File AT3-8

STATE	ROUTE DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	1	7

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT
F-095-8(13)
JUNEAU OUTER DRIVE
PHASE I
GRADING, DRAINAGE
SURFACING, & UTILITIES

As Built's Plans

Contractor S.S. Mullen Inc.

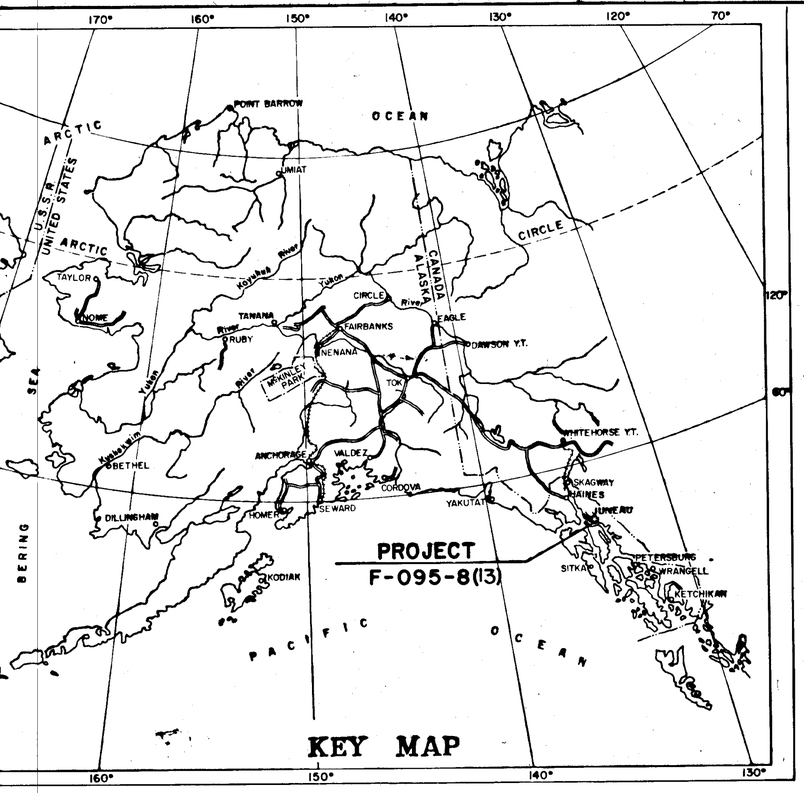
Began 5-8-68, Completed 7-15-69

FOR INDEX OF SHEETS SEE SHEET NO. 2

DESIGN	DESIGNATION
ADT (1967)	= 5450
ADT (1987)	= 12900
DHV	= 1484
D	= 45-55%
T	= 5 %
V	= 40 M.P.H.

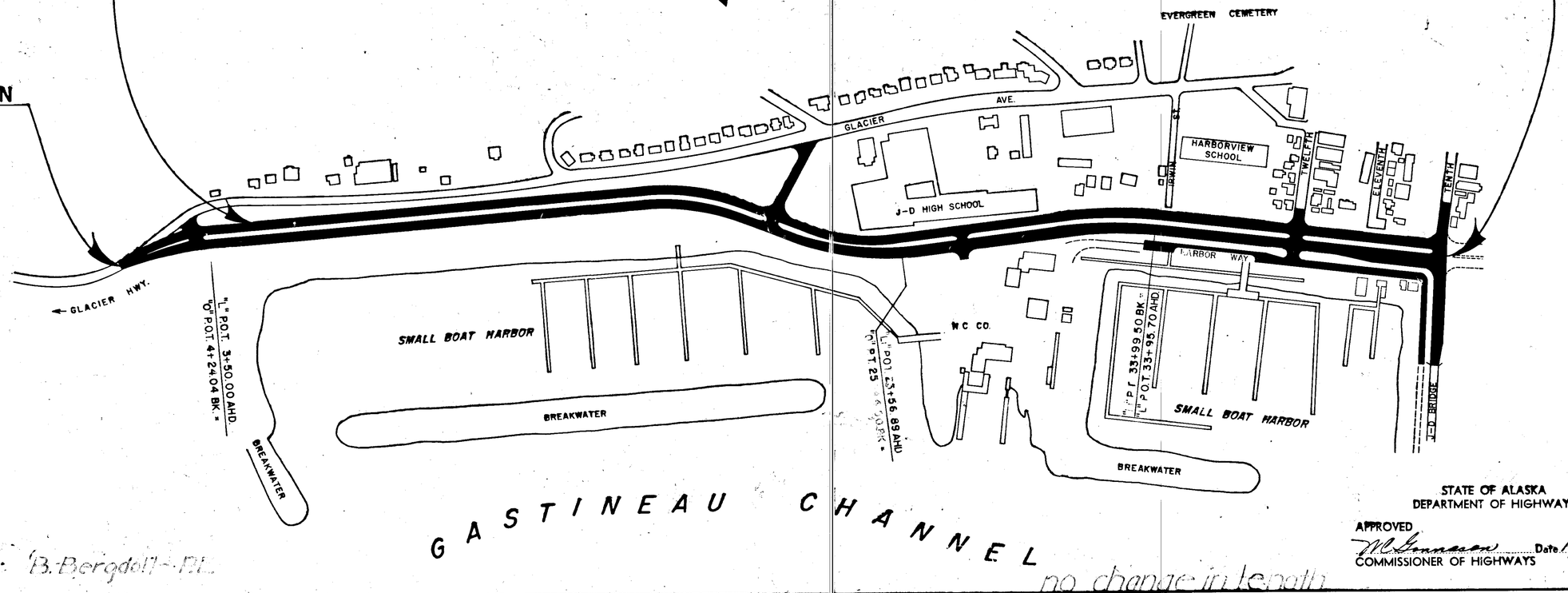
PROJECT SUMMARY

WIDTH of ROADBED	70'
WIDTH of PAVEMENT	DUAL 28'
LENGTH of GRADING	4380.15' = 0.830 Mi
LENGTH of PAVING	4380.15' = 0.830 Mi
LENGTH of PROJECT	3430.15' = 0.650 Mi
TEMPORARY CONNECTION	950.00 = 0.180 Mi



END TEMPORARY CONNECTION & BEGIN PROJECT STA. "L" 9+50

BEGIN TEMPORARY CONNECTION STA. "O" 0+00



STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED M.A. Tonnason Date 12/16/69
COMMISSIONER OF HIGHWAYS

B. Bergdoll - DL

no change in length

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	2	73

LEGEND

Proposed Construction Center Line
Preliminary Survey Line
Slope Limits — Cut
Right-of-Way Line
Easement Line
Corporated or City Limits
Power Line, ----- E ----- E ----
Telephone, or Telegraph Line ----T----
Power, Telephone or Telegraph Pole
Pole Anchor
Power Line Tower

Exist. Sewer Line to be removed or abandoned
Exist. Sewer Line to be Utilized
Exist. Water Line
Exist. Manhole
Adjust Exist. Manhole
Manhole
Fire Hydrant
Traveled Way
Exist. Fence
Exist. Fence (Relocate)
Fence (New)
Land Monument. Brass Cap. R.M.C.s& Corners
Structures (To Be Removed By Others)
Inlet
Exist. Inlet

Exist. Culvert
Brass Cap Monument
Exist. Guardrail
Guardrail
Standard Sign
Direct Burial Cable,
Underground Conduit
Metering and Distribution Center
Mercury Vapor Luminaire, Single
Water Valve Box to be adjusted
Water Valve Box
Water Meter to be removed by the City of Juneau.
Water Meter to be adjusted
Water Meter to be Left In Place
Fire Alarm Box
Junction Box

GENERAL NOTES

1. Culvert lengths and location are approximate only and are subject to minor revisions.
2. Grades and alignment shown on these plans are subject to minor revisions.
3. All encroaching permanent buildings within the right-of-way shall be removed to the existing ground level by others.
4. Miscellaneous and minor right-of-way encroachments, within the construction limits, such as fences, signs, abandoned Pile Driver foundations, etc., shall be removed by the contractor as directed by the engineer. No payment for this work shall be made as it is considered incidental to other items of work performed under this contract.
5. All waste and/or surplus material encountered on this project will be disposed of by the contractor at locations of his own choice and as approved by the engineer. There is no payment for overhaul of unclassified excavation designated as waste and/or surplus material by the engineer.
6. No unclassified excavation on this project is considered suitable for use as topsoil.
7. A butt type joint shall be used to match new pavement with existing pavement at locations shown on the plans.
8. At the option of the contractor, corrugated galvanized metal pipe, corrugated aluminum pipe or reinforced concrete pipe may be furnished for pay item 603(26) Pipe Conduit.
9. The following application rates shall be used for Item 618, Seeding Class I.

Seed	2.5# per 1000 Sq. Ft.
Fertilizer	15# (max) per 1000 Sq. Ft.
Ground Limestone	100 # (max) per 1000 Sq. Ft.
Mulch:	
Wood Cellulose Fiber	30# per 1000 Sq. Ft.
(or)	
Dried Peat	60# per 1000 Sq. Ft.

10. Removal of Guardrail is incidental to other items of Contract.
11. The bituminous coated sewer pipe sleeves at stations 30 + 62, 37+00, and 41+12 to be plugged with wood or other suitable material, and accurate survey ties recorded to establish location for future utilization.

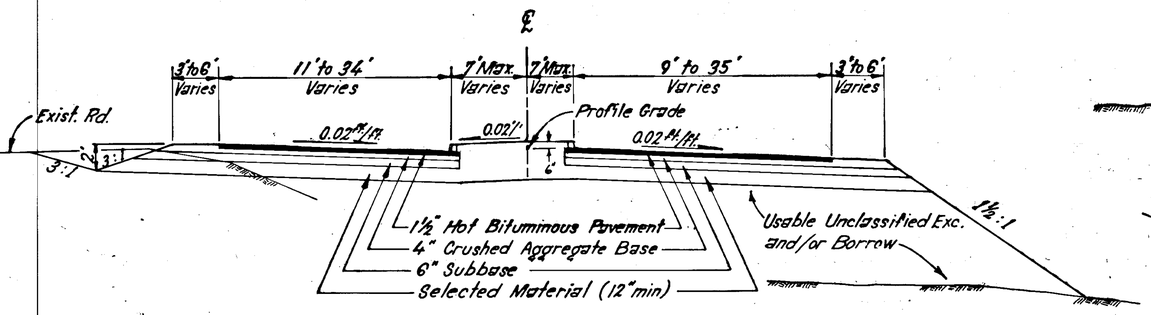
INDEX OF SHEETS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT: D-1, D-3, D-4, M-1, M-2 , R-1, R-4, R-8, T-1, T-2, T-9, T-11, T-16(2 sheets), and T-20.

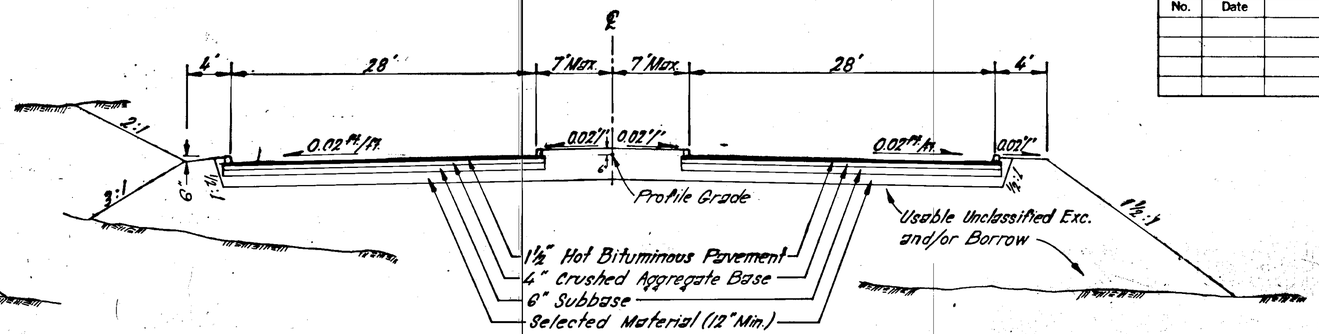
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	3	73

REVISIONS

No.	Date	Description



Sta. "O" 0+00 to Sta. "O" 3+30.40

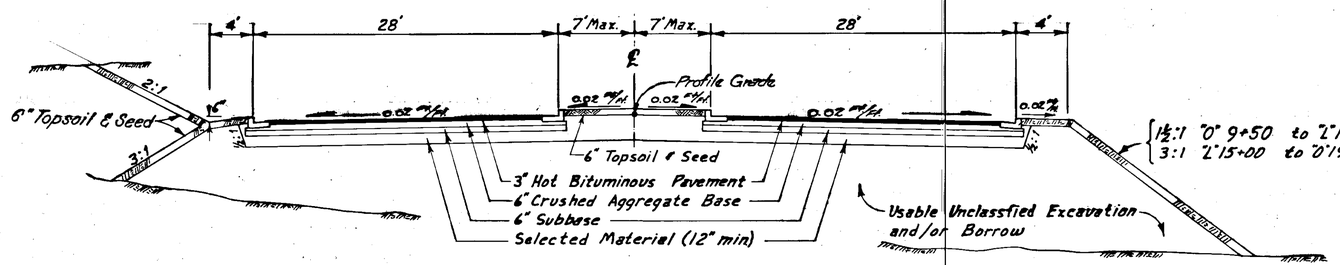


Sta. "O" 3+30.40 to Sta. "O" 9+50

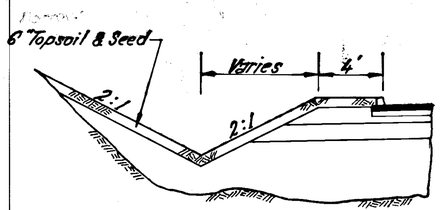
Notes:

1. MC-30 Liquid Asphalt Prime Coat shall be placed under all Hot Bituminous Pavement at the rate of approximately 0.25 gal/S.Y.
2. Crushed Aggregate Base and Subbase shall extend 3" beyond back of curb.
3. All 3" Hot Bituminous Pavement to be in two lifts.

TEMPORARY CONNECTION

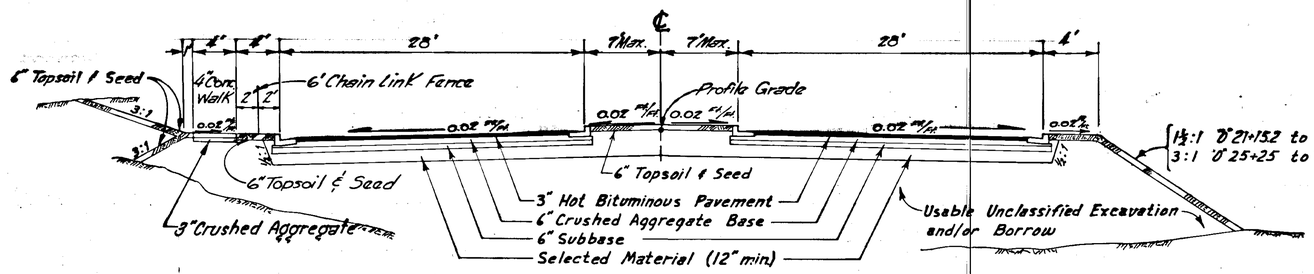


Sta. "O" 9+50.00 to Sta. "O" 21+15.20

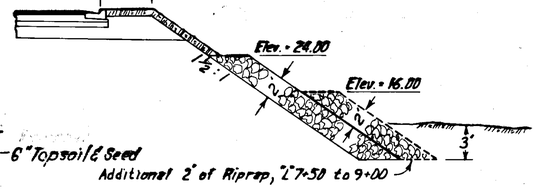


SPECIAL DITCH

Sta. L 4+00 to Sta. L 8+50



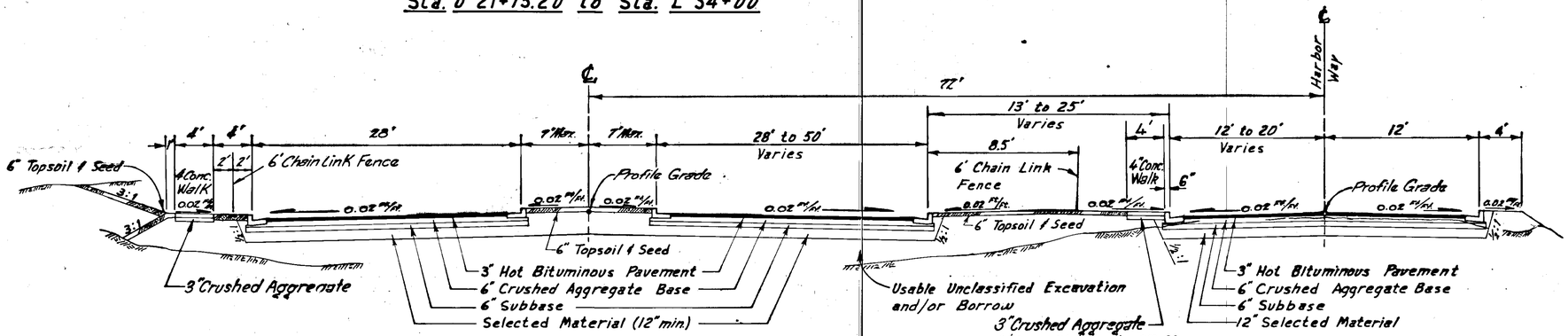
Sta. "O" 21+15.20 to Sta. "L" 34+00



RIPRAP DETAIL

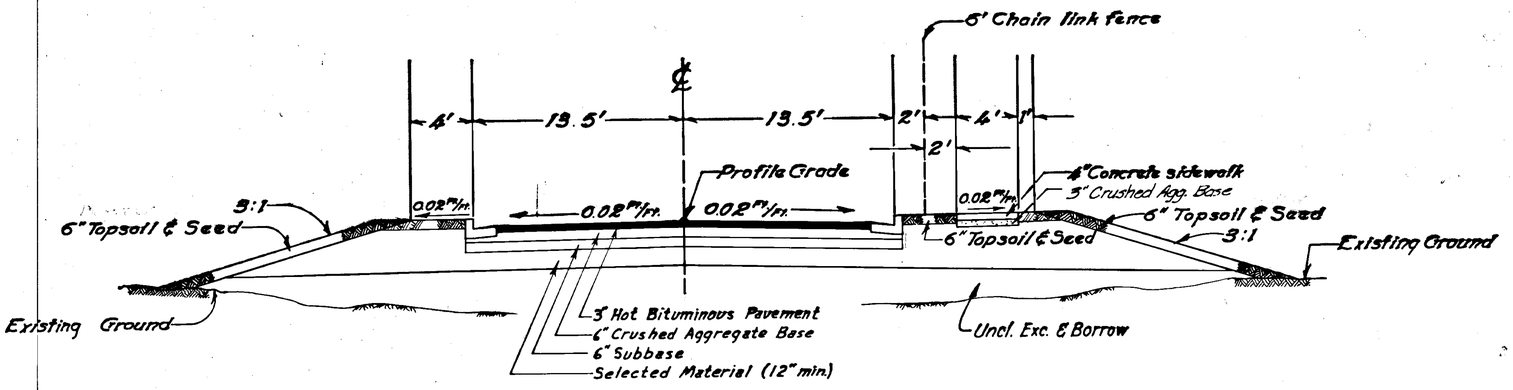
Sta. "O" 4+00 to Sta. "L" 13+25
Sta. "O" 19+00 to Sta. "O" 25+25

DAYLIGHT SECTION

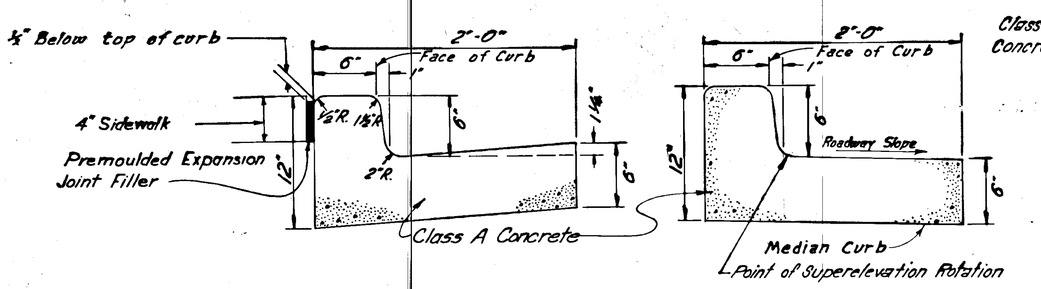


Sta. "L" 34+00 to Sta. "L" 43+16.20

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	4	73

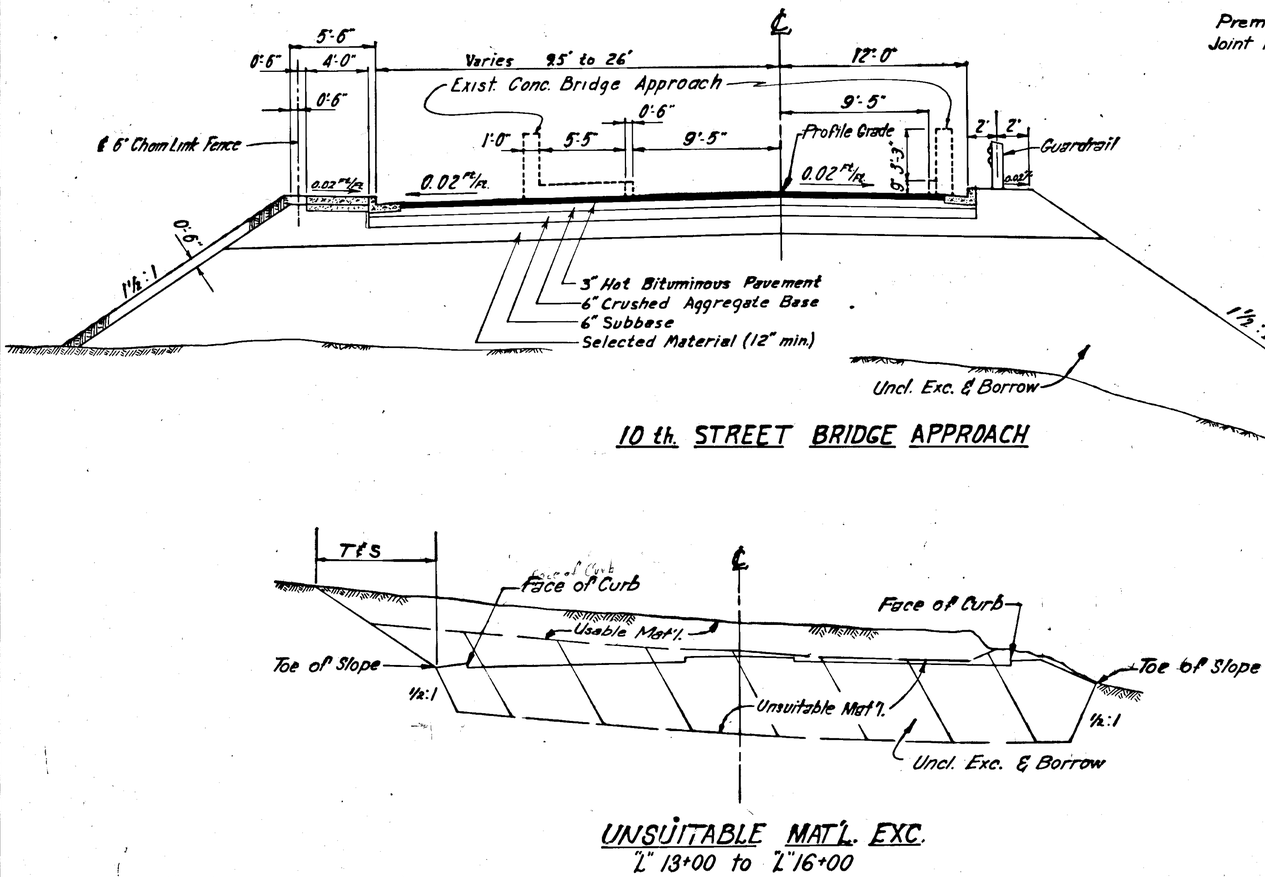


APPROACH ROAD
"0" 21+15.21 Left



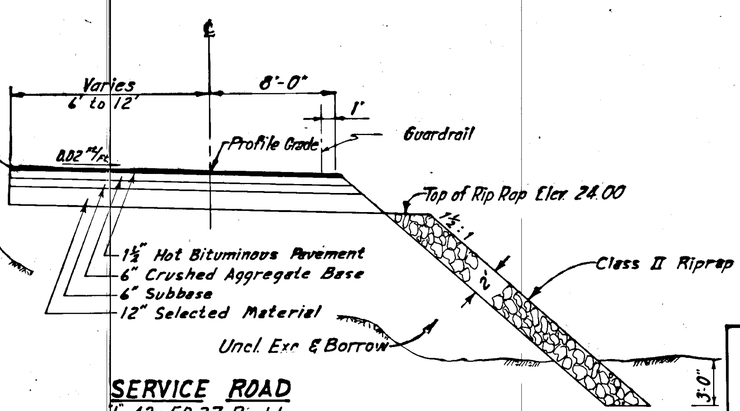
TYPE 3 CURB

CURB & CURB & GUTTER DETAIL



10 th. STREET BRIDGE APPROACH

UNSUITABLE MAT'L. EXC.
"L" 13+00 to "L" 16+00



SERVICE ROAD
"L" 42+50.37 Right

STATE of ALASKA
Department of Highways

JUNEAU OUTER DRIVE-PHASE
Project No. F-095-8(13)

TYPICAL SECTIONS

Approved: Date:

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	5	73

ITEM NO.	ITEM	UNIT	SHEET NUMBER 12	13	14	15	22	23	24	25	26	31	32	33	34	35	36	37	38	39-45	51-54	55-58	TOTAL
201(3)	Clearing and Grubbing	Lump Sum																					All Req'd
202(4)	Removal and Disposal of Culvert Pipe	Lin. Ft.						42	427		15												484
202(5)	Removal of Manhole	Each							2														2
202(6)	Removal of Sewer Junction Box	Each							1														1
202(7)	Removal of Inlet	Each									1												1
203(3)	Unclassified Excavation	Cu. Yd.	396	19,280	9,561	7,940																	37,177
203(5)	Borrow	Ton	50,000	60,300	26,700																		137,000
206(1)	Structure Excavation	Cu. Yd.					450	177	1,549	437	230												2,843
304(1)	Crushed Aggregate Base, Grading D-1	Ton	1,120	3,194	4,003	3,907																	12,224
307(1)	Subbase, Grading "B"	Ton	1,321	3,316	3,842	3,742																	12,221
403(1)	Hot Bituminous Pavement	Ton	340	1,385	1,798	1,593																	5,116
403(2)	AC 120-150 Liquid Asphalt for Hot Bituminous Pavement	Ton	20.4	83.1	107.0	95.6																	306
408(2)	MC-30 Liquid Asphalt for Prime Coat	Ton	3.0	8.8	10.4	9.5																	32
603(6F)	21" Bituminous Coated Corrugated Metal Pipe	Lin. Ft.								130	304												434
603(26C)	12" Pipe Conduit	Lin. Ft.						107	530	691													1,817
603(26E)	18" Pipe Conduit	Lin. Ft.							314	32													346
603(26G)	24" Pipe Conduit	Lin. Ft.							408														408
603(26H)	30" Pipe Conduit	Lin. Ft.						275															275
603(26I)	36" Pipe Conduit	Lin. Ft.						150	226														376
603(26J)	42" Pipe Conduit	Lin. Ft.					610																610
604(1)	Manholes	Each					2	2	5	1													10
604(2A)	Concrete Inlet, Type A	Each						2	5	11	9												27
604(2B)	Concrete Inlet, Type C	Each						1	7	2													10
604(4)	Adjusting Manholes	Each							1	3	3												7
605(18)	8" Perforated Pipe Underdrain	Lin. Ft.							510														510
605(20)	Porous Backfill for Pipe Underdrain	Cu. Yd.							370														370
605(22)	Cleanout for 8" Pipe Underdrain	Each							1														1
606(1)	Beam Type Guardrail, Type I Post	Lin. Ft.	162.5			537.5																	700
607(3)	6' Chain Link Fence	Lin. Ft.			2,301	1,423																	3,724
608(1)	Concrete Sidewalk, 4" depth	Sq. Yd.			745	820																	1,565
609(1)	Curb Type 3	Lin. Ft.	1,340	1,800																			3,140
609(3)	Curb and Gutter, Type 2	Lin. Ft.		4,150	6,580	5,320																	16,050
611(1)B	Riprap, Class II	Ton	420	3,500	2,667	257	500																7,344
614(1)	Survey Monuments	Each		5	5	3																	13
614(2)	Monument Cases	Each		5	6	3																	14
615(1)	Standard Signs	Each											19	15		26	24	38	61				183
618(1)A	Seeding, Class I	M. Sq. Ft.		63.1	37.8	22.1																	123
618(2)	Water for Maintenance	M. Gal.		126.1	78.6	42.7																	247
620(2)	Topsoil	M. Sq. Ft.		63.1	37.8	22.1																	123.0
639(1)	Handlaid Rock Embankment	Ton					280				0												280
640(5)	Adjust Fire Hydrant	Each								1	1												2
640(7)	Relocate Fire Hydrant	Each									1												1
640(17)	Adjust Water Meter	Each									2												2
		Each																					
640(11)	Adjust Valve Boxes	Each								1	1												2
660(1)	Illumination System	Lump Sum										All Req'd	All Req'd	All Req'd									All Req'd
660(9)	Traffic Signal System	Lump Sum																					All Req'd
670(1)	Painted Traffic Markings	Lump Sum																		All Req'd			All Req'd
681(1A)	Pole, Steel (50')	Each																			3		3
681(2A)	Pole, Wood, 60/1	Each																			19		19
681(2B)	Pole, Wood, 55/1	Each																			16		16
681(2C)	Pole, Wood, 50/1	Each																			2		2
681(2D)	Pole, Wood, 45/1	Each																			1		1
681(2E)	Pole, Wood 40/1	Each																			1		1
681(2F)	Pole, Wood 35/2	Each																			1		1
681(3A)	Type I Structure	Each																			11		11
681(3B)	Type II Structure	Each																			22		22
681(3C)	Type III Structure	Each																			1		1
681(3D)	Type IV Structure	Each																			1		1
681(3F)	Type VI Structure	Each																			19		19

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	6	73

ITEM NO.	ITEM	UNIT	SHEET NUMBER 51-54	55-58
681(3G)	Type VII Structure	Each	1	
681(3H)	Type VIII Structure	Each	3	
681(4A)	#4/0 ACSR	Lin. Ft.	28,600	
681(4B)	#4/0 AAAC, Insulated	Lin. Ft.	8,200	
681(4C)	#1/0 AAAC, Triplex	Lin. Ft.	2,700	
681(4D)	#2 AAAC, Triplex	Lin. Ft.	1,200	
681(5A)	Two-Phase Cross Arm Unit, B7-N	Each	3	
681(5B)	Two-Phase Cross Arm Unit, B7-NX	Each	2	
681(5C)	Two-Phase Cross Arm Unit, B7-3N	Each	1	
681(5D)	Two-Phase Cross Arm Unit, B8-N	Each	1	
681(5E)	Two-Phase Cross Arm Unit, B9-1N	Each	5	
681(6A)	Three-Phase Cross-Arm Unit, C7-N	Each	6	
681(6B)	Three-Phase Cross Arm Unit, C7-1N	Each	1	
681(6C)	Three-Phase Cross Arm Unit C8-N	Each	3	
681(6D)	Three-Phase Cross Arm Unit C8-2N	Each	2	
681(6E)	Three-Phase Cross Arm Unit, C9-N,	Each	3	
681(6F)	Three-Phase Cross Arm Unit, C9-1N	Each	6	
681(6G)	Three-Phase Cross Arm Unit, C9-2N	Each	11	
681(6H)	Three-Phase Cross Arm Unit, C9-3N	Each	1	
681(7A)	Installing Transformer Assembly, G-1	Each	4	
681(4E)	Copper Conductor 2/0 Hard Drawn Weather Proof	Lin. Ft.	450	
681(8A)	Down-Guy Assembly, E1-3	Each	8	
681(8B)	Over Head - Guy Assembly, E2-2	Each	1	
681(9A)	Anchor Assembly, F1-4P	Each	8	
681(10A)	Secondary Assembly, J-5	Each	7	
681(10B)	Secondary Assembly, J-10	Each	6	
681(10C)	Secondary Assembly, J-12	Each	2	
681(10E)	Secondary Assembly, J-14	Each	4	
681(10F)	Secondary Assembly, J-15	Each	1	
681(10D)	Secondary Assembly, J-30	Each	2	
681(11A)	Service Assembly, K-10	Each	1	
681(11B)	Service Assembly, K-11	Each	1	
681(11C)	Service Assembly, K-13	Each	1	
681(11D)	Service Assembly, K-14	Each	1	
681(12A)	Miscellaneous Assembly, M-5-5	Each	1	
681(12B)	Miscellaneous Assembly, M-5-9	Each	2	
681(12C)	Grounding Assembly, M-2-12	Each	4	
681(12D)	Street Light Installation, M-26	Each	4	
681(13A)	Install 50 Pr. Figure 8 Cable, P.I.C.	Lin. Ft.	800	
681(13B)	Install 25 Pr. Figure 8 Cable P.I.C.	Lin. Ft.	1,550	
681(13C)	Install 6 Pr. Direct Burial Cable	Lin. Ft.	300	
681(14)	Removal and Disposal of Existing Facilities	Lump Sum		All Req'd
681(15	Swing Existing Services and Conductors	Lump Sum	All Req'd	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	7	73

EXISTING TOPOGRAPHY

BEGIN TEMPORARY CONNECTION
STATION "O" 0+00

"O" P.I. 2+25.98

Exist. R/W

24" CONC.

18" C.M.P.

24" C.M.P.

Glacier Ave.

R/W

Slope Limits

S 45° 56' 51" E — 1441.69'

Well

Slope Limits

R/W

S 61° 04' 32" E - 119.12

Slope Limits

R/W

"O" P.C. 1+19.12

"O" P.I. 2+25.98
Δ = 21° 07' 41"
D = 10° Rt.
T = 106.86'
L = 211.28'
Super = 0.04'/Ft.

"O" + 30.40 P.T.

"O" + 24.04 POT. BK.
"L" 3+50.00 POT. AHD.

R/W

Slope Limits

R/W

Edge of Small Boat Basin

Elev. 59.46

-1.04 %

Elev. 57.36

400' V.C.

Ground Profile

"O" + 24.04 POT. BK.
EQUATION
"L" 3+50.00 POT. AHD.

Elev. 49.16

Profile Grade

-3.65 %

60
50
40
30
20

0+00 1+00 2+00 3+00 4+00 4+00 5+00

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

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	8	73

EXISTING TOPOGRAPHY

CITY LIMITS

Grid Inlet

R/W

Jct. Box

24" CONC.

18" CONC.

E.P.

Slope Limits

Conc. W. Res.

S 45°56'51"E - 1441.69'

OUTFALL

Outfall on Beach

Edge of Small Boat Basin

24" C.M.P. CULVERT

6" TRANSITE

8" C.I.

16" CONC.

16" A.C.P.

36" C.M.P.

18" C.M.P.

16" C.M.P.

12" A.C.P.

8" C.M.P.

Abandoned 12" C.I.P.

Top of Rip Rap

End of Rip Rap

STA. 12+69.69

BEGIN TEMPORARY CONSTRUCTION

BEGIN PROJECT "L" 9+50

Ramp

"L" 16+98.03 P.C. And "O" 16+98.03 P.O.T.

"O" 18+53.73 P.I.

"L" 19+12.56 P.C.

"O" 20+04.65 P.T.

"L" 20+39.80 P.T.

"O" Line Curve Data
P.I. Sta. 18+53.73
Δ = 24°31'40"
D = 8°00' Rt.
T = 155.68'
L = 306.60'
Super = 0.04' / Ft.

