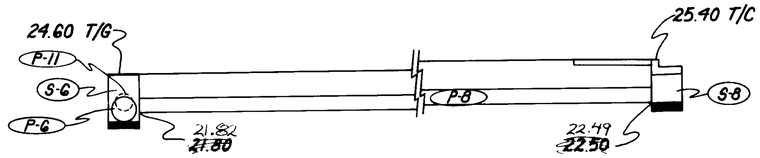


"0" 13+48, 18.5' Lt.

"0" 13+78, 18.5' Rt.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	11	16

DRAINAGE DETAILS

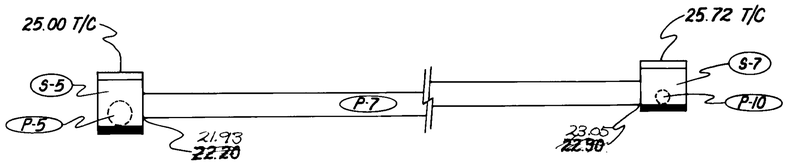


"0" 13+56, 64' Lt.

"0" 0+30, 12' Lt.

INLET SUMMARY

Structure	Type	Location	Offset Left	Offset Right	Top Curb Elev.	Invert Elev.
S-7	"A" Curb	"0" 15+15		17.65'	25.72	22.90
S-8	"A" Curb	"0" 0+30	12'		25.40	22.50
S-9	"A" Curb	"Y" 10+92	4'	4'	25.80	22.90
S-10	"A" Curb	"Y" 9+90	15.5'		26.24	22.60
S-11	"A" Curb	"Y" 9+79		15.5'	25.73	22.30



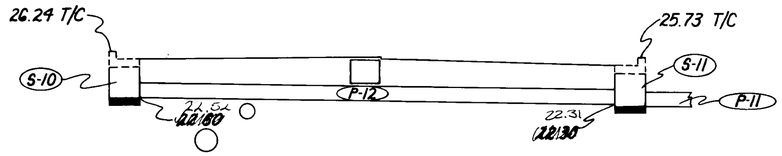
"0" 13+78, 18.5' Rt.

"0" 15+15, 17.65' Rt.

PIPE SUMMARY

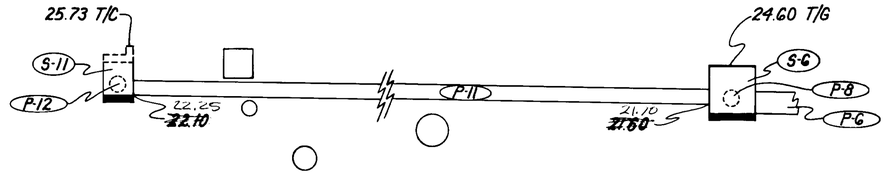
Pipe	Dia.	Length	From Struc./Sta.	From Elev.	To Struc./Sta.	To Elev.	
P-7	18"	132'	S-7	~~22.90~~ 23.05	S-5	~~22.20~~	21.93
P-8	12"	~~70'~~ 78'	S-8	~~22.50~~ 22.49	S-6	~~21.80~~	21.82
P-9	12"	60'46'	S-9	~~22.90~~ 23.30	S-8	~~22.65~~	22.49
P-10	12"	~~46'~~ 59'	"Y" 11+66.24' Lt.*	~~23.50~~ 23.35	S-7	~~22.90~~	22.94
P-11	12"	~~74'~~ 81'	S-11	~~22.10~~ 22.25	S-6	~~21.80~~	21.70
P-12	12"	34'	S-10	~~22.60~~ 22.52	S-11	~~22.30~~	22.10

* Existing Structure



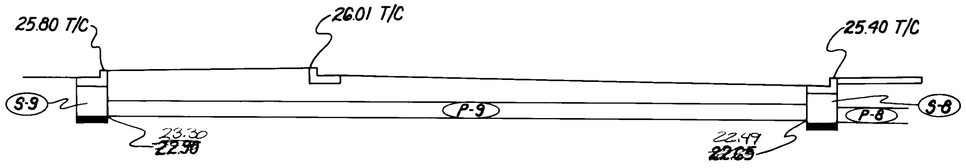
"Y" 9+90, 15.5' Lt.

