

HORIZONTAL CONTROL:

THE BASIS OF HORIZONTAL CONTROL IS THE TRUE BEARING OF $S 80^{\circ}53'43'' W$ FROM 95-J-4 TO FCF-1. 95-J-4 IS A 3.25" BRASS CAP GROUDED INTO THE TOP OF THE VERTICAL CONCRETE WALL AT THE RAMP GOING DOWN TO THE GREEN'S CREEK DOCK. FCF-1 IS ALSO A 3.25" BRASS CAP GROUDED INTO THE SIDEWALK AT THE FERRY TERMINAL ABOUT 230' WEST OF THE "EAST TRANSFER BRIDGE". CONTROL ON BOTH POINTS WAS ESTABLISHED BY SIMULTANEOUS GPS STATIC OBSERVATIONS FROM USC&GS TRI. STATION "EDDIE" AND NOAA TIDAL BENCHMARK "2210 A TIDAL" (SEE FRITZ TO FERRY JOB PHASE II, BOOK 1 OF 2 FOR GPS CONTROL TRAVERSE). THEY WERE ALSO TIED TO THE EXISTING LOCAL COORDINATE SYSTEM "INDIAN POINT TO POINT LOUISA" AND "AUKE FERRY EXPANSION". TRANSFORMATION PARAMETERS TO GO FROM LOCAL SYSTEM TO AKSPC ZONE 1 NAD83 FEET ARE AS FOLLOWS: SF=0.999925207 GAMMA = $-0^{\circ}53'22''$ @ 95-J-4.

TRANSLATION AT 95-J-4:

	NORTH	EAST
AKSPC	2393252.8880'	2491192.5290'
LOCAL	40905.7342'	83995.8747'

VERTICAL CONTROL:

THE BASIS OF VERTICAL CONTROL IS BM AUKE BAY NO. 1 1917 WITH A PUBLISHED ELEVATION OF 20.15' ABOVE MLLW. THIS ELEVATION IS FROM AN OUTDATED TIDAL EPOCH (1960-1978) AND WILL BE ADJUSTED AS SOON AS A NEWER TIDAL EPOCH IS PUBLISHED. THE PROJECT SPECIFIC BASIS OF VERTICAL CONTROL IS 95-J-4 WITH AN ACCEPTED ELEVATION OF 39.74' ABOVE MLLW. THIS ELEVATION WAS ESTABLISHED USING DIFFERENTIAL LEVELS FROM THE AUKE BAY BM'S.

THIS PROJECT DATUM USES THE ABOVE ELEVATIONS. CURRENT PUBLICATION OF GASTINEAU CHANNEL TIDAL DATUM (NOVEMBER 1999) PUTS 95-J-4 AT 41.41' ABOVE MLLW. A DIFFERENCE OF 1.67'.

BASIS OF BEARING					
MONUMENT No.	STATION	OFFSET		COORDINATES	
		LT	RT	NORTHING	EASTING
GPS_95-J-4	228+28.92 P.O.T.	67.49'	0.00'	40905.734	83995.875
FCF-1	238+09.69 P.O.T.	227.68'	0.00'	40754.525	83052.342

ALIGNMENT DATA			
Tangent Data			
Start:	PT 227+79.05	40969.743N	84050.143 E
Length:	483.67'	Course:	N 86-10-24 W
Circular Curve Data			
PC:	232+62.72	41002.022 N	83567.547 E
Delta:	11-28-31	Type:	LEFT
Radius:	2549.06		
Length:	510.53	Tangent:	256.12
Chord:	509.58		
PT:	237+73.25	40985.026 N	83058.155 E
Tangent Data			
Length:	163.37'	Course:	S 82-21-05 W
Circular Curve Data			
PC:	239+36.62	40963.282 N	82896.238 E
Delta:	09-08-16	Type:	RIGHT
Radius:	1919.48		
Length:	306.13	Tangent:	153.39
Chord:	305.84		
END:	PT 242+42.79	40946.850N	82590.837E

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION
	JUNEAU FERRY TERMINAL SIGHT DISTANCE IMPROVEMENTS PROJECT #68975
SURVEY CONTROL	
DESIGNED BY: D.WILLIAMS DRAWN BY: L.ROBERTSON	PROJECT DESIGNATION: 68975 YEAR: 2006 SHEET NO.: A2 TOTAL SHEETS: 6
PATH: Q:\JUNU68975\PLANSET\68975-A1_TITLE.DWG TAB: A2 Friday, July 29, 2006 11:27:44 AM LROBERTSON	
REVISIONS NO. DATE DESCRIPTION	