"L"
Δ = 32°51'29"
D = 14° Rt.
T = 120.68'
L = 234.70'

Elev. 34.52
V.C. 400'

Elev. 30.23
V.C. 400'

Profile Grade

Ground Profile

-0.50 %

-0.84 %

30

20

10

5 6 7 8 9 10 1 2 3 4 15 6 7 8 9 20

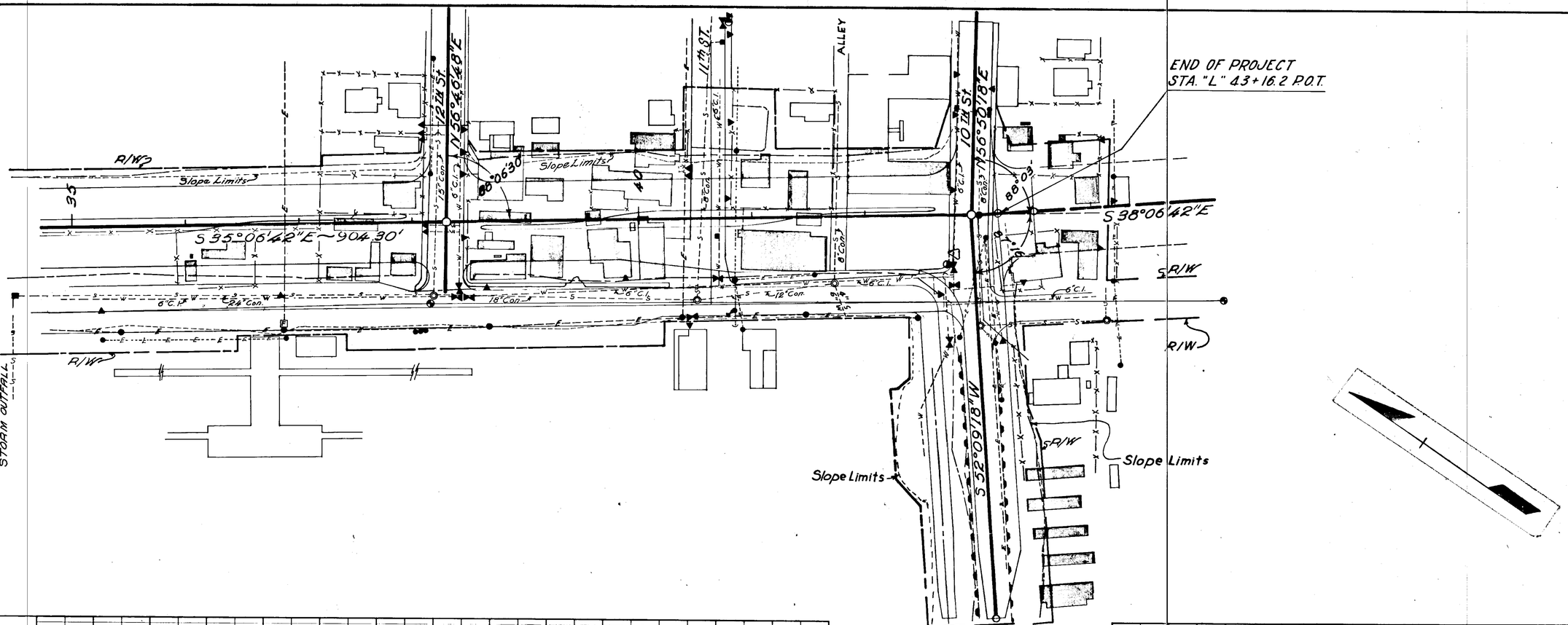
K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

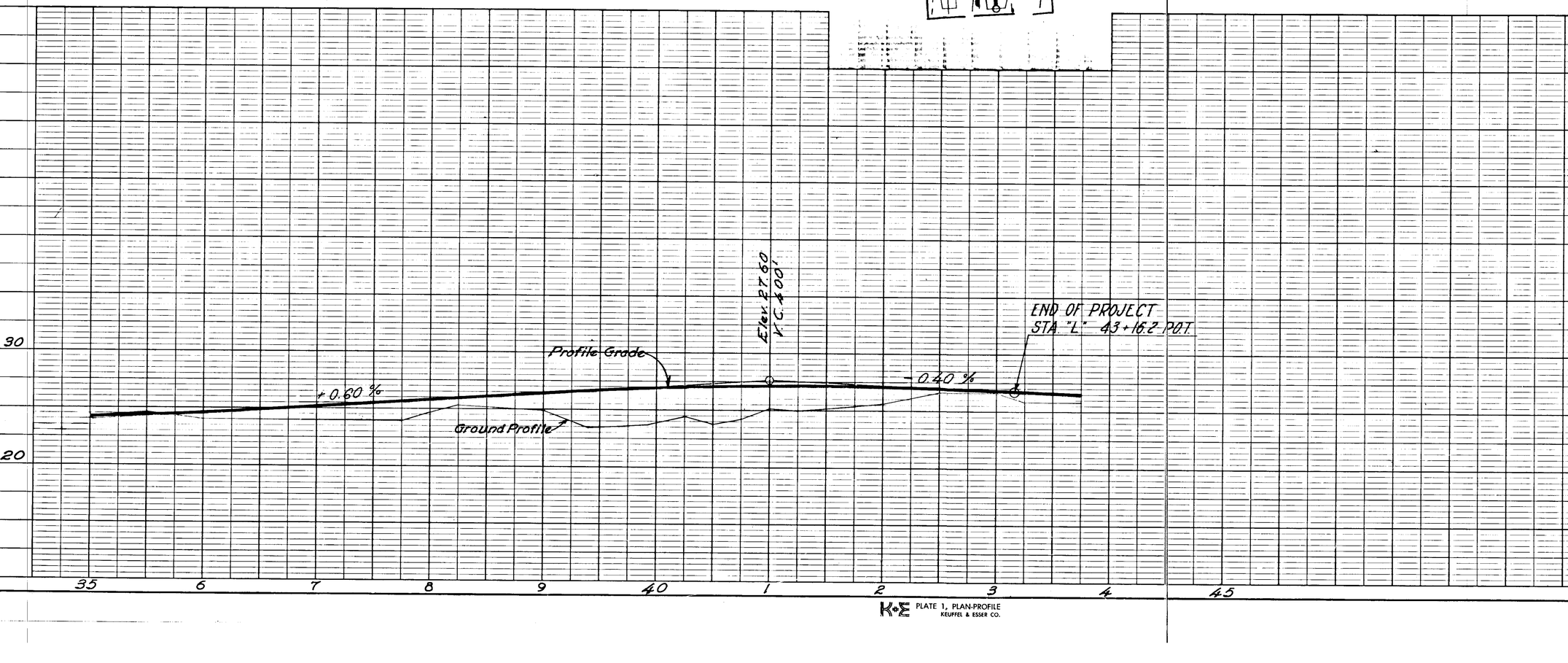
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	9	73

EXISTING TOPOGRAPHY

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT. SHEE
ALASKA	F-095-8(13)	1967	10	73

EXISTING TOPOGRAPHY

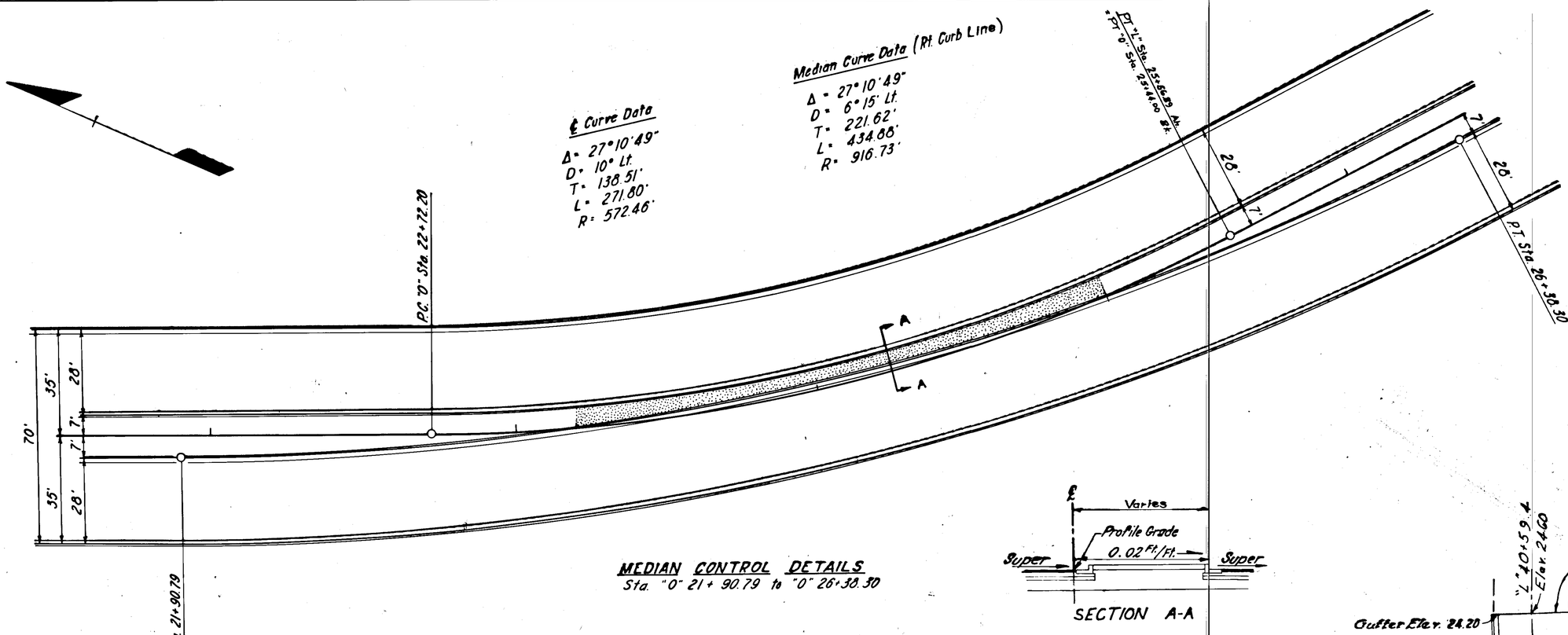




K&E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

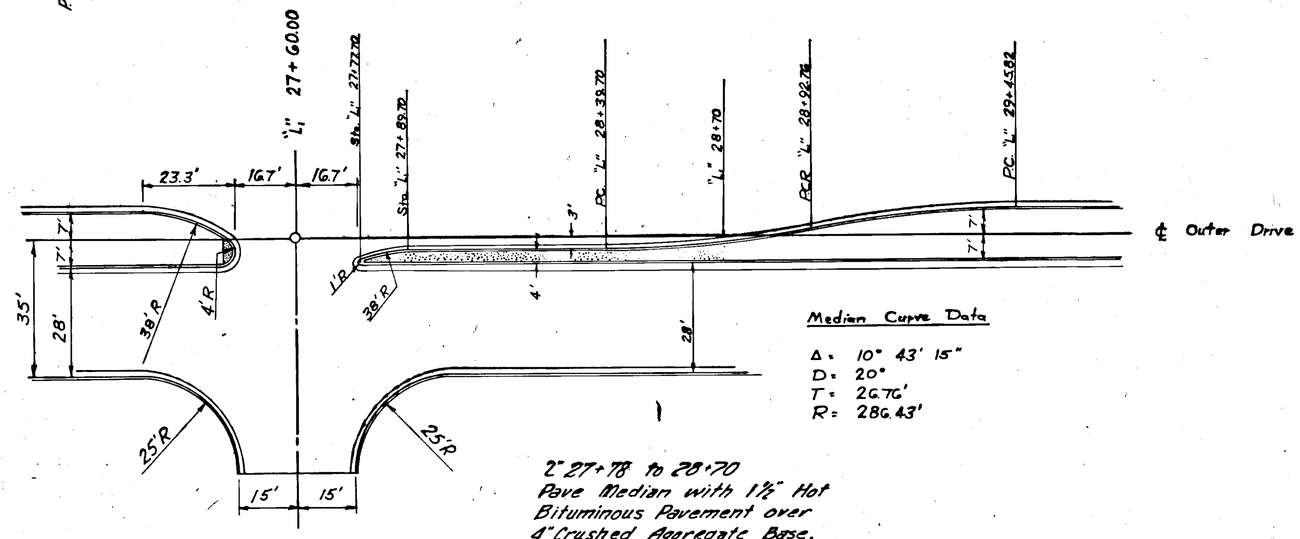
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	11	73

CONSTRUCTION PLANS
(MISCELLANEOUS DETAIL)



MEDIAN CONTROL DETAILS
Sta. "O" 21+90.79 to "O" 26+38.30

SECTION A-A

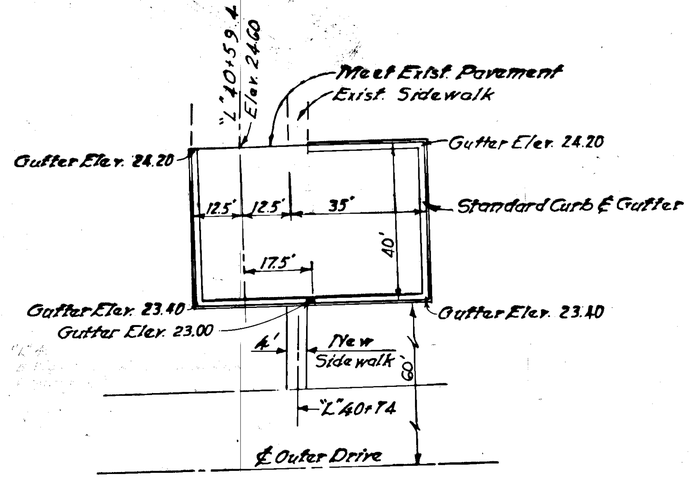


Median Curve Data
Δ = 10° 43' 15"
D = 20°
T = 26.76'
R = 286.43'

APPROACH DETAIL
STA. "L" 27+60

2" 27+78 to 28+70
Pave Median with 1½" Hot Bituminous Pavement over 4" Crushed Aggregate Base.

Note: All Median areas where width is 6' or less shall recieve 1½" Hot Bituminous pavement over 4½" Crushed Aggregate Base Course.



CUL-DE-SAC DETAILS
Left Sta. "L" 40+59.4

STATE of ALASKA
Department of Highways

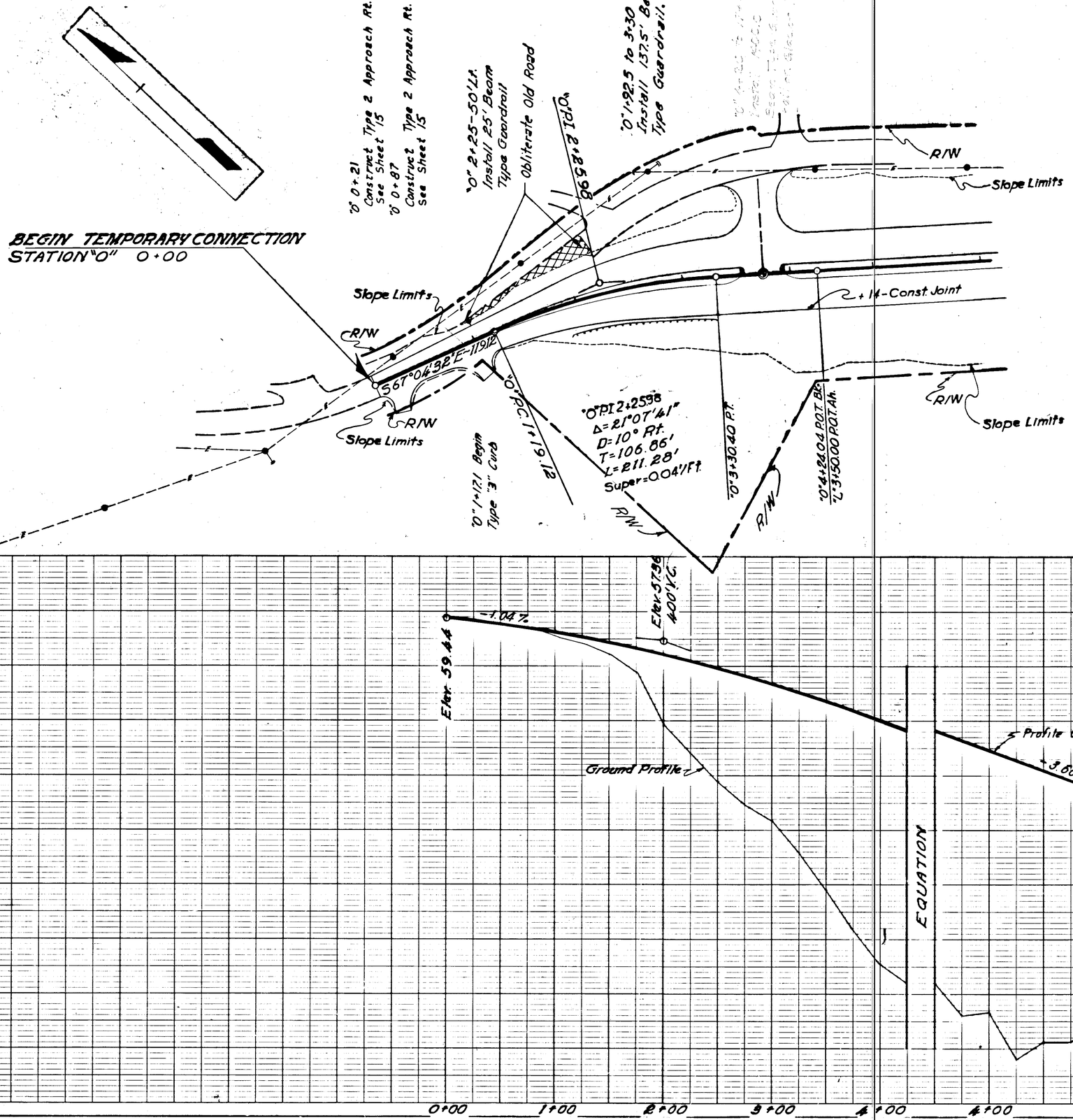
JUNEAU OUTER DRIVE-PHASE I
Project No. F-095-8(13)

MISCELLANEOUS DETAIL

Approved: Date:

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHEE
ALASKA	F-095-8(13)	1967	12	73

CONSTRUCTION PLANS



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

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	13	73

CONSTRUCTION PLANS

Sta 2" 9+50 End Type 3 Curb.
Sta 2" 9+50 Begin Concrete Curb & Gutter.
City Limits
RIW
Slope Limits
S 45°56'51"E ~ 1441.69'
END TEMPORARY CONNECTION
BEGIN PROJECT "L" 9+50
STA 12+69.69
End of Rip Rap
10+83
+65.15
Top of Rip Rap
Boat Dock
L=16+98.05 P.O.T.B.K.
L=16+98.05 P.C. Ahd.
Δ = 24°37'40"
D = 8°00' Rt.
T = 753.68'
L = 306.60'
Super = 0.04'/Ft
L=20+04.65 P.T.
0+18+31.73 P.I.
Elev. 34.52
V.C. 400'
-0.505%
Profile Grade
Ground Profile
Approx. Limits of Unsuitable Exc.
Elev. 30.29
V.C. 400'
-0.840%
5 6 7 8 9 10 1 2 3 4 15 6 7 8 9 20
90
20
10

PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	14	73

CONSTRUCTION PLANS

Glacier Ave.
See Sheet 17 for Intersection Details.
"SR21" 3+25-25' Rt. Begin Sidewalk
"SR21" 0+95-13.5' Rt. Begin 6' Chain Link Fence
"SR21" 1+20 Construct Type 2 Approach Lt. See Sheet 17
"O" 23+20 to 25+00 Paved Median with 1½" Hot Bituminous Pavement over 4" Crushed Aggregate Base.
"L" 27+78 to "L" 28+70 Pave Median per Detail Sheet 11
N 76°53'32" E
"O" 22+72.20 P.C.
Δ=27°10'49" D=10° Lt. T=138.51' L=271.80' S=0.04'/ft.
"O" 25+44.00 P.T. BK. = "L" 25+56.89 P.O.T. Ahd.
J-D High School
"L1" 32+31.68 P.I.
Irwin St.
R/W
Slope Limits
S 48°36'00" E ~ 505.40'
S 35°06'42" E ~ 904.30'
S-21°23'11" E ~ 267.55'
"O" 21+15.20 = "SR21" 0+00
"O" P.I. 24+10.71
N.C. Co.
Top of Rip Rap
"O" 20+00 to 20+94 Pave Median per Details Sheet 17
Ramp
See Sheet 11 for Median Details
"L1" 25+40-47.5' Rt. Begin 6' Chain Link Fence
"L1" 27+35-47.5' Rt. End 6' Chain Link Fence
"L1" 27+85-47.5' Rt. Begin 6' Chain Link Fence
"L" 27+60 Rt. Construct Approach See Sheet 11
"L1" P.C. 30+62.29
Δ=13°29'18" D=4° Rt. T=169.39' L=337.21' S=0.02'/ft.
EQ. "L1" P.T. 33+99.50 BK. = "L" P.O.T. 33+95.70 Ahd.
"L" 34+00-49.5' Rt. Begin 4' Sidewalk
"L" 34+00 BEGIN HARBOR WAY
Elev. 23.51 V.C. 400'
"O" 25+44.00 P.T. BK. = EQUATION "L" 25+56.89 P.O.T. Ahd.
Elev. 25.46 V.C. 400'
"L1" 33+99.50 P.T. BK. = EQUATION "L" 33+95.70 P.O.T. Ahd.
Elev. 23.70 V.C. 400'
-0.840%
+0.363%
-0.35%
Profile Grade
Ground Profile
+.32%
BEGIN HARBOR WAY STA. "L" 34+00 ELEV. 23.91
20 1 2 3 4 25 6 7 8 9 30 1 2 34 35

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

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	15	73

CONSTRUCTION PLAN

"L" 36+75 Construct Type 3 Approach Rt

"L" 37+90-49.5' Rt. End 6' Chain Link Fence

"L" 36+77 to "L" 39+53 Pave Median Strip With 1½" Hot Bituminous Pavement over 4" Crushed Aggregate.

"L" 38+55-49.5' Rt. Begin 6' Chain Link Fence

"L" 38+75-31' Lt. Begin 6' Chain Link Fence

"L" 37+94 - Construct 8' Sidewalk Across Median

"L" 37+90 Rt. End 4" Conc. Sidewalk

"L" 41+05 Construct Type 3 Approach Rt.

"L" 40+59.4 - 65' Lt. Construct Cul-De-Sac See Detail Sheet 11

"L" 42+37-37' Lt. End 6' Chain Link Fence

"L" 37+90-49.5' Rt. End 6' Chain Link Fence

12th St.

11th St.

10th St.

N 38°46'48"E

N 36°50'18"E

S 35°06'42"E ~ 904.30'

R/W

P.O.T.

38+27.50

See Sheet #18 for 12th St. Intersection Details.

Begin Sidewalk 0+58, 15.5' Rt. 12th St.

End Sidewalk SR 10 N. 0+85 Lt.

"L" 41+67 to 41+79.5 47' Lt. Install 12.5' Beam Type Guardrail

Slope Limits

"L" 42+92.42 = SR 10 0+00

S 38°06'42"E

"SR 10 N" 0+85 - Meet Existing Pavement

End Of Project Sta. "L" 43+162 P.O.T.

See Sheet #19 for 10th St. Intersection Details

"L" 42 + 53.81 - 72' Rt = "H" 0+00

2" 41+83 to 42+62 Pave Median, See Sheet 19

S 52°09'18"W

"H" Line

"SR 105" 0+98 - 31' Lt. Begin 6' Chain Link Fence

L 43+35-85' Rt. Install 25' Beam Type Guardrail

Slope Limits

"SR 105" 3+53 - 14.5' Lt. End 6' Chain Link Fence

"SR 105" 3+56 - Meet Existing Bridge

"H" 0+40 to 2+77.5 Rt. Install 237.5' Beam Type Guardrail.

SLOPE LIMITS

"SR 105" 0+84 - 14' Rt. End 6' Chain Link Fence.

"SR 105" 0+85 to 3+47.5 Rt. - Install 262.5' Beam Type Guardrail.

R/W

+0.32%

-0.575%

+2.2%

-0.62%

Ground Profile

Harbor Way Profile Grade

Elev. 25.35 V.C. 200'

Elev. 24.20 V.C. 200'

Elev. 27.50 V.C. 100'

42+54.81 Harbor Way = 0+72.08 Service Road

3+50 Elev 25.40

35 6 7 8 9 40 1 2 4 45

Outer Drive Profile Grade

+0.60%

-0.40%

Ground Profile

Elev. 27.60 V.C. 400'

END OF PROJECT STA. "L" 43+16.2 P.O.T. ELEV. 26.76

35 6 7 8 9 40 1 2 3 4 45

PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	16	73

CONSTRUCTION PLANS

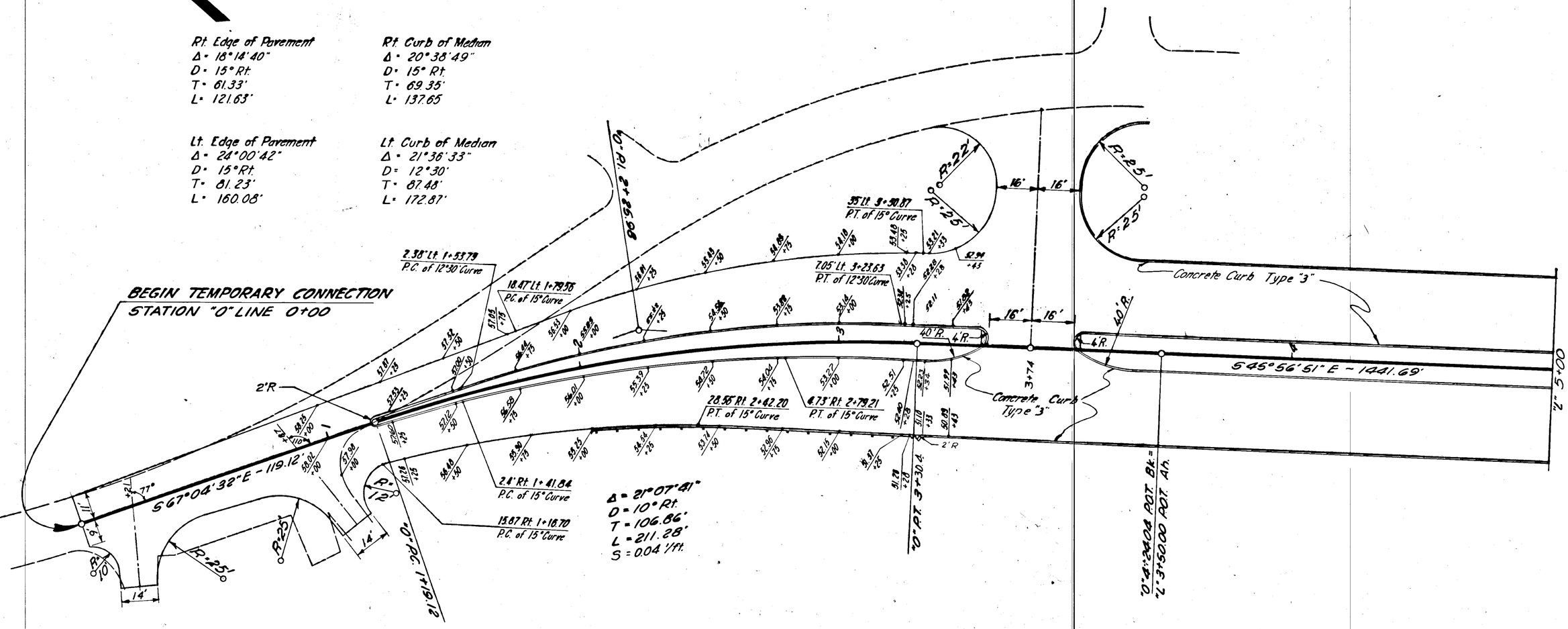
(INTERSECTION DETAIL)

Rt. Edge of Pavement
Δ = 18°14'40"
D = 15° Rt.
T = 61.33'
L = 121.63'

Rt. Curb of Median
Δ = 20°38'49"
D = 15° Rt.
T = 69.35'
L = 137.65

Lt. Edge of Pavement
Δ = 24°00'42"
D = 15° Rt.
T = 81.23'
L = 160.08'

Lt. Curb of Median
Δ = 21°36'33"
D = 12°30'
T = 67.48'
L = 172.87'



TEMPORARY TRANSITION

Note: All Median areas where width is 6' or less shall receive 1½" Hot Bituminous Pavement over 4½" Crushed Aggregate Base Course.

STATE of ALASKA
Department of Highways

JUNEAU OUTER DRIVE
Project No. F-095-8(13)

TEMPORARY CONNECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	17	73

CONSTRUCTION PLANS
(INTERSECTION DETAIL)

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

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	18	73

CONSTRUCTION PLANS
(INTERSECTION DETAIL)

Median Curb Curve Data: Δ=10°43'15"
R=286.43'
D=20°
T=26.76'

0+58
Meet Existing Pavement

Begin Sidewalk
15.5' Rt. & Lt.
0+58, 12th St.

4.5' 15' 15' 4.5'
+58.73 +61.55
R=25
R/W
4' Concrete Sidewalk
N56°46'48"E
R=40'
80° 06' 30"
+89.49
+48.53
+63.07
S 35°06'42"E
39+53
Pt. 39+19.07
PRC. 39+72.13
Pt. 40+25.19
Match Line 41+00
28'
4'
7'
36
37
38
40
Pt. 36+04.82
PRC. 36+57.88
36+77
PT. 37+10.93
36'
+85.93
+94.47
R=30'
R=1'
POT. 38+27.5
Pt. 40+72.66
40+80
47'
39+80
+92.5
+72.5
R=12.5'
+54.5
4' Concrete Sidewalk
8' Concrete Sidewalk
20'
12'
25'
38+25.12
S 35°06'42"E
HARBOR WAY
R/W

12th St. INTERSECTION DETAIL

+1.85 Meet Ex Pvt.
Profile Grade
Edge Pvt. Elev 25.30
Outer Drive ℄ Elev. 25.97
Edge Pvt. Elev 24.87
0+27 Harbor Way Elev 25.16
-2.0%
-2.0%
Existing Ground Profile
30'
20'
1+00
0+00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	19	73

CONSTRUCTION PLANS
(INTERSECTION DETAIL)

Begin Sidewalk 0+57.84, SR10N.

0+618.00 Construction Joint

S 38° 06' 42" E

END of PROJECT
Sta. "L" 43+16.2

Construction Joint 0+65.12

"SR10S" 2+65

End Sidewalk SR10S 3+58

"SR10S" 3+56 Meet Existing Bridge

"L" 43+00 P.I.
Δ 3° Lt.

"L" 42+92.42 = "SR10" 0+00

N 56° 50' 18" E

"SR10N" 0+85 Meet Exist. Pvmt.

S 52° 09' 18" W

10th STREET

P.C.C. 0+73.45

P.T. 1+25.06

200' R

40' R

30' R

1' R

62.25

78' R

+64.04

+48.59

+53.77

P.C.C. 42+44.02

P.C. 41+21.70

25' R

15' R.

"L" 42+53.81 = "H" 0+00

S 52° 09' 18" W

"SR10"

R/W

Outer Drive

2' R

0+36.2

16'

0+44.8

9.3'

0+32.8

5½' R

Paved Island with 1½" Hot Bituminous Pavement over 4½" Crushed Aggregate Base Course.

TRAFFIC ISLAND DETAIL

28'

5

42

47'

72'

P.T. 41+78.77

PRC. 41+25.71

Match Line Sta. 41+00

Note: All Median areas where width is 6' or less shall receive 1½" Hot Bituminous Pavement over 4½" Crushed Aggregate Base Course.

Median Curb Curve Data: Δ 10° 13' 15"
R 286.43
D 20°
T 26.76

"H" Line

-0.62 %

Service Road Profile Grade

Service Road Ground Profile

Elev. 27.16

Elev. 25.40 Meet Ex. Pvt.

"SR10" Ground Profile

Elev. 38.33
100' V.C.

+4.85%

+6.25%

"SR10" Profile Grade

"SR10S" 3+56 Ex. Bridge Elev.

-2.0%

-1.01%

"SR10" 0+85 Meet Ex. Pvt.

Elev. 24.14

Elev. 24.83

Elev. 25.82
100' V.C.

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

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	20	73

DRAINAGE SUMMARY

STORM SYSTEM PIPE SUMMARY

LOCATION FROM	LOCATION TO	STATION	PIPE INVERT ELEV. INLET (FEET)	PIPE INVERT ELEV. OUTLET (FEET)	603(26) PIPE CONDUIT 8" (LIN. FT.)	12"	18"	24"	30"	36"	42"	Porous Backfill 605 (20) cu. yd.	Structural Excavation 206 (1) Cu. Yd.	Max. Height of Fill
Inlet ①	M.H. 4	"0" 3+28	49.00	45.00		62							3	7
M.H. 4	Inlet ②	"0" 3+00	43.00	41.68					43				55	10
M.H. 3	M.H. 2	"L" 3+50	38.80	23.00					145				9	21
M.H. 2	M.H. 1	"L" 3+50	22.10	15.10							238		140	5
M.H. 1	End of outfall	"OL" 2+38.3	15.00	0.00							372		310	3
Inlet ②	M.H. 3	"L" 3+40	41.68	39.00					87				110	10
Inlet ③	MH.2.	"L" 3+82	43.73	26.50		45							0	7
Inlet ⑤	M.H. 6	"L" 5+48	30.80	30.00				80					190	12
M.H. 6	M.H. 5	"L" 6+25	27.30	26.50						106			4	9
M.H. 5	M.H. 2	"L" 6+25	26.30	22.20						270			0	9
Inlet ⑦	Inlet ⑥	"L" 7+47	35.50	28.75			50						25	5
Inlet ⑥	M.H. 6	"L" 7+00	28.55	27.50			74						43	12
Inlet ⑧	Inlet ⑨	"L" 8+00	31.61	30.31		70							0	4
Inlet ⑨	M.H. 5	"L" 8+00	30.21	28.00		174							0	8
Cleanout	Inlet ⑫	"L" 7+40	26.90	25.00	510							370	435	12
Inlet ⑩	Exist. M.H. "L" 12+72 Lt.	"L" 11+10	35.50	22.50			166						86	5
Inlet ⑰	M.H. 10	"L" 16+10	27.25	24.25		10							49	5
Inlet ⑫	Exist. M.H. "L" 12+72 Lt.	"L" 12+50	24.75	24.25			24						16	5
Inlet ⑭	M.H. 7	"L" 13+81	36.30	35.00		60							71	9
M.H. 7	M.H. 8	"L" 14+42	31.90	24.00				156					370	13
M.H. 8	M.H. 10	"L" 15+95	23.90	21.90				87					95	7
Inlet ⑬	Exist. M.H. "L" 12+85.5 Rt.	"L" 12+74	27.72	23.00		24							0	5
Inlet ⑮	Inlet ⑫	"L" 12+00	28.55	26.50		50							17	5
Inlet ⑯	M.H. #8	"L" 15+00	27.00	25.00		98							102	12
Inlet ㉝	Inlet ㉔	"L" 33+55	16.00	15.40		80							77	7
Inlet ⑱	Inlet ⑳	"0" 20+15	23.35	19.35		84							50	5
Inlet ⑳	Exist. M.H. "0" 21+08 Lt.	"0" 20+80	19.25	14.58			32						43	10
Inlet ⑲	Exist. M.H. "0" 21+06 Lt.	"0" 21+03	22.23	20.00		74							22	10
Inlet ㉒	Inlet ㉑	"SR21" 0+60	22.40	21.40		45							10	4
Inlet ㉑	Exist. M.H. "0" 21+06 Lt.	"SR21" 0+60	21.30	20.00		20							16	6
Inlet ㊳	Exist. M.H. "L" 38+17 Rt.	"L" 38+12	19.50	18.50		11							2	4
Inlet ㉔	Inlet ㉕	"L" 34+22	15.30	14.90		40							50	9
Inlet ㉓	M.H. 9	"L" 34+22	14.80	14.30		51							72	10
Inlet ㉗	Inlet ㉖	"L" 34+00	20.60	20.00		32							12	9
Inlet ㉘	M.H. 9	"L" 34+00	19.90	18.50		16							11	5
Inlet ㉙	Inlet ㉔	"L" 35+75	21.70	20.00		153							79	4
Inlet ㉙	Inlet ㉚	"L" 38+72	22.28	21.45		70							16	4
Inlet ㉚	Exist. M.H. "L" 38+17 Rt.	"L" 38+72	21.35	18.50		64							29	6
Inlet ㉛	Exist. M.H. "L" 40+84 Rt.	"L" 40+82.63	21.00	19.00		186							71	5
Inlet ㉜	Exist. M.H. "SR105" 0+98 Lt.	"SR105" 0+59	23.04	21.50		50							22	8
Inlet ㉝	Exist. M.H. "SR105" 0+90 Lt.	"SR105" 0+59	22.33	21.50		44							24	8
Inlet ㉞	MH 40+54	"L" 39+90	21.73	19.00		64							21	6
Inlet ㉟	Inlet ㉞	"L" 39+90	22.03	21.73		21							3	3
Inlet ㉓	Inlet ㊱	"0" 24+79.25	20.80	19.20		44							10	3
Inlet ㊱	EX. M.H. @ 25+08 Lt	"0" 24+79.25	19.10	18.00		25							10	4
Inlet ㊲	EX. M.H. 27+30 Lt	"L" 27+80	22.00	20.10		100							12	4
MH #10	Exist. M.H. "L" 16+00 Rt.	"L" 16+00	21.50	12.00				85					44	7
				Totals	510	1817	346	408	275	376	610	370	2,843	

MANHOLE ADJUSTMENTS

STATION	LOCATION FEET	TYPE OF STRUCTURE	COVER ELEV. EXIST. ELEV.	COVER ELEV. PROP. ELEV.	ADJUST. HEIGHT FEET
"L" 12+72	33' Lt.	C.M.P.	30.00	31.22	+ 1.22
"0" 21+04	82' Lt.	C.M.P.	24.50	25.50	+1.00
"0" 25+08	34' Lt.	C.M.P.	24.04	22.76	-1.28
"L1 31+28	28' Rt.	Concrete	21.88	24.28	+ 2.40
"L" 38+17	65' Rt.	Concrete	25.16	25.00	- 0.16
"L" 40+54	70' Rt.	Concrete	24.84	24.88	+ 0.04
"SR105" 0+98	5' Lt.	Concrete	29.13	26.61	- 2.52

EXISTING WATER SYSTEM REVISIONS

STATION	DISTANCE LEFT	DISTANCE RIGHT	ADJUST METER	REMOVE HYDRANT	ADJUST VALVES	REMARKS
"L" 40+83	85'		/			
"L" 42+75		43'		/		& Relocate
"L" 32+45		49'		/		& Relocate
"L" 42+78		46'			/	
"L" 42+78		62'			/	
"L" 43+15		110'	/			
"L" 38+71		57'				Adjust Hyd.
"L" 32+45		42'				Adjust Hyd.
Totals			2	1	2	

BITUMINOUS COATED C.M.P. 603(6)

STATION	LEFT	INVERT	RIGHT	INVERT	REMARKS
"L" 30+62	52'	15.8	78'	16.8	Install 21"x130'
"L" 37+00	50'	17.0	100'	18.0	Install 21"x150'
"L" 41+12	61'	19.0	93'	20.0	Install 21"x154'

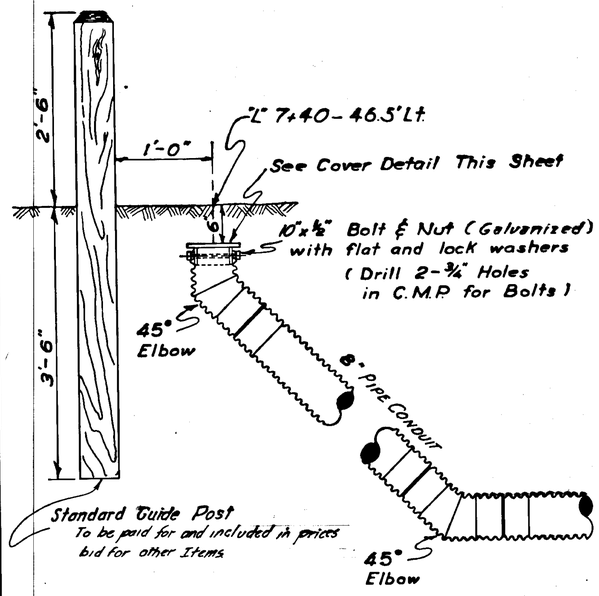
STORM SYSTEM STRUCTURE SUMMARY

STATION	LOCATION	STRUCTURE	604(1) MANHOLE	604(2) INLET TYPE "A"	604(2) INLET TYPE "C"		604(4) CLEANOUT	STRUCTURE ELEVATION COVER	STRUCTURE ELEVATION INVERT
"OL" 2+38.3	℄	M.H. 1	1					25.00	15.00
"0" 3+00	60' Lt.	M.H. 4	1					52.00	43.00
"0" 3+28	7' Lt.	Inlet ①		1				52.37	48.99
"0" 3+40	67' Lt.	Inlet ②			1			46.00	41.65
"L" 3+50	82' Lt.	M.H. 3	1					48.80	38.80
"L" 3+50	63' Rt.	M.H. 2	1					34.10	22.10
"L" 3+82	35' Rt.	Inlet ③		1				46.73	43.73
"L" 5+48	80' Lt.	Inlet ⑤			1			35.00	30.80
"L" 6+25	59' Lt.	M.H. 6	1					38.00	27.30
"L" 6+25	47' Rt.	M.H. 5	1					35.30	26.30
"L" 7+00	51' Lt.	Inlet ⑥			1			32.00	28.55
"L" 7+40	46.5' Lt.	Cleanout					1	32.80	26.90
"L" 7+47	63' Lt.	Inlet ⑦			1			41.00	35.50
"L" 8+00	35' Lt.	Inlet ⑧		1				34.45	31.61
"L" 8+00	35' Rt.	Inlet ⑨		1				34.44	30.21
"L" 11+10	58' Lt.	Inlet ⑩*			1			41.00	35.50
"L" 12+50	46.5' Lt.	Inlet ⑫			1			30.10	24.75
"L" 12+74	35' Rt.	Inlet ⑬		1				31.18	27.72
"L" 13+81	66' Lt.	Inlet ⑭*			1			42.50	36.30
"L" 14+42	72' Lt.	M.H. 7	1					43.00	31.90
"L" 12+00	35' Lt.	Inlet ⑮			1			31.55	28.55
"L" 15+00	35' Lt.	Inlet ⑯		1				30.04	27.00
"L" 15+95	50' Lt.	M.H. 8	1					36.00	23.90
"L" 16+10	35' Rt.	Inlet ⑰			1			29.50	27.25
"0" 20+15	7' Lt.	Inlet ⑱			1			26.60	23.35
"0" 20+80	62' Lt.	Inlet ⑳				1		23.50	19.25
"0" 21+03	35' Rt.	Inlet ⑲		1				25.55	22.23
"SR21" 0+60	16' Lt.	Inlet ㉑		1				24.55	21.30
"SR21" 0+60	27' Rt.	Inlet ㉒		1				24.24	22.40
"0" 24+79.25	2' Lt.	Inlet ㉓		1				23.80	20.80
"L1" 33+91	59' Rt.	M.H. 9	1					24.20	13.50
"L1" 33+97	7' Lt.	Inlet ㉔		1				24.00	19.90
"L1" 33+97	35' Rt.	Inlet ㉕		1				23.44	19.10
"L" 34+00	52' Rt.	Inlet ㉖		1				23.47	19.90
"L" 34+00	84' Rt.	Inlet ㉗		1				23.67	20.60
"L" 35+75	35' Lt.	Inlet ㉘		1				23.98	21.70
"L" 38+72	35' Lt.	Inlet ㉙		1				25.52	22.28
"L" 38+72	35' Rt.	Inlet ㉚		1				25.52	21.35
"L" 40+76.9	65.5' Lt.	Inlet ㉛		1				23.23	21.00
"SR105" 0+59	28' Lt.	Inlet ㉝		1				25.77	22.33
"SR105" 0+59	272 Rt.	Inlet ㉜		1				25.86	23.04
"L" 39+90	60 Rt.	Inlet ㉞		1				24.41	22.03
"L" 39+90	84 Rt.	Inlet ㉟		1				24.41	21.73
"0" 24+79.25	44' Lt.	Inlet ㊱		1				22.12	19.20
"L" 27+80	40 Rt.	Inlet ㊲		1				24.04	22.00
"L" 38+12	55' Rt.	Inlet ㊳		1				25.00	18.50
"L" 16+00	38' Rt.	M.H. #10	1					30.20	21.50
"L" 33+55	47' Lt.	Inlet ㉝			1			20.00	16.00
TOTAL			10	27	10		1		