"Y" 9+79, 15.5' Rt.



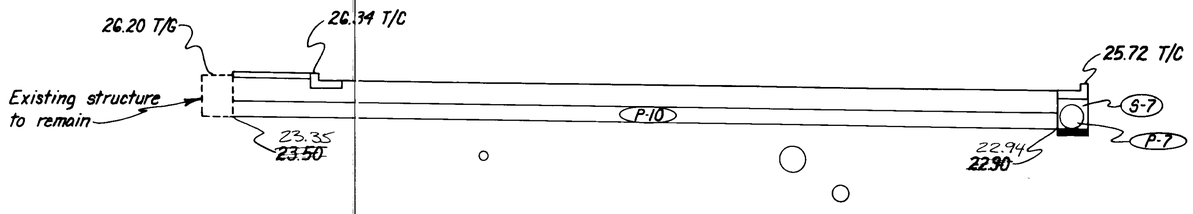
"Y" 9+79, 15.5' Rt.

"0" 13+56, 64' Lt.



"Y" 10+92, 4' Lt.

"0" 0+30, 12' Lt.



"Y" 11+66, 24' Lt.

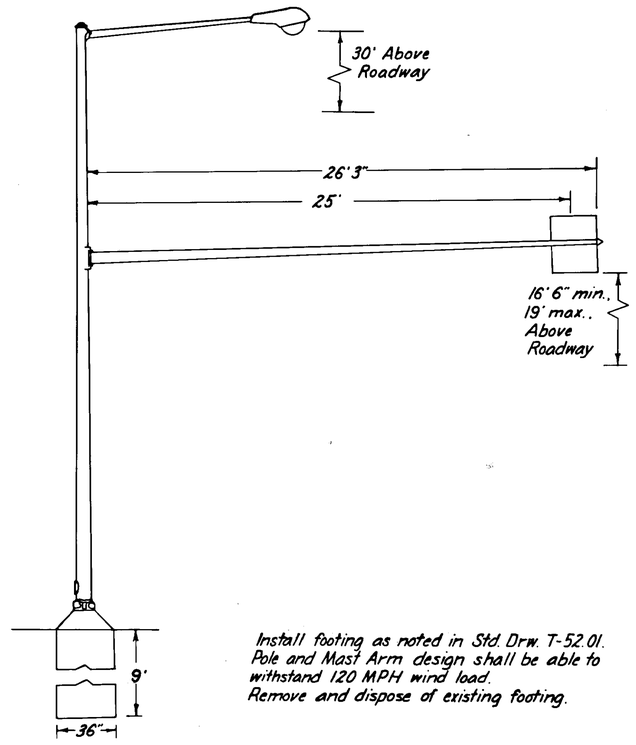
"0" 15+15, 17.65' Rt.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	12	16