JSK 1/9/08

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	QUANTITY	UNIT
202(2)	REMOVAL OF PAVEMENT	212.40 278	SQUARE YARD
301(1)	AGGREGATE BASE COURSE, GRADING D1	10.35 115	TON
401(1)	ASPHALT CONCRETE, TYPE II, CLASS "A"	51.91 29	TON
401(2)	ASPHALT CEMENT, GRADE PG 58-28	1.71 2	TON
606(1)	EXTRUDER TERMINAL (ET-2000)	2	EACH
609(1)	CURB, TYPE I	346 515	LINEAR FOOT
615(1)	STANDARD SIGN	ALL REQUIRED	LUMP SUM
615(2)	REMOVE AND RELOCATE EXISTING SIGN	3	EACH
640(1)	MOBILIZATION AND DEMOBILIZATION	ALL REQUIRED	LUMP SUM
642(1)	CONSTRUCTION SURVEYING	ALL REQUIRED	LUMP SUM
670(1)	PAINTED TRAFFIC MARKINGS	ALL REQUIRED	LUMP SUM
670(9)	REMOVAL OF PAVEMENT MARKINGS	ALL REQUIRED	LUMP SUM

BASIS OF ESTIMATE

ITEM NO.	ITEM	QUANTITY
301(1)	CRUSHED AGGREGATE BASE COURSE, GRADING D1	1.96 TON/CUBIC YARD
401(1)	ASPHALT CONCRETE, TYPE II, CLASS "A" "B"	115.0 LBS/SQ. YD./IN DEPTH
401(2)	ASPHALT CEMENT, GRADE PG 58-28	6.0% OF ITEM 401(1)
402(2)	STE-1 ASPHALT FOR TACK COAT	0.20 GAL/ SQ.YD./256 GAL./ TON

TERMINAL END REMOVAL SUMMARY

BEGIN STATION	OFFSET LT	END STATION	OFFSET LT	REMARKS
234+73	32'	235+11	36'	
235+81	36'	236+19	32'	

EXTRUDER TERMINAL (ET-2000) INSTALLATION SUMMARY

BEGIN STATION	OFFSET LT	END STATION	OFFSET LT	REMARKS
234+73	32'	235+11	36'	
235+81	36'	236+19	32'	

CURB REMOVAL

BEGIN STATION	OFFSET LT	END STATION	OFFSET LT	LINEAR (FT)	CURB TYPE
235+82	36'	235+93	48'	18	TYPE 1
236+06	52'	236+09	52'	4	TYPE 1
236+09	52'	236+09	44'	8	TYPE 1
TOTAL=					30


CURB INSTALLATION

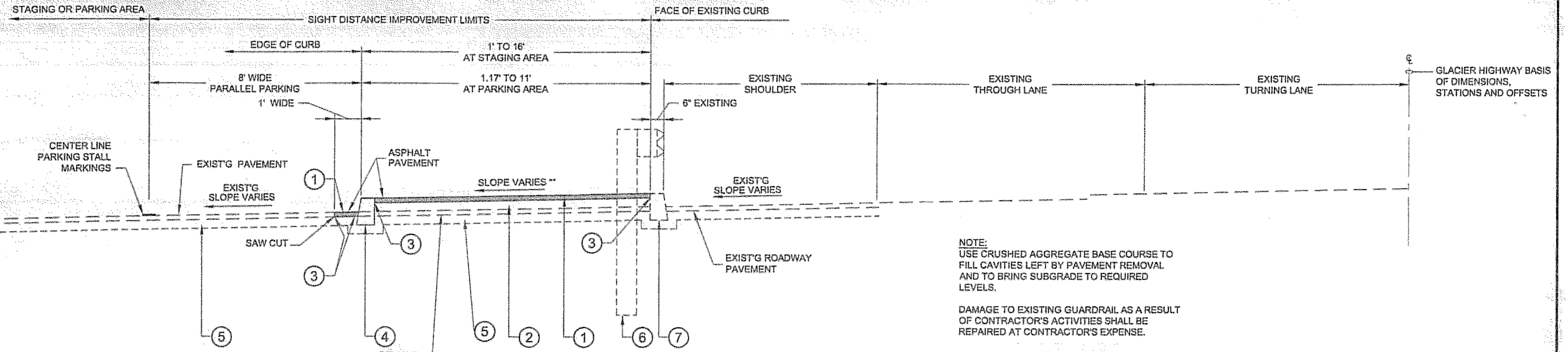
BEGIN STATION	OFFSET LT	END STATION	OFFSET LT	LINEAR (FT)	CURB TYPE
233+59	33'	233+59	34'	1.5	TYPE 1
233+59	34'	234+88	46'	127	TYPE 1
236+09	44'	237+64	34'	153	TYPE 1
237+64	34'	237+64	33'	1.5	TYPE 1
TOTAL=					283

CURB REPLACEMENT

BEGIN STATION	OFFSET LT	END STATION	OFFSET LT	LINEAR (FT)	CURB TYPE
235+82	36'	235+93	48'	18	TYPE 1
236+06	52'	236+09	52'	4	TYPE 1
236+09	52'	236+09	44'	8	TYPE 1
TOTAL=					30