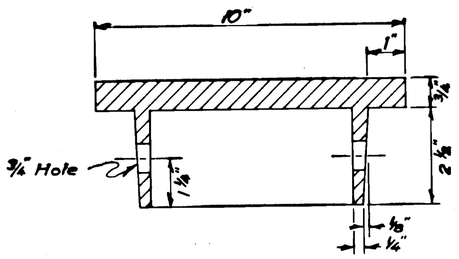
* Solid Cover See Detail on Sheet "20"

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	21	73

DRAINAGE PLANS
(MISCELLANEOUS DETAILS)



Cleanout Connection

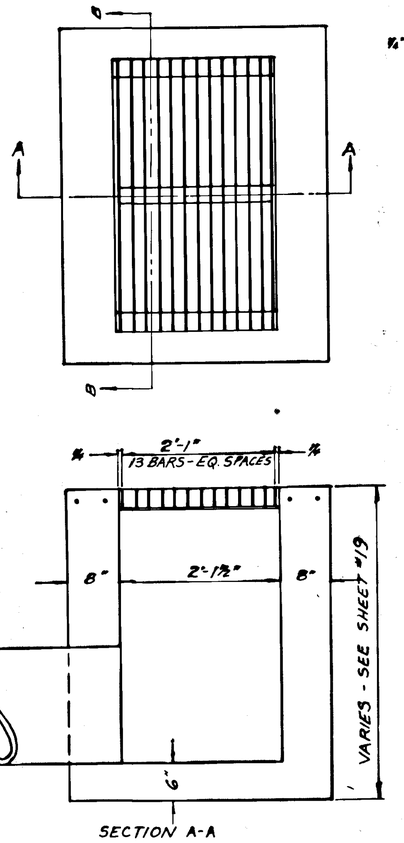


Cast iron cover material shall meet the requirements of AASHO M105-57, Class 30

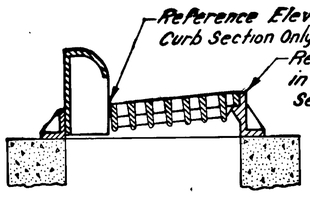
Cast Iron Cover Section

CLEANOUT DETAILS

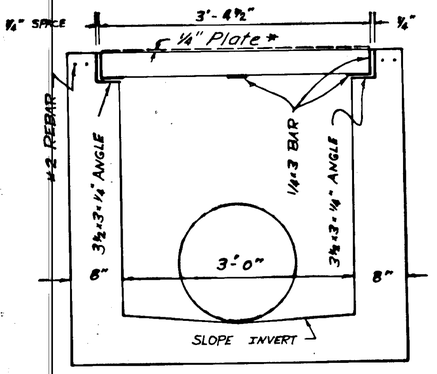
TYPICAL SUBDRAIN TRENCH SECTION



TYPE 'C' INLET DETAIL



TYPE "A" INLET



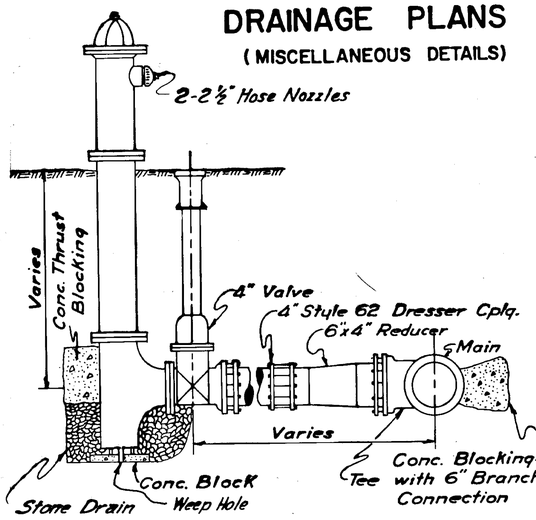
SECTION B-B

MATERIALS :

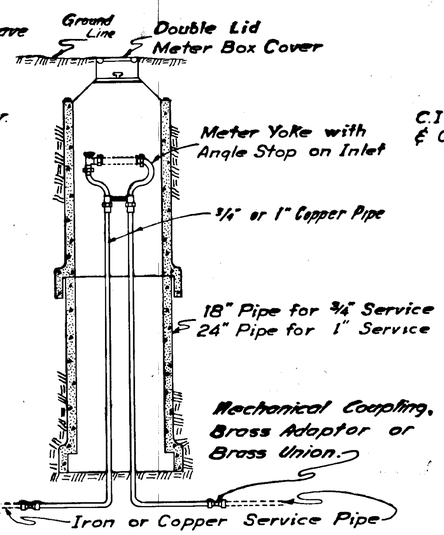
(13)	3" x ½" x 3'-4" BARS
(5)	3" x ¼" x 2'-1" Bars
(1)	3'-4½" x 2'-1" x ¼" Plate *
(2)	3½" x 3" x ¼" Angles
(4)	#2 ø x 2'-0" Rebars
(4)	#2 ø x 4'-0" Rebars

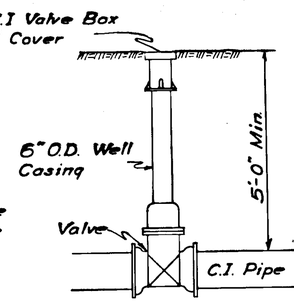
Note:
A cast iron grate may be used in lieu of the steel grate shown.

* Inlets 10 and 14 shall have a solid cover of steel or cast iron with an approx. weight of 200#, subject to the Approval of the Engineer.

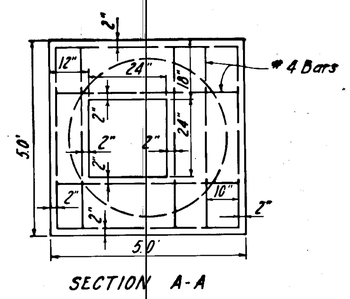


TYPICAL EXISTING HYDRANT





TYPICAL EXISTING VALVE



SECTION A-A

EXIST. MANHOLE "O" 25+08 Lt.

TYPICAL EXISTING METER SERVICE

REVISIONS		
No.	Date	Description

STATE of ALASKA
Department of Highways

JUNEAU OUTER DRIVE - PHASE
Project No. F-095-8 (13)

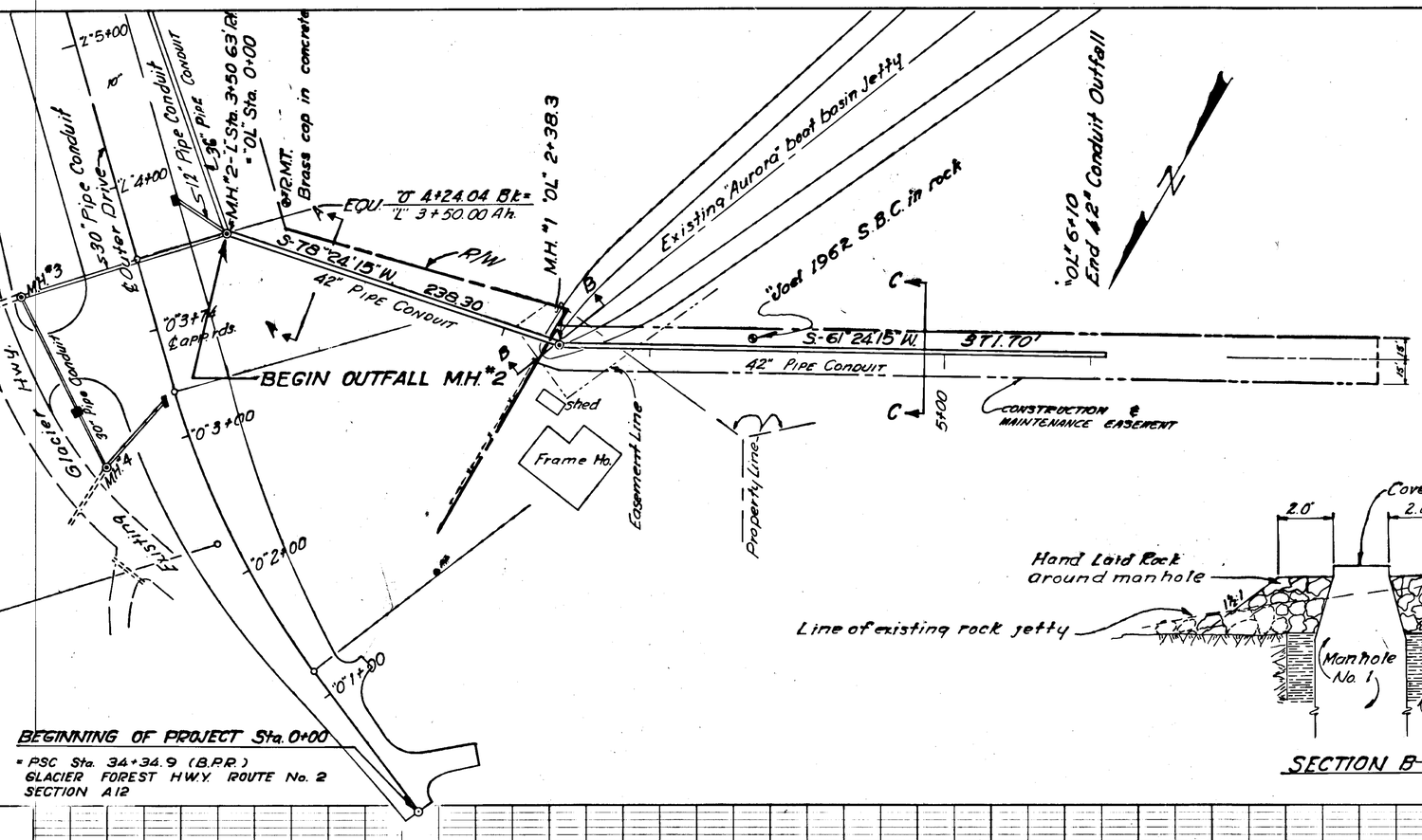
WATER & STORM SYSTEM
MISCELLANEOUS DETAILS

Approved: Date:

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	22	73

DRAINAGE DETAILS

(OUTFALL DETAILS)

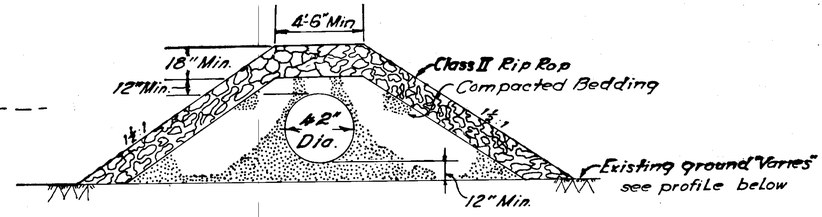


SECTION C.C.

"OL" Sta. 2+38 to 6+10

OUTFALL PROTECTION DETAILS

SECTION B-B



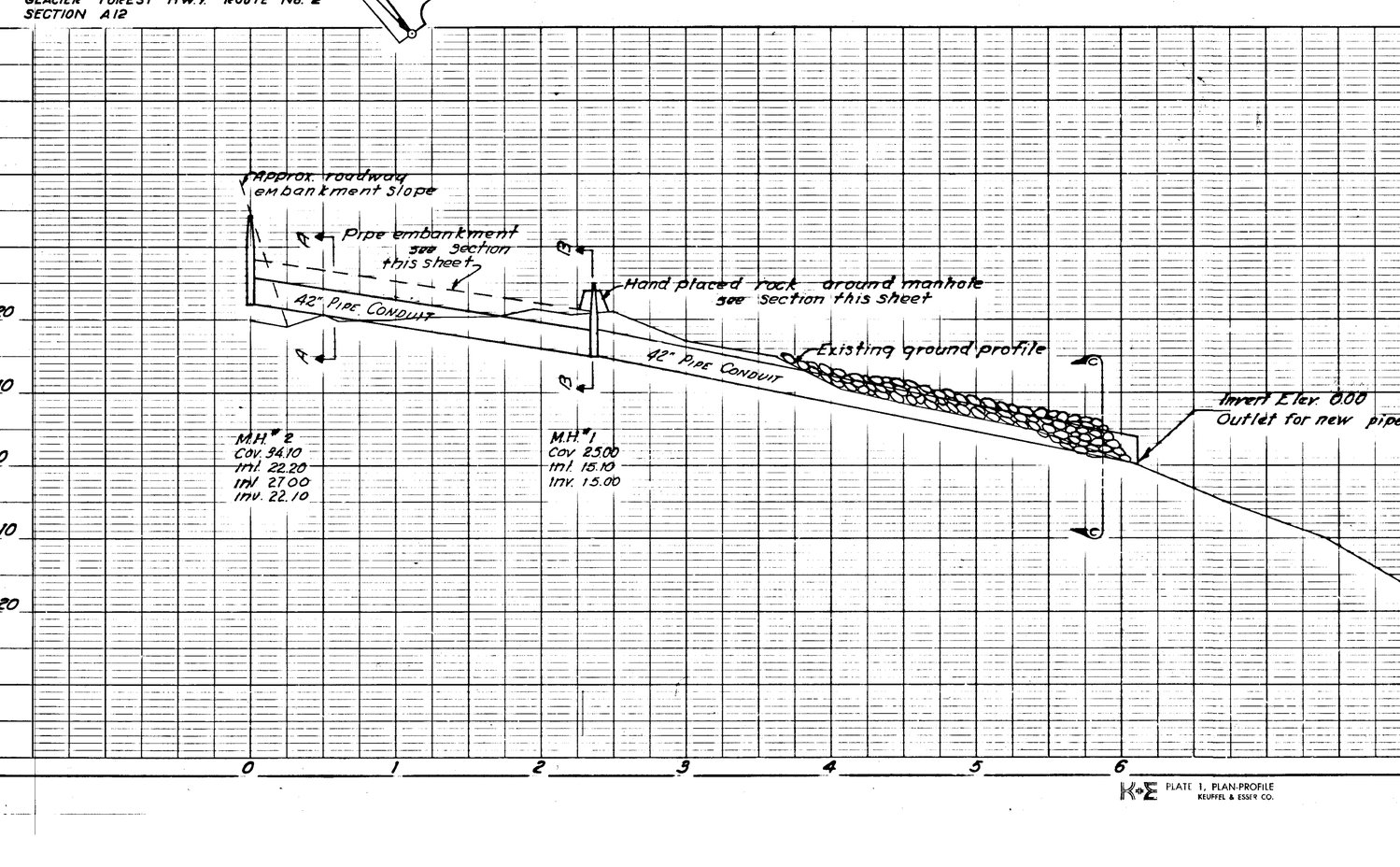
SECTION A-A

TYPICAL EMBANKMENT FOR 42" PIPE CONDUIT

"OL" Sta. 0+00 to 2+38

BEGINNING OF PROJECT Sta. 0+00

= PSC Sta. 34+34.9 (B.P.R.)
GLACIER FOREST HWY. ROUTE No. 2
SECTION A12



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

STATE of ALASKA
Department of Highways

JUNEAU OUTER DRIVE - PHASE I

Project No. F-095-8(13)

STORM SYSTEM – OUTFALL

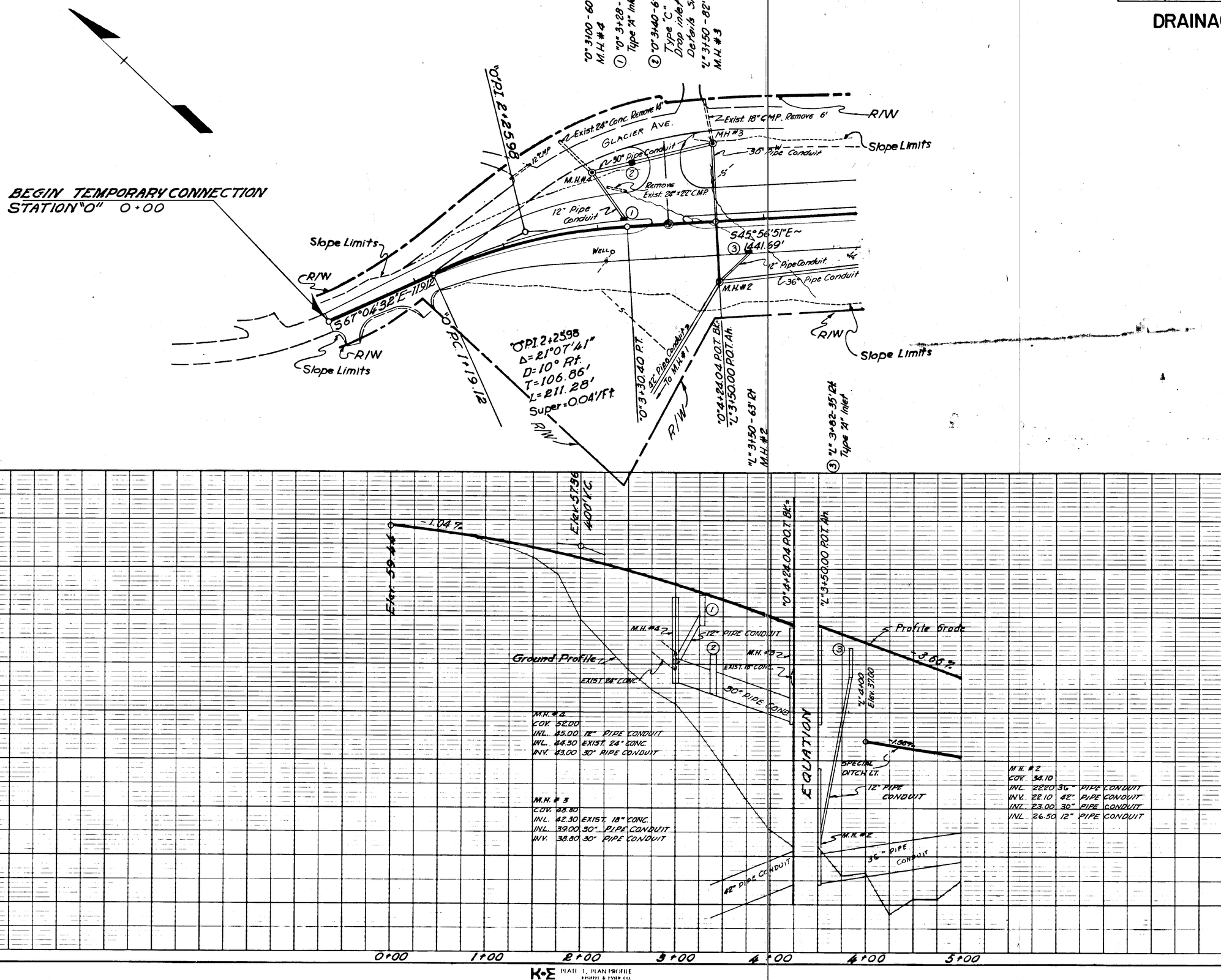
"L" P.O.T. 3+50 to "OL" 7+65

Approved: Date:

REVISIONS		
No.	Date	Description

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	23	73

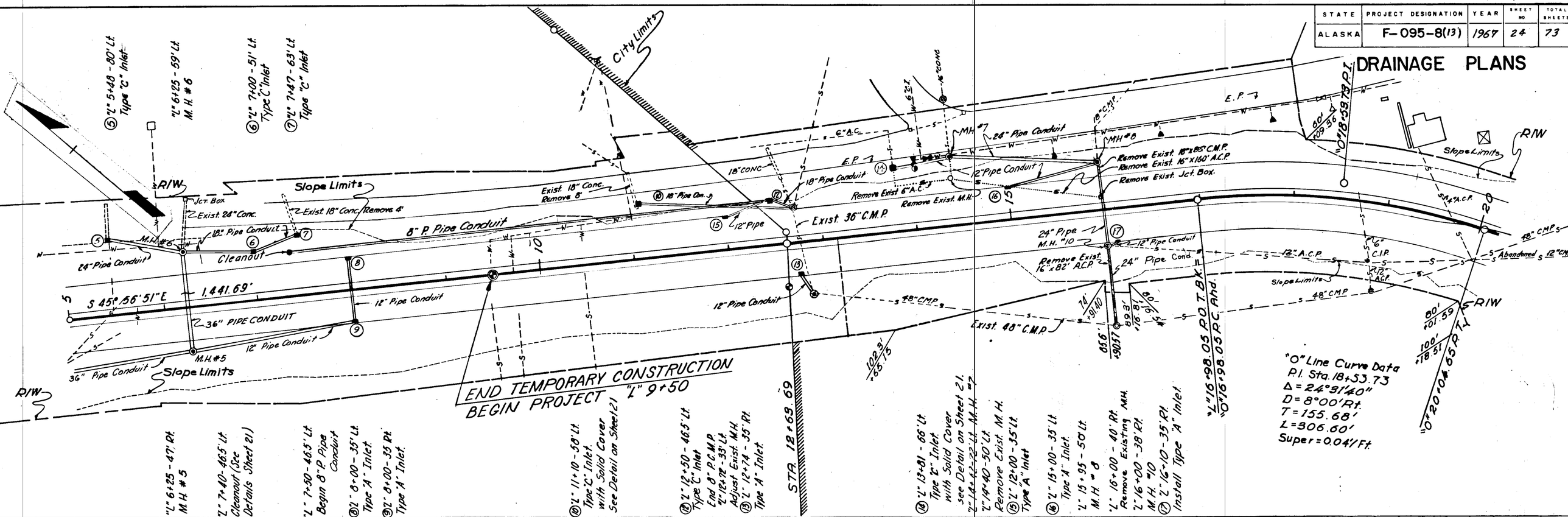
DRAINAGE PLANS

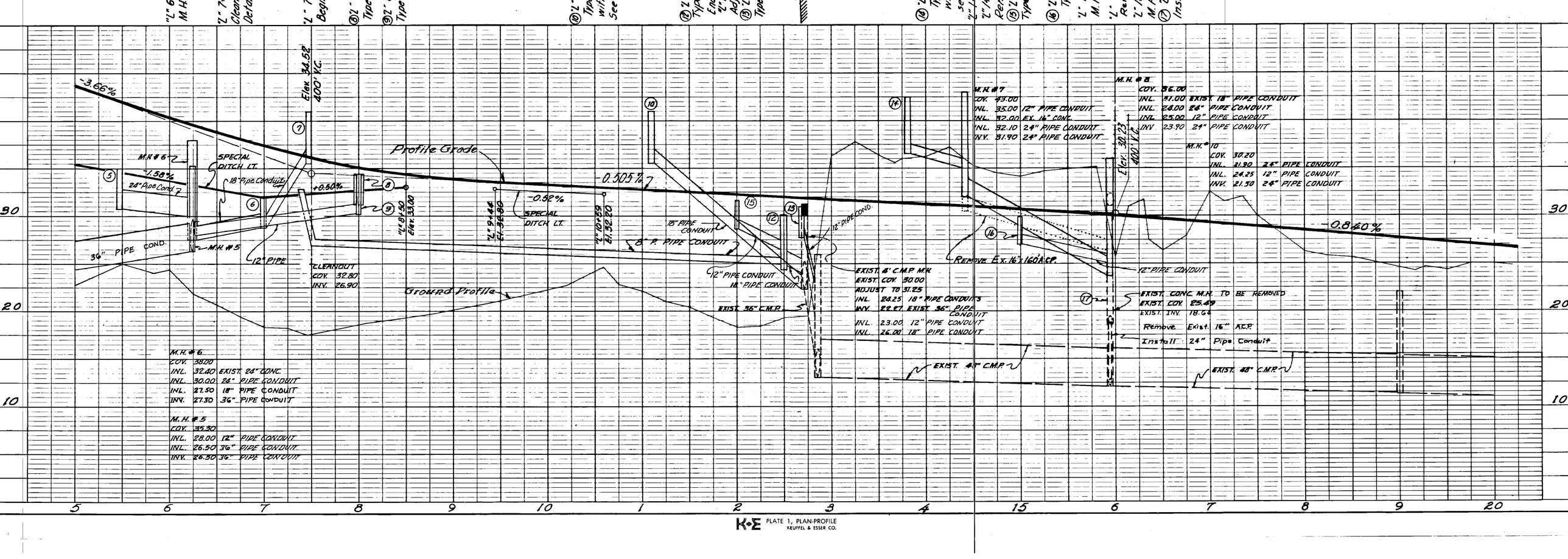


K-E PLATE 1, PLAN PROFILE
PRINTED IN U.S.A.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	24	73

DRAINAGE PLANS

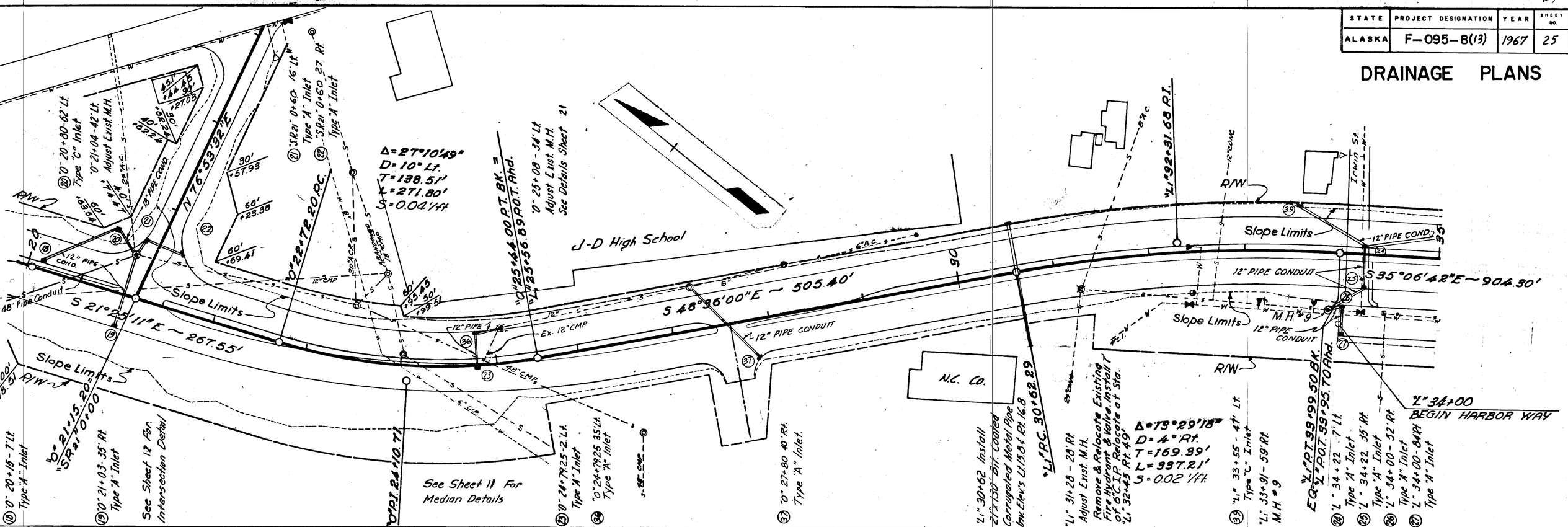




K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
ALASKA	F-095-8(13)	1967	25	73

DRAINAGE PLANS



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

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	26	73

DRAINAGE PLANS

Note:
See Sheet 18 For 12th St. Intersection Details

Note:
See Sheet 11 For Cul-De-Sac Details

Note:
See Sheet 19 For 10th St. Intersection Detail

12" PIPE CONDUIT

S 35°06'48"E ~ 904.90'

R/W

Slope Limits

12" PIPE CONDUIT

12" PIPE CONDUIT

12" PIPE CONDUIT

S 38°06'42"E

END OF PROJECT
STA. "L" 43+16.2 P.O.T.

N 56°50'18"E

S 32°09'18"W

Slope Limits

Slope Limits

R/W

R/W

R/W

(28) 2" 35+75 - 35' Lt. Type "A" Inlet

(38) 2" 38+12 - 55' Rt. Type "A" Inlet

2" 37+00 Install 21"x 150' Bit. Coated C.M.P. Inv. Elev's 180 Pt. & 170 Lt.

1" 38+17 - 65' Rt. Adjust Exist. M.H.

(29) 2" 38+72 - 35' Lt. Type "A" Inlet

(30) 1" 38+72 - 35' Rt. Type "A" Inlet

(34) 1" 39+90 60' Rt. Type "A" Inlet.

(33) 2" 39+90 84' Rt. Type "A" Inlet.

2" 38+71 57' Rt. Adjust Fire Hydrant

1" 40+54 70' Rt. Adjust Existing M.H.

(31) 1" 40+82.63 63' Lt. Type "A" Inlet

2" 41+12 Install 21"x 154' Bit. Coated Corrugated Metal Pipe Skew 10° Lt. Ahd. Invert Elev's 200 Pt. & 190 Lt.

Remove & Relocate Existing Fire Hydrant. Install 43' of 6" C.I. Pipe & 6" Gate valve. Relocate at Sta. 41+90.

"S" R10s 1+13 Remove Existing Inlet & Culvert 15' Lt.

(33) "S" R10s" 0+59 - 28' Lt. Type "A" Inlet

(32) "S" R10s" 0+59 27.2' Rt. Type "A" Inlet

"S" R10s" 0+98 - 5' Lt. Adjust Exist. M.H.

Add 24" S.E.M.H. at 12th St.

Profile & Grade

EXIST. CONC. M.H.
EXIST. COV. 25.16
ADJUST TO 25.00
INL. 18.50 12" PIPE CONDUIT
INV. 15.51

+0.60 %

Profile Grade

Ground Profile

-0.40 %

END OF PROJECT
STA. "L" 43+16.2 P.O.T.

12" PIPE CONDUIT

12" PIPE CONDUIT

EXIST. CONC. M.H.
EXIST. COV. 24.88
ADJUST TO 24.88
INL. 19.00 12" PIPE CONDUIT
INV. 17.08

EXIST. CON. M.H.
COV. 25.39
INV. 18.26

12" PIPE CONDUIT

12" PIPE CONDUIT

EXIST. CONC. M.H.
EXIST. COV. 29.13
ADJUST TO 26.61
INL. 21.50 12" PIPE CONDUITS
INV. 19.37

30
20

35 6 7 8 9 40 1 2 3 4 45

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

SUMMARY OF STANDARD SIGNS

REVISIONS		
No.	Date	Description

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	27	73

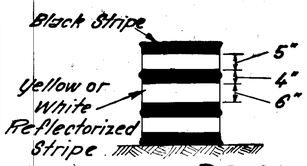
SUMMARY OF SIGNS

TYPE	SIZE	DESCRIPTION	SHEET NUMBER 33	34	36	37	38	39	TOTAL
R1-1B	30x30	Stop		1	2	2	4		9
R1-2	36x36x36	Yield						1	1
R2-1B	24x30	Speed Limit 25						1	1
R2-1B	24x30	Speed Limit 35	4	2			2	2	10
R3-5L	30x36	↖ Only						1	1
R3-5L(Mod)	60x36	South Alaska 7 ↖ Only						1	1
R3-5R(Mod)	60x36	↗ West Juneau Only Douglas						1	1
R3-7L	30x30	Left Lane Must Turn Left	1			1	4		6
R4-8R	24x30	Keep ↗ Right		2	3	4	2	1	12
R5-1	24x24	Do Not Enter			1	2		1	4
R6-1L	36x12	One Way ←		1	2	1	2	1	7
R6-1R	36x12	One Way →		1	1	1	2	1	6
R6-3	24x30	Two Way Traffic Ahead			1				1
R7-1L	12x18	No Parking Anytime ←						2	2
R7-1R	12x18	No Parking Anytime →					1	2	3
R7-1LR	12x18	No Parking Anytime ↔						3	3
R7-4L	12x18	No Stopping or Standing ←		1	1				2
R7-4R	12x18	No Stopping or Standing →			1				1
R7-4LR	12x8	No Stopping or Standing ↔	1	5	3	4	4	8	31
R9-5	12x18	No Pedestrian Crossing						2	2
R9-7	9x12	Push Button For Walk Signal						2	2
W1-1L	30x30	↰						1	1
W1-1R	30x30	↱					1		1
W1-6	48x24	→						3	3
W1-7A	48x24	↔					1		1
W1-7B	72x36	↔						1	1
W3-1	30x30	Stop Ahead			1				1
W4-2	30x30	⩚	2						2
W5-1	30x30	Road Narrows						1	1
W5-2	30x30	Narrow Bridge						1	1
W6-1	36x36	Divided Highway			1				1

TYPE	SIZE	DESCRIPTION	SHEET NUMBER 33	34	36	37	38	39	TOTAL
W6-2	36x36	Divided Highway Ends			2		2		4
W12-1	24x24	⩚						1	1
W13-1A	18x18	10 MPH						1	1
W13-1A	18x18	5 MPH					1		1
W14-6	18x18	9 Button Hazard Marker		2	4	4	2	4	16
W14-2	30x30	Dead End			1		2	1	4
W8-8R	30x30	Right Lane Ends 600 Ft.	2						2
W14-7	6x15	3 Button Hazard Marker						1	1
W14-5	144x72	Barricade Board						1	1
M1-2	24x24	Alaska 7			2	2	2	5	11
M3-1L	21x15	↰					1	1	2
M3-1R	21x15	↱						1	1
M4-1	21x15	→						1	1
M6-1	21x9	North						1	1
M6-1	21x9	South						1	1
D-1	72x36	Detailed						1	1
D-2	72x36	Detailed	1						1
D-3	30x8	Outer Drive Detailed			1	2	2		5
D-3	30x8	12th St. Detailed					2		2
D-3	30x8	Highland Drive Detailed			2				2
D-3	30x8	10th St. Detailed						2	2
D-3	30x8	Harbor Way Detailed					1		1
D-5	36x18	Juneau City Limit	1						1
D-6		Milepost	1						1

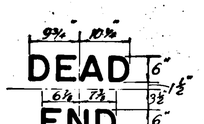
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	28	7

SIGN DETAILS

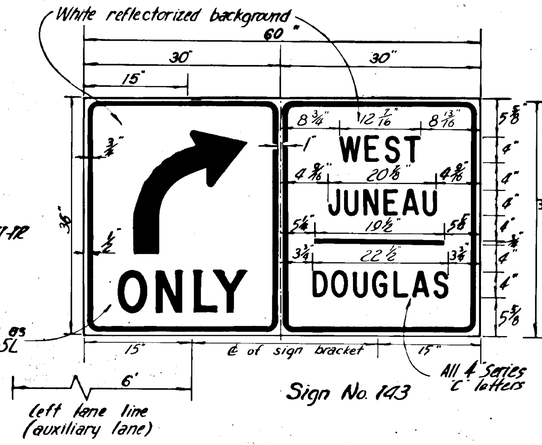


55 GAL. DRUM

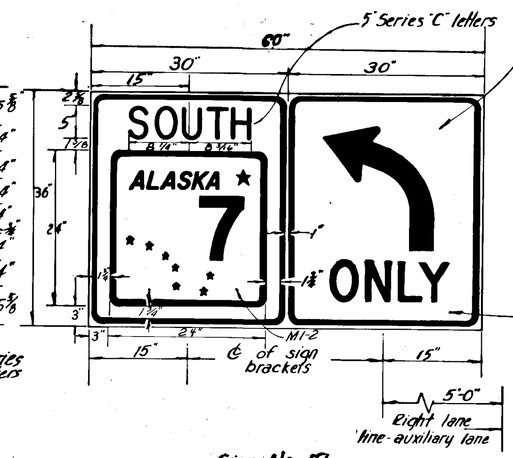
Stripe Adjustment to be made in upper & lower stripes. Drums to be filled within 6" of the top with dirt.