DETAIL SHEET

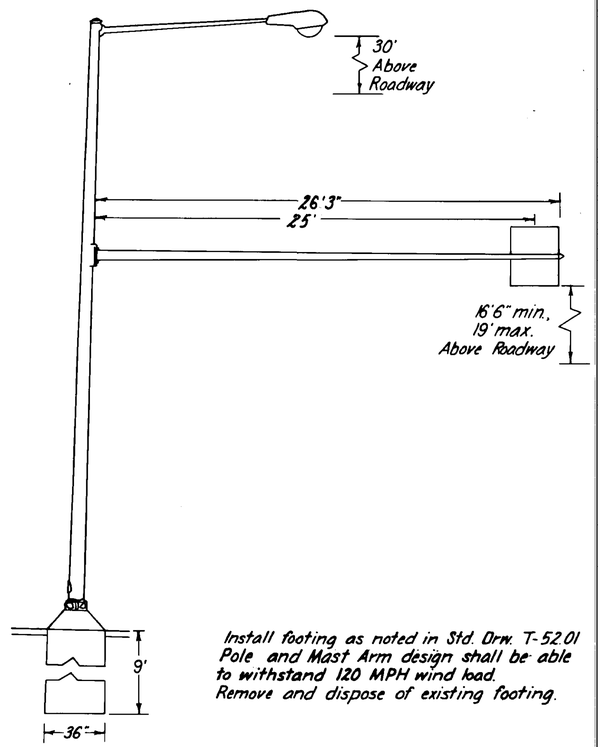
Notes:

1. Salvage the existing Mast Arms, Luminaires & interconnecting wires and transfer to the new poles.
2. All work and materials involved in installing and reconnecting the new Luminaire Poles shall be considered incidental to illumination system and no seperate payment will be made therefore.
3. New Luminaire poles shall be installed coincidental to the location of the existing poles.



Install footing as noted in Std. Drw. T-52.01. Pole and Mast Arm design shall be able to withstand 120 MPH wind load. Remove and dispose of existing footing.

Pole Detail "0"82+55

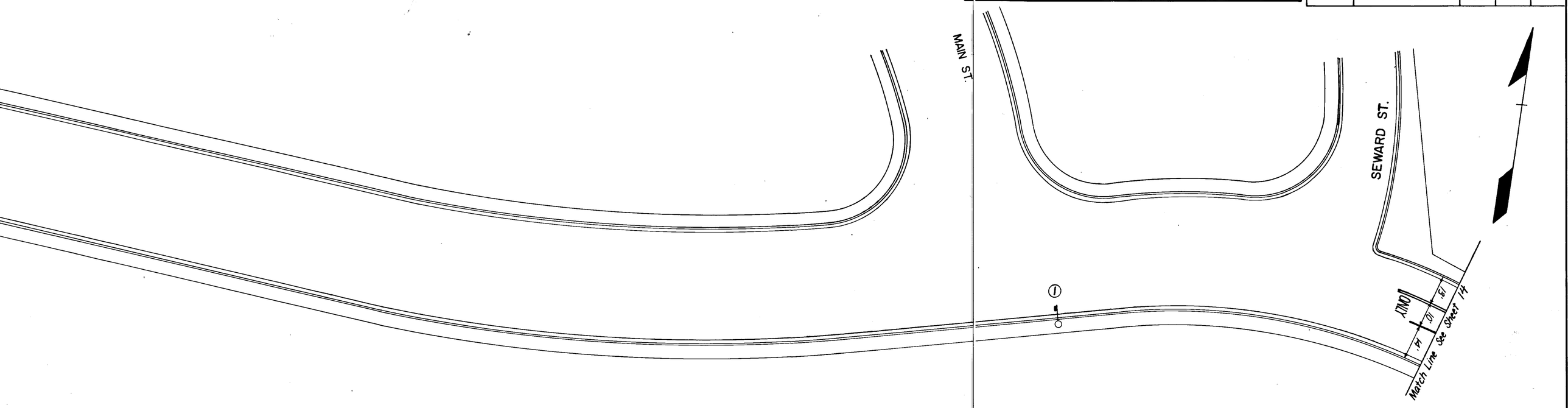


Install footing as noted in Std. Drw. T-52.01 Pole and Mast Arm design shall be able to withstand 120 MPH wind load. Remove and dispose of existing footing.