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION																		
	JUNEAU FERRY TERMINAL SIGHT DISTANCE IMPROVEMENTS PROJECT #68975 ESTIMATE OF QUANTITIES																		
CHECKED BY: P. CARROLL DESIGNED BY: D. WILLIAMS DRAWN BY: L. ROBERTSON	PATH: Q:\JUNEAU\68975\PLANSET\68975-C1_EST_OF_QUANT.DWG TAB: C1 Friday, July 29, 2006 11:27:44 AM LROBERTSON																		
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> <th rowspan="2">PROJECT DESIGNATION</th> <th rowspan="2">YEAR</th> <th rowspan="2">SHEET NO.</th> <th rowspan="2">TOTAL SHEETS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td>68975</td> <td>2006</td> <td>C1</td> <td>6</td> </tr> </tbody> </table>	REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE	DESCRIPTION				68975	2006	C1	6	JSK 1/9/08	
REVISIONS			PROJECT DESIGNATION					YEAR	SHEET NO.	TOTAL SHEETS									
NO.	DATE	DESCRIPTION																	
			68975	2006	C1	6													



NOTE:
 USE CRUSHED AGGREGATE BASE COURSE TO FILL CAVITIES LEFT BY PAVEMENT REMOVAL AND TO BRING SUBGRADE TO REQUIRED LEVELS.

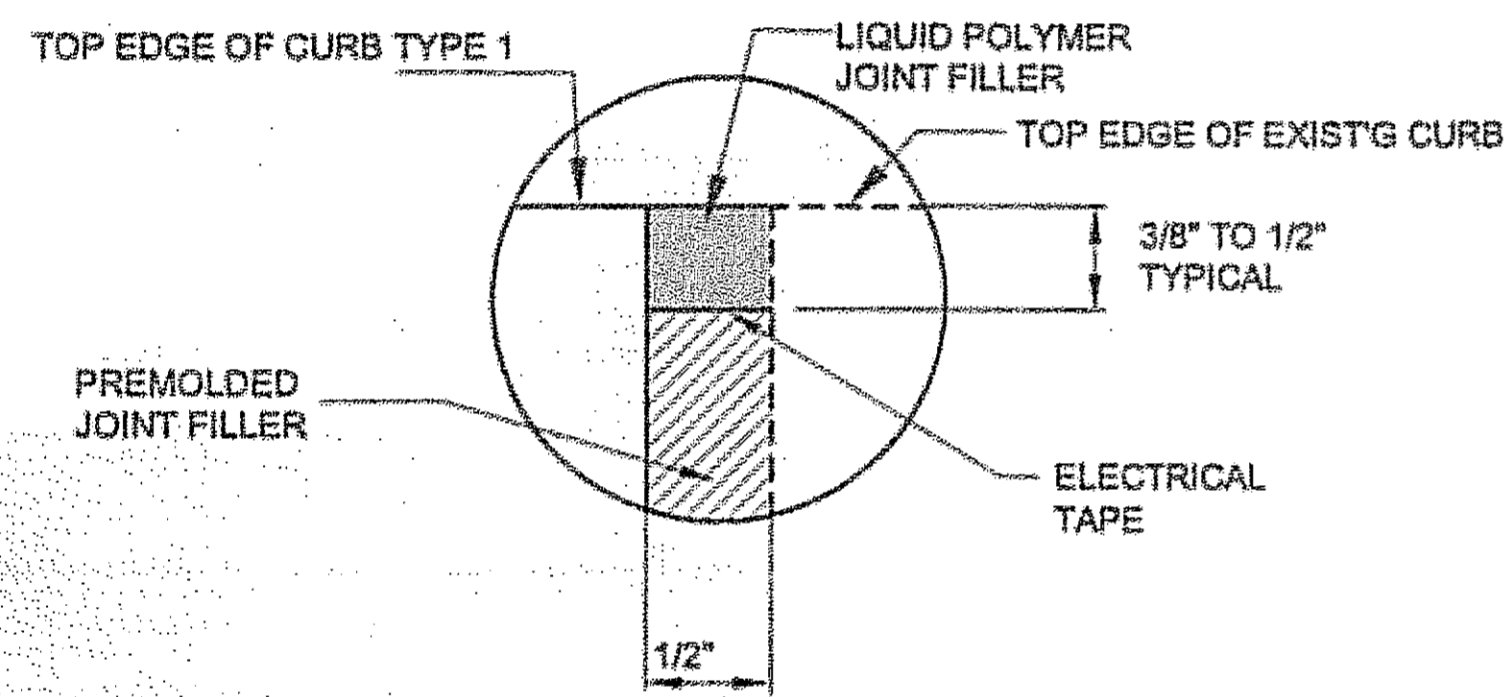
DAMAGE TO EXISTING GUARDRAIL AS A RESULT OF CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

* EXISTING ASPHALT PAVEMENT THICKNESS MAY BE 2" THICK AT PARKING AREA AND EAST STAGING AREA.