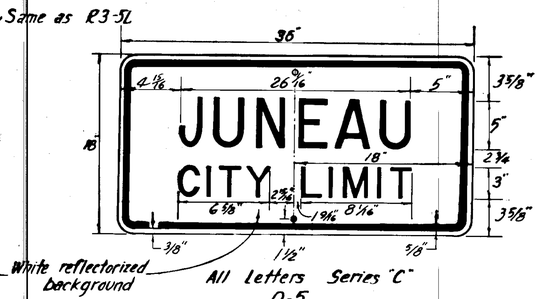
For plate details, see W1-12
30"x 30"
6" Series "D" letters
W14-2



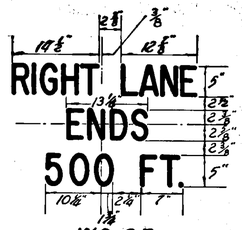
Sign No. 143



Sign No. 151

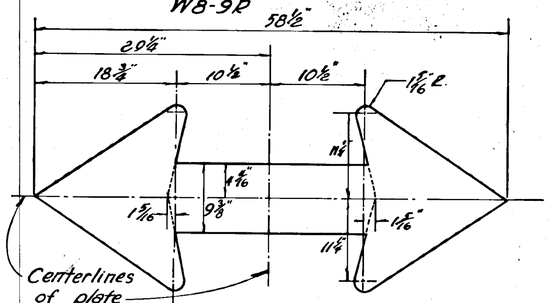


All Letters Series "C"
D-5
36" x 18"

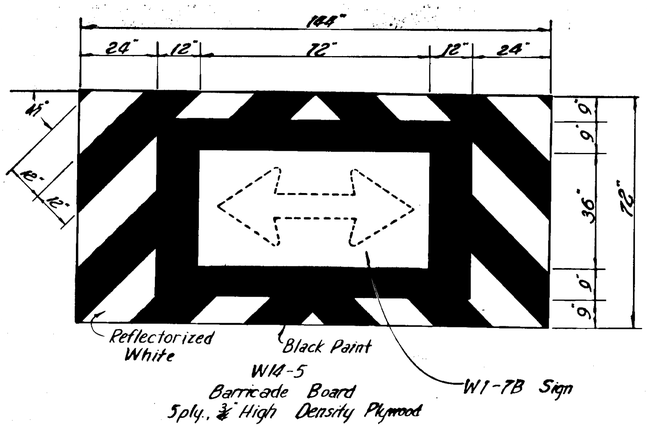


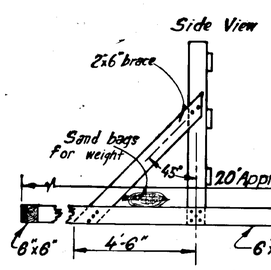
For plate details, see W1-1
36"x 36"
All letters & numerals 5" Series "C"

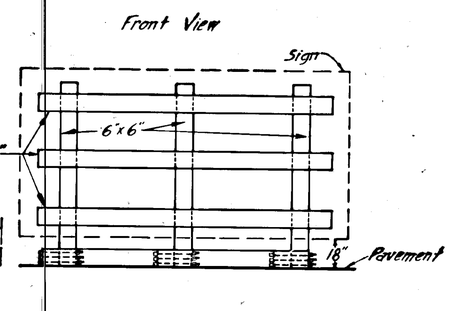
W8-9R



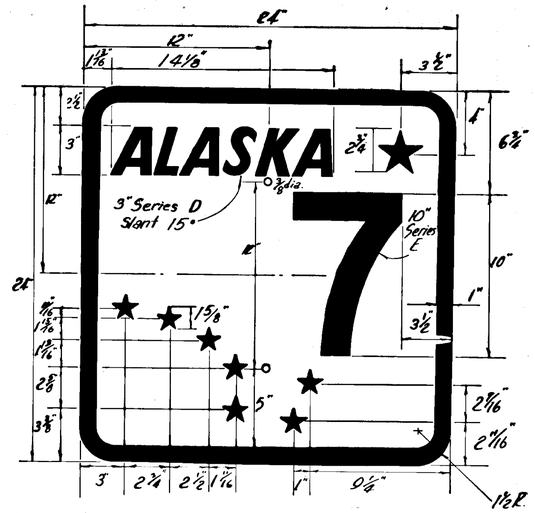
For plate details, see W1-6A
72" x 36"
W1-7B





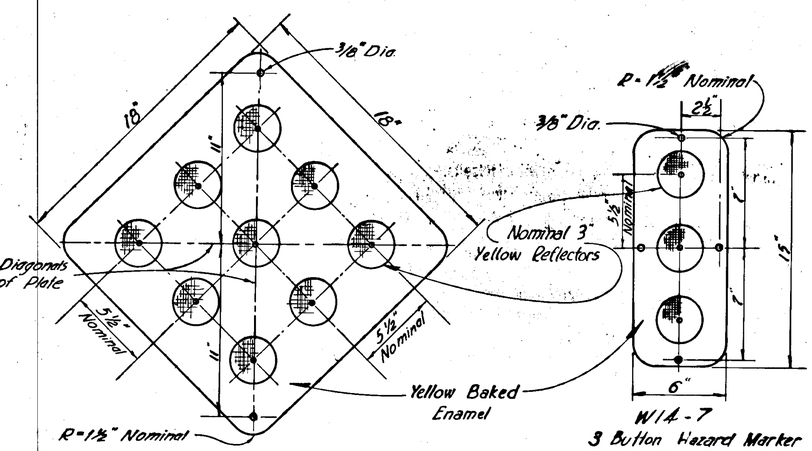


Movable Type Barricade for W14-5 Sign



Silk Screen process, black legend on white reflectorized background

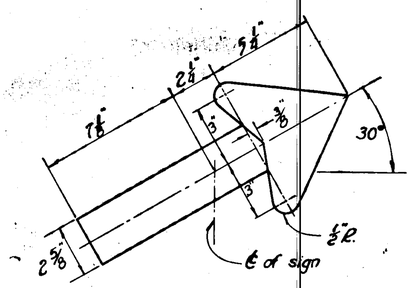
M1-2 Route Marker



W14-6
9 Button Hazard Marker
18" x 18"
(See Standard Drawing T-1 for Mounting Details)

W14-7
3 Button Hazard Marker
6" x 15"

R4-8
24" x 30"



Arrow Details For R4-8

NOTES:
1. All holes in signs to be ⅜" for ⅝" bolts.
2. All supports on Frontage Roads and cross streets to be steel channels.
3. All posts on islands to be 4"x4" timber.
4. All signs indicated to be strapped to signal and light standards are to be strapped with stainless steel straps using flared leg sign brackets, or equal.

REVISIONS		
No.	Date	Description

SIGN DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHE
ALASKA	F-095-8(13)	1967	29	73

4 INCH, SERIES C CAPITALS; INCH LOWER CASE (3 INCHES, SERIES C, CAPITALS)

Letter	O		U		T		E		R				D		R	
Letter Width	2.31		2.19		2.00		2.00		2.19				1.65			
Space Width		0.84		0.67		0.67		0.67			6.00			1.67		
Cumulative Width	2.31	3.15	5.34	6.01	8.01	8.68	10.68	11.35	13.54		19.54		21.19	21.82	23.47	

4 INCH, SERIES C CAPITALS; INCH LOWER CASE (3 INCHES, SERIES C, CAPITALS)

Letter	T		E		N		T		H				S		T	
Letter Width	00		2.00		2.19		2.00		2.19				1.65		1.50	
Space Width		0.67		0.67		0.67		0.67			6.00			0.50		
Cumulative Width	2.00	2.67	4.67	5.34	7.53	8.20	10.20	10.87	13.06		19.06		20.71	21.21	22.71	

4 INCH, SERIES C CAPITALS; INCH LOWER CASE (3 INCHES, SERIES C, CAPITALS)

Letter	T		W		E		L		F		T		H		S		T
Letter Width	2.00		3.00		2.00		2.00		2.00		2.00		2.19		1.65		1.50
Space Width		0.22		0.67		0.67		0.67		0.45		0.67			4.00	0.50	
Cumulative Width	2.00	2.22	5.22	5.89	7.89	8.56	10.56	11.23	13.23	13.68	15.68	16.35	18.54		22.54	24.19	24.69	26.19

4 INCH, SERIES C CAPITALS; INCH LOWER CASE (3 INCHES, SERIES C, CAPITALS)

Letter	H		A		R		B		O		R				W		A		Y
Letter Width	2.19		2.50		2.19		2.19		2.31		2.19				2.25		1.85		1.88
Space Width		0.67		0.67		0.84		0.67		0.84			4.00			0.18		0.18	
Cumulative Width	2.19	2.86	5.36	6.03	8.22	9.06	11.25	11.92	14.23	15.07	17.26		21.26	23.51	23.69	25.54	25.72	27.60	

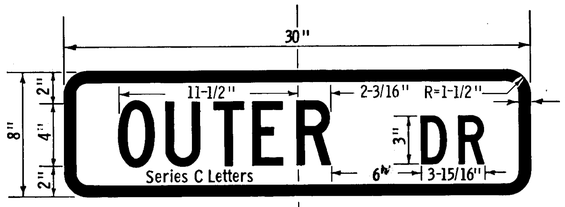
4 INCH, SERIES C CAPITALS; INCH LOWER CASE (3 INCHES, SERIES C, CAPITALS)

Letter	H		I		G		H		L		A		N		D		D		R
Letter Width	2.19		0.56		2.19		2.19		2.00		2.50		2.19		2.19		1.65		1.65
Space Width		0.84		0.84		0.84		0.84		0.22		0.67		0.84		2.00		0.63	
Cumulative Width	2.19	3.03	3.59	4.43	6.62	7.46	9.65	10.49	12.49	12.71	15.21	15.88	18.07	18.91	21.10	23.10	24.75	25.38	27.03

INCH, SERIES CAPITALS; INCH LOWER CASE

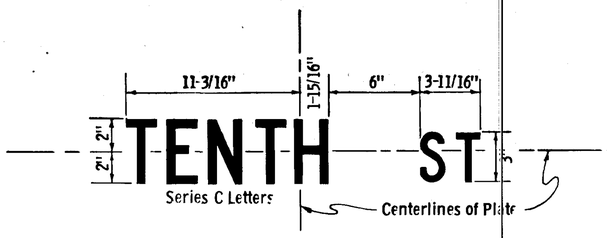
Letter																			
Letter Width																			
Space Width																			
Cumulative Width																			

PLATE DETAIL

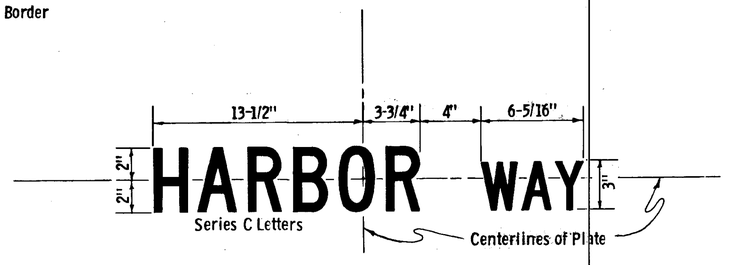


D-3
30" x 8"

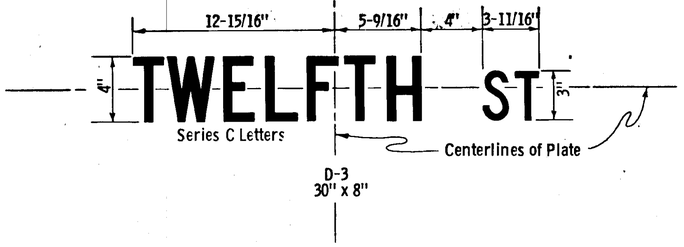
NOTES:
1. Reflectorized White Legend and Border on Reflectorized Green Background.
2. Drill no holes. For mounting bracket and bracket detail see standard sheet T-2.
3. Each plate shall be furnished with sign legend on both sides of plate.



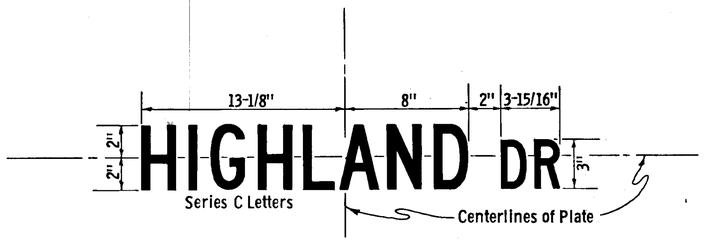
D-3
30" x 8"



D-3
30" x 8"



D-3
30" x 8"

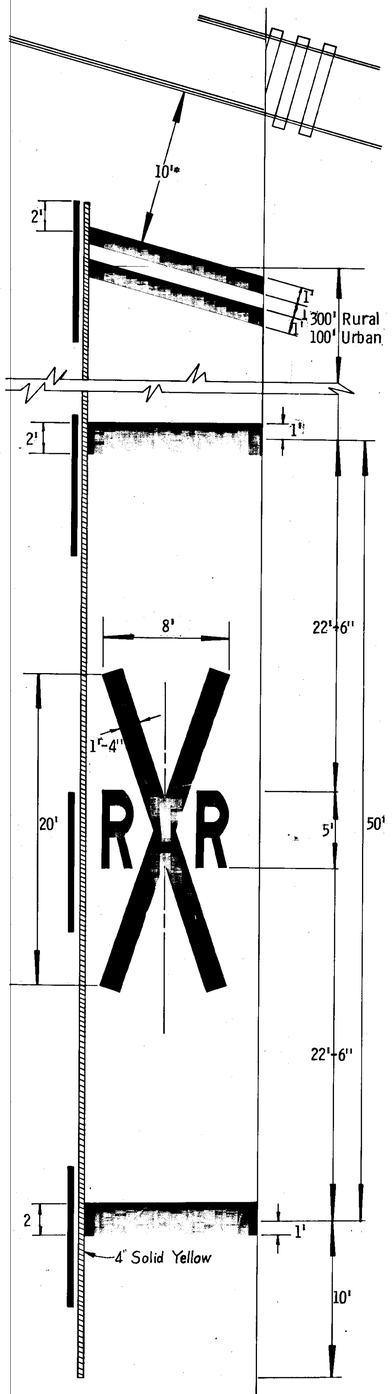


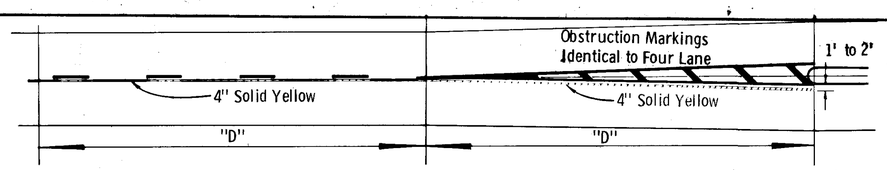
D-3
30" x 8"

SPECIAL STANDARD SIGN DETAIL

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	30	73

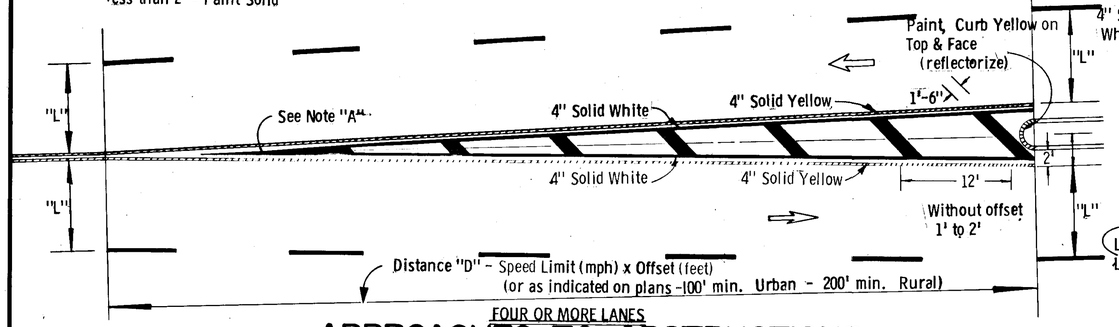
* Bands Parallel to tracks or 8' back from & parallel to gate, if present.





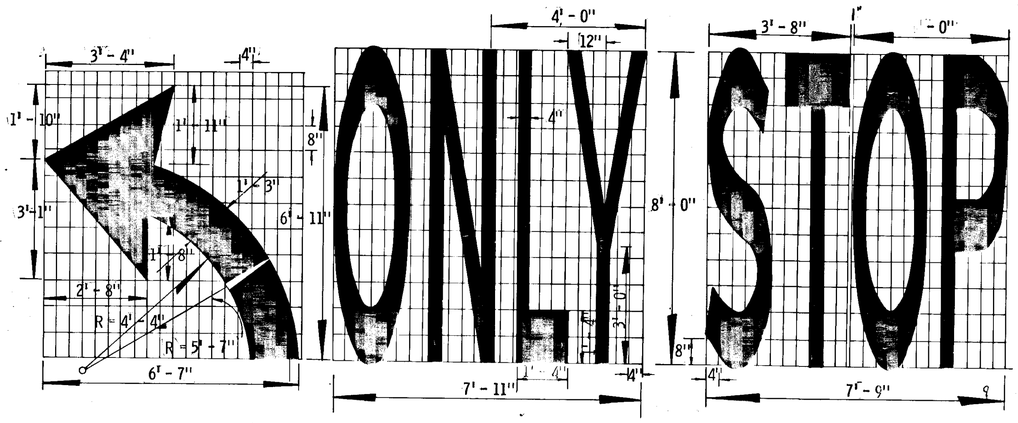
TWO LANES

NOTE "A" Width between lines ahead of diagonal less than 2' - Paint Solid

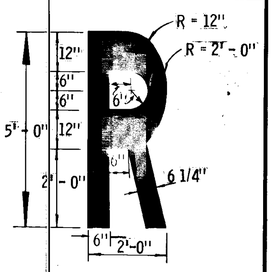


FOUR OR MORE LANES

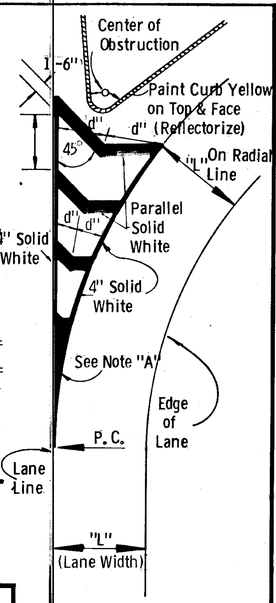
APPROACHES TO OBSTRUCTIONS



LAYOUT TEMPLATES FOR STENCILS



RAILROAD SYMBOL



PASS EITHER SIDE

APPROACH TO RAILROAD CROSSING

Note:
On 4 Lane Roadways "x" shall be 10 ft. 0 in. wide centered on lane line. Roadways in one direction wider than 30 feet shall have symmetrical "x's" placed side by side in each lane or 15 ft. width.

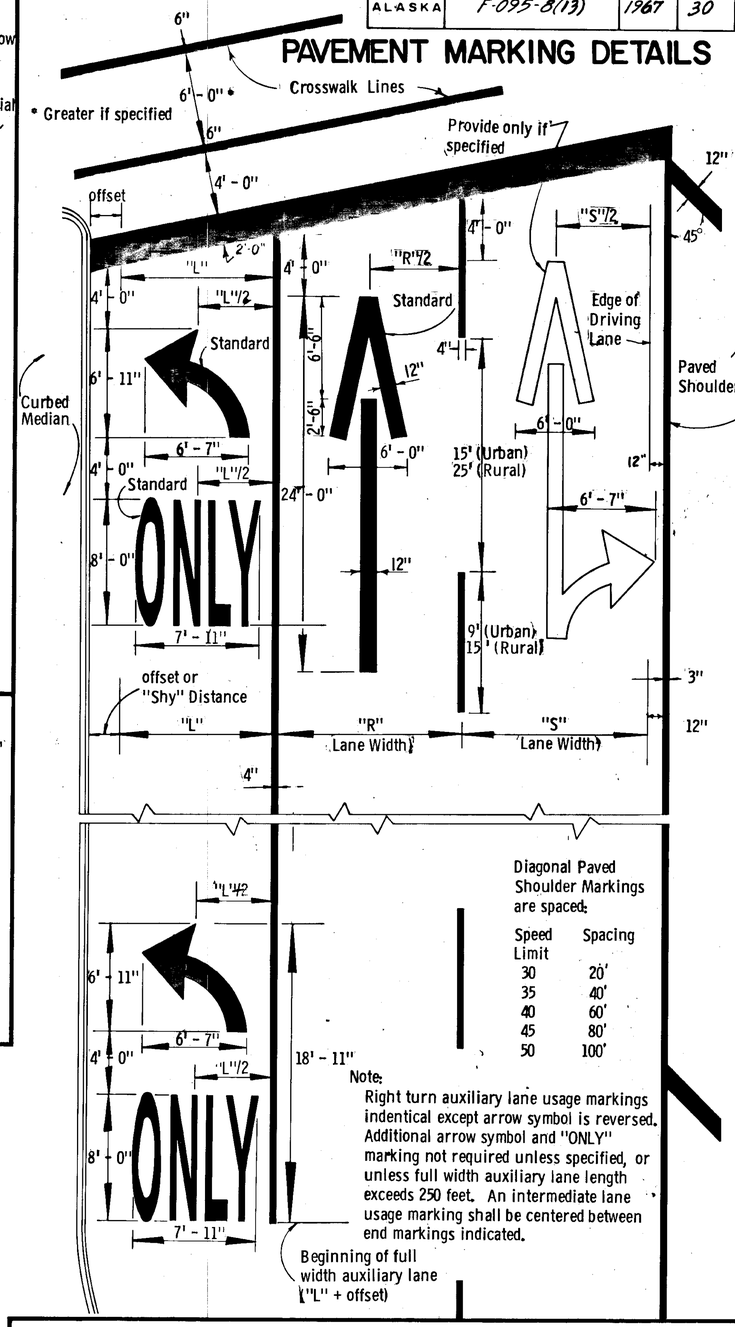
APPLICATION DETAILS

MARKING	COLOR	WIDTH	TYPE	MISC. DATA
Line, center -- 2 lane -- Rural	White	4"	Broken	9' 15' Urban or Mountain; 15' 25' Other
Line, center -- 2 lane -- Urban	White	4"	Solid	
Line, center -- 4 lane -- Undivided	2-Yellow	12" Overall	2-Solid	4"
Line, lane -- through lanes	White	4"	Broken	9' 15' Urban or Mountain; 15' 25' Other
Line, lane -- auxiliary lanes & obstr.	White	4"	Solid	
Line, edge	White	3"	Solid	
Line, barrier & no passing	Yellow	4"	Solid	
Line, combination - center & barrier	White & Yellow	12" to 20" Overall	Broken & Solid	4" 4"
Line, combination - lane & barrier	White & Yellow	12" Overall	2-Solid	4"
Line, stop	White	24"	Solid	4' in back of crosswalk or if none, 4' to 30' from pavement edge
Line, crosswalk	White	6"	Solid	Space 6' apart, or as spec.
Line, parking space limit	White	4"	As Spec.	See plans
Line, paved shouldered diagonal	White	12"	Solid	Spacing See Chart
Line, obstruction approach diagonal	White	18"	Solid	Spaced 7' or 12' -- See Dwgs.
Words & Symbols	White	Varies	Solid	See Dwgs.
Curb, face & top - in line of traffic	Yellow	Varies	Solid	All curbs of channelizing islands
Curb, face & top - parking prohibition	Yellow	Varies	Solid	See plans for locations

APPROACH TO INTERSECTION

REVISIONS		
No.	Date	Description

PAVEMENT MARKING DETAILS



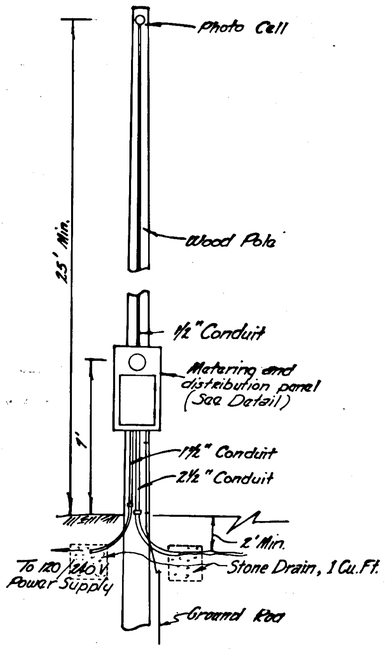
Diagonal Paved Shoulder Markings are spaced:

Speed Limit	Spacing
30	20'
35	40'
40	60'
45	80'
50	100'

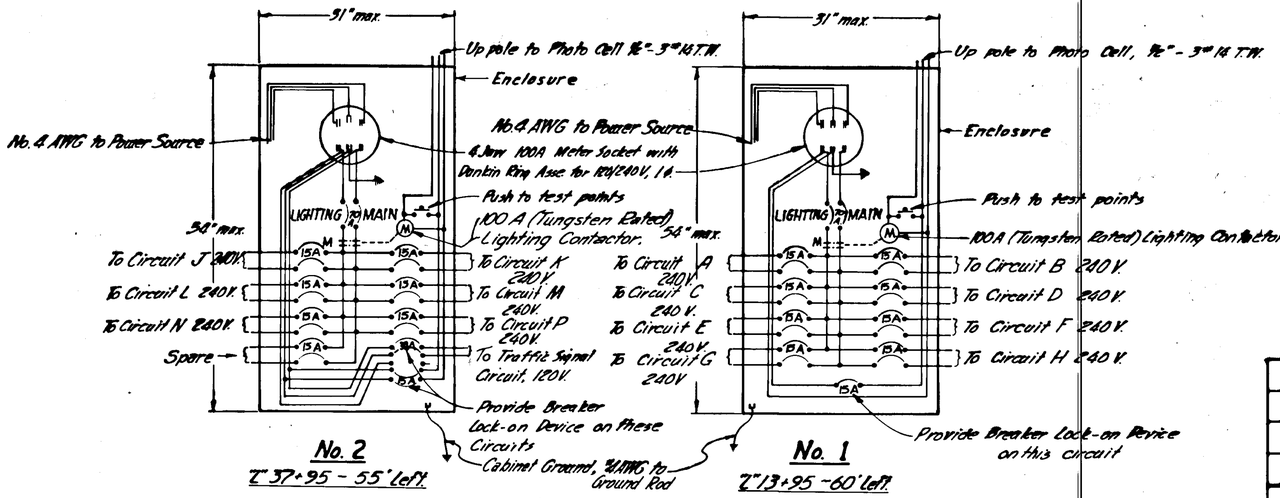
Note:
Right turn auxiliary lane usage markings indentical except arrow symbol is reversed. Additional arrow symbol and "ONLY" marking not required unless specified, or unless full width auxiliary lane length exceeds 250 feet. An intermediate lane usage marking shall be centered between end markings indicated.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8 (13)	1967	31	73

ILLUMINATION DETAILS



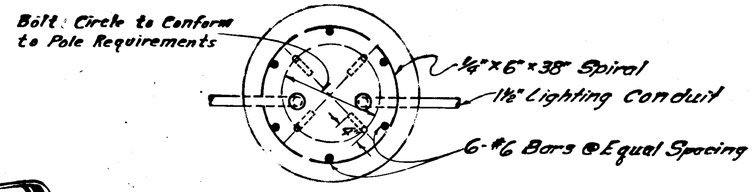
METERING & DISTRIBUTION CENTER MOUNTING DETAIL



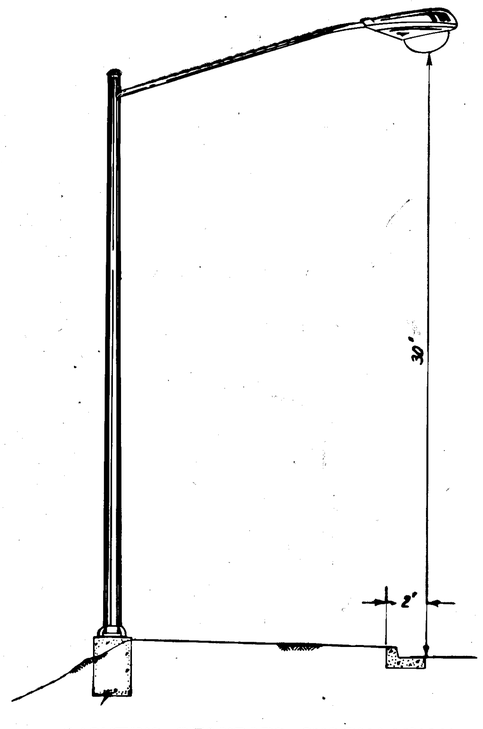
METERING & DISTRIBUTION CENTER

NOTE: ALL CONDUCTORS TO BE #6 AWG EXCEPT, LEADS FROM POWER SOURCE TO DISTRIBUTION CENTER & FROM DISTRIBUTION CENTER TO TRAFFIC SIGNALS SHALL BE #4 AWG.

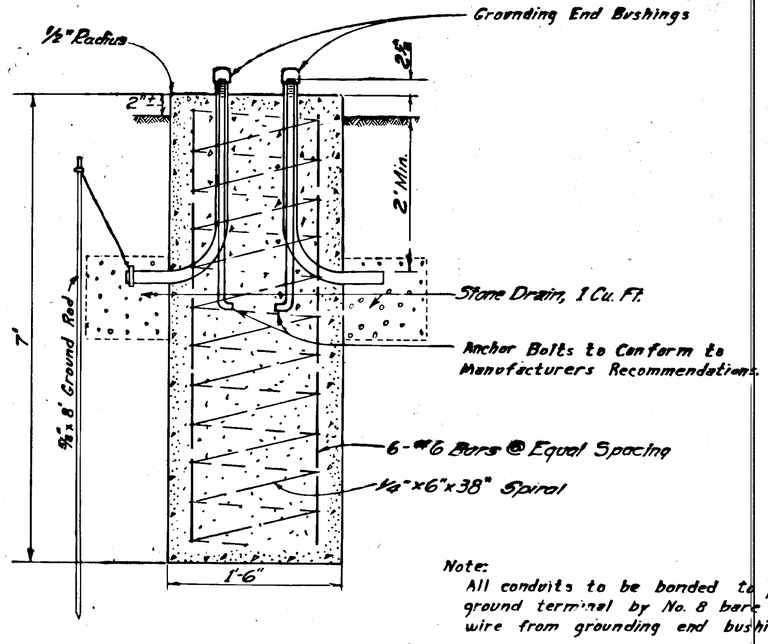
DISTRIBUTION PANEL LOAD SCHEDULE — WATTS								
120/240 1 ø Panel With 120A Main AC Breaker - All Breakers 2 Pole								
Panel ① Circuits	A	B	C	D	E	F	G	H
M.V. Lamps	1810	1810	1810	1810	2260	1810	1960	1810
Panel ② Circuits	J	K	L	M	N	P	SPARE	Traffic Signal
M.V. Lamps	1810	1810	1810	1960	1810	2710		
Traffic Signals								2600
Total Panel ① = 14,480 Watts or 61 Amp./Line @ 240 V.								
Total Panel ② = 13,910 Watts or 58 Amp./Line @ 240 V. (120 V. for T.S.)								



NOTES:
1. See sheet #42 for junction box details.
2. All lighting system junction boxes shall be Type I.
3. All Luminaires to be I.E.S. Type III, Short, Cut Off, 400 Watt, H-33 Mercury Vapor.



LIGHTING STANDARD INSTALLATION



Note:
All conduits to be bonded to pole ground terminal by No. 8 bare copper wire from grounding end bushings.

LIGHTING STANDARD BASE DETAIL

REVISIONS		
No.	Date	Description

STATE of ALASKA
Department of Highways

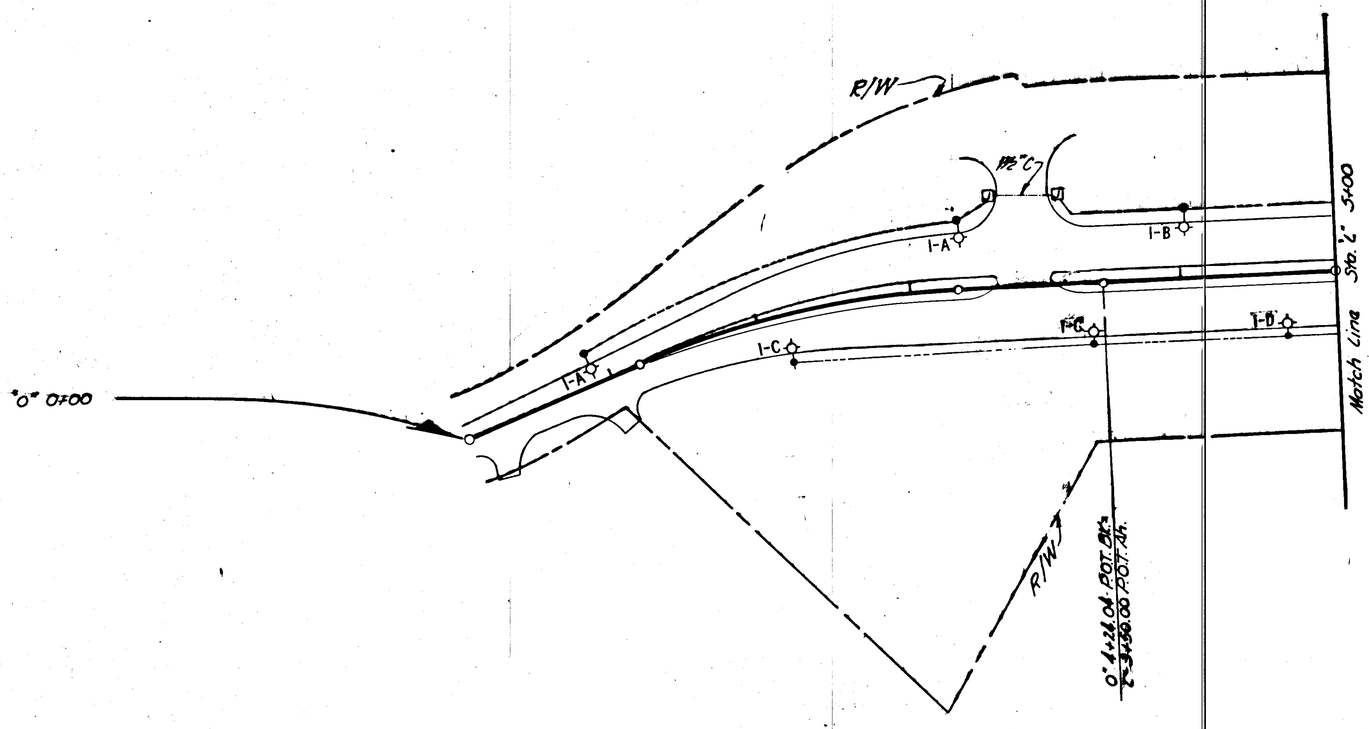
JUNEAU OUTER DRIVE-PHASE I
Project No. F-095-8 (13)

LIGHTING SYSTEM SUMMARY AND DETAILS

Approved: Date:

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	32	73

ILLUMINATION, SIGNING & PAVEMENT MARKINGS



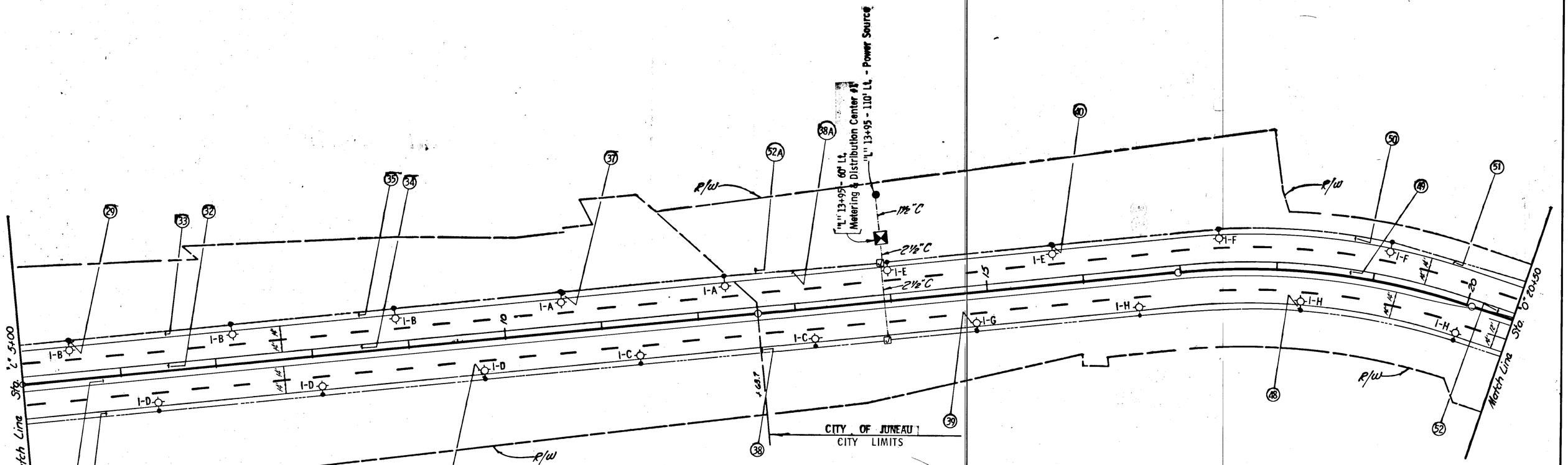
NOTE: SEE SHEET #36 FOR SIGNING & PAVEMENT MARKING PLANS.

Illumination Schedule

Station/Location	Mast Arm	Circuit	Junction Box Location
"O" 0+90-20' Lt.	6'	1 - A	
"O" 2+19-32' Rt.	6'	1 - C	
"O" 3+33-41' Lt.	6'	1 - A	
"O" 3+52			55' Lt.
"O" 3+97			55' Lt.
"O" 4+14-41' Rt.	6'	1 - C	
"L" 4+03-41' Lt.	6'	1 - B	
"L" 4+65-41' Rt.	6'	1 - D	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	33	73

ILLUMINATION, SIGNING & PAVEMENT MARKINGS



Illumination Schedule

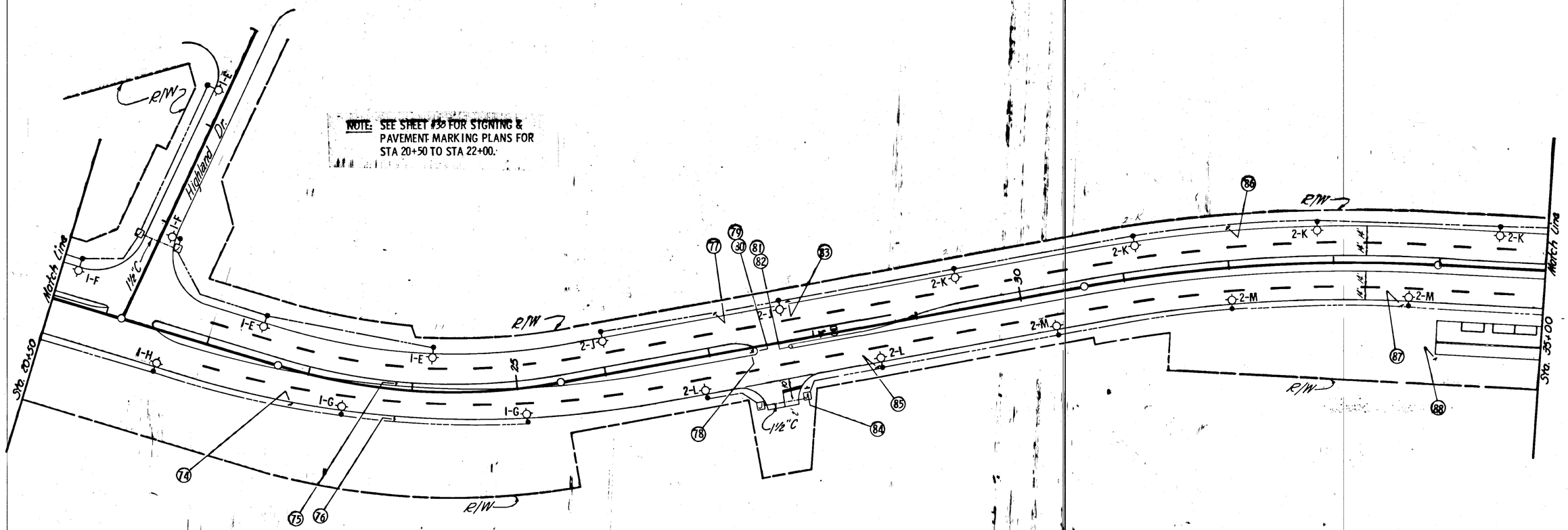
Station/Location	Mast Arm	Circuit	Junction Box Location
"L" 5+50-41' Lt.	6'	1 - B	
"L" 6+35-41 Rt.	6'	1 - D	
"L" 7+20-41' Lt.	6'	1 - B	
"L" 8+05-41' Rt.	6'	1 - D	
"L" 8+90-41' Lt.	6'	1 - B	
"L" 9+75-41' Rt.	6'	1 - D	
"L" 10+60-41' Lt.	6'	1 - A	
"L" 11+45-41' Rt.	6'	1 - C	
"L" 12+30-41' Lt.	6'	1 - A	
"L" 13+15-41' Rt.	6'	1 - C	
"L" 14+00-41' Lt.	6'	1 - E	
"L" 14+85-41' Rt.	6'	1 - G	
"L" 15+70-41' Lt.	6'	1 - E	
"L" 16+55-41' Rt.	6'	1 - H	
"O" 17+40-41' Lt.	6'	1 - F	
"O" 18+25-41' Rt.	6'	1 - H	
"O" 19+10-41' Lt.	6'	1 - F	
"O" 19+95-41' Rt.	6'	1 - H	
"L" 13+93			38' Rt. & Lt.