Pole Detail "0"81+20

SIGNING, STRIPING AND ILLUMINATION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	13	16



SIGNING SCHEDULE

No.	Station	Dist. from ℄ Lt.	Dist. from ℄ Rt.	Code No.	Legend	Sign Panel Thickness: Size	Unframed	Framed	Area S.F.	Post: No. of Posts	Type	Size	Length	Embedment	Facing Traffic	Remarks
1	79+42			D3-1C	Main	24x8	.080		1.33						SB	Mount on Signal Arm
2	81+20			R3-5L	↰ ONLY	30x36	.080		7.5						SB	See special detail
3	81+85			D1-3	Thane-Ferry Terminal ↑ ← City Center	110x54	.100		41.3						SB	See Illumination note #10
4	82+55			R3-5L	↰ ONLY	30x36	.080		7.5						SB	See special detail
5	83+19	40		R6-1L	ONE WAY	36x12	.080		3.0	1	Tube		9		NB	
6	83+25	37		R6-1R	ONE WAY	36x12	.080		3.0	1	Tube		9		SB	
7	83+23		31	R6-1R	ONE WAY	36x12	.080		3.0	1	Tube		9		SB	
8	83+23		31	R6-1R	ONE WAY	36x12	.080		3.0	1	Tube		9		NB	Mount on same post as #7
9																OMITTED
10	12+20		26	D9-R	Arrow Rt.	6x24	.080		1.0							Installed, then removed
11	11+36		20	R7-1	No Parking Anytime	12x18	.080		1.5	1	Tube		9.5		SB	
12	11+39	22		R7-1	No Parking Anytime	12x18	.080		1.5	1	Tube		9.5		NB	
13	13+28		31	R7-1	No Parking Anytime	12x18	.080		1.5	1	Tube		9.5		SB	
14	13+78	21		R7-1	No Parking Anytime	12x18	.080		1.5	1	Tube		9.5		NB	
15	14+48	21		R6-1L	ONE WAY	36x12	.080		3.0	1	Tube		9		SB	
16	14+74	20		D1-3	← Auke Bay Douglas City Center →	110x54	.125		41.3	2	Tube		11			
17	15+67		24	R7-1	No Parking Anytime	12x18	.080		1.5	1	Tube		9.5		SB	
18	85+33		30	R1-1	STOP	30x30	.080		6.25	1	Tube		12		EB	
19	85+33		30	R6-1L	ONE WAY	36x12	.080		3.0						EB	Mount on same post as #18
20	85+32	36		R1-1	STOP	30x30	.080		6.25	1	Tube		9		EB	
21	85+36	34		R6-1R	ONE WAY	36x12	.080		3.0	1	Tube		12		NB	
22	85+36	34		R3-2	No Left Turn	30x30	.080		9.25						NB	Mount on same post as #21
23	*			R6-1R	ONE WAY	36x12	.080		3.0	1	Tube		9		NB	
24	*			R6-1L	ONE WAY	36x12	.080		3.0	1	Tube		12		EB	
25	*			R3-1	No Right Turn	30x30	.080		9.25						EB	Mount on same post as #23

* See approximate location on plans. Place as directed by Project Engineer.

ILLUMINATION NOTES

1. Luminaires shall be high pressure sodium, 250 watts- 240 volts ANSI TYPE II, medium-semi cutoff unless otherwise noted on the plans.
2. Luminaires shall have a 35' mounting height unless otherwise noted on the plans.
3. All interconnecting conductors shall be #6 AWG.
4. All luminaire base footings shall be TYPE III, 6' deep x 3' diameter as shown on Std. Drw. L-30.01, unless otherwise noted on the plans.
5. Conduit and cable routing as shown on the plans are schematic only and may be modified in the field as necessary to complete the Illumination system. Any modification shall be approved by the Engineer.
6. All junction boxes shall be TYPE I as shown on the Std. Drw. L-23.03.
7. The new illumination system shall connect into existing junction box 14' Lt., Sta. 9+07. All work and materials involved shall be considered incidental to the illumination system.
8. Pole and Mast Arm design shall be able to withstand 120 MPH wind load.
9. Existing Luminaire poles at Stations 81+85 and 82+55 shall be removed and taken to the DOT/PF Maintenance Yard at 6½ mile Glacier Hwy.
10. Luminaire at Station 81+20 shall be moved to 81+85 and new overhead sign mounted to Mast Arm.