** IMPROVEMENT SLOPES TO MATCH THE EXISTING CROSS SLOPE OF STAGING/PARKING IMPROVEMENT AREA.

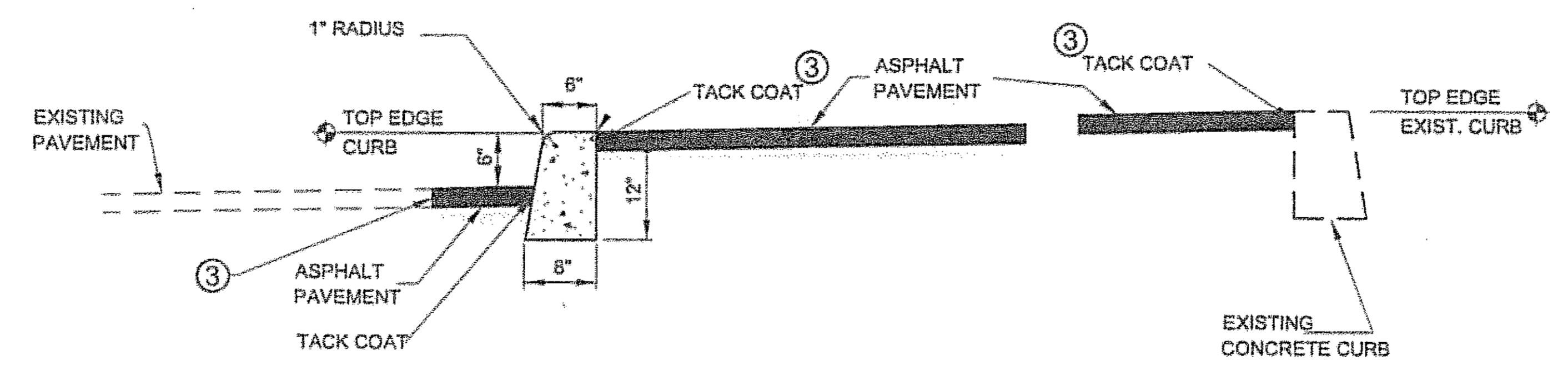
TYPICAL SECTION OF IMPROVEMENTS

- STAGING AREA**
 Station 233+58.28 Left 32.38'
 Station 234+87.66 Left 46.25'
- PARKING AREA**
 Station 236+08.92 Left 44.21'
 Station 237+64.69 Left 32.57'




EXPANSION JOINT
 REFER TO PLANS FOR LOCATION

- LEGEND**
- ① 2" ASPHALT CONCRETE PAVEMENT TYPE II CLASS "A"
 - ② CRUSHED AGGREGATE BASE COURSE, GRADING D-1
 - ③ STE-1 ASPHALT FOR TACK COAT
 - ④ CONCRETE CURB, TYPE 1
 - ⑤ EXISTING CRUSHED AGGREGATE BASE COURSE
 - ⑥ EXISTING STEEL POST GUARDRAIL
 - ⑦ EXISTING CONCRETE CURB, TYPE 1



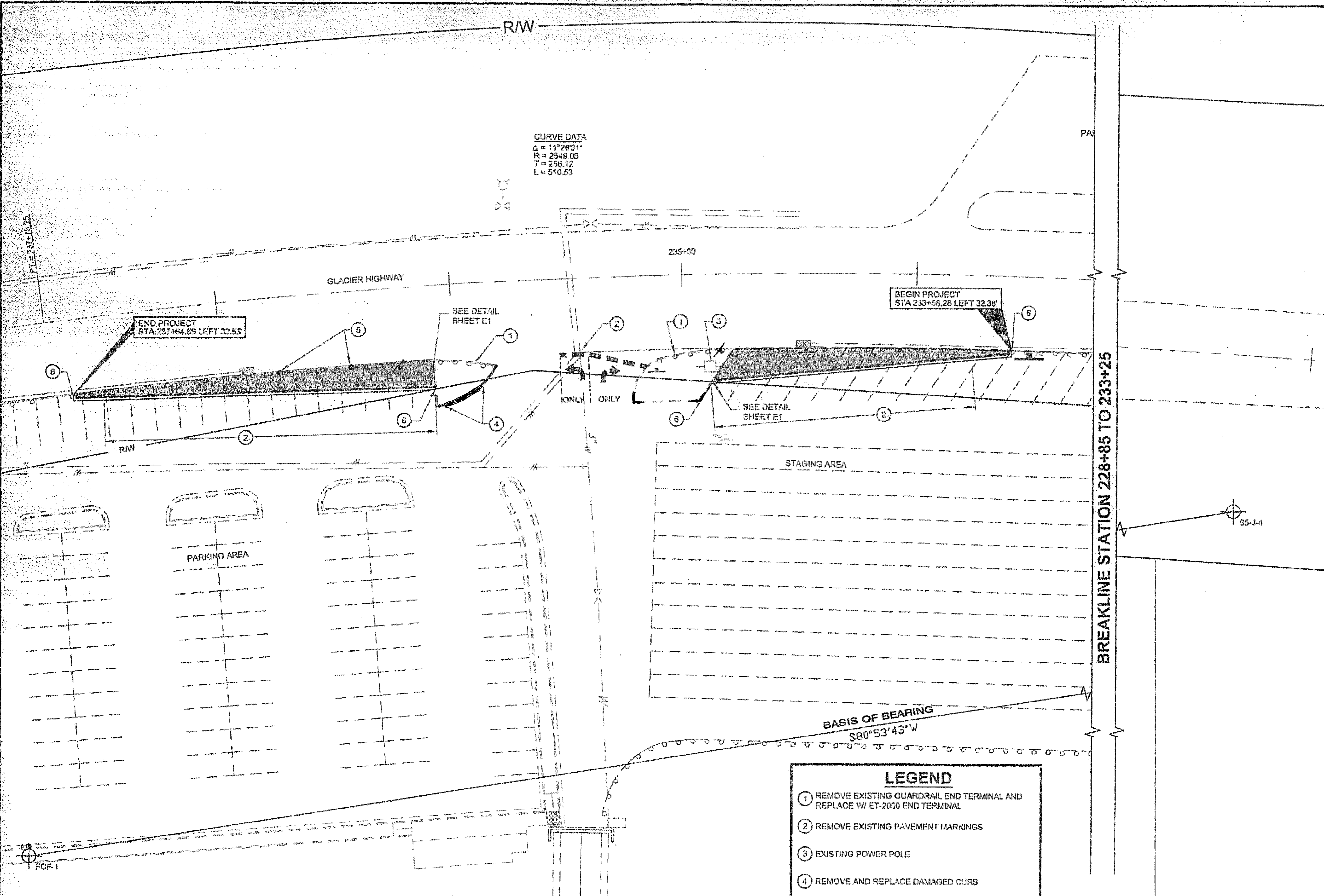
DETAIL CONCRETE CURB TYPE 1
 REFER TO PLANS FOR LOCATION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
DESIGNED BY: D. WILLIAMS DRAWN BY: L. ROBERTSON		JUNEAU FERRY TERMINAL SIGHT DISTANCE IMPROVEMENTS PROJECT #68975 MISC. DETAILS	
PATH: Q:\JUNU68975\PLANSET\68975-E1_DETAILS.DWG TAB: E1 Friday, July 29, 2006 11:27:44 AM		L. ROBERTSON	
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION 68975	YEAR 2006
		SHEET NO. E1	TOTAL SHEETS 6