Signing Schedule

Station	Left	Right	No.	Type	Size	Legend	Ht.	Remarks
"L" 5+50	41	--	29	R7-4LR	12x18	No Stopping or Standing	6'	band to Light Pole
"L" 5+80	--	4	30	R2-1	24x30	Speed Limit 35	6'	
"L" 5+80	--	38	31	R2-1	24x30	Speed Limit 35	6'	
"L" 6+50	3	--	32	W4-2	30x30		6'	
"L" 6+50	39	--	33	W4-2	30x30		6'	
"L" 8+50	3'	--	34	W8-9R	36x36	Right Lane Ends 600 Feet	6'	
"L" 8+50	39	--	35	W8-9R	36x36	Right Lane Ends 600 Feet	6'	
"L" 9+75	--	41	36	R7-4LR	12x18	No Stopping or Standing	6'	band to Light Pole
"L" 10+60	41	--	37	R7-4LR	12x18	No Stopping or Standing	6'	band to Light Pole
"L" 12+63.7		38.5	38	D-5	36x18	Juneau City Limit	6'	
"L" 13+00	39	--	38A	D-6	--	Mile Post 1	4'	By Others
"L" 14+85		41	39	R7-4LR	12x18	No Stopping or Standing	6'	band to light pole
"L" 15+70	41'	--	40	R7-4LR	12x18	No Stopping or Standing	6'	band to light pole
"O" 18+25	--	41	48	R7-4LR	12x18	No Stopping or Standing	6'	band to light pole
"O" 18+75	4'	--	49	R2-1	24x30	Speed Limit 35	6'	
"O" 18+75	38'	--	50	R2-1	24x30	Speed Limit 35	6'	
"O" 19+75	38	--	51	R7-4LR	12x18	No Stopping or Standing	6'	
"O" 20+31	5'	--	52	R3-7L	30x30	Left Lane Must Turn Left	6'	
"L" 12+65	40'	--	52A	D-2	72x36	AIRPORT, AUKE BAY, TEE HARBOR	6'	By Others

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(17)	1967	34	73

ILLUMINATION, SIGNING & PAVEMENT MARKINGS



Illumination Schedule

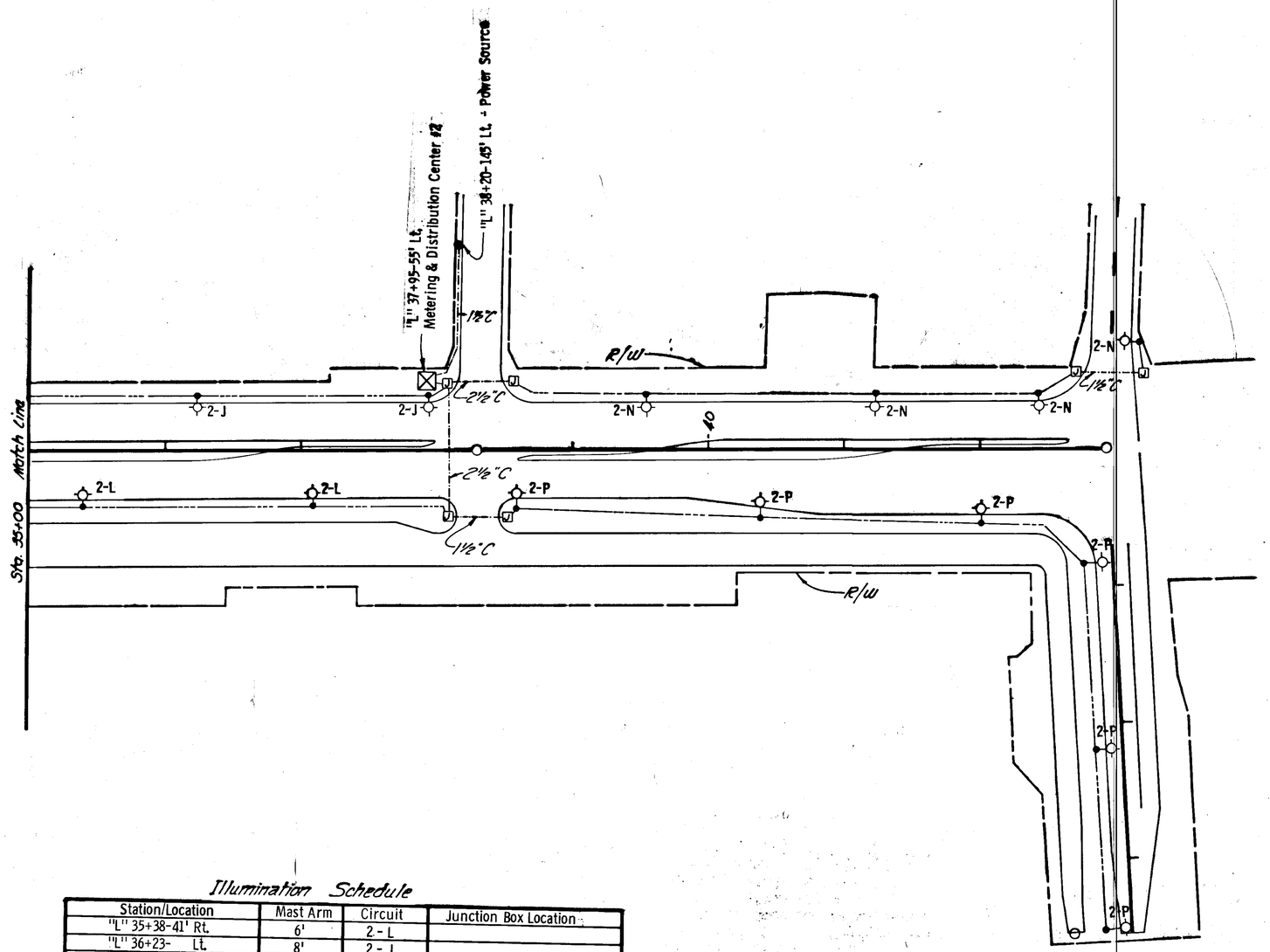
Station/ Location	Mast Arm	Circuit	
"O" 20+65 - 41' Lt.	6'	1 - F	
"O" 21+65-41' Rt.	6'	1 - H	
"O" 22+50-44' Lt.	8'	1 - E	
"O" 23+35-33' Rt.	6'	1 - G	
"O" 24+20- 44' Lt.	8'	1 - E	
"O" 25+05-35' Rt.	6'	1 - G	
"L" 26+03-44' Lt.	8'	2 - J	
"L" 26+88-41' Rt.	6'	2 - L	
"L" 27+38			55' Rt.
"L" 27+73-44' Lt.	8'	2 - J	
"L" 27+84			55' Rt.
"L" 28+58-41' Rt.	6'	2 - L	
"L" 29+43-44' Lt.	8'	2 - K	
"L" 30+28-41' Rt.	6'	2 - M	
"L" 31+13-44' Lt.	8'	2 - K	
"L" 31+98-41' Rt.	6'	2 - M	
"L" 32+83-44' Lt.	8'	2 - K	
"L" 33+68-41' Rt.	6'	2 - M	
"L" 34+53-44' Lt.	8'	2 - K	
"SR21" 0+80			
"SR21" 0+90 - 22' Rt.	8'	1 - F	
"SR21" 2+32-20' [illegible]	6'	1 - E	

Signing Schedule

Station	Left	Right	No.	Type	Size	Legend	Ht.	Remarks
"O" 22+90	--	33	74	R7-4LR	12x18	No Stopping or Standing	6'	
"O" 23+85	5'	--	75	R2-1	24x30	Speed Limit 35	6'	
"O" 23+85	--	29'	76	R2-1	24x30	Speed Limit 35	6'	
"L" 27+10	38.5	--	77	R7-4LR	12x18	No Stopping or Standing	6'	
"L" 27+39	3'	--	78	R6-1R	36x12	One Way	--	Above R4-8R
"L" 27+39	3'	--	79	R4-8R	24x30	Keep Right	--	Above W14-6
			80	W14-6	18x18	9 Button	4'	
"L" 27+81	--	4	81	R4-8R	24x30	Keep Right	--	Above W14-6
			82	W14-6	18x18	9 Button	4'	
"L" 27+81	38.5	--	83	R6-1L	36x12	One Way	6'	
"L" 27+85	--	45	84	R1-1	30x30	Stop	7'	
"L" 28+58		41	85	R7-4LR	12x18	No Stopping or Standing	6'	band to light pole
"L" 32+00	38.5		86	R7-4LR	12x18	No Stopping or Standing	6'	
"L" 33+68		41	87	R7-4LR	12x18	No Stopping or Standing	6'	band to light pole
"L" 34+01		87	88	R7-4L	12x18	No Stopping or Standing	7'	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	35	73

ILLUMINATION, SIGNING & PAVEMENT MARKINGS



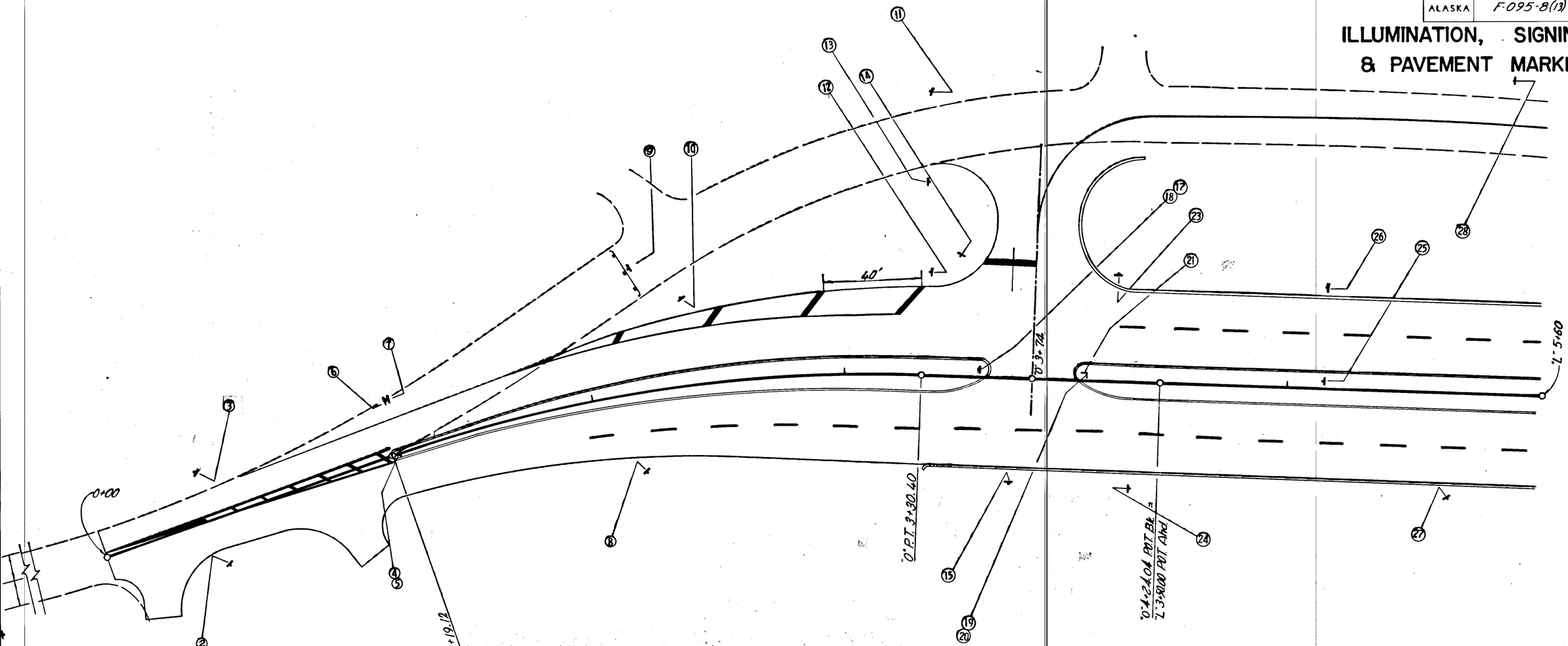
NOTE: SEE SHEETS #38 & #39 FOR SIGNING & PAVEMENT MARKING PLANS.

Illumination Schedule

Station/Location	Mast Arm	Circuit	Junction Box Location
"L" 35+38-41' Rt.	6'	2 - L	
"L" 36+23- Lt.	8'	2 - J	
"L" 37+08-41' Rt.	6'	2 - L	
"L" 37+93-44' Lt.	8'	2 - J	
"L" 38+08			45' Lt. & 45' Rt.
"L" 38+48			45' Lt. & 45' Rt.
"L" 38+58-41' Rt.	6'	2 - P	
"L" 39+53-44' Lt.	8'	2 - N	
"L" 40+39-47' Rt.	6'	2 - P	
"L" 41+24-44' Lt.	8'	2 - N	
"L" 42+02-53' Rt.	6'	2 - P	
"L" 42+42-44' Lt.	6'	2 - N	
"SR10N" 0+55			21' Lt. & 21' Rt.
"SR10N" 0+80-21.5' Rt.	6'	2 - N	
"SR10S" 0+25-20' Rt.	6'	2 - P	
"SR10S" 2+18-16' Rt.	4'	2 - P	
"SR10S" 3+46-14' Rt.	4'	2 - P	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOT SHE
ALASKA	F-095-8(13)	1967	36	7

ILLUMINATION, SIGNING & PAVEMENT MARKINGS

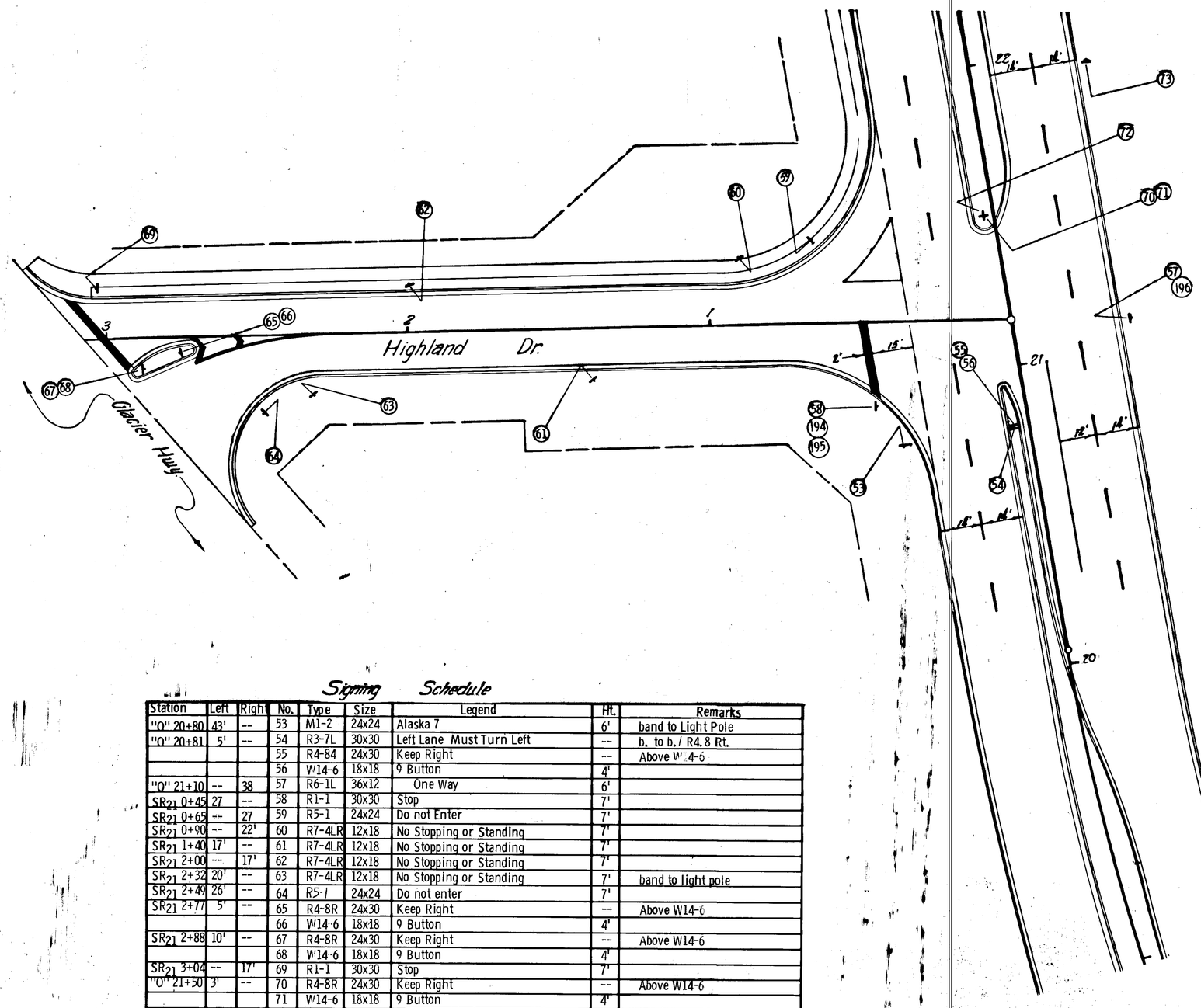


Signing Schedule

Station	Left	Right	No.	Type	Size	Legend	Ht.	Remarks
(-)270'	19'	--	1	W6-1	36x36	Divided Highway	7'	Above W14-6
"0" 0+45	--	19	2	R7-4L	12x18	No Stopping or Standing	7'	
"0" 0+45	19	--	3	R7-4R	12x18	No Stopping or Standing	7'	
"0" 1+22	--	--	4	R4-8R	24x30	Keep Right	--	b. to b. 1 No. 6
			5	W14-6	18x18	9 Button	4'	band to Light Pole
"0" 1+22	21'	--	6	R5-1	24x24	Do Not Enter	--	
			7	R6-3	24x30	Two Way Traffic Ahead	6'	
"0" 2+19	--	32	8	R7-4LR	12x18	No Stopping or Standing	6'	Band to light pole
"0" 2+24	48	--	9	W14-6	18x18	9 Button	4'	
"0" 2+40	35	--	10	R7-4LR	12x18	No Stopping or Standing	6'	
"0" 3+30	112	--	11	W14-2	30x30	Dead End	7'	
"0" 3+33	41	--	12	M1-2	24x24	Alaska 7	6'	
"0" 3+34	74'	--	13	R1-1	30x30	Stop	7'	Above R4-8R
"0" 3+45	47	--	14	R1-1	30x30	Stop	6'	Above W14-6
"0" 3+66	--	45	15	R6-1L	36x12	One Way	6'	
"0" 3+53	3'	--	17	R4-8R	24x30	Keep Right	--	
"0" 3+95	3'	--	18	W14-6	18x18	9 Button	4'	Above R4-8R
"0" 3+95	3'	--	19	R4-8R	24x30	Keep Right	--	
			20	W14-6	18x18	9 Button	4'	
			21	R6-1R	36x12	One Way	--	band to Light Pole
"0" 4+06	41	--	23	R6-1L	36x12	One Way	6'	
"0" 4+14	--	41	24	M1-2	24x24	Alaska 7	6'	band to Light Pole
"L" 4+15	3'	--	25	W6-2	36x36	Divided Highway Ends	6'	
"L" 4+15	39	--	26	W6-2	36x36	Divided Highway Ends	6'	
"L" 4+65	--	41	27	R7-4LR	12x18	No Stopping or Standing	6'	
"L" 4+90	123'	--	28	W3-1	30x30	Stop Ahead	7'	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	37	73

ILLUMINATION, SIGNING & PAVEMENT MARKINGS

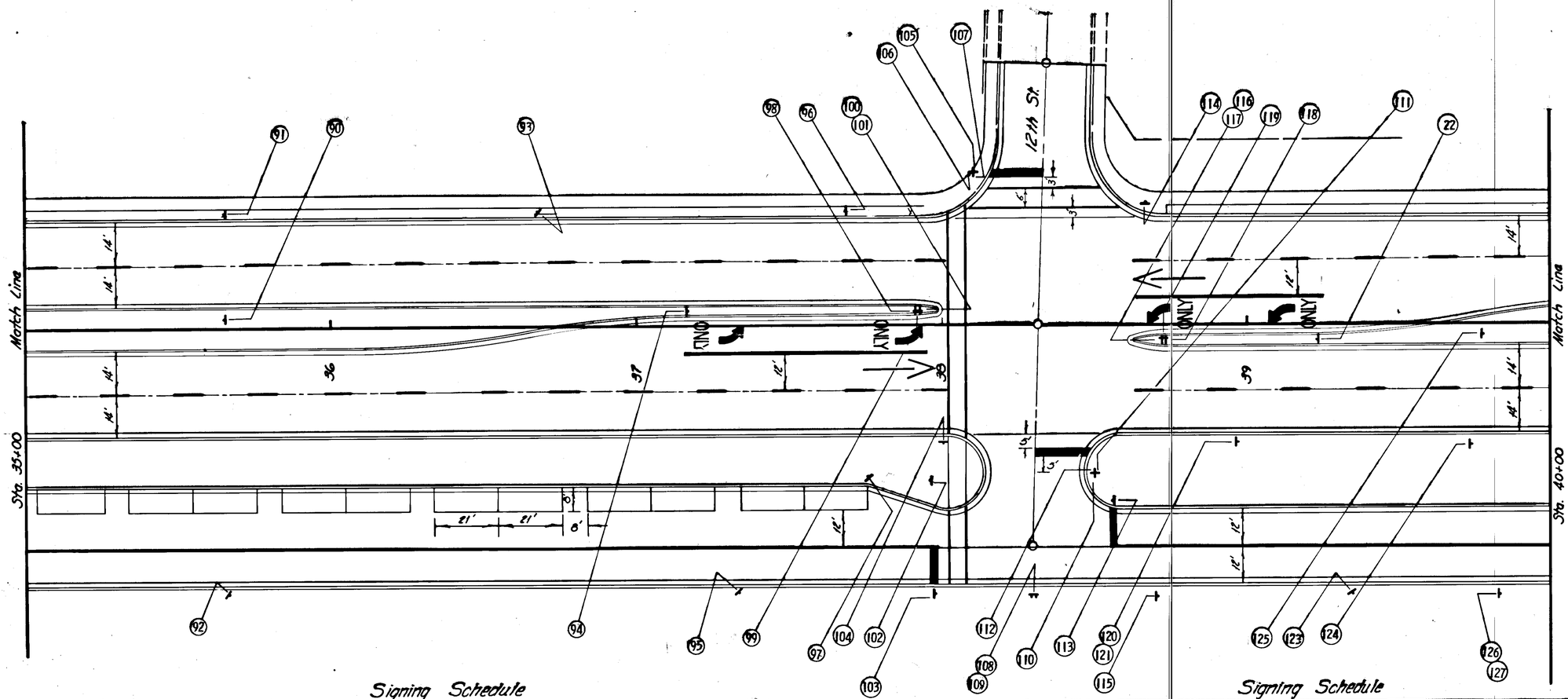


Signing Schedule

Station	Left	Right	No.	Type	Size	Legend	Ht.	Remarks
"O" 20+80	43'	--	53	M1-2	24x24	Alaska 7	6'	band to Light Pole
"O" 20+81	5'	--	54	R3-7L	30x30	Left Lane Must Turn Left	--	b. to b./ R4.8 Rt.
			55	R4-8d	24x30	Keep Right	--	Above W14-6
			56	W14-6	18x18	9 Button	4'	
"O" 21+10	--	38	57	R6-1L	36x12	One Way	6'	
SR_{21} 0+45	27	--	58	R1-1	30x30	Stop	7'	
SR_{21} 0+65	--	27	59	R5-1	24x24	Do not Enter	7'	
SR_{21} 0+90	--	22'	60	R7-4LR	12x18	No Stopping or Standing	7'	
SR_{21} 1+40	17'	--	61	R7-4LR	12x18	No Stopping or Standing	7'	
SR_{21} 2+00	--	17'	62	R7-4LR	12x18	No Stopping or Standing	7'	
SR_{21} 2+32	20'	--	63	R7-4LR	12x18	No Stopping or Standing	7'	band to light pole
SR_{21} 2+49	26'	--	64	R5-1	24x24	Do not enter	7'	
SR_{21} 2+77	5'	--	65	R4-8R	24x30	Keep Right	--	Above W14-6
			66	W14-6	18x18	9 Button	4'	
SR_{21} 2+88	10'	--	67	R4-8R	24x30	Keep Right	--	Above W14-6
			68	W14-6	18x18	9 Button	4'	
SR_{21} 3+04	--	17'	69	R1-1	30x30	Stop	7'	
"O" 21+50	3'	--	70	R4-8R	24x30	Keep Right	--	Above W14-6
			71	W14-6	18x18	9 Button	4'	
			72	R6-1R	36x12	One Way		Above R4-8R
"O" 21+95	--	38	73	M1-2	24x24	Alaska 7	6'	
SR_{21} 0+05	27		194	D-3	30x8	Outer Drive		Above R1-1 Detailed
	27		195	D-3	30x8	Highland Drive		Above R1-1 Detailed
"O" 21+10		38	196	D-3	30x8	Highland Drive		Above R6-1L Detailed

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	38	73

ILLUMINATION, SIGNING & PAVEMENT MARKINGS



Signing Schedule

Station	Left	Right	No.	Type	Size	Legend	Ht.	Remarks
"L" 35+65	4	--	90	R2-1	24x30	Speed Limit 35	6'	
"L" 35+65	38.5	--	91	R2-1	24x30	Speed Limit 35	6'	
"L" 35+70	--	87	92	R7-4LR	12x18	No Stopping or Standing	7'	
"L" 36+65	38.5	--	93	R7-4LR	12x18	No Stopping or Standing	6'	
"L" 37+14	5'	--	94	R3-7L	30x30	Left Lane Must Turn Left	6'	
"L" 37+30	--	87	95	R7-4LR	12x18	No Stopping or Standing	7'	
"L" 37+65	38.5	--	96	M1-2	24x24	Alaska 7	6'	
"L" 37+72	--	50	97	R7-1R	12x18	No Parking Anytime	7'	
"L" 37+89	5'	--	98	R3-7L	30x30	Left Lane Must Turn Left	--	b. to b./ R4-8R
			99	R6-1R	36x12	One Way	--	Above R4-8R
			100	R4-8R	24x30	Keep Right	--	Above W14-6
			101	W14-6	18x18	9 Button	4'	
"L" 37+92	--	50	102	W14-2	30x30	Dead End	6'	
"L" 37+93	--	87	103	R1-1	30x30	Stop	7'	
"L" 37+07	--	38	104	R6-1L	36x12	One Way	6'	
"L" 38+08	50	--	105	R1-1	30x30	Stop	7'	
			106	D-3	30x8	Outer Drive	--	Above R1-1 Detailed
			107	D-3	30x8	12th St.	--	Above R1-1 Detailed
"L" 38+26	--	87	108	W1-7	48x24		6'	
			109	D-3	30x8	Harbor Way	--	Above W1-7 Detailed

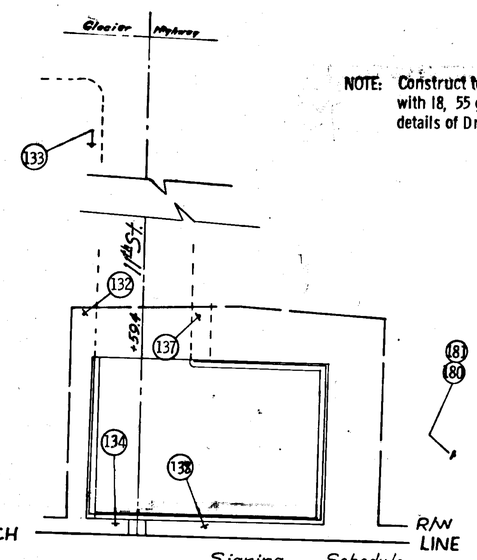
Signing Schedule

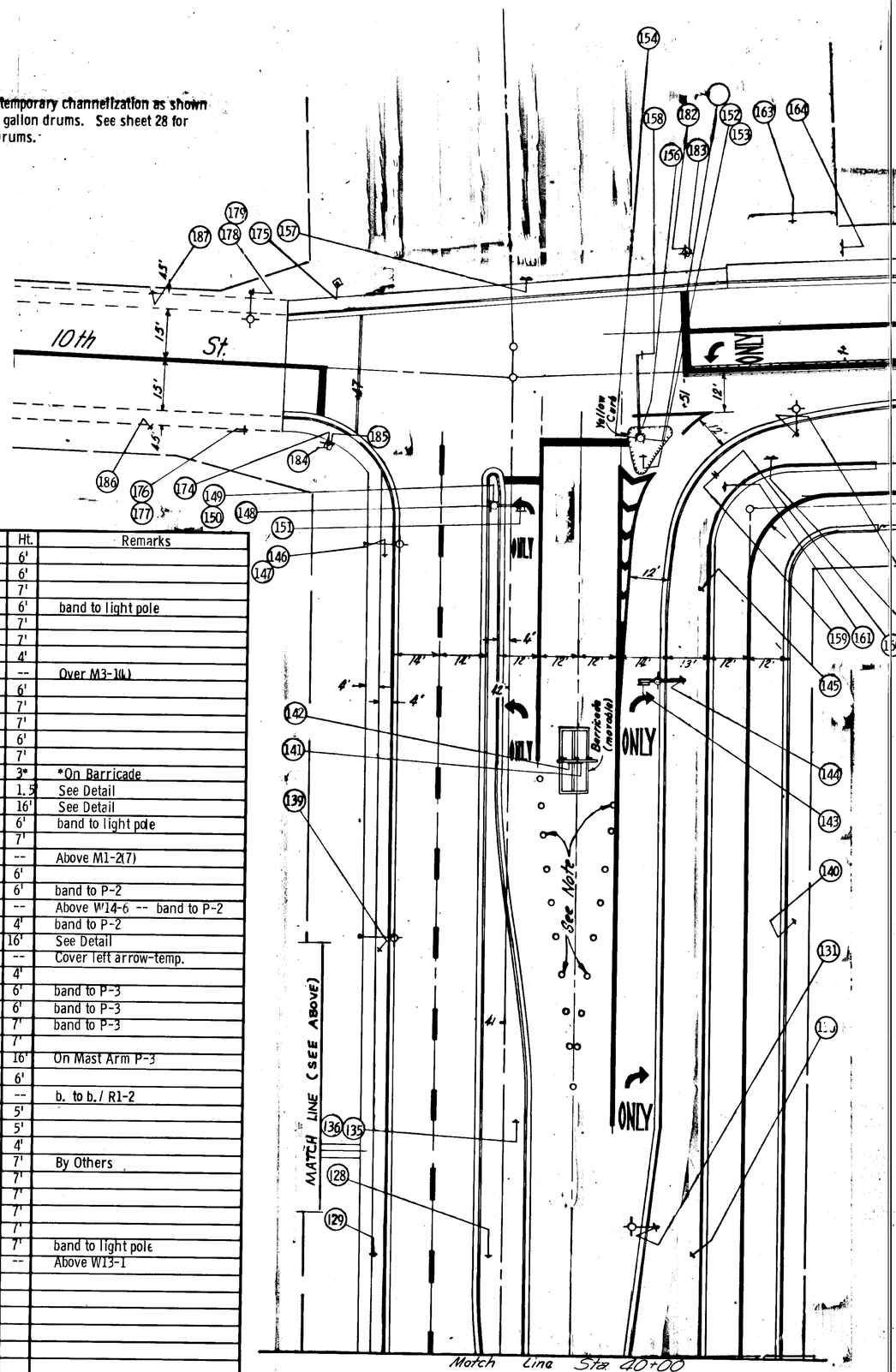
Station	Left	Right	No.	Type	Size	Legend	Ht.	Remarks
"L" 38+46	--	47	110	R1-1	30x30	Stop	6'	
			111	D-3	30x8	Outer Drive	--	Above R1-1 Detailed
			112	D-3	30x8	12th St.	--	Above R1-1 Detailed
"L" 38+52	--	57	113	R1-1	30x30	Stop	7'	
"L" 38+62	39	--	114	R6-1L	36x12	One Way	6'	
"L" 38+65	--	87.5	115	W14-2	30x30	Dead End	7'	Above W14-6
"L" 38+69	5'	--	116	R4-8R	24x30	Keep Right	--	
			117	W14-6	18x18	9 Button	4'	b. to b./ R4-8R
			118	R3-7L	30x30	Left Lane Must Turn Left	--	Above R4-8R
			119	R6-1R	36x12	One Way	--	Above M3-1
"L" 38+91	--	38	120	M1-2	24x24	Alaska 7	--	
			121	M3-1L	21x15		6'	
"L" 39+18	5'	--	122	R3-7L	30x30	Left Lane Must Turn Left	6'	
"L" 39+30	--	87	123	R7-4LR	12x18	No Stopping or Standing	7'	
"L" 39+67	--	39	124	W6-2	36x36	Divided Highway Ends	6'	
"L" 39+71	--	3'	125	W6-2	36x36	Divided Highway Ends	6'	
"L" 39+85	--	88	126	W1-1R	30x30		--	
			127	W13-1	18x18	5 MPH	4'	Above W1-1R

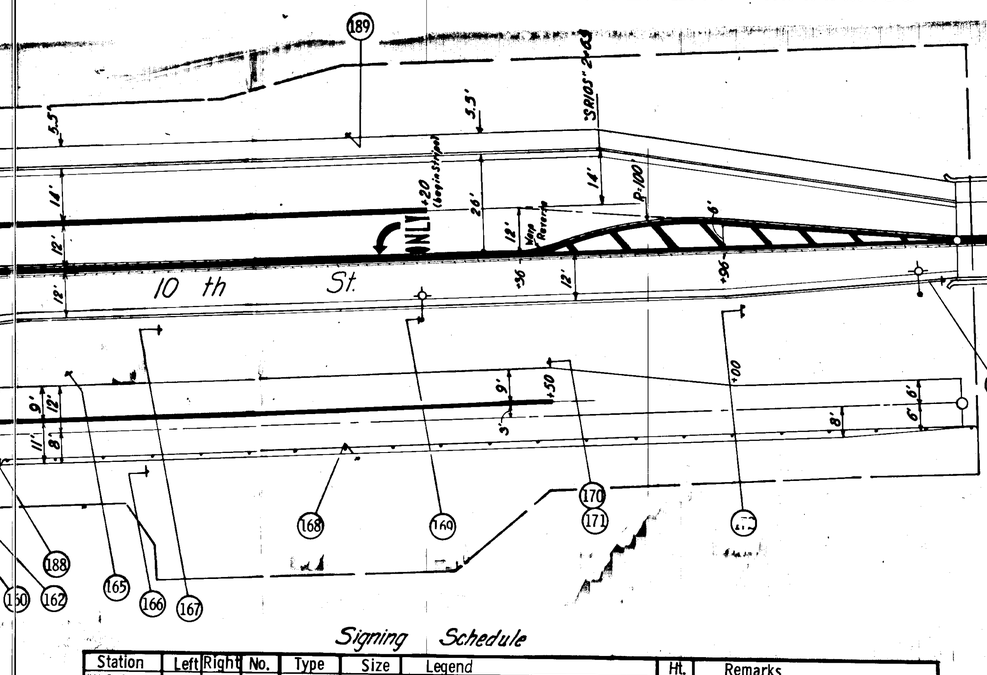
STATE	PROJECT DESIGNATION	YEAR
ALASKA	F-095-8(13	1967

ILLUMINATION, SIGNING PAVEMENT MARKINGS

NOTE: Construct temporary channelization as shown with 18, 55 gallon drums. See sheet 28 for details of Drums.