SIGNING NOTES

1. Sign locations are approximate and are subject to minor revisions.
2. All sign posts shall be telescoping perforated galvanized steel posts; the 2" size shall be used above ground, and the 2¼" shall be used below ground. All materials shall be 12 gauge.
3. Overhead sign mounted at 81+20 shall be removed from luminaire and taken to DOT/PF at 6½ mile Glacier Hwy.
4. Mast Arms for the overhead signs shall be considered incidental to standard signs and no separate payment will be made therefore.
5. Relocate existing Juneau Police sign to Sta. "O" 12+65 Rt. This work shall be considered incidental to Item 615(1) Standard Signs & no separate payment shall be made therefore. Deleted as per City and Borough of Juneau
6. Relocate existing signs in Borough Parking Area To behind proposed sidewalk. Sta. "O" 11+00 to "O" 12+00 Rt. This work shall be considered incidental to Item 615(1) Standard Signs & no separate payment shall be made therefore.
7. All signing shall be in compliance with the Alaska Traffic Manual(A.T.M.)

PAVEMENT MARKING NOTES

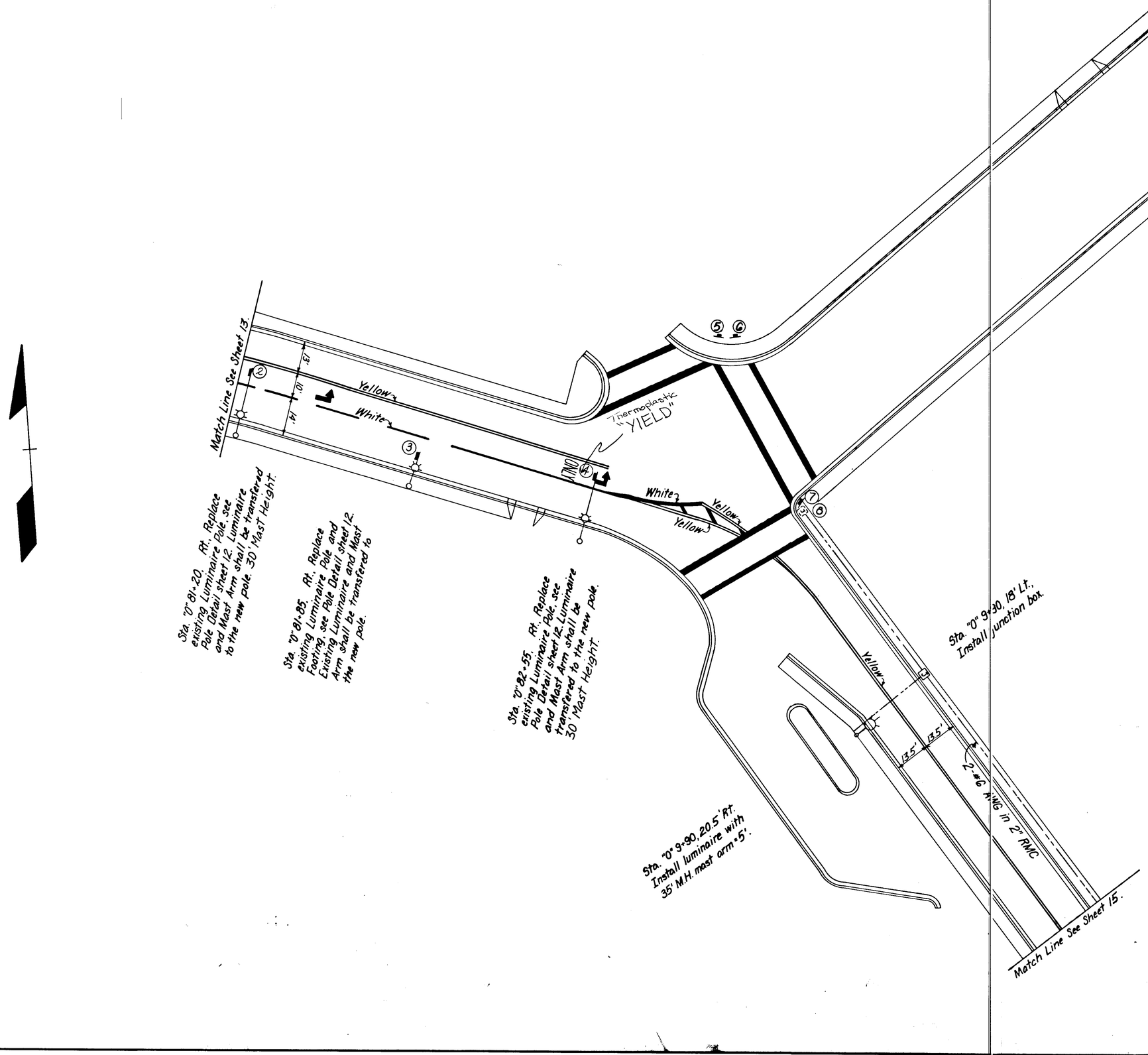
1. All pavement markings on Ferry Way shall be removed by any means, approved by the Project Engineer, without damaging the pavement.
2. All markings shall be thermoplastic.
3. Thermoplastic "ONLY" and Right Turn arrow, in southbound right hand lane, between Seward and Shattuck Way, shall be removed.
4. Thermoplastic shall be installed as per manufacturer's recommendation; both cold, overlay method, and hot, inlaid method.
5. All pavement markings shall be in compliance with the Alaska Traffic Manual (A.T.M.).