JSK 1/9/08

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CURVE DATA
 $\Delta = 11^{\circ}28'31''$
 $R = 2549.06$
 $T = 256.12$
 $L = 510.63$

BEGIN PROJECT
 STA 233+58.28 LEFT 32.38'

END PROJECT
 STA 237+64.69 LEFT 32.53'

STAGING AREA

PARKING AREA

BREAKLINE STATION 228+85 TO 233+25

BASIS OF BEARING
 $S80^{\circ}53'43''W$

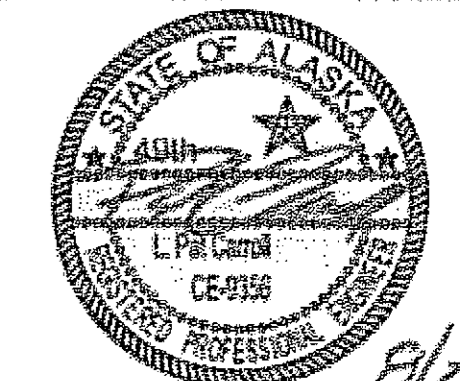
LEGEND

- ① REMOVE EXISTING GUARDRAIL END TERMINAL AND REPLACE W/ ET-2000 END TERMINAL
- ② REMOVE EXISTING PAVEMENT MARKINGS
- ③ EXISTING POWER POLE
- ④ REMOVE AND REPLACE DAMAGED CURB
- ⑤ REMOVE AND REPLACE DAMAGED GUARDRAIL POST
- ⑥ PROVIDE EXPANSION JOINT