Signing Schedule

Station	Left	Right	No.	Type	Size	Legend	Ht.	Remarks
"L" 40+30	4'	--	128	R2-1	24x30	Speed Limit 35	6'	
"L" 40+30	38.5	--	129	R2-1	24x30	Speed Limit 35	6'	
"L" 40+30	--	57	130	R7-4LR	12x18	No Stopping or Standing	7'	
"L" 40+39	--	47	131	R7-4LR	12x18	No Stopping or Standing	6'	band to light pole
"L" 40+44	111+	-	132	R7-1L	12x18	No Parking Anytime	7'	
"L" 40+44	590+	--	133	W14-2	30x30	Dead End	7'	
"L" 40+59	58	--	134	W14-6	18x18	9 Button	4'	
"L" 40+70	--	4	135	M1-2	24x24	Alaska 7	--	Over M3-1(L)
			136	M3-1(L)	21x15		6'	
"L" 40+75	111+	--	137	R7-1R	12x18	No Parking Anytime	7'	
"L" 40+76	58	--	138	R7-1LR	12x18	No Parking Anytime	7'	
"L" 41+20	38.5	--	139	R7-4LR	12x18	No Stopping or Standing	6'	
"L" 41+30	--	87	140	R7-4LR	12x18	No Stopping or Standing	7'	
"L" 41+77	--	21	141	W1-7	72x36		3*	*On Barricade
"L" 41+77	--	21	142	W14-S	144x72	See Detail	1.5	See Detail
"L" 42+02	--	39	143	R3-5R	60x36		16'	See Detail
"L" 42+02	--	53	144	R7-4LR	12x18	No Stopping or Standing	6'	band to light pole
"L" 42+30	--	57	145	R7-4LR	12x18	No Stopping or Standing	7'	
"L" 42+38	38.5	--	146	M6-1	21x9	North	--	Above M1-2(7)
			147	M1-2	24x24	Alaska 7	6'	
"L" 42+54	5'	--	148	R9-5	12x18	No Pedestrian Crossing	6'	band to P-2
"L" 42+54	5'		149	R4-8R	24x30	Keep Right	--	Above W14-6 -- band to P-2
			150	W14-6	18x18	9 Button	4'	band to P-2
"L" 42+54	--	4'	151	R3-5L	60x36		16'	See Detail
"L" 42+69	--	39.5	152	W12-1	24x24		--	Cover left arrow-temp.
			153	W14-6	18x18	9 Button	4'	
"L" 42+75	--	38.5	154	R6-1L	36x12	One Way	6'	band to P-3
"L" 42+75	--	38.5	155	R6-1R	36x12	One Way	6'	band to P-3
"L" 42+75	--	38.5	156	R9-5	12x18	No Pedestrian Crossing	7'	band to P-3
"Os" 0+05	29'	--	157	W1-6(L)	48x24		7'	
"Os" 0+38	6'	--	158	R3-5L	30x36	only	16'	On Mast Arm P-3
"Os" 0+60	--	31	159	R1-2	36x36x36	Yield	6'	
			160	R5-1	24x24	Do Not Enter	--	b. to b. / R1-2
"Os" 0+63	--	34	161	W1-6(L)	48x24		5'	
"Os" 0+77	--	27	162	W1-6(R)	48x24		5'	
"Os" 0+85	44	--	163	W14-6	18x18	9 Button	4'	
"Os" 1+00	35	--	164	D-1	72x36	Downtown Auk Bay Future	7'	By Others
"Os" 1+26	--	26	165	R7-4LR	12x18	No Stopping or Standing	7'	
"Os" 1+46	--	52.5	166	W5-1	30x30	Road Narrows	7'	
"Os" 1+50	--	16	167	W5-2	30x30	Narrow Bridge	7'	
"Os" 2+00	--	52.5	168	R7-4LR	12x18	No Stopping or Standing	7'	
"Os" 2+18	--	15	169	R2-1	24x30	Speed Limit 25	7'	band to light pole
"Os" 2+50	--	25	170	W1-1L	30x30		--	Above W13-1

Signing Schedule

Station	Left	Right	No.	Type	Size	Legend	Ht.	Remarks
10' 2-50		25'	171	W13-1	18x18	10 MPH	4'	
"10s" 3+00	--	16'	172	---	*	Gastineau Channel	5'	*Use Existing Sign
"10s" 3+50	--	10+	173	W14-7	6'x5'	3 Button	4'	In Line/ curb of bridge
"10N" 0+54	22	--	174	R9-7	9x12	Push Button for Walk Signal	4'	band to P-1 above D-11
"10N" 0+54	--	25.5	175	R9-7	9x12	Push Button for Walk Signal	4'	band to P-4 above D-12
"10N" 0+80	20	--	176	M1-2	24x24	Alaska 7	--	Above M4-1
			177	M4-1(R)	21x15		7'	
"10N" 0+80	--	21.5	178	M6-1	21x9	South	--	Above M1-2(7)
			179	M1-2	24x24	Alaska 7	7'	
"10N" 2+80+	20	--	180	M1-2	24x24	Alaska 7	--	Above M3-1(r)
			181	M3-1R	21x15		7'	
"10s" 0+53	36	--	182	D-3	30x8	Outer Drive	--	On top of P-6 Detailed
			183	D-3	30x8	10th Street	--	On top of P-6 Detailed
"10N" 0+54	22	--	184	D-3	30x8	Outer Drive	--	On top of P-1 Detailed
			185	D-3	30x8	10th Street	--	On top of P-1 Detailed
"10N" 1+10	19.5	--	186	R7-1L	12x18	No Parking Anytime	7'	
"10N" 1+10	--	19.5	197	R7-1R	12x18	No Parking Anytime	7'	
"10s" 0+85	--	20'	188	R7-1LR	12x18	No Parking Anytime	7'	band to light pole
"10s" 2+00	31.5	--	189	R7-1LR	12x18	No Parking Anytime	7'	

TRAFFIC SIGNAL SYMBOLS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	40	73

SIGNAL FACE (VEHICULAR)

SIGNAL FACE WITH BACKPLATE

SIGNAL FACE (PEDES. "WALK" - "DON'T WALK")

POST MOUNTED SIGNAL HEAD WITH SIGN

STOP LINE

LANE USE

TYPE A BASE

TYPE B BASE

TYPE C BASE

TYPE D BASE

COTROLLER (TYPE C OR D CONCRETE BASE)

CONCRETE HANDHOLE

JUNCTION BOX

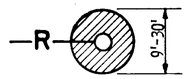
CONCRETE HAND HOLE (SEWER PIPE DRAIN)

SPAN WIRE WITH SIGNAL HEAD

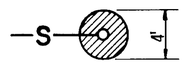
MAST ARM WITH SIGNAL HEAD

MAST ARM WITH SIGNAL HEADS

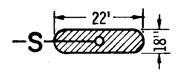
MAST ARM WITH OVERHEAD SIGN



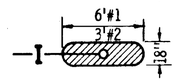
MAST ARM WITH RADAR DETECTOR



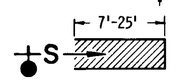
MAST ARM WITH ULTRA-SONIC DETECTOR (NARROW)



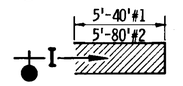
MAST ARM WITH ULTRA-SONIC DETECTOR (EXTENDED)



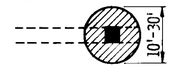
MAST ARM WITH INFRA-RED DETECTOR NO'S. 1 & 2



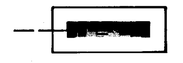
SIDE FIRE ULTRA-SONIC DETECTOR



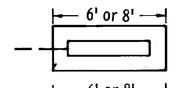
SIDE FIRE INFRA-RED DETECTOR NO'S. 1 & 2



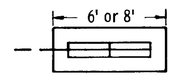
NON-COMP MAG. DET. (IN ALUMINUM COND.)



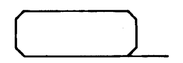
COMP. MAG. DETECTOR (IN CONCRETE BASE)



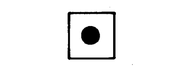
PRES. -SENS. DET. DIR. (IN CONCRETE BASE)



PRES. -SENS. DET. NON-DIR. (IN CONCRETE BASE)



INDUCTION LOOP DETECTOR



PUSH BUTTON DETECTOR

SERVICE POLE AND POWER SUPPLY

RIGID STEEL CONDUIT (IN TRENCH)

RIGID STEEL CONDUIT (PUSHED)

ALUMINUM CONDUIT (IN TRENCH)

ALUMINUM CONDUIT (PUSHED)

3"-Cond. SIZE OF CONDUIT

3-2c. #12 NUMBER AND SIZE OF CABLE

(2) SIGNAL FACE NUMBER

[4] POST NUMBER

DETECTOR NUMBER

HANDHOLE NUMBER

R RED

A AMBER

G CIRCULAR GREEN

S GREEN STRAIGHT AHEAD ARROW

L GREEN LEFT ARROW

RT. GREEN RIGHT ARROW

D.L. DOWN LIGHT

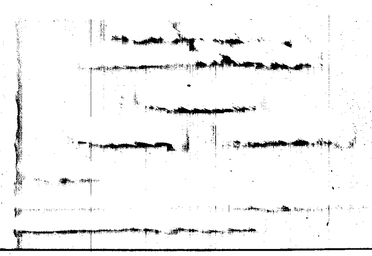
$\overline{R}$ 12 INCH LENS

|G| TUNNEL VISOR (_" FOR 8" LENS) (_" FOR 12" LENS)

}A{ TUNNEL VISOR WITH LOUVERS (TYPE_)

|R-A-G| ALL INDICATIONS - TUNNEL VISORS

}R-A{-$\overline{L}$ SPECIFIC INDICATIONS SHIELDED



STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	61	73

SIGNALIZATION DATA

BASES AND JUNCTION BOXES

Location Appr.	Station	Side	No. Post	No. Det.	No. Junction Box	Posts A-5	Posts C	Posts D	Class A Concrete C.Y.	Jct. Box Type I	Jct. Box Type II	Remarks
SR 10N	0+54	22'L	1	11			1		0.44			
Outer Drive	42+54	5'L	2			1			1.70			
SR 10S	0+37.5	19'R	3			1			1.70			
SR 10N	0+54	25.5'R	4	12			1		0.44			
Outer Drive	43+42	5'R	5			1			1.70			
SR 10S	0+53.5	36'L	6	13*			1		0.44			Future Det.
Outer Drive	40+44	15'R		1								
"	"	27'R		2								
"	42+39	4'R		3								
"	"	15'L		4								Future
"	"	27'L		5								"
"	"	4'L		6								"
SR 10S	0+85	6'L		7								
"	0+72	6'L		8								
"	0+77	18.5'L		9								
SR 10N	0+82	7.5'L		10								
Outer Drive	42+61	51'L			1						1	
"	42+28	5'L			2						1	
"	40+55	5'L			3					1		
SR 10S	0+42	23'L			4					1		
"	0+77	20'R			5					1		
SR 10N	0+51.5	22.5'R			6						1	
Outer Drive	43+67	5'R			7						1	
"	"	5'R			8							Future
"	42+61	46'L	Control					1	1.10			
" Totals									7.52	3	4	

DETECTORS

No. Post	No. Det.	PHASE Initial Assoc. Ø	PHASE Initial Switch Ø	PHASE Ultimate Assoc. Ø	PHASE Ultimate Switch Ø	Pedest. Push Button	Induction Loop Pwr. Sup'& Sensor	Remarks
	1	B		A			*	Furnish loop only
	2	B		A			*	" " "
	3	B		A			1	
	4	*		A	B		*	
	5	*		A	B		*	
	6	*		B			*	
	7	D		D			1	
	8	D		D			1	
	9	C	D	C	D		1	
	10	C		C			1	
1	11	A ped.		A ped.		1		
4	12	A ped.		A&C ped.		1		
6	13	*		C ped.		*		
Total						2	5	

* Future

CONDUCTOR CABLE

From	To	Dist. C to C	Power 1c #4	Control 2c #12	Control 5c #12	Control 7c #12	Loop Det. 1c #14	Remarks
Ø	⊠	466'	1000					2 cables
9	"	235'		256			96	1
3	"	235'		256			120	2
2	"	62'		81			242	3
7	"	135'		160*				4 Lv. Stockton 7
7	"	135'		160*				5 " " " "
7	"	135'		160*				6 " " " "
5	"	158'		181			124	7
5	"	158'		181			304	8
5	"	158'		181			224	9
1	"	5'		18			214	10
1	"	12'		38		38		10 6
1	"	12'		38				D.L.
1	"	12'		34				11
2	"	88'		118				D.L.
2	"	88'				118*		3 Lv. Stockton 2
2	"	88'			158*			4 5
3	"	132'			166			9
3	"	132'		166				D.L.
4	"	65'			194			7 11 12
4	"	65'		93				12
4	"	65'		97				D.L.
5	"	160'		198				D.L.
5	"	160'			228			1 2
6	"	197'				235*		8 13
6	"	197'		235				D.L.
6	"	197'		231*				13 Lv. Stockton 6
Sub-Totals			1000	2882	738	391	1324	
Extra for cutting Est.			50	143	37	19	66	
Totals			1050	3025	775	410	1390	

* Tape Conduit Ends

POSTS

Post Number	10' Steel (Top Mt.)	B Signal E=9'	B Signal K=22'	C-2 Sign E=25'	Signal Spacing "N"	Remarks
1	1					
2		1	1*		Future	Furnish Post with arm indicated
3				1		
4	1					
5					12'-0"	Furnish Post with arm indicated
6	1					
Totals	3	1	1	1		

* To be attached in future

RIGID METAL CONDUIT

From	To	Dist. C to C	In Trench Rigid 1 1/4"	2"	2 1/2"	3"	Remarks
1	⊠	5'	7'			14'	2 lines 3"
1	6	12'		13'			
1	1		23'				
1	10	57'				55'	
1	2	26'		28'			
2	8	173'	171'				
2	9	65'		63'			
2	4		19'				
3	3 4	5'	6'				
4	3	31'	29'				
4	5		5'				
5	1 8 9	56'				56'	
6	8	4'		5'			
6	7	72'			72'		
7	8		1'				Stubout of Hand hole
7	6		1'				" " "
7	5	25'	27'				
7	6	62'		63'			
Totals			283	172'	72'	113'	

POWER SUPPLY

Location Appr.	Station	Side	Remarks
Outer Drive	C 37+95	55'L	Incl. with Illum. sub station
Totals			

CONTROLLER

No.	Type	Phase Module Density Veh&Ped	Phase Module Vehicle Only	Phase Module Vehicle + Ped.	2 Ø Call Relay	Detec Switch Unit		Remarks
1	F-AM	1	2	1	1	2*		See Spec. Prov.
		(ØA)	(ØB&D)	(ØC)				
1		1	2	1	*	1		

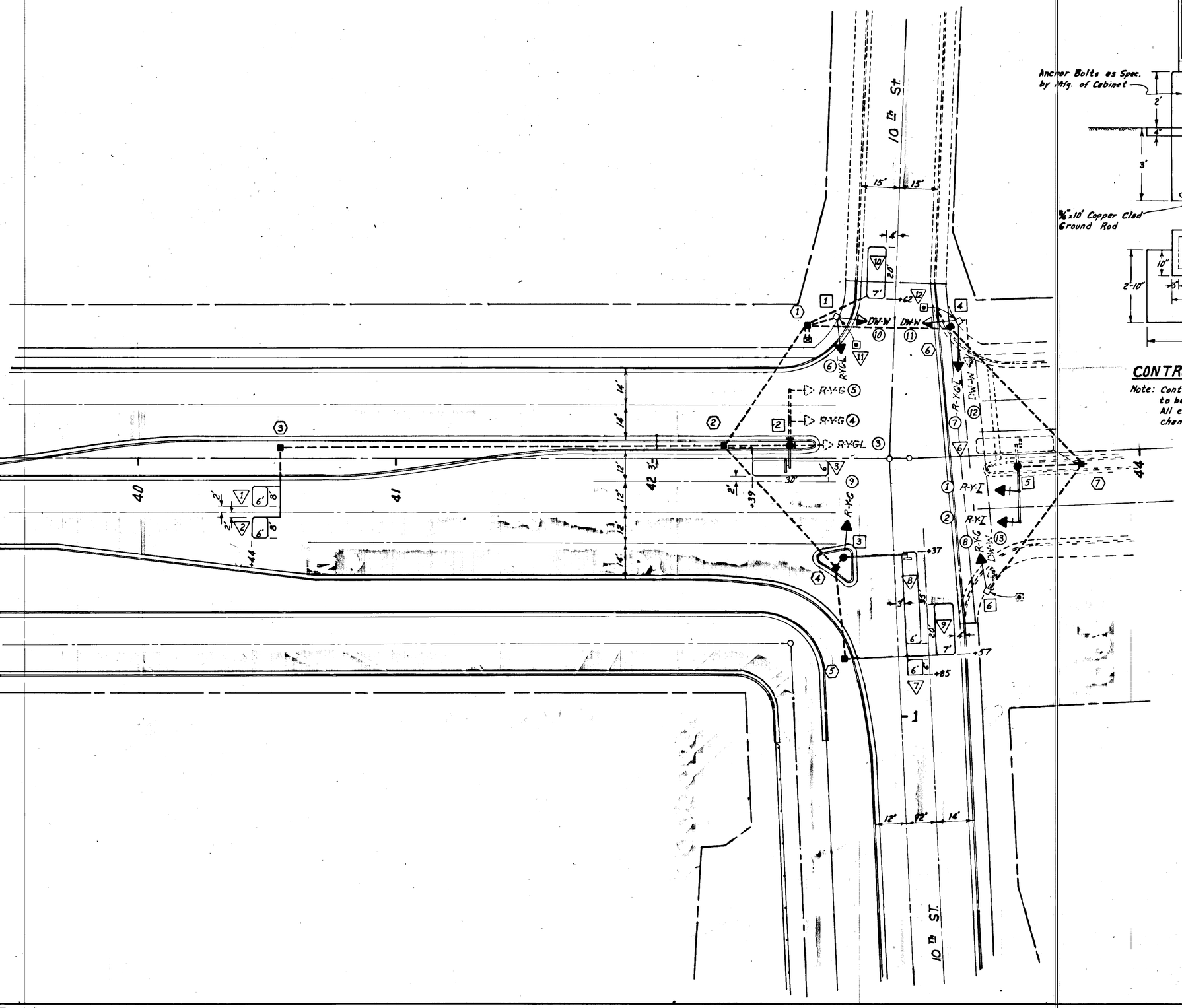
* Future

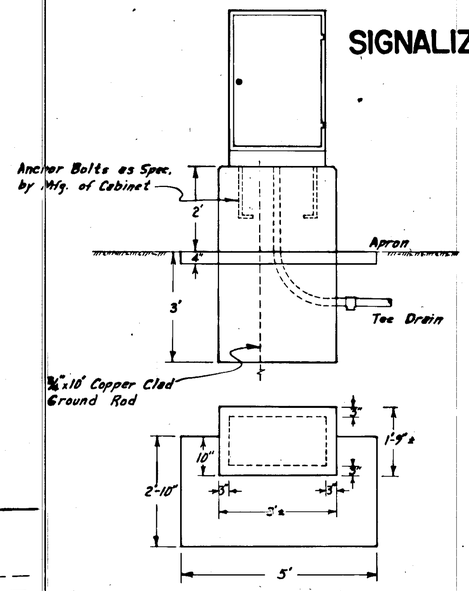
SIGNAL HEADS

Number Post	Number Foca	Down Light	Indications 12" Lens L	12" Lens R	8" Lens Y	8" Lens G	8" Lens DW	8" Lens W	Visors 12" Lens Std.	12" Lens Turn.	8" Lens Std.	8" Lens 8" Turn	8" Lens Ped.	Back Plates 1-12" 2-8"	Brkts. I or Std.	One Way - Type Ped. 2-S	1-T	3-S	3-B	4-T	Two Way Type Ped. 22-S		Remarks
1	6		1	1	1	1			1		3				1					1			
"	10	1					1	1					2		1	1							
2	3	1																					Future
"	4																						"
"	5																						"
3	9			1	1	1					3				1			1					
"	-	1																					90° Clockwise from 9
4	7		1	1	1	1			1		3				1					1			
"	11	1					1	1					2		1*						1		*2 Way Brkt. for future
"	12																						Future
5	-	1																					8' Mtg. Ht. on Post
"	1		1	1	1					1		2		1	1				1				
"	2		1	1	1					1		2		1	1				1				
6	8			1	1	1					3				1		1						
	13																						Future
	-	1																					90° Ctr. Clockwise from 8
Totals		6	4	6	6	4	2	2	2	2	12	4	4	2	8	1	1	1	2	2	1		

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	42	93

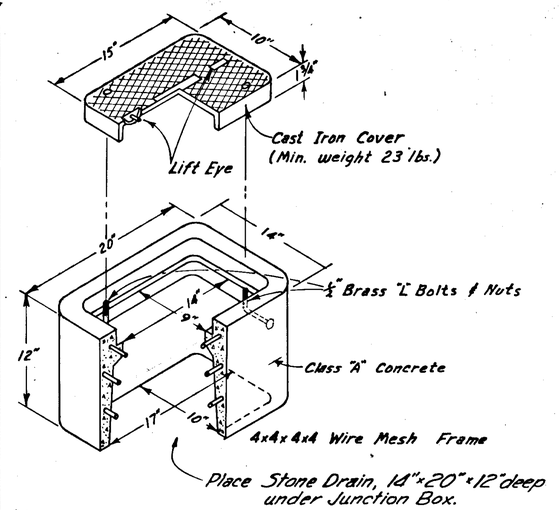
SIGNALIZATION LAYOUT DETAILS





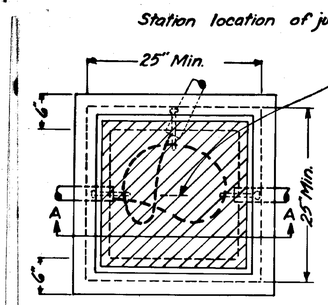
CONTROLLER BASE

Note: Controller base and apron to be Class "W" concrete. All exposed corners to be chamfered ¾".

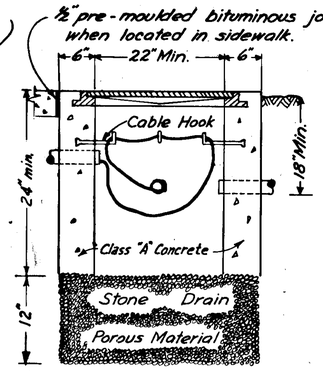


All dimensions are nominal

TYPE I JUNCTION BOX



NOTE:
Junction box frame & cover to be of cast iron, weigh minimum 220 pounds.



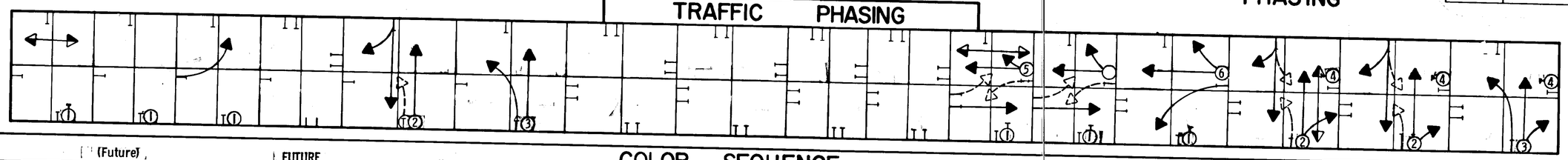
SECTION A-A

TYPE II JUNCTION BOX

SIGNALIZATION PHASING

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	43	73

TRAFFIC PHASING



COLOR SEQUENCE

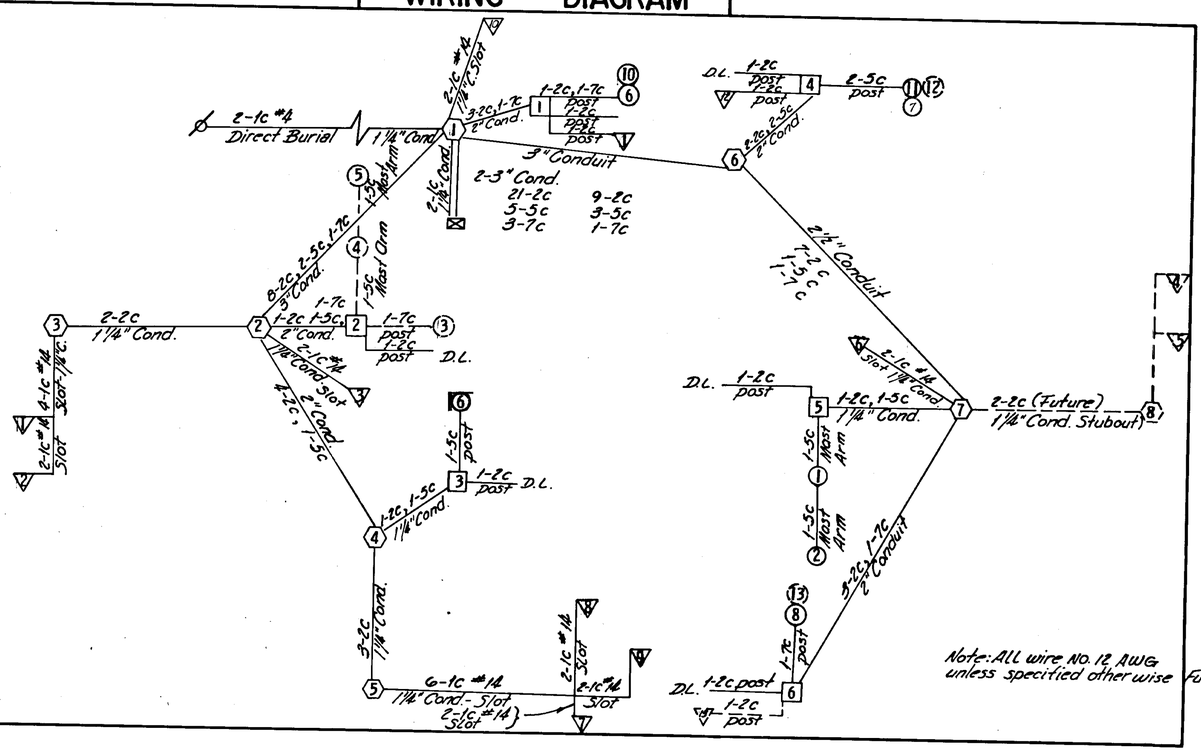
(Future) FUTURE

APPROACH	PHASE	FACE NO.	ø A PEDES. R/W	ø A PEDES. CLEAR TO ALL	ø A R/W	ø A CLEAR TO	ø B R/W	ø B CLEAR TO All	ø C PEDES. R/W	ø C PEDES. CLEAR TO	ø C R/W	ø C CLEAR TO 'D'	ø C CLEAR TO ALL OTHERS	ø D R/W	ø D CLEAR TO C	ø D CLEAR TO ALL OTHERS
SOUTHEAST BOUND OUTER DRIVE	Ov	1&2	R	R			L	Y			R	R	R	R	R	R
Pedestrians	Ap	11	W	FWD			DW	DW			DW	DW	DW	DW	DW	DW
NORTHWEST BOUND OUTER DRIVE	Fut.	3 & 4&5														
Pedestrians		10	W	FWD			DW	DW			DW	DW	DW	DW	DW	DW
NORTHEAST BOUND TENTH ST.	Cv & Ov	6&7	R	R			R	R			G	G	Y	GL	G	Y
Pedestrians	Fut.	12														
SOUTHWEST BOUND TENTH ST.	Cv	8&9	R	R			R	R			G	Y	Y	R	R	R
Pedestrians	Fut.	13														

Face No.	ø A (PEDEST) R/W	ø A CLEAR TO A	ø A CLEAR TO Plus Yellow & Red Clearance	ø A CLEAR TO B	ø A CLEAR TO All Others	ø B R/W	ø B CLEAR TO A	ø B CLEAR TO All Others	ø C (PEDEST) R/W	ø C CLEAR TO C	ø C CLEAR TO Plus Yellow & Red Clearance	ø C CLEAR TO D	ø C CLEAR TO All Others	ø R/W	ø CLEAR TO C	ø CLEAR TO All Others
1&2	G	G	G	Y	Y	R	R	R	R	R		R	R	R	R	R
11	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW		DW	DW	DW	DW	DW
3	G	G	G	G	Y	GL	G	Y	R	R		R	R	R	R	R
4&5	G	G	G	G	Y	G	G	Y	R	R		R	R	R	R	R
10	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW		DW	DW	DW	DW	DW
6&7	R	R	R	R	R	R	R	R	G	G		G	G	Y	G-L	G
12	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW		DW	DW	DW	DW	DW
8&9	R	R	R	R	R	R	R	R	G	G		G	Y	Y	R	R
13	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW		DW	DW	DW	DW	DW

NOTE. ø B Association changes from initial to ultimate operation signal indication

WIRING DIAGRAM



Note: All wire NO. 12 AWG unless specified otherwise Future

LEGEND

- Actuated Vehicular Movement
- Partially Restricted Vehicular Movement
- Actuated Pedestrian Movement
- (2) Detector Switched (Function No. 7)
- R/W Right of Way Interval
- ø Traffic Phase
- R Red
- Y Yellow
- G Circular Green
- L Green Left Arrow

FLASHING OPERATIONS

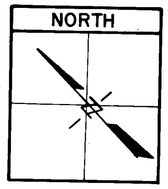
All Approaches	FR

CONTROLLER TYPE F-4M

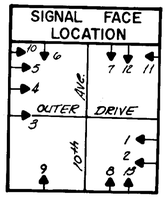
DETECTOR SWITCHING

1. Calls for ø C
2. Extends ø C, disconnects on ø D actuation
3. Extends ø D, disconnects on ø C actuation
4. Calls for ø A
5. Extends ø A, disconnects on ø B actuation
6. Extends ø B, disconnects on ø A actuation

NORTH



SIGNAL FACE LOCATION



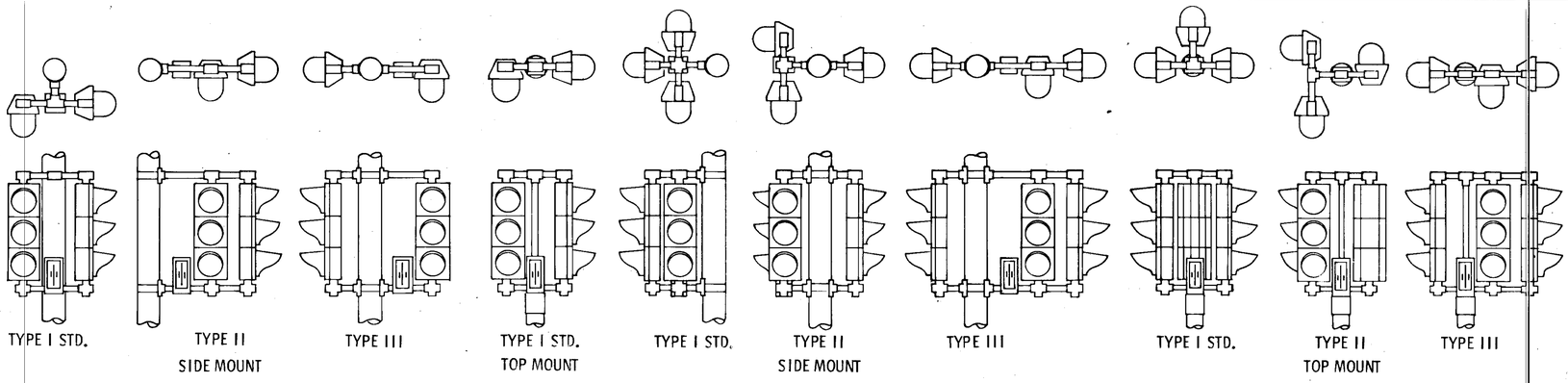
SUGGESTED TIMING

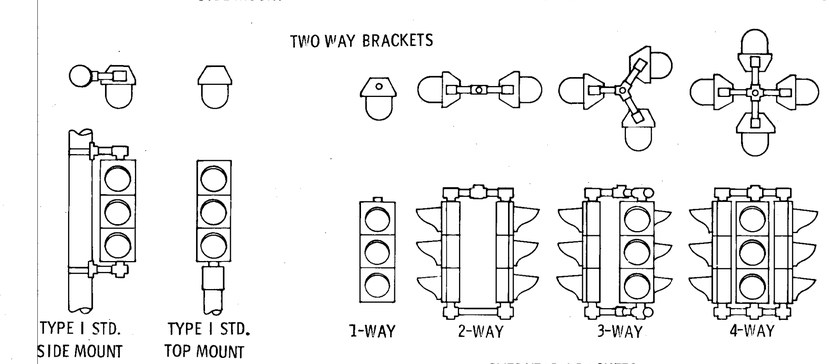
ø	Initial Portion Min	Initial Portion No. Act.	Initial Portion Var.	Unit Ext. Pass. Time	Reduction Time Waiting	Reduction Min. Gap	Extens. Limit Max.	Clearance
A ped.	7	—	—	—	—	—	—	7
A	12*	16*	20*	4.5*	40.0*	2.0*	60.0*	4.0*
B	7	—	—	0	—	—	30.0	3.0
C ped.	7*	—	—	—	—	—	—	17*
C	9	—	—	0	—	—	30.0	4.0
D	7	—	—	0	—	—	30.0	3.0

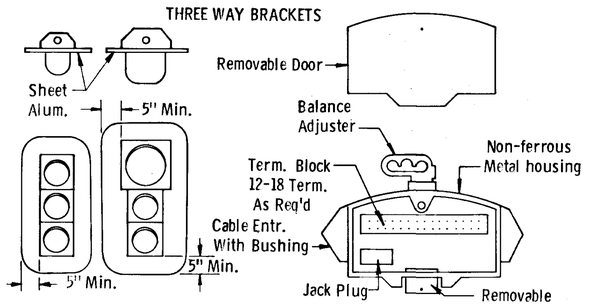
* For Initial Operation – Set to Zero

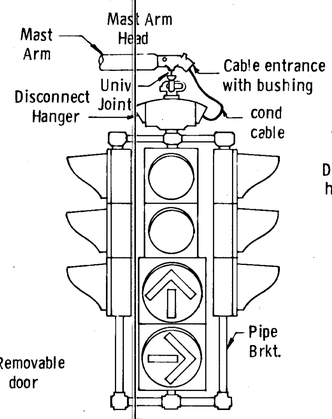
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	44	73

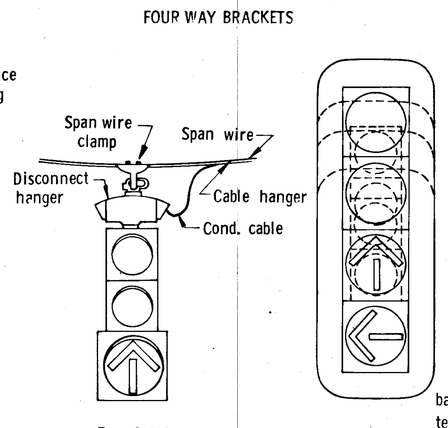
TRAFFIC SIGNAL DETAILS

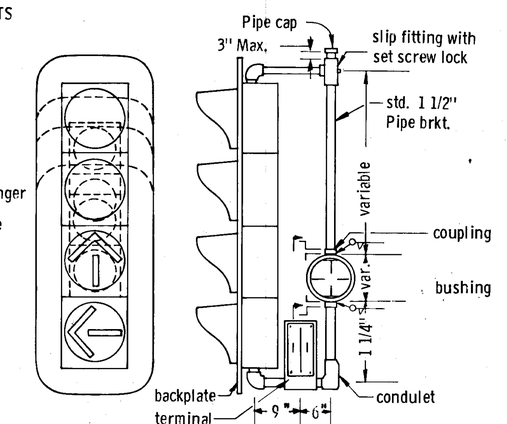


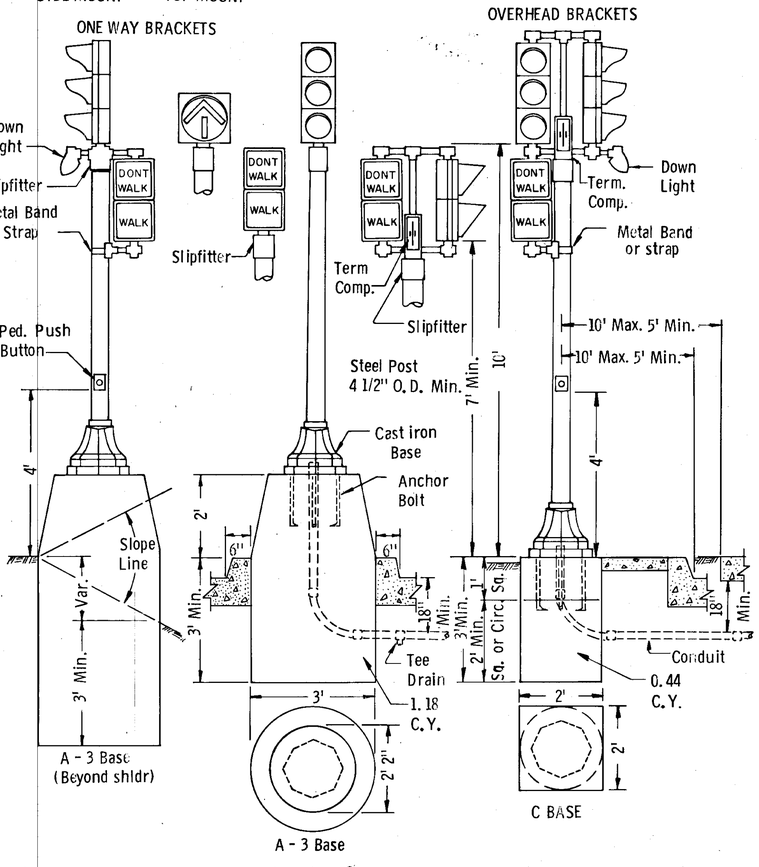


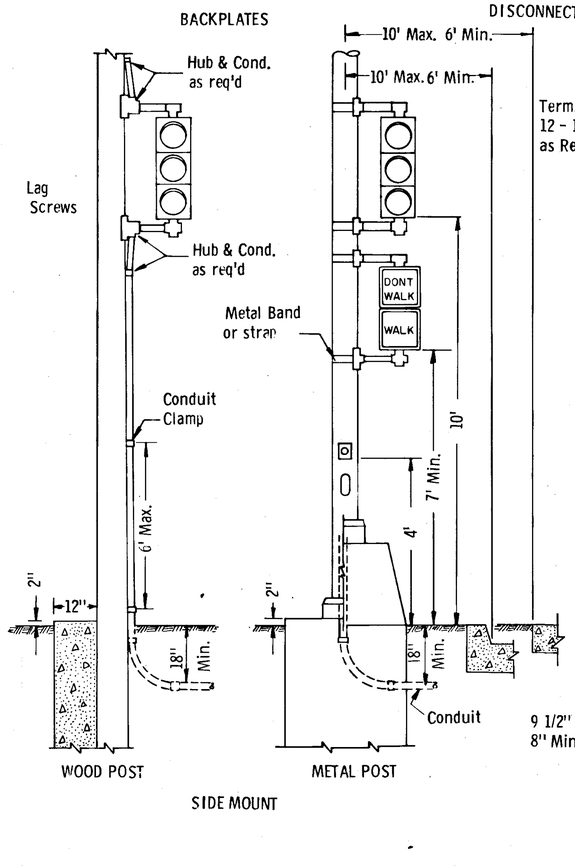


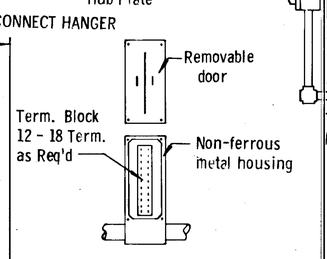






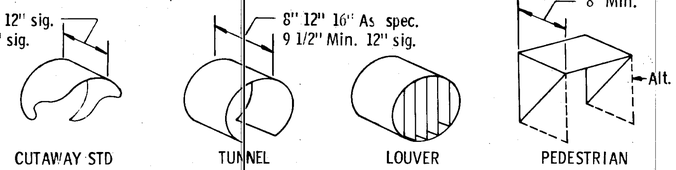


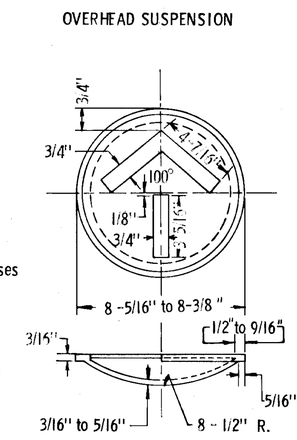


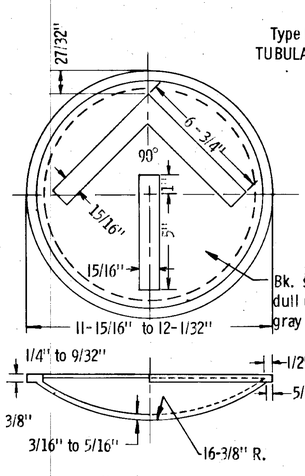


NOTES:

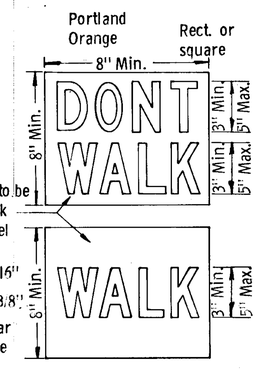
1. One-half inch pre-moulded bituminous joints are required between concrete bases and adjacent concrete paved surfaces.
2. All post wire outlets to be equipped with bushings.
3. Post and base to be grounded with No. 6 A.W.G. bare copper wire from conduit with clamp to anchor bolt with a single wrap below anchor nuts.
4. Leads from pedestrian signal lamps are connected to the signal head terminal compartment.
5. One way mounted signals will not have external terminal compartment.