Thermoplastic Pavement Markings Quantities

- 4" Solid Yellow ℄ — 2,411 L.F.
- 18" " " Diagonal Bars — 122 L.F.
- 4" Dashed White Lane Markers — 36 L.F.
- 4" Solid White Lane Markers — 63 L.F.
- 8" " " Island Markers — 102 L.F.
- 18" " " Diagonal Bars — 53 L.F.
- 24" " " Crosswalk Lines — 294 L.F.
- 8' " " "ONLY" Marking — 3 ea.
- 6'-11" Left Turn Arrows (White — 3 ea.
- 8" Solid White Lane Markers — 113 L.F.
- 8' Solid White "YIELD" Marking — 1 ea

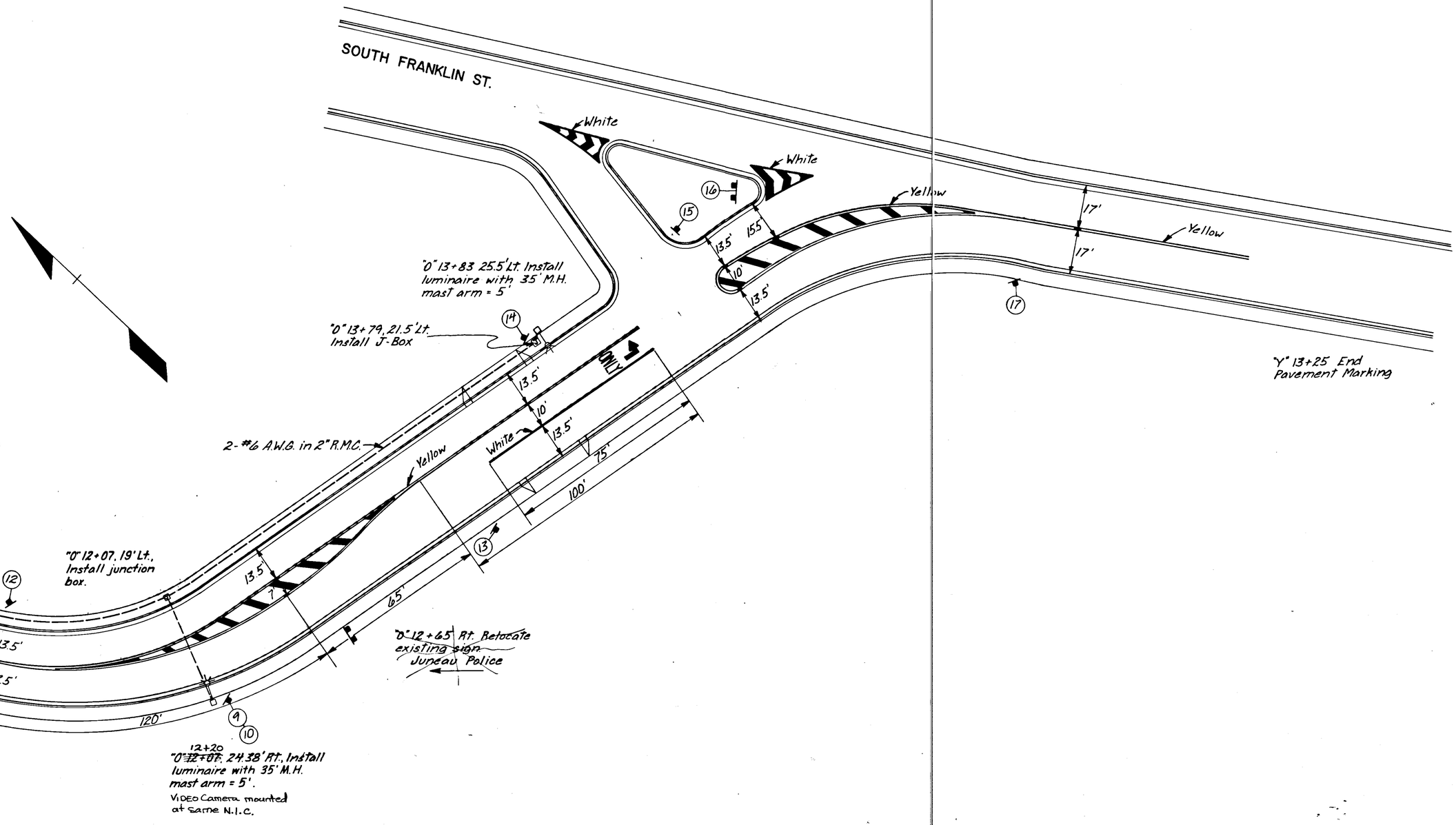
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	14	16