PLAN OF SIGHT IMPROVEMENTS
 DIMENSIONS, STATIONS, AND OFFSETS
 ARE TO CENTERLINE OF GLACIER HIGHWAY

PLAN LEGEND

CHECKED BY: P. Carroll



DESIGNED BY: D. WILLIAMS

DRAWN BY: L. ROBERTSON

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION-SOUTHEAST REGION

**JUNEAU
 FERRY TERMINAL
 IMPROVEMENTS
 PROJECT #68975
 PLAN OF
 IMPROVEMENTS**

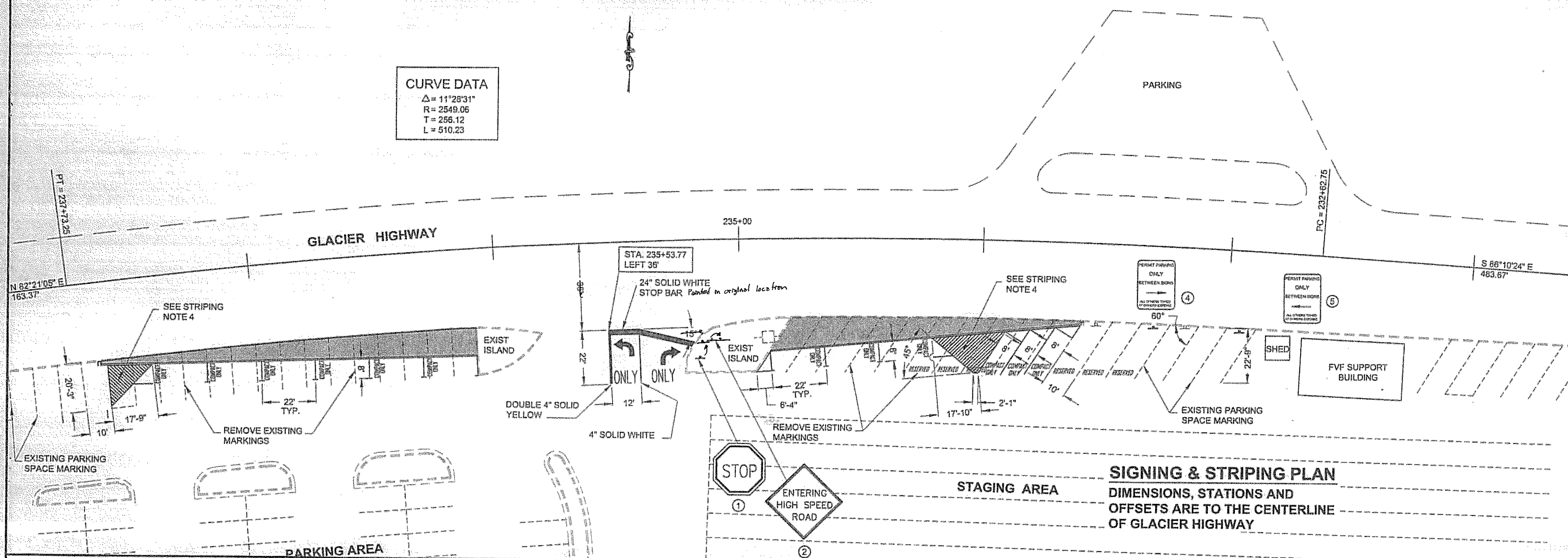
PROJECT DESIGNATION
68975

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F1	6

JSK 1/9/08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CURVE DATA
 $\Delta = 11^\circ 29' 31''$
 $R = 2549.06$
 $T = 256.12$
 $L = 510.23$



SIGNING & STRIPING PLAN
 DIMENSIONS, STATIONS AND
 OFFSETS ARE TO THE CENTERLINE
 OF GLACIER HIGHWAY

SIGN RELOCATION

SIGN NO.	EXISTING		PROPOSED		FACING	LEGEND	NO. OF POSTS	POST SIZE	REMARKS
	STATION	OFFSET	STATION	OFFSET					
①	235+12	42' LT	235+17	49' LT	SOUTH	STOP	1	2.5"PT	INSTALL NEW POST, USE EXISTING SIGN
④	233+54	33' LT	233+24	33' LT	SOUTH	PERMIT PARKING ONLY ...	1	2.5"PT	VERIFY LOCATION W/ TERMINAL MANAGER
⑤	233+11	33' LT	232+99	33' LT	SOUTH	PERMIT PARKING ONLY ...	1	2.5"PT	VERIFY LOCATION W/ TERMINAL MANAGER