VEHICULAR LENSES

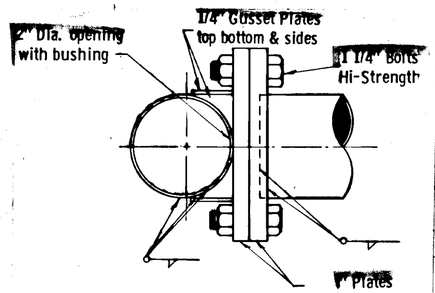


TRAFFIC SIGNAL DETAILS

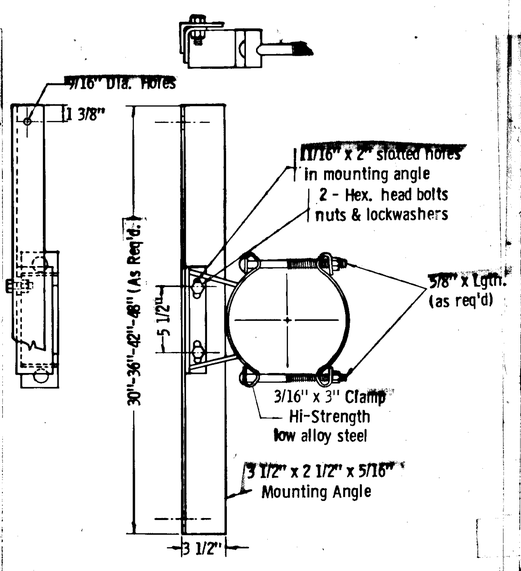
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13	1967	45	73

REVISIONS

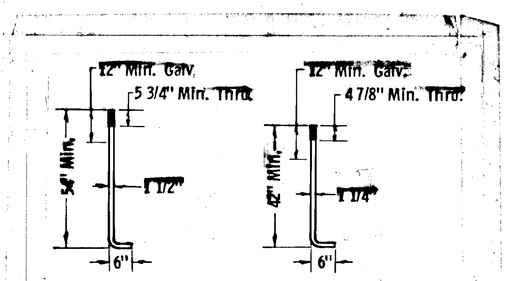
No.	Date	Description

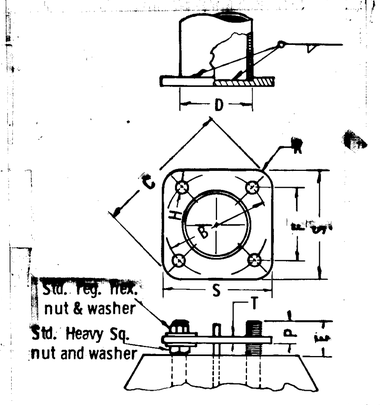


ARM ATTACHMENT

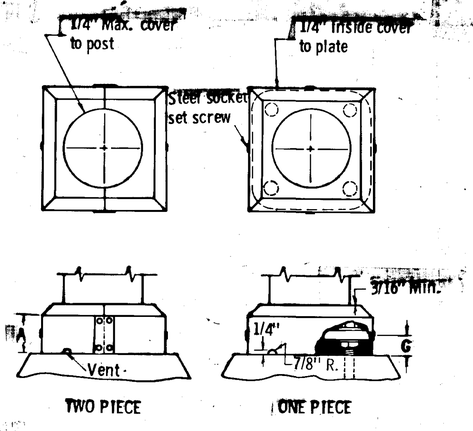


SIGN BRACKET ASSEMBLY





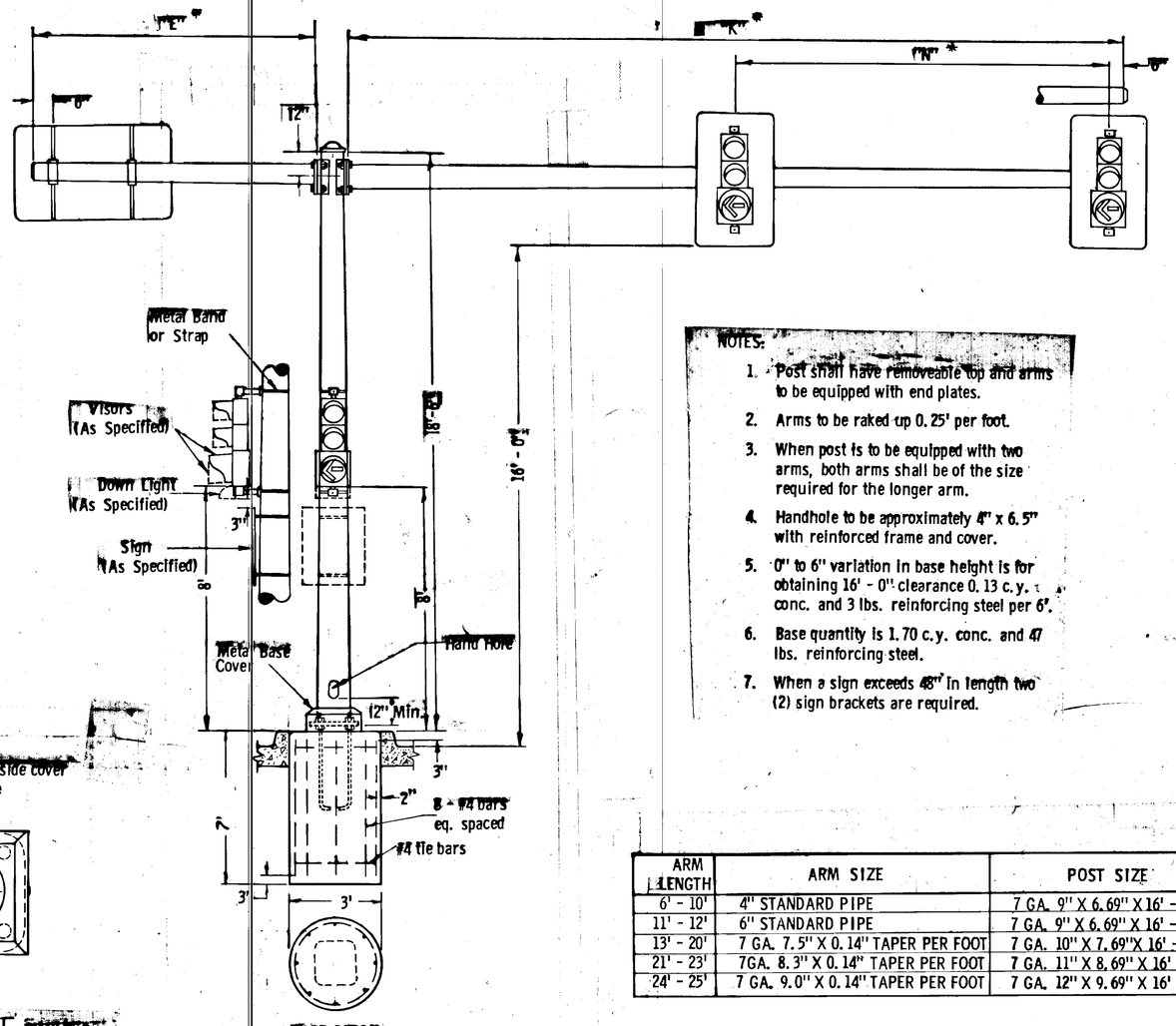
STEEL PLATE ANCHOR BASE



TWO PIECE ONE PIECE

METAL BASE COVERS

* SEE SHEET #41 FOR THESE DIMENSIONS



BASE DETAIL

NOTES:

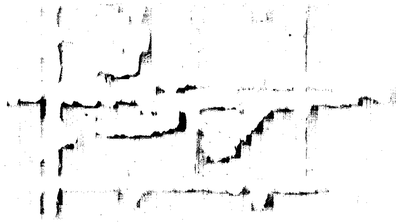
1. Post shall have removeable top and arms to be equipped with end plates.
2. Arms to be raked up 0.25' per foot.
3. When post is to be equipped with two arms, both arms shall be of the size required for the longer arm.
4. Handhole to be approximately 4" x 6.5" with reinforced frame and cover.
5. 0" to 6" variation in base height is for obtaining 16' - 0" clearance 0.13 c.y. conc. and 3 lbs. reinforcing steel per 6".
6. Base quantity is 1.70 c.y. conc. and 47 lbs. reinforcing steel.
7. When a sign exceeds 48" in length two (2) sign brackets are required.

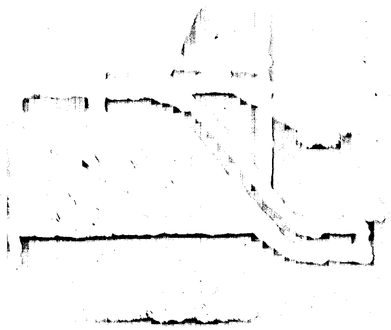
ARM LENGTH	ARM SIZE	POST SIZE
6' - 10'	4" STANDARD PIPE	7 GA. 9" X 6.69" X 16' - 6"
11' - 12'	6" STANDARD PIPE	7 GA. 9" X 6.69" X 16' - 6"
13' - 20'	7 GA. 7.5" X 0.14" TAPER PER FOOT	7 GA. 10" X 7.69" X 16' - 6"
21' - 23'	7GA. 8.3" X 0.14" TAPER PER FOOT	7 GA. 11" X 8.69" X 16' - 6"
24' - 25'	7 GA. 9.0" X 0.14" TAPER PER FOOT	7 GA. 12" X 9.69" X 16' - 6"

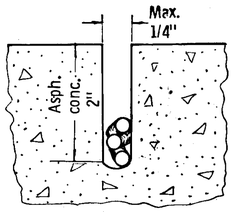
POST		POST BASE PLATE									ANCHOR BOLTS		BASE COVER	
GA.	D	B	C	H	F	P	R	S	T	E	DIA.	LGTH.	A	G
7	9"	12 1/2"	15 3/4"	1 1/2"	8 7/8"	3"	2 3/4"	12 3/4"	1 1/4"	4 7/8"	1 1/4"	48"	4 7/8"	2 1/2"
7	10"	13 1/2"	17 1/2"	1 3/4"	9 9/16"	3 1/2"	3 1/8"	14 1/8"	1 1/2"	5 3/4"	1 1/2"	60"	5 3/4"	3"
7	11"	15"	19 1/8"	1 3/4"	10 5/8"	3 1/2"	3 1/2"	15 5/8"	1 1/2"	5 3/4"	1 1/2"	60"	5 3/4"	3"
7	12"	16"	21"	1 3/4"	11 5/16"	3 1/2"	3 3/4"	17"	1 1/2"	5 3/4"	1 1/2"	60"	5 3/4"	3"

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	46	73

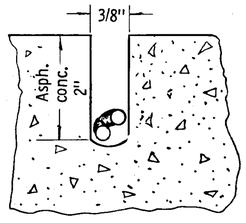
TRAFFIC SIGNAL DETAILS



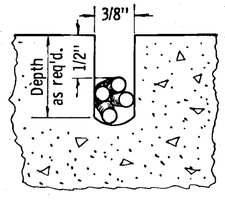




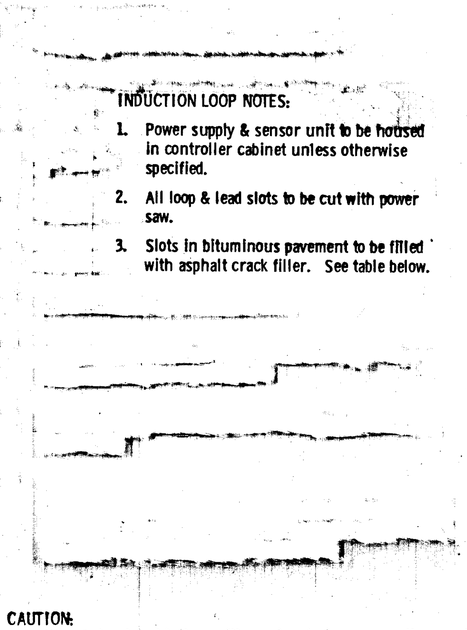
Section A-A
LOOP SLOT



Section B-B
LEAD SLOT



Section D-D
LEAD SLOT

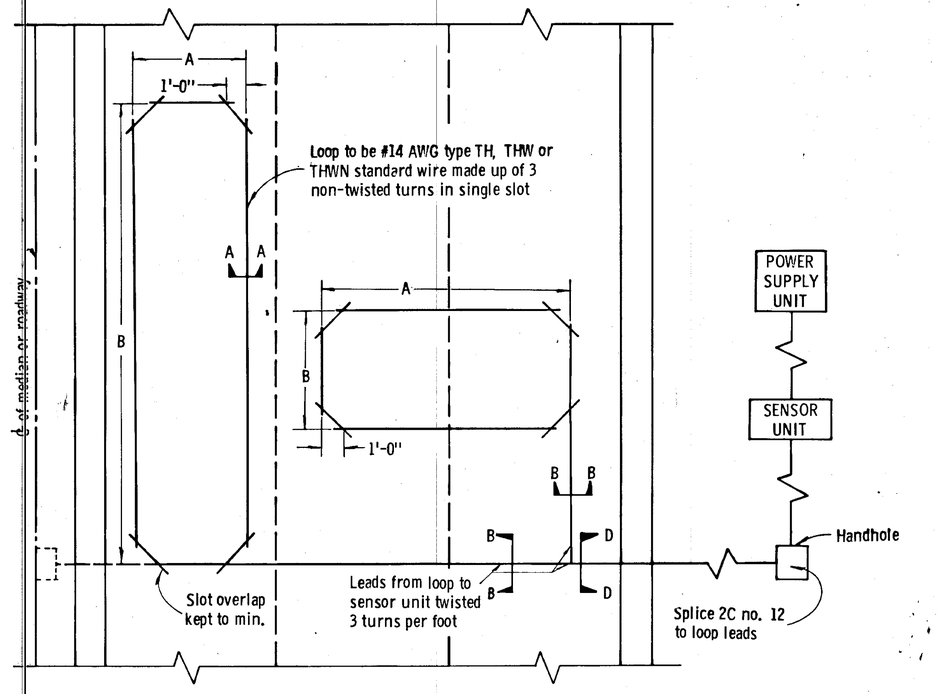


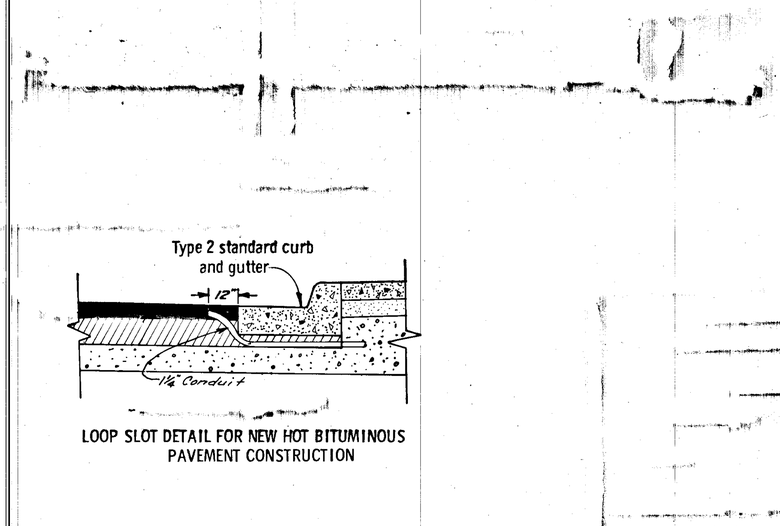
INDUCTION LOOP NOTES:

1. Power supply & sensor unit to be housed in controller cabinet unless otherwise specified.
2. All loop & lead slots to be cut with power saw.
3. Slots in bituminous pavement to be filled with asphalt crack filler. See table below.

CAUTION:
Wire to be placed in loop with wooden device or any other such device which will not damage the wire insullation.

ASPHALT CRACK FILLER			
SAND	LIME DUST	CEMENT	MC-4 ASPHALT
20 Parts	5 Parts	1 Part	1.6 Parts
Part(s) shall be of volume measurement. Mix all dry ingredients thoroughly before adding asphalt type and grade of asphalt other than MC-4 may be substituted with approval of the engineer.			

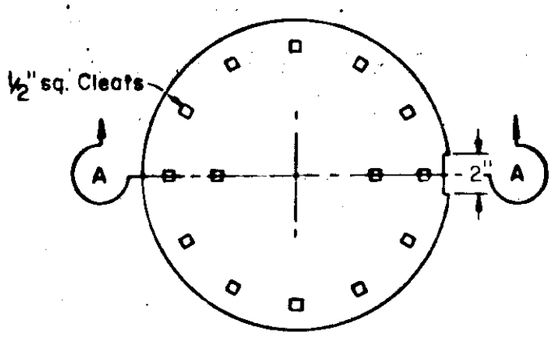




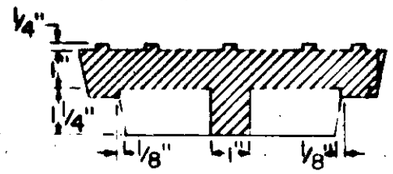
LOOP SLOT DETAIL FOR NEW HOT BITUMINOUS PAVEMENT CONSTRUCTION

STANDARD BRASS CAP MONUMENT & MONUMENT CASE

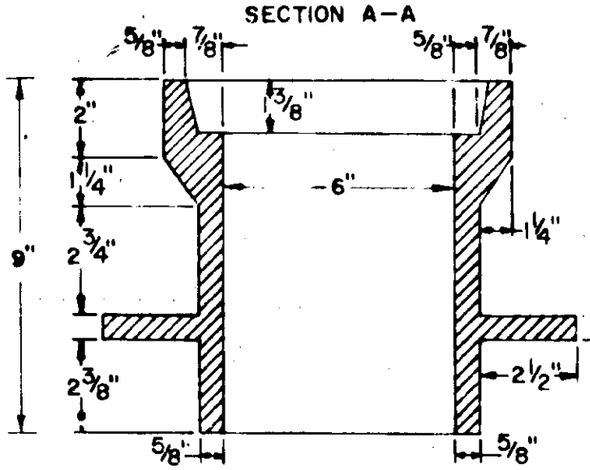
STATE	PROJECT DESIGNATION	SHEET Nº	TOTAL SHEETS
ALASKA	F-095-8(5)	47	73



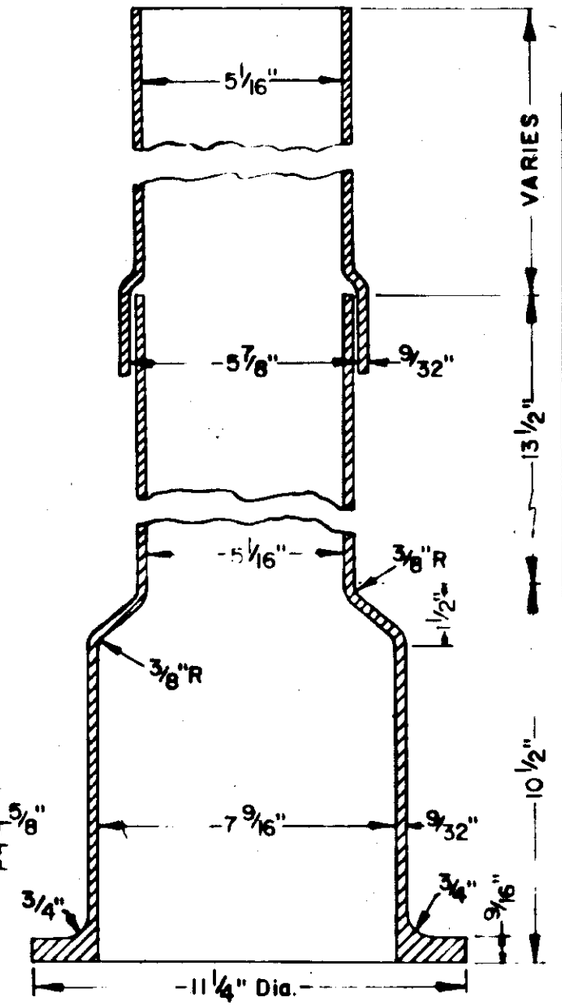
PLAN VIEW—COVER



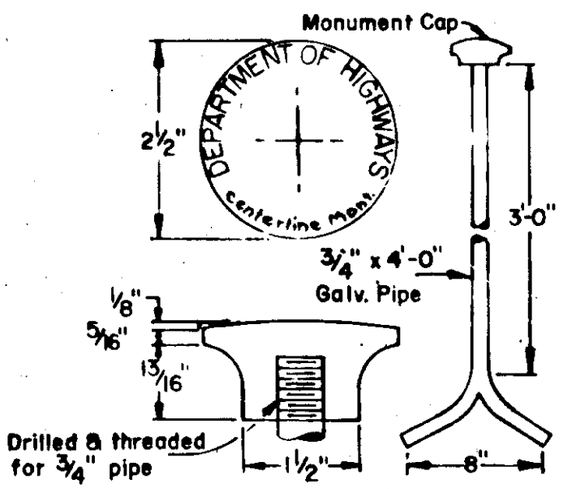
SECTION A-A



MONUMENT CASE



EXTENSION PIPES



MONUMENT CAP

NOTE:

Where monument cases are to be placed in a bituminous paved or surfaced road, the top of the case shall be the same elevation as the top of the roadway.

Where monument cases are to be placed in a gravel surfaced roadway the top of the case shall be placed 1'-0" below the top of the surface of the roadway.

In solid rock, drill 2" ø hole a minimum of 1'-0", fill with mortar and set cap. ¾" x 9" galv. pipe, designated length when set in mortar. The top of the monument shall be the same elevation as the bottom of the monument case.

SUMMARY OF BRASS CAP MONUMENTS & MONUMENT CASES

STATION	MON	MON CASE	EXTEN PIPE	REMARKS
"L" 9+50.00	1	1		@ ℄
"O" 12+60.32	1	1		RMC 35-46.73' Rt.
"O" 12+63.69	1	1		City Limits @ ℄
"O" 12+64.45	1	1		C 35-10.53' Lt.
"O" 18+53.73	1	1		P.I.
"O" 21+15.20	1	1		@ ℄
"O" 22+72.20	1	1		P.C. @ ℄
"O" 25+44.00	1	1		P.T. @ ℄
"Li" 30+62.29	1	1		P.C. @ ℄
"Li" 31+25.67		1	1	RMC 31-42.84' Rt.
"Li" 33+99.50	1	1		P.T. @ ℄
"L" 38+27.50	1	1		@ ℄
"L" 42+92.42	1	1		@ ℄
"L" 43+00.00	1	1		P.I.
TOTAL	13	14	1	

STATION	MON	MON CASE	EXTEN PIPE	REMARKS

ESTIMATE OF QUANTITIES UTILITIES

STATE	PROJECT NO.	YEAR	SHEET NO.	TO SH
ALASKA	F-095-8(13)	67	48	7

POLE NO.	POLE Status	POLE DISCRIPTION Owner	Location — Details	BACK SPAN	POLE TYPE	NEW POLES Steel 55	Steel 50	Wood 60/1	Wood 55/1	Wood 50/1	Wood 45/1	Wood 40/1	Wood 35/2	A.J. INDUSTRIES Str1	Str2	Str.3	Str. 4	Str. 5	Str.6	Str. 7	Str. 8	#4/0
1-A	Existing	AJ	Attach existing conductor to Str. 2	373	Steel Tr.																	Ex. Cu
1-B	New	AJ	Attach existing conductor	--	Wood				X					1					2-S			Ex. Cu
1-C	New	AJ		155	Wood				X					1								3
2	New	AJ		156	Wood			X							1				1-D			3
3	New	AJ		148	Wood			X							1							6
4	New	AJ		146	Wood			X							1							6
5	New	AJ		144	Wood			X							1							6
6	New	AJ		154	Wood			X							1				2-D			6
7	New	AJ		139	Wood			X							1							6
8	New	AJ		144	Wood			X							1							6
9	New	AJ		137	Wood			X							1							6
10	New	AJ		140	Wood			X							1							6
11	New	AJ		160	Wood			X							1							6
12	New	AJ		178	Wood			X							1							6
13	New	AJ		174	Wood			X							1							6
14	New	AJ		170	Wood			X							1							6
15	New	AJ		169	Wood			X							1				2-D			6
15 SP	New	AEL&P		160	Wood			X														
16	New	AJ		157	Wood			X							1							6
17	New	AJ		161	Wood				X						1							6
17-A	New	AJ		161	Wood				X						1							6
18	New	AJ		161	Wood				X						1				2-D			6
19	New	AJ		166	Wood				X						1				1-D			6
20	New	AJ		134	Wood				X						1							6
21	New	AJ		134	Wood				X						1							6
22	New	AJ		143	Wood				X						1							6
23	New	AJ		137	Wood			X								1						6
23 GS	New	AJ		--	Wood					X									1-S	1		
23 R-1	Existing	AEL&P		--	Wood																	
24	New	AJ		153	Wood				X					1								3
25	New	AJ		153	Wood				X					1								3
26	New	AJ		142	Wood				X					1								3
27	New	AJ		120	Wood				X					1								3
28	New	AJ		120	Steel		X							1						1	3	
28 L-1	New	AEL&P	Attach existing conductor	150	Wood			X														
P L-2	Existing	AEL&P		100	Wood																	
P L-3	Existing	AEL&P		100	Wood																	
P L-4	Existing	AEL&P		140	Wood																	
P L-5	Existing	AEL&P		100	Wood																	
	Existing	J.D.T.	12th & Glacier	--	Existing																	
29	New	AJ		120	Wood				X					1								3
30	New	AJ		120	Steel		X									1				1	3	
31	New	AEL&P		122	Wood				X													
31-L-1	New	AEL&P	Terminate Existing Telephone	210	Wood							X										
31-R1	Existing	AEL&P		50																		
32	New	AJ		105	Steel		X							1						1	3	
33	New	AJ	11th North Side St.	200±	Wood				X					1								
32 A	New	AJ		150						X				1								
55	Existing	AEL&P	No Change	--	Wood																	
55 B	New	AEL&P		95±	Wood								X									
55 C	Existing	AEL&P	No Change	--	Wood																	
71	Existing	AEL&P		--	Wood																	
72	New	AEL&P		190	Wood							X										
73	New	AEL&P		250	Wood			X														
Bridge	New	AEL&P	Underground-P. 73 to J. B. on Bridge	100±																		

Note: See special provisions for special materials and construction details.

* See item sheets for structure and materials pole line handware.
** See Steel pole foundations Detail

POLE NO.	ALASKA ELECTRIC LIGHT AND POWER — Back Span	ALWP	Prl. Unit	G Unit	E Unit	F Unit	J-K Unit	Under Build	Sec. only	Wire	K Unit	Service Span	Wire	REMARKS
13	60'	2#4/0	8-7N C-7N		1-3	1-4	J-14			#2 ALTPX.				Tap Lt. to Ross Ave. M-26, 2M5-9
14	170'	3-4/0	C9-1N				J-10	170		#2 ALTPX.				M26 St. Lt. CKT.
15	170'	3-4/0	C8-N	G-1*			7-1/2 J-14	170		#2 ALTPX.				TRANS. ST.LT.Rly. M-26 TRANS. Conductors from CD to #15
15 SP					1-3	1-4	J-14		160'	#1/0 ALTPX.	Exist.	65	#1/0 ALTPX.	Connect Existing Meter Loop
16														
17														
17-A														
18														
19			C-7N	G-1**	1-3	1-4	J-14					110	#1/0 ALTPX.	To Float
20	134	3-4/0	C9-1N											
21	134	3-4/0	C9-1N											
22	143	3-4/0	C9-1N											
23	137	3-4/0	C8-N C7-N		2-2									
23 GS					1-3	1-4								Transfer existing 3 #6 w Exist service to remain.
23 R-1			C9-N	Exist.	1-3	1-4								
24	153	3-4/0	C9-1N											
25	153	3-4/0	C9-1N											
26	143	3-4/0	C9-1N											
27	120	3-4/0	C9-1N	G-1*							K-14	25	#1/0 ALTPX.	Service Drop to Exist Service
28	120	3-4/0	C8-2N C7-1N											
28 L-1	150	2/0 Cu	C8-N				J-10	150'		#1/0 ALTPX.	K-11			Transfer Exist.
P L-2														
P L-3														
P L-4														
P L-5														
29	120	2-4/0	B9-1N											
30	120	2-4/0	B9-1N											
31	122	2-4/0	B9-1N				K-13							
31-L-1					1-3	1-4	J-10		210	#1/0 ALTPX.	K-13			Trans. 2 Services M-26
31-R1							K-13		50	#1/0 ALTPX.				Trans. Services
32	105	2-4/0	B7-3N											
33														
32 A														
55														
55 B					1-3	1-4	K-13		95	#2 ALTPX.				Transfer Existing 3#600P Running 55c from 55A to 55B
55 C														
71		3-4/0	2C7-N B7-N				JC-7N							
72	190	3-4/0	C-1N				J-10				J-10	40	#2 ALTPX.	To Existing Meter Loop
73	250	3-4/0	C-7N	G-1*	1-3	1-4	J-10	250'		#1/0 ALTPX.		60	#1/0 ALTPX.	To Exist. Trailer Court Service P
Bridge			TRANSFER (1) Bridge* LTG. CK 7 Relay from (Pole #1(2) Disc Switch (3) Meter Loop)									100	3 #1/0 Cu. U.G.	INSTALL in New Conduit from Pole To Junction Box on Bridge.

Note: All Transformer G units are Installed with M-2-12 Ground assembly

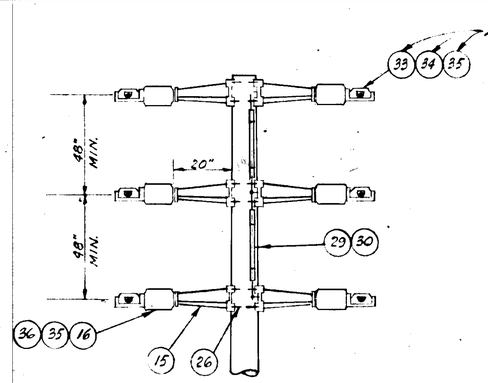
* See R.E.A. Designated type construction and standard sheets
G-1* 50 KVA Tranformer to be furnished by Alaska Electric Light & Power Co.
G-1** 15 KVA Transformer to be furnished by Alaska Electric Light & Power Co.
Fire Alarm Boxes to be moved by Alaska Electric Light & Power Co.
New Street Lights to be furnished of Alaska Electric Light & Power Co.

POLE NO.	JUNEAU & DOUGLAS TELEPHONE — Steel K-Arm	Band Attach	Dead Ends	Fig. 8-22GA 25Pr.	50Pr.	D.P. 6Pr.	REMARKS
13							
14							
15	1		1	x			One set with dead ends for po N.E. of pole #15.
15 SP	1		1	x		x	Buried Telephone to (XX) Auroa
16							
17							
17-A							
18							
19	1			x			
20	1			x			
21	1			x			
22	1			x			
23	1			x			
23 GS							
23 R-1	1		1	x			
24	1			x			
25	1			x			
26	1			x			
27	1			x			
28		1	3	x	x		
28 L-1	1				x		
P L-2	1				x		
P L-3	1				x		
P L-4	1				x		
P L-5	1				x		
			1		x		
29	1			x			
30		1		x			
31	1			x			
31-L-1							
31-R1							
32		1	1	x			
33							
32 A							
55							
55 B							
55 C							
71							
72							
73							
Bridge							

* See REA. PB-1-2 or 4
REA. 301-1
** See REA. 302-1
REA 303-1
REA 304-4
REA 304-5
REA 306-1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	49	73

UTILITY PLANS



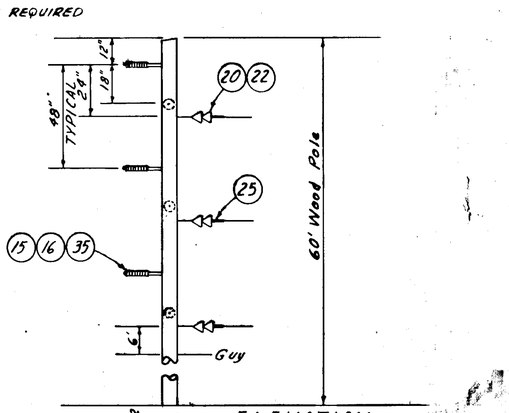
ELEVATION

POLE # 2*, 3, 4, 5*, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15*
16, 17, 17A, 18*, 19*, 20, 21, 22

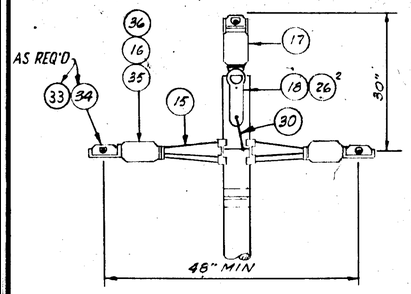
* ITEM (33) REQUIRED

ALL OTHER POLES REQUIRE ITEM (34)

Type 2



Type 3

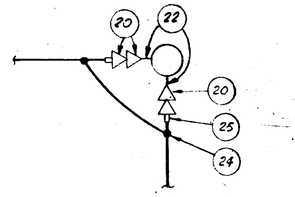


ELEVATION

(POLE #1A*, 1C, 24, 25, 26, 27, 28, 29, 32, 32A, 33.)

* ITEM (33) REQUIRED. ALL OTHER POLES REQUIRE ITEM (34)

Type 1



PLAN

(POLE #30)

Type 4

NOTES

1. FOR POLE FOOTING SEE DWG. TYP #8
2. FOR POLE DESCRIPTION SEE SPEC'S.

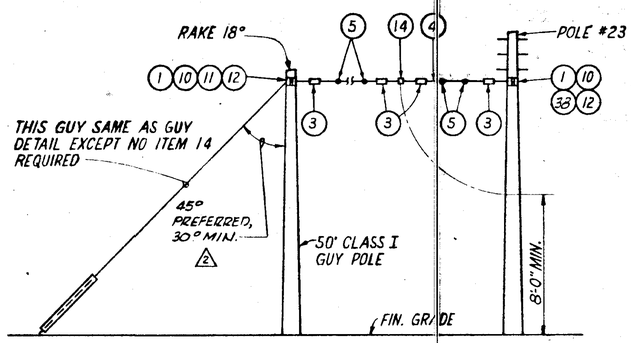
DETAIL (1) (2)

NO SCALE

ELEVATION

Type 6

TYPICAL GUY DETAIL



SINGLE OVERHEAD GUY ASSEMBLY DETAIL

Type 7

MATERIAL LIST

ITEM	DESCRIPTION
1	WASHER, SQUARE, STEEL GALV. 2-1/2" X 13/16" DIA. HOLE.
2	1/2" X 14" MACHINE BOLT AND NUT, HUBBARD #9714 OR EQUAL.
3	3-BOLT GUY CLAMP, HEAVY TYPE, HUBBARD #7461 OR EQUAL.
4	GUY WIRE, 26,900 LBS. RATED EXTRA HIGH STRENGTH, 7 STRAND 1/2", 0.165.
5	SERVISLEEVE FOR 1/2 GUY WIRE, HUBBARD #7456 OR EQUAL.
6	GUY GUARD, HALF ROUND, 8'-0" LONG, HUBBARD #7558B OR EQUAL.
7	1" X 10'-0" LONG, COPPERWELD ANCHOR ROD, HUBBARD #8440 OR EQUAL.
8	ANCHOR, 4 WAY EXPANDING, JOSLYN J2856 OR EQUAL.
9	SQUARE WASHER FOR 1" BOLT, 6" X 6" X 3/8", HUBBARD #7827 OR EQUAL.
10	WASHERHEAD NUT SIZE AS REQUIRED FOR BOLT.
11	ANGLE EYE BOLT FORGED STEEL, GALV. SHOULDER TYPE THIMBLE EYE 3/4" DIA. X LENGTH REQUIRED.
12	LOAD PLATE, STEEL, GALV. CURVED, 2½ X 7" X 1/4", 11/16" DIA. BOLT HOLE.
13	LAG SCREW, STEEL, GALV., FETTER DRIVE, 1/2" DIA. X 5" LONG.
14	STRAIN INSULATOR MECHANICAL STRENGTH 27,000 LBS.
15	SQUIRREL CAGE EXTENSION ARM SIDE BRACKET, LINDSEY #730 OR EQUAL.
16	CLAMP TOP LINE POST 35 KV (FOR HORIZONTAL MOUNTING) LAPP #4635 OR EQUAL.
17	CLAMP TOP LINE POST 35 KV (TOP OF POLE MOUNTING) LAPP. #4235 OR EQUAL.
18	BRACKET BOLT MOUNTED LAPP #10765 OR EQUAL.
19	AIR BREAK SWITCH 400A - 3 POLE 34.5 KV, KPF ELECTRIC CO. #W-203 OR EQUAL WITH OPERATING CONTROL ASSEMBLY CONSISTING OF 3/4" PIPE OPERATING ARM, LENGTH AS REQUIRED, & PUSH-PULL HANDLE.
20	INSULATOR 35 KV SUSPENSION TYPE.
21	5/8" DOUBLE ARMING BOLT, LENGTH AS REQUIRED, 5/8" PALNUT, WASHERHEAD NUT, SQUARE NUT.
22	TOWER FITTING, FORGED STEEL 27,000 LBS. STRENGTH.
23	EYE NUT, FORGED STEEL FOR 5/8" BOLT.
24	CABLE CONNECTOR, 4/0 TO 4/0 HEAVY DUTY ALUMINUM, 2 BOLT TYPE (OR COPPER TO ALUMINUM WHERE CONNECTED TO EXISTING LINES).
25	DISTRIBUTION STRAIN CLAMP FOR 4/0 WIRE.
26	5/8" BOLT, WASHERHEAD TYPE, LENGTH AS REQUIRED, 5/8" LOCKNUT & WASHERHEAD NUT.
27	CROSSARM 3-3/4" X 4-3/4" X 8'-0" DOUGLAS FIR CREOSOTE TREATED.
28	ANGLE BRACE 1-1/2" X 1-1/2" X 3/16", 60" SPAN, 18" DROP.
29	WOOD MOLDING.
30	BONDING WIRE #8 B.C. MEDIUM SOFT DRAWN.
31	GROUND WIRE #4 B.C. HARD DRAWN.
32	GROUND ROD 3/4" X 10'-0" WITH GROUND CLAMP.
33	HORIZONTAL DEAD END ATTACHMENT GALV. DUCTILE IRON, LINDSEY #213 OR EQUAL FOR ATTACHMENT OF LINES EXCEEDING 15° ANGLES.
34	CLAMP HEAT TREATED ALUMINUM ALLOY FOR STRAIGHT THRU LINES, LAPP #47112 OR EQUAL.
35	CLAMP HEAT TREATED ALUMINUM ALLOY FOR 1 DEGREE TO 15 DEGREE LINES, LAPP #N80482 OR EQUAL.
36	LINE POST STUD (FOR STEEL BRACKET) LAPP #10186 OR EQUAL.
37	35 KV PIN TYPE INSULATOR WITH PIN.
38	EYE BOLT FORGED STEEL, GALV. SHOULDER TYPE THIMBLE EYE 3/4" DIAM. X LENGTH REQUIRED.

NOTE:

ALL DETAILS THIS SHEET NOT TO SCALE.