SIGNING, STRIPING AND ILLUMINATION



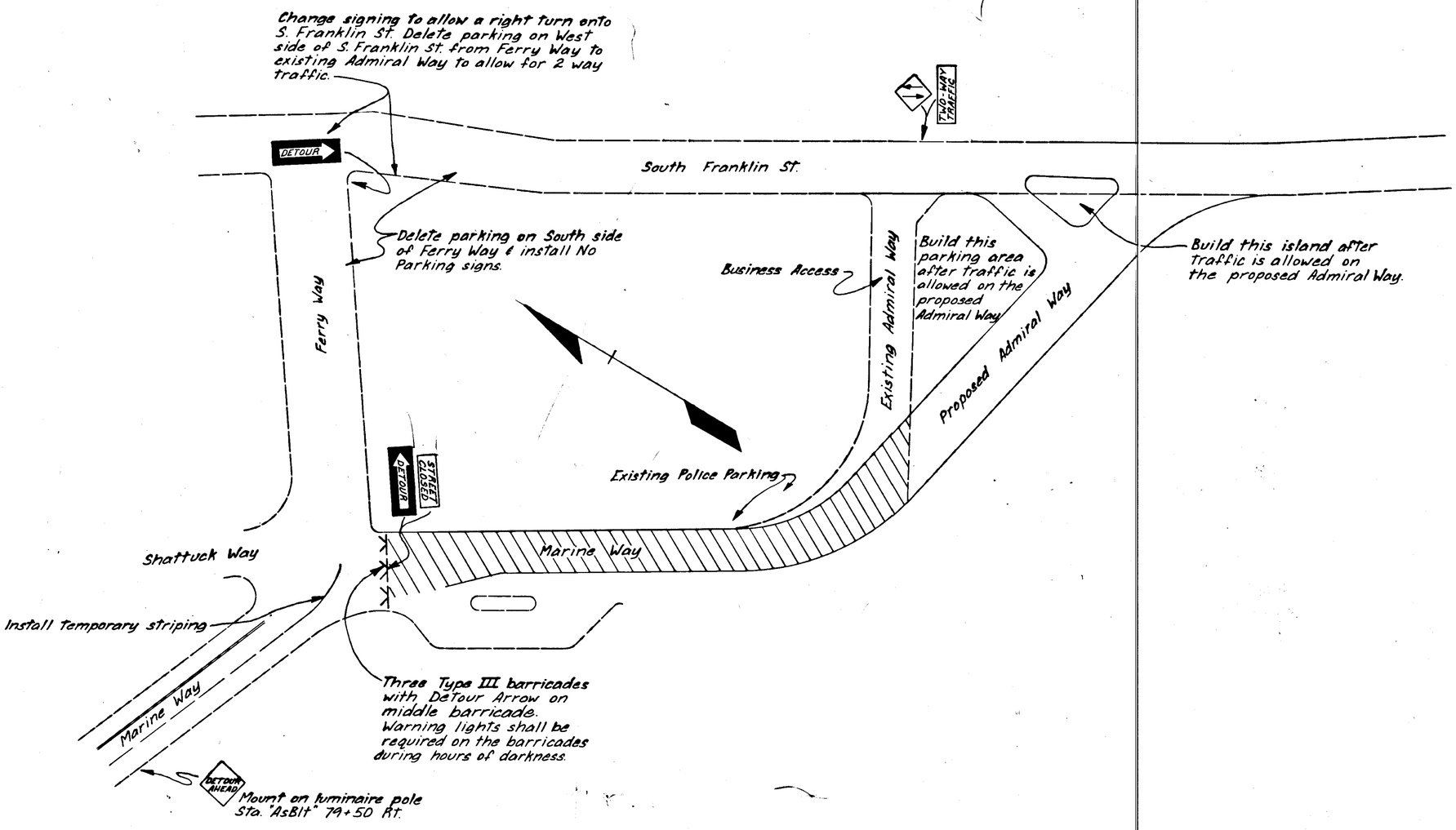
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	15	16

SIGNING, STRIPING AND ILLUMINATION



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(5)	1981	16	16

TRAFFIC CONTROL PLAN



LEGEND: = Barricade with orange flag or warning lights.

= Work Area

TRAFFIC CONTROL NOTES

1. The contractor shall designate at least one of his employees to maintain & continously monitor the condition & placement of all traffic control devices during roadway work operations.
2. The contractor shall publish in the local newspaper for 3 consecutive days prior to commencement of work, a map showing the revised traffic pattern for the area, along with the date that the work will begin.
3. The contractor shall be responsible for the installation of the Temporary striping & the necessary changes in signing to accomplish the changes in the traffic pattern.
4. The contractor shall be responsible for maintaining access to the parking lot south of the proposed Admiral Way for tour buses.
5. The contractor shall cooperate with the local businesses by giving them access on the existing Admiral Way from South Franklin St.
6. The contractor shall keep the police & fire departments informed of any changes in the traffic pattern & shall provide alternate parking for police vehicles within close proximity of the police station while working in the area.
7. Barricades shall be provided at the east end of the proposed Admiral Way.