STANDARD SIGN

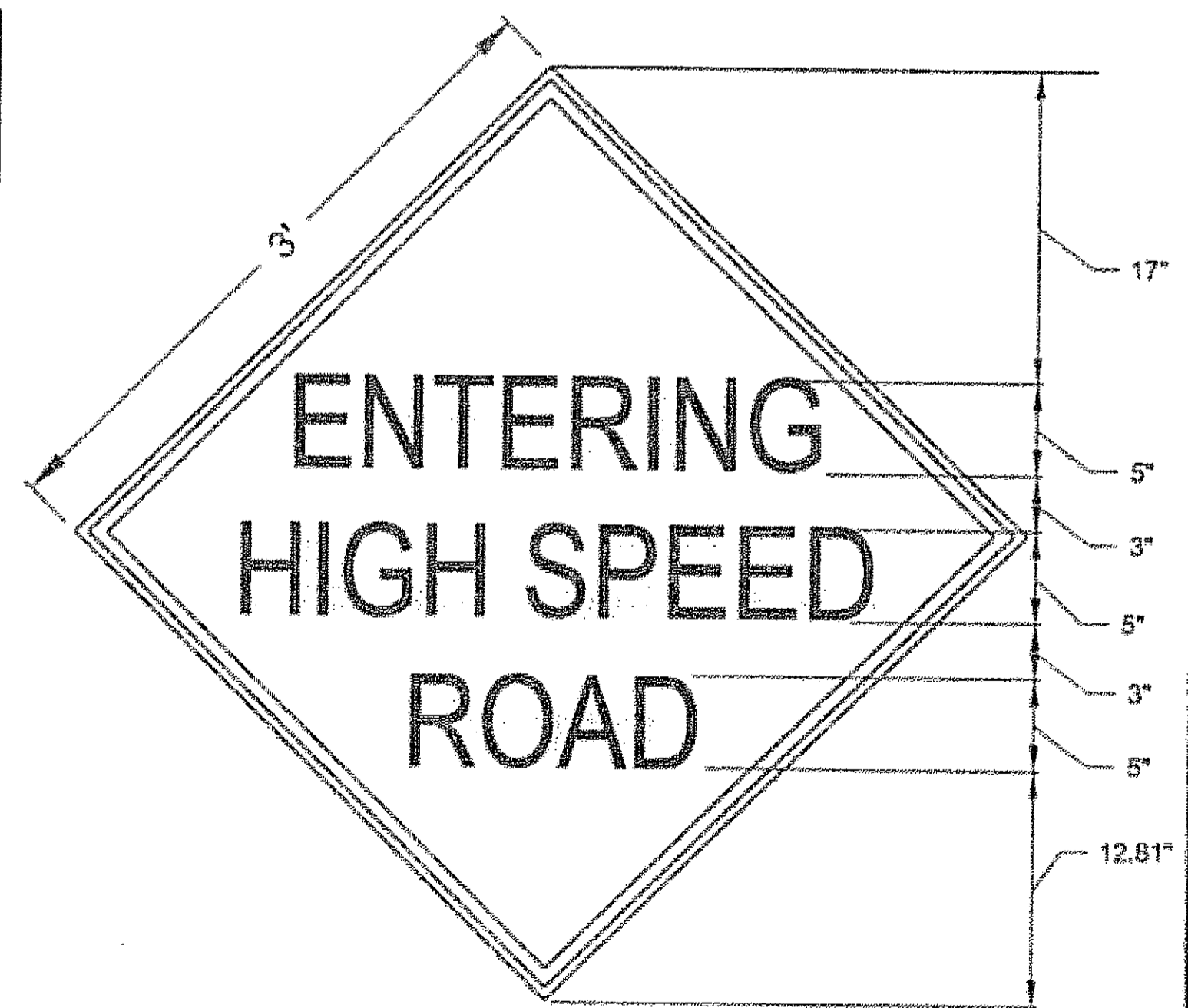
SIGN NO.	STATION	OFFSET		CODE NO. (ASDS)	LEGEND	SIZE	AREA S.F.	NO. OF POSTS	POST SIZE	FACING TRAFFIC	REMARKS
		LT.	RT.								
②	235+12	42'		SPECIAL	ENTERING HIGH SPEED ROAD	36"x36"	9.0			NB	INSTALL SPECIAL SIGN PANEL. INSTALL NEW POST

SIGN REMOVAL

SIGN NO.	STATION	OFFSET		LEGEND
		LT.	RT.	
③	235+12	42'		ENTERING GLACIER HIGHWAY

STRIPING NOTES

- PARKING SPACE "COMPACT ONLY" AND "RESERVED" LETTERING SHALL BE MIN. 8" TALL ALL CAPITAL BLOCK LETTERS CENTERED IN PARKING SPACE.
- PARKING SPACE STRIPING AND LETTERING SHALL BE WHITE. ISLAND AREA HATCHING AND PERIMETER STRIPING SHALL BE YELLOW
- ISLAND AREA HATCHING SHAL BE 4" YELLOW STRIPING AT 18" ON CENTER. PERIMETER STRIPING SHALL BE 4" YELLOW STRIPE



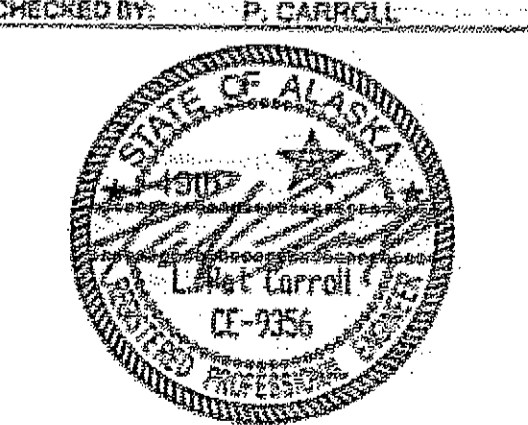
SPECIAL SIGN DETAIL

BLACK TEXT AND BORDER ON YELLOW BACKGROUND

GENERAL SIGNING NOTES

- SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS, AS DIRECTED BY THE ENGINEER.
- SEE STD. DWG. S-30.01 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
- NEW SIGN POST SHALL BE TELESCOPING PERFORATED GALVANIZED SQUARE STEEL POSTS.
- REMOVED SIGN PANEL SHALL BE DELIVERED TO THE D.O.T./P.F. MAINTENANCE YARD AT 7 MILE.
- SIGNS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN PANEL IS 7 FEET ABOVE THE ROADWAY SURFACE.
- ALL SIGNS SHALL BE 0.125" THICK EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS 8/2/06