(2) REVISED POLE NUMBERS & INDICATED GUY ANGLES. 4/3/67

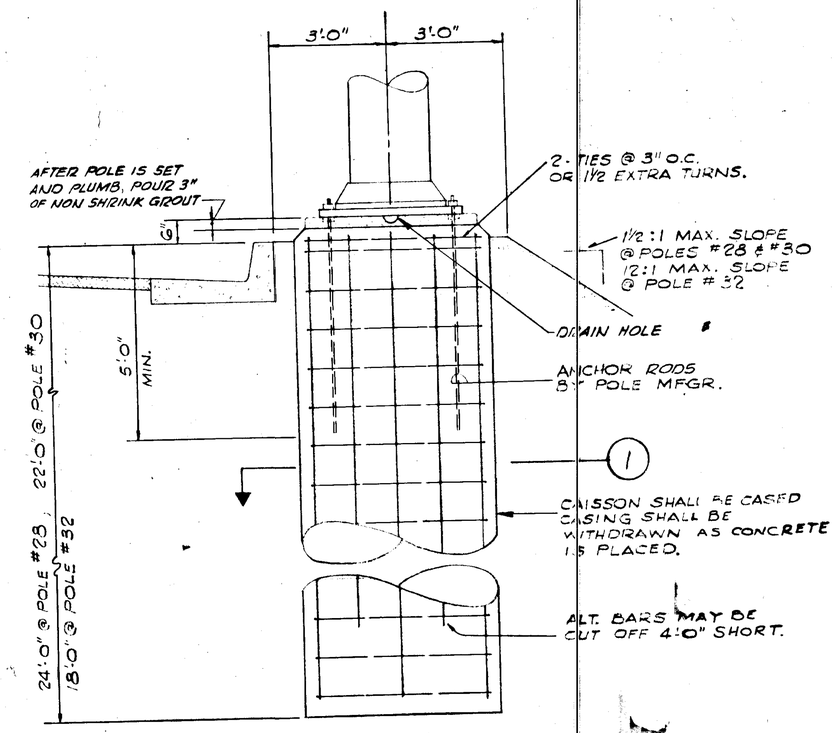
(1) REVISED PER DEPT. OF HIGHWAYS REVIEW 2/1/67

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	50	73

UTILITY PLANS

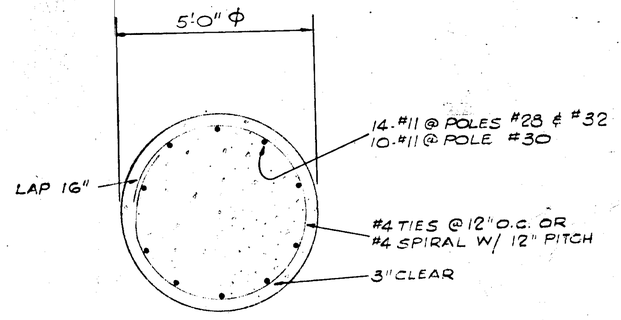
STRUCTURAL NOTES

1. CONCRETE: f'_c = 2500 PSI @ 28 DAYS.
2. GROUT, NON SHRINK: f'_c = 3750 PSI @ 28 DAYS
3. REINFORCING STEEL: ASTM A15, INTERMEDIATE GRADE.



ELEVATION

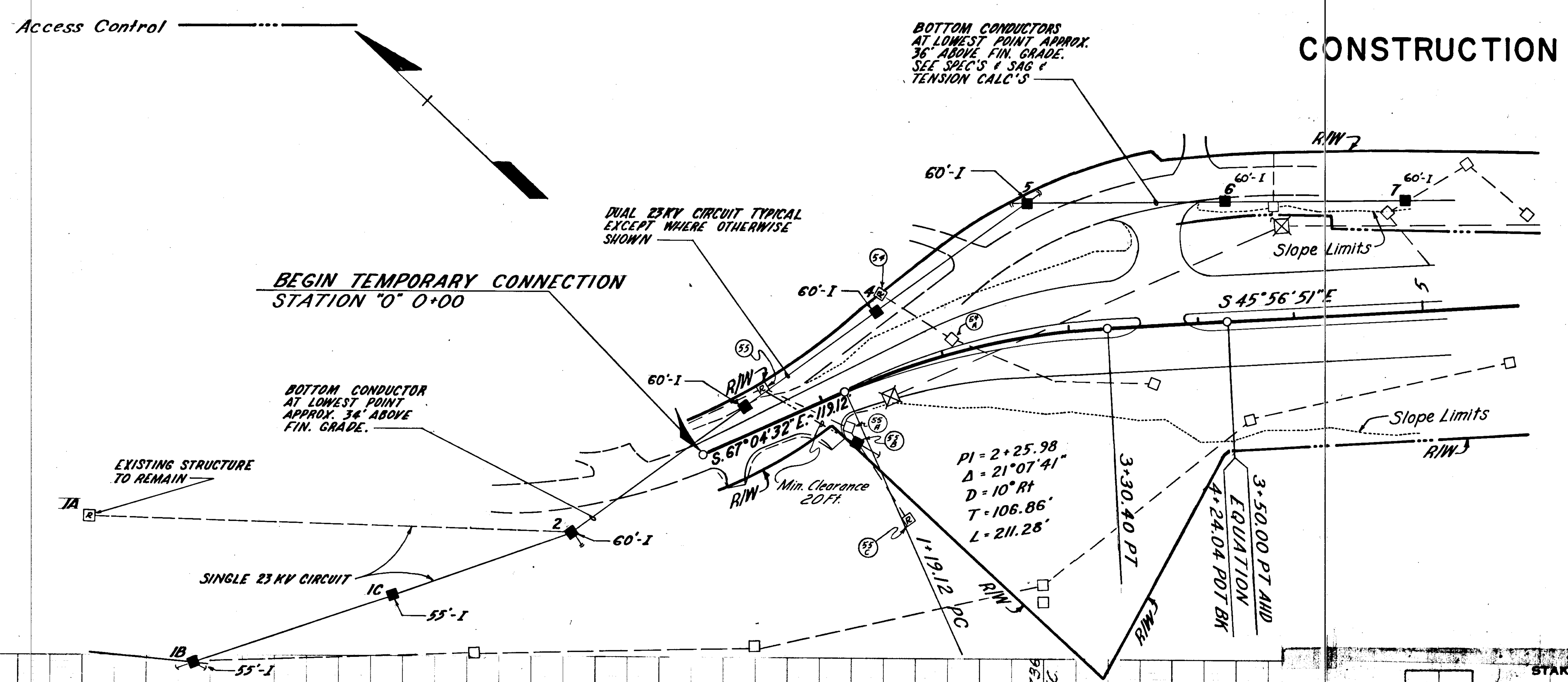
Type 8



PLAN SECTION 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	51	73

CONSTRUCTION UTILITY PLANS

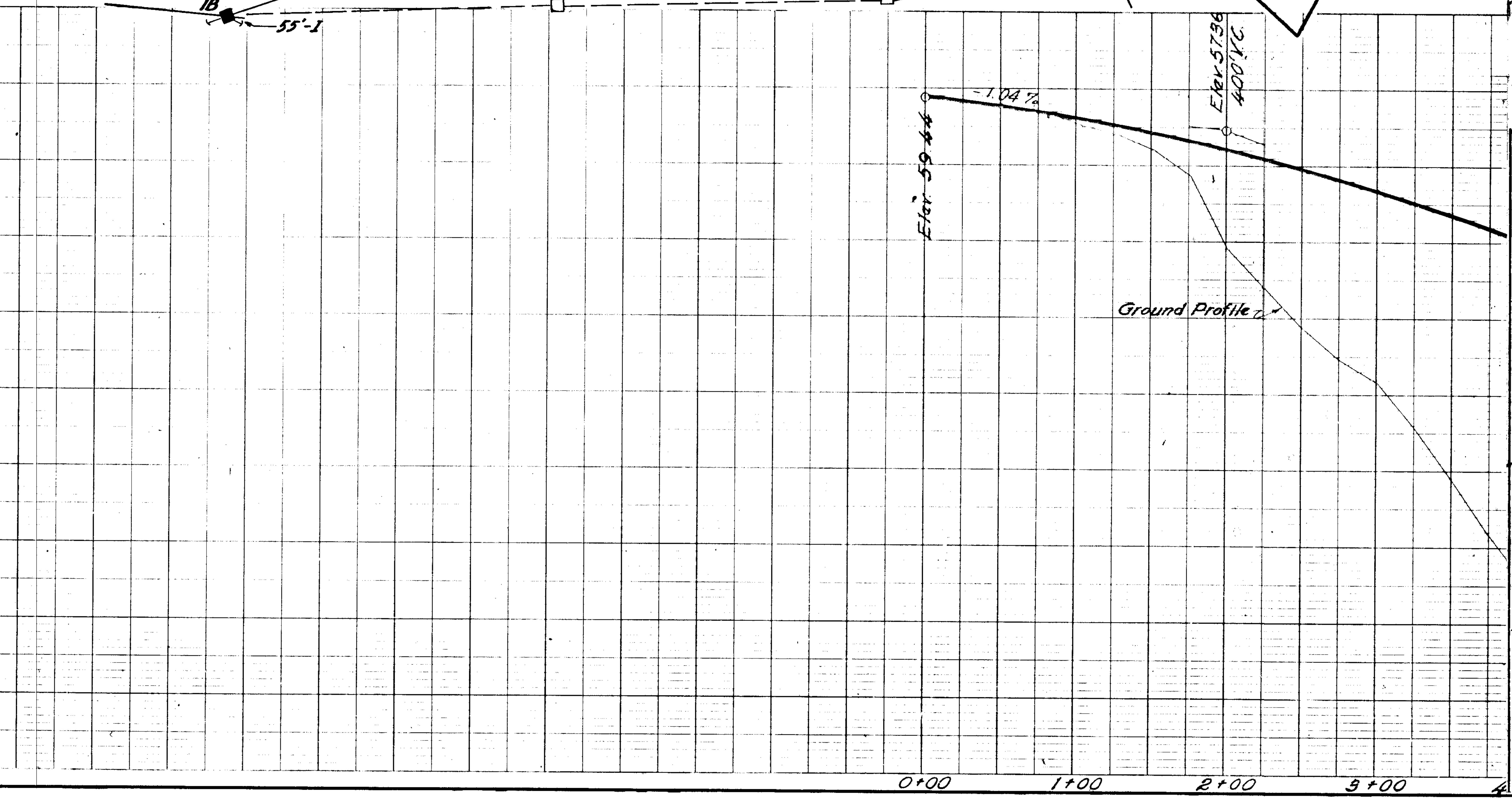


Stationing of Pole #3 (Relative to the Outer Drive centerline) is 21.7 feet to the left at station 00+47, and the bearings and distances between poles are as follows:

Pole to Pole	Distances	Bearings	Pole to Pole	Distances	Bearings
1A — 2	373.0'	S. 41°45'E	16 — 17	161.16'	S 24°38'E
1B — 1C	155.0'	S. 63°21'E	17 — 17A	161.16'	S 24°38'E
1C — 2	155.5'	S 63°21'E	17A — 18	161.16'	S 24°38'E
2 — 3	168.0'	S 78°45'E	18 — 19	166.03'	S 02°43'E
3 — 4	126.0'	S 78°45'E	19 — 20	134.0'	S 49°15'E
4 — 5	143.5	S 78°45'E	20 — 21	134.0'	S 49°15'E
5 — 6	153.5'	S 44°15'E	21 — 22	143.0'	S 49°15'E
6 — 7	139.0'	S 44°15'E	22 — 23	137.0'	S 49°15'E
7 — 8	144.0'	S 43°25'E	23 — 24	153.3'	S 34°31'E
8 — 9	137.0'	S 42°25'E	24 — 25	153.4'	S 34°31'E
9 — 10	139.5'	S 41°00'E	25 — 26	142.6'	S 35°34'E
10 — 11	159.5'	S 46°15'E	26 — 27	120.0'	S 35°34'E
11 — 12	178.0'	S 46°15'E	27 — 28	120.0'	S 35°34'E
12 — 13	173.5'	S 46°15'E	28 — 29	120.0'	S 35°34'E
13 — 14	169.5'	S. 46°15'E	29 — 30	120.0'	S 35°34'E
14 — 15	169.5'	S 46°15'E	30 — 31	122.4'	S 35°34'E
15 — 16	157.0'	S 25°55'E	31 — 32	104.9'	S 33°35'E

SYMBOLS

- ■ Proposed
- □ Existing
- (55) Pole Number
- ■———■ A.J. Industries
- ■—·—■ A.E.L. & P.
- ■-----■ J.D. Telephone Co.
- [R] Existing Pole to Remain



STAKING SHEET — SYSTEM DESIGNATION: ALASKA ELECTRIC LIGHT & POWER

LOCATION: JUNEAU OUTER DRIVE
TWP. ____ RANGE ____ SECTION ____
MAP REFERENCE: AD of H F-095-8(13)
PRI. WIRES: 2 SIZE: #6 KIND: HD Cu RULING SPAN: 200

NO. OF REMBERS ____
PRIMARY LINE (FEET) ____
SECONDARY (FEET) ____
SERVICE DROPS (FEET) ____

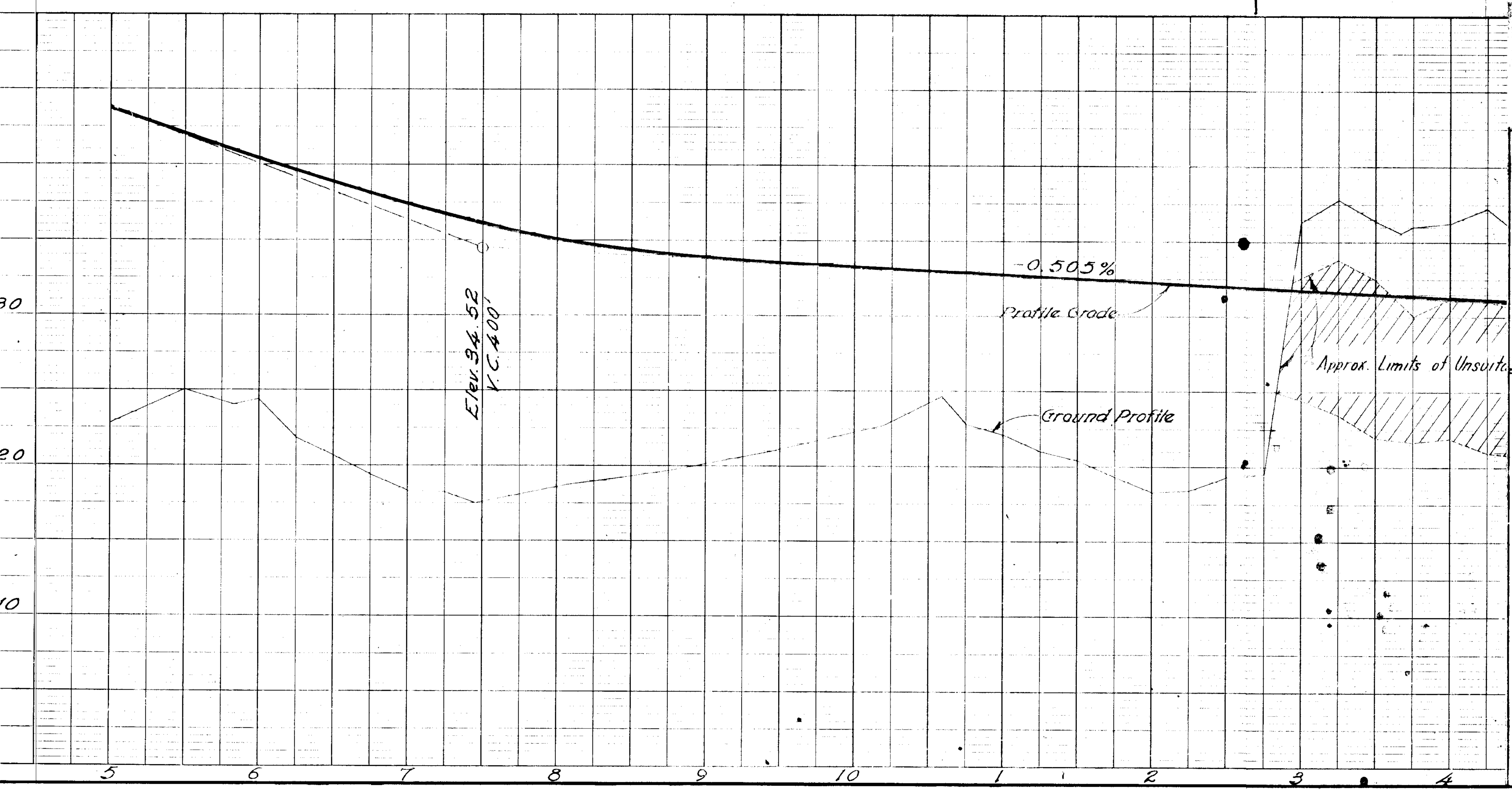
Sketch of Work	Contr. or Wo No	Primary: Pole No	Line Angle	Span Back	Wire Size	Poles H & C	Pri. Unit	R/W Clear	Trans "G"	Ground	Guy: Unit "E"	Lead	Anchor Unit "F"	Secondary: Unit "J or K"	Span: Under Build	Sec. Only	No. Wires & Size	Service: Unit "K"	Span	No. Wires & Size	Meter: Loop	Meter Size	Name and Remarks
Construction	EXIST	55				PRIMARY POLE — NO CHANGE																	
	ADD	55-B				35/2					E1-3	20	F1-4	K13		95	#2 AL TPX	TRANSFER EXISTING 3 #6WP RUNNING TO POLE 55-C FROM 55-A TO 55-B					
Retirement	*	54A				30								K13		60	3 #6 WP						
	*	55A				25								K13		80	3 #6 WP						

NUMBER POLES ON SKETCH AT TAPS, CORNERS, TRANSFORMERS AND DEADENDS. INDICATE RETIRED UNITS WITH *. REPLACED UNITS ⬭ RESET METERS AND TRANSFORMERS □

STAKED 7/25/67 BY DB-NM-AH
CHECKED BY
RELEASED FOR CONST ____
LINE ____ LEAD ____
SHEET NO. 1 OF 6

CONSTRUCTION UTILITY PLANS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	52	73



STAKING SHEET SYSTEM DESIGNATION AEL&P

LOCATION JUNEAU OUTER DRIVE
TWP. ____ RANGE ____ SECTION ____
MAP REFERENCE F-095-8(13)
PRI WIRES 3 SIZE #4/0 KIND AL-WP RULING SPAN 200

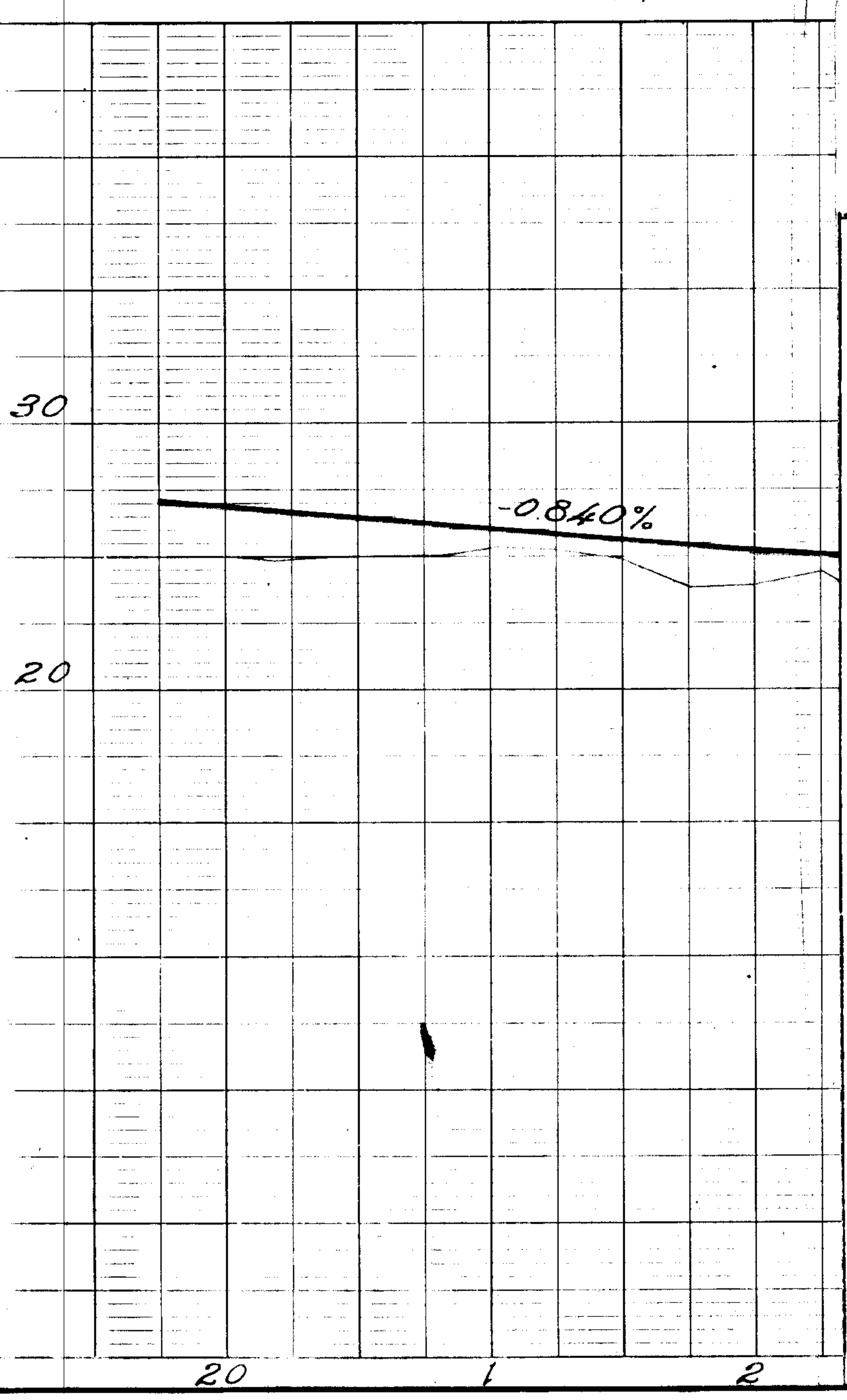
No. OF MEMBERS ____
PRIMARY LINE (FEET) ____
SECONDARY (FEET) ____
SERVICE DROPS (FEET) ____

SKETCH OF WORK	CONTR OR WO No	PRIMARY: POLE NO	LINE ANGLE	SPAN BACK	WIRE SIZE	POLES H&C	PRI. UNIT	R.W. CLEAR	TRANS	GROUND	GUY: UNIT	LEAD	ANCHOR UNIT	SECONDARY: UNIT	SPAN: UNDER BUILD	SPAN: SEC ONLY	NO. WIRES & SIZE	SERVICE: UNIT	SPAN	NO. WIRES & SIZE	METER: LOOP	METER SIZE	NAME AND REMARKS
CONSTRUCTION		13		60	2 #4/0 AL-WP	AJ	B-7N C-7N				E1-3	20	F1-4	J14									TAP LT. TO ROSS AV M26 2/M5-9
		14		170	3 #4/0 AL-WP	AJ	C9-1N							J10	170		#2 AL TPX						M 26 ST. LT. CKT.
		15		170	3 #4/0 AL-WP	AJ	C-8N		G-1 50 KVA	M2-12				2/J12 J14 2/J30	170		#2 AL TPX						TRANSFER ST.LT. RLY M 26 TRANSFER CONDUCTORS BETWEEN POLES C & D TO #15
		15 SP				60/1					E1-3	25	F1-4	J14		160	#1/0 AL-TPX	EXIST	65	#1/0 AL-TPX			CONNECT TO EXIST METER LOOP
RETIREMENT		A		50	2 #1/0 CU	40	B 7N C 7N				2/E1			K 12			2#6 WP						M 26'
		B		130	3 #1/0 CU	40	C9-1N		G 1					3/K13	130		2 #6 WP						M 26
		C		160	3 #1/0 CU	40	C9-1N		G-3		E2			3/J10 K13 K12	160		2#6 WP		50	#1/0 AL-TPX			ST. LT. RLY MOP. FIRE ALARM STATION
		CA				35								J14					70	#1/0 AL-TPX			
		CB				30								J14					140	#1/0 AL-TPX			TO METER LOOP
		D				40												K13	100	#2 TPX			
		DA				40																	

STAKED 7/25/67 BY OB-HM-AH
CHECKED 10/10/7 BY OB-AH
RELEASED FOR CONST ____
LINE ____ LEAD ____
SHEET NO 2 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	53	73

CONSTRUCTION UTILITY PLANS



STAKING SHEET SYSTEM DESIGNATION AEL&P

LOCATION Juneau Outer Drive

TWP. ____ RANGE ____ SECTION ____

MAP REFERENCE F-095-8(13)

PRI WIRES 3 SIZE #4/0 KIND AL-WP RULING SPAN 200

No. OF MEMBERS ____ PRIMARY LINE (FEET) ____ SECONDARY* (FEET) ____ SERVICE DROPS (FEET) ____

SKETCH OF WORK	CONTR. OR W.O. No	PRIMARY: POLE No	LINE ANGLE	SPAN BACK	WIRE SIZE	POLES H&C	PRI UNIT	R.W. CLEAR	TRANS G	GROUND	GUY: UNIT E	LEAD	ANCHOR UNIT F	SECONDARY: UNIT J OR K	SPAN: UNDER BUILD	SEC ONLY	NO. WIRES & SIZE	SERVICE: UNIT	SPAN	NO. WIRES & SIZE	METER: LOOP	METER SIZE	NAME AND REMARKS
CONSTRUTION		19				AJ	C-7N		G-1 15 KVA	M2-12	E1-3	30	F1-4					J14	110	#1/0 AL-WP			To FLOAT
		20		134	3#4/0 AL-WP	AJ	C9-1N																
		21		134	3#4/0 AL-WP	AJ	C9-1N																
		22		143	3#4/0 AL-WP	AJ	C9-1N																
		23	14°45' R	137	3#4/0 AL-WP	AJ	C-8N C-7N				E2-2	120											
		23 GS				AJ					E1-3	30	F1-4										
		23-R1	TRANSFER EXIST		3#6 cu.	AELEP EXIST	C-9N		EXIST		E1-3	20	F1-4						EXIST				
		24		153	3#4/0 AL-WP	AJ	C9-1N																
		25	1°R	153	3#4/0 AL-WP	AJ	C9-1N																

NUMBER POLES ON SKETCH AT TAPS, CORNERS, TRANSFORMERS AND DEADENDS. INDICATE RETIRED UNITS WITH*. REPLACED UNITS ▭ RESET METERS AND TRANSFORMERS ▭

STAKED 7/25/7 BY DB-HM-AH
CHECKED 10/10/7 BY DB-AH
RELEASED FOR CONST ____
LINE ____ LEAD ____
SHEET NO 3 OF 6

STAKING SHEET SYSTEM DESIGNATION AEL&P

LOCATION Juneau Outer Drive

TWP. ____ RANGE ____ SECTION ____

MAP REFERENCE F-095-8(13)

PRI WIRES ____ SIZE ____ KIND ____ RULING SPAN ____

No. OF MEMBERS ____ PRIMARY LINE (FEET) ____ SECONDARY* (FEET) ____ SERVICE DROPS (FEET) ____

SKETCH OF WORK	CONTR. OR W.O. No	PRIMARY: POLE No	LINE ANGLE	SPAN BACK	WIRE SIZE	POLES H&C	PRI UNIT	R.W. CLEAR	TRANS G	GROUND	GUY: UNIT E	LEAD	ANCHOR UNIT F	SECONDARY: UNIT J OR K	SPAN: UNDER BUILD	SEC ONLY	NO. WIRES & SIZE	SERVICE: UNIT	SPAN	NO. WIRES & SIZE	METER: LOOP	METER SIZE	NAME AND REMARKS
RETIREMENT		F				AJ	B-7N				E1							K13	475	#2 AL-TPX			SERVICE TO FL FROM GLACIER H
		FA				30					E1							K13	75	#2 AL-TPX			MOP
		G		220	2#6 Cu	AJ	B9-1N																
		H		220	2#6 Cu	AJ	B9-1N				E1												
		I		280	2#6 Cu	30	C8N C7N				E1			2/311									M26
		J		105	3#6 Cu	30	C-1N																
		23-R1					C9-1N																
		K		100	3#6 Cu	30	C9-1N							K13	100		2#6 Cu						
		L		170	3#6 Cu	30	C9-1N							K13	170		2#6 Cu						M26

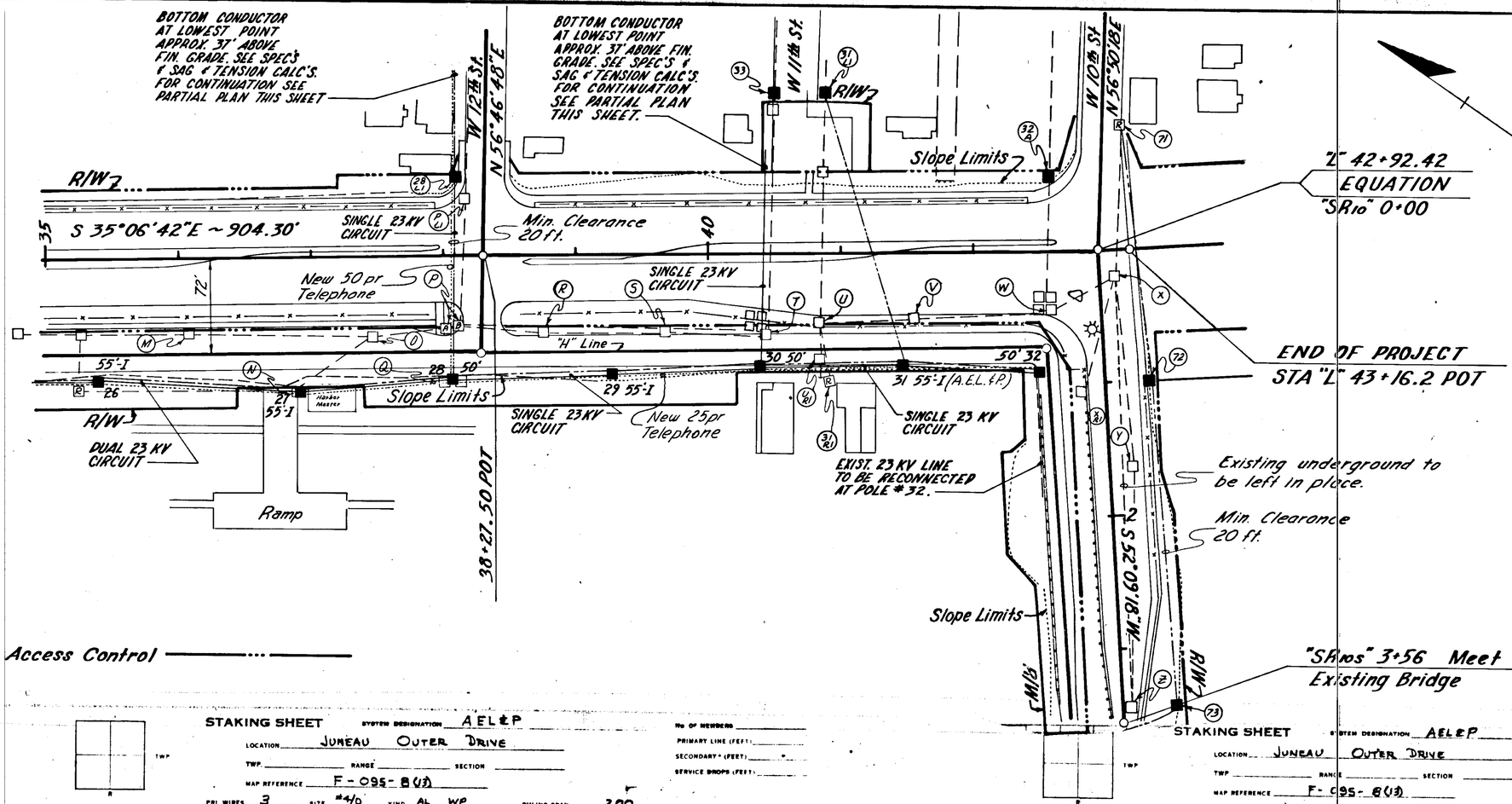
Stubco C 171

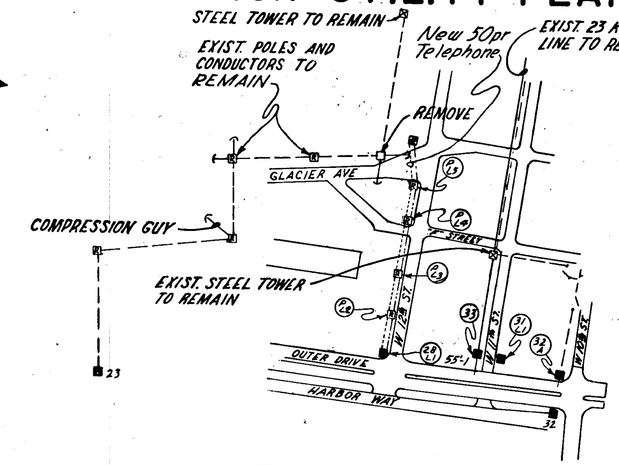
NUMBER POLES ON SKETCH AT TAPS, CORNERS, TRANSFORMERS AND DEADENDS. INDICATE RETIRED UNITS WITH*. REPLACED UNITS ▭ RESET METERS AND TRANSFORMERS ▭

STAKED 7/25/7 BY DB-HM-
CHECKED 10/10/7 BY DB-AH
RELEASED FOR CONST ____
LINE ____ LEAD ____
SHEET NO 4 OF 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(13)	1967	54	73

CONSTRUCTION UTILITY PLANS





PARTIAL PLAN

STAKING SHEET

SYSTEM DESIGNATION A E L & P

LOCATION JUNEAU OUTER DRIVE

TWP ____ RANGE ____ SECTION ____

MAP REFERENCE F-095-8(13)

PRI WIRES 3 SIZE #4/0 KIND AL WP RULING SPAN 200

No OF MEMBERS ____ PRIMARY LINE (FEET) ____ SECONDARY (FEET) ____ SERVICE DROPS (FEET) ____

SKETCH OF WORK: CONSTRUCTION

CONTR OR W. NO.	POLE NO.	LINE ANGLE	SPAN BACK	PRIMARY WIRE SIZE	PRIMARY POLES H.B.C.	PRI. UNIT	R/W CLEAR	TRANS G	GROUND	GUY UNIT E	GUY LEAD	ANCHOR UNIT F	SECONDARY UNIT JOHN	SECONDARY SPAN UNDER BUILT	SECONDARY SPAN SEC. ONLY	SECONDARY NO. WIRES & SIZE	SERVICE UNIT N	SERVICE SPAN	SERVICE NO. WIRES & SIZE	METER LOOP	METER METER SIZE	NAME AND REMARKS
	26		143	3#4/0 AL-WP	AJ	C9-1N																
	27		150	"	AJ	C9-1N		G1-50 KVA	M2-12								K14	25	#1/0 AL-TPX			SERVICE DROP TO EXIST SERVICE
	28		120	"	AJ	C8-2N C7-1N																
	28-L1		150	3 2/0 CU	60/1	C8-N							J10	150	#1/0 AL-TPX	K11	TRANSFER EXIST SERVICES					
	P-L2			#2/0 CU	EXIST.																	CONNECT EXIST. TO 28 L1
	29		120	2#4/0 AL-WP	AJ	B9-1N																
	30		120	"	AJ	B9-1N																
	31	20°R	122	"	AELEP 55/1	B9-1N							K13									
	31-L1				40/1	B9-1N			E1-3	25	F1-4	J10		210	#1/0 AL-TPX	K13	#2 TPX TRANSFER 2 SERVICES					M 26
	31-R1				EXIST.							K13		50	"	EXISTING - TRANSFER SERVICES						
	32A		150		AJ 50/1																	
	32		105	"	AJ	B9-3N																
	33		200		AJ 55/1 RELEP																	
	71				EXIST.	2/C 7N B7-NX						JC-7N										
	72		190	3#4/0 AL-WP	45/1	C-1N						J10					J10	40	#1 AL-TPX			TO EXIST METER LOOP
	73		250	"	60/1	C-7N		G1-50 KVA	M2-12	E1-3	30	F1-4	J10	250	#1/0 AL-TPX			60	#1/0 AL-TPX			TO EXIST TRAILER COURT SERVICE POLE
			TRANSFER		(1) BRIDGE From		LTG CKT Pole # X		RELAY	(2) D/C		SWITCH	(3) METER		LOOP			100	3#1/0 CU-UG			INSTALL IN NEW CONDUIT FROM POLE TO JT BOX ON BRIDGE

STAKED 7/28/67 BY OB, HM, AH

CHECKED 10/10/67 BY OB, AH

RELEASED FOR CONST. ____

LINE ____ LEAD ____

SHEET NO. 5 OF 6

NUMBER POLES ON SKETCH AT TAPS, CORNERS, TRANSFORMERS AND DEADENDS. INDICATE RETIRED UNITS WITH# REPLACED UNITS ( ) RENT METERS AND TRANSPONDERS [ ]

STAKING SHEET

SYSTEM DESIGNATION AELEP

LOCATION JUNEAU OUTER DRIVE

TWP ____ RANGE ____ SECTION ____

MAP REFERENCE F-095-8(13)

PRI WIRES ____ SIZE ____ KIND ____ RULING SPAN ____

SECONDARY (FEET) ____ SERVICE DROPS (FEET) ____

SKETCH OF WORK: RETIREMENT

CONTR OR W. NO.	POLE NO.	LINE ANGLE	SPAN BACK	PRIMARY WIRE SIZE	PRIMARY POLES H.B.C.	PRI. UNIT	R/W CLEAR	TRANS G	GROUND	GUY UNIT E	GUY LEAD	ANCHOR UNIT F	SECONDARY UNIT JOHN	SECONDARY SPAN UNDER BUILT	SECONDARY SPAN SEC. ONLY	SECONDARY NO. WIRES & SIZE	SERVICE UNIT N	SERVICE SPAN	SERVICE NO. WIRES & SIZE	METER LOOP	METER METER SIZE	NAME AND REMARKS
	M		140	3#6 CU	30	C9-1N		G1					3/K13	140		2#6 CU						
	N				30								K13		75	3#6 BP						
	O		140	"	30	C9-1N																
	P_A		50	"	AJ	C7N C-8N																
	P_B		50	3#1/0 CU	40	C-7N C9-1N				E2			JC-7N	50		4#1/0 CU						M 26
	P_{L1}		100	"	40	C9-1N																
	Q		50	"	#190 40	C-7N		G-3P		E2 3E1												ST. LT. RLY, DE SW, METER LOOP
	R				30								K13 K13		90 90	3#6 3#6						
	S				30								K13 2/K14		100 100	3#6 2#6	5/K10					
	T				AJ	C7N		G1					K13		80 80	3#6 2#6	4/K10					M 26
	U				30	C9-1N							K13		60	3#6 CU						
	U_{R1}				30					E1			K13		50	3#6 WP						
	U_{L1}				35								K13		120	3#2 CU	K13 2/K10	50 30	3/4 TPX			
	V				30	C9-1N							K13		100	3#6 CU						M 26
	W				AJ	C-7N		G1									K11	60	#4 TPX			
	X		120	3#1/0 2#6	45	C7N B7N		G1					JC7N	120		3#2 CU						UG FOR BRIDGE LTS. ST. LT. RLY, DE SW, M. LOOP
	X-R1				30												K13	80	2#6 CU			M 26
	Y				30								K13		140	#2 TPX	K11	40	#2 TPX			
	Z				30																	

STAKED 7/28/67 BY OB-HM-AH

CHECKED 10/10/67 BY OB-AH

RELEASED FOR CONST. ____

LINE ____ LEAD ____

SHEET NO. 6 OF 6

NUMBER POLES ON SKETCH AT TAPS, CORNERS, TRANSFORMERS AND DEADENDS. INDICATE RETIRED UNITS WITH# REPLACED UNITS ( ) RENT METERS AND TRANSPONDERS [ ]