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

JUNEAU
 FERRY TERMINAL
 SIGHT DISTANCE IMPROVEMENTS
 PROJECT #68975

**SIGNING & STRIPING
 DETAILS**

DESIGNED BY: D. WILLIAMS	PROJECT DESIGNATION: 68975		YEAR: 2006	SHEET NO.: G1	TOTAL SHEETS: 6
DRAWN BY: L. ROBERTSON	PATH: Q:\JNU\68975\PLANSET\068975-G1-SIGN-STRIPING.DWG				
TAB: G1	Friday, July 29, 2005 11:27:44 AM				
REVISIONS		PROJECT DESIGNATION		YEAR	SHEET NO.
NO.	DATE	DESCRIPTION	68975	2006	G1

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LEGEND

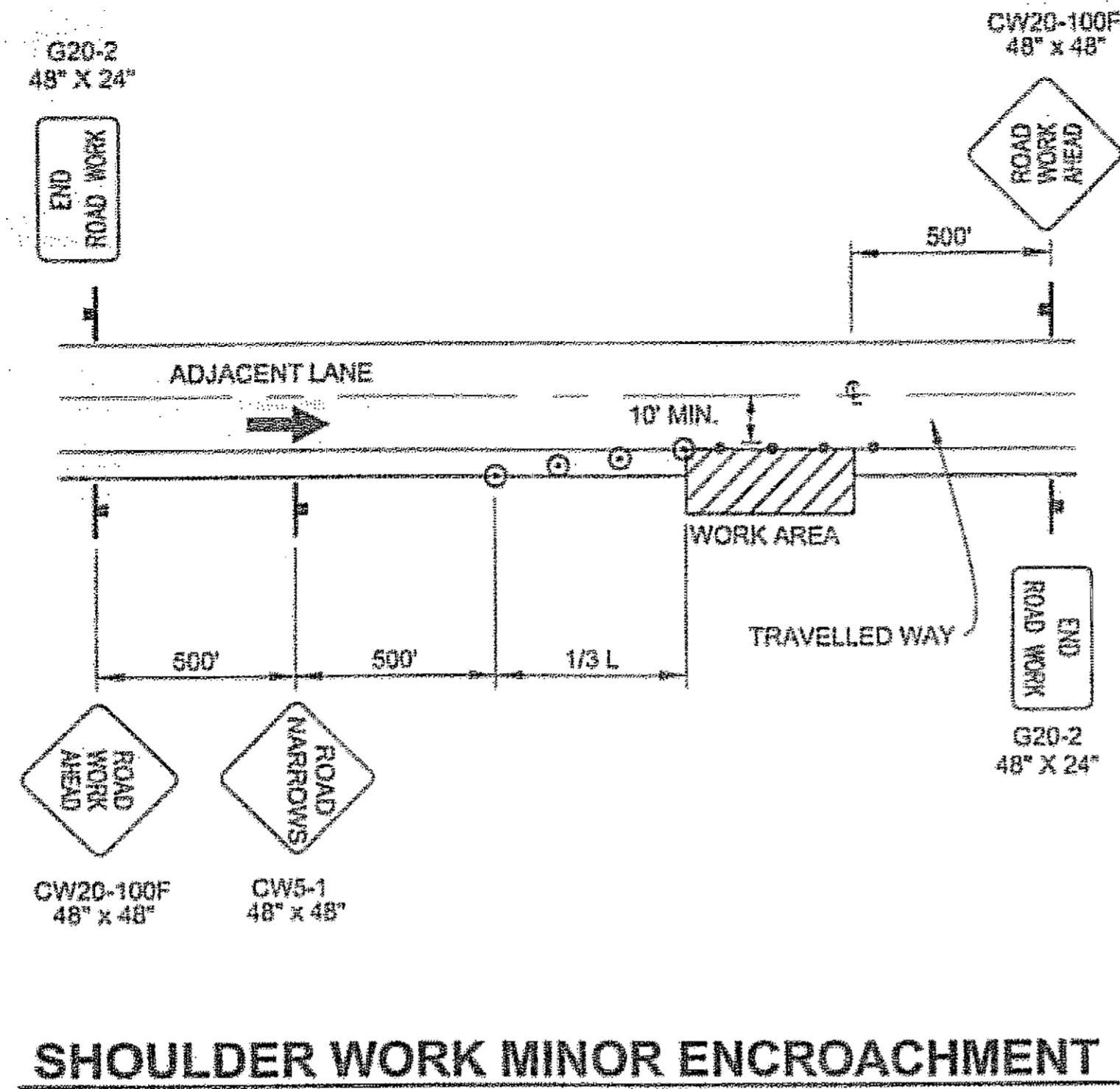
- SIGN
- FLAGGING STATION

FORMULAS FOR L (TAPER LENGTH)

45 MPH OR GREATER $L = W \times S$

WHERE W = WIDTH OF OFFSET
 S = POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

MINIMUM BUFFER TABLE		
DESIGN SPEED (km/h)	MAX. DEVICE SPACING (FT.)	STOPPING SIGHT DISTANCE FOR DESIGN (FT)
30	30	200
35	35	250
40	40	305
45	45	360
50	50	425
55	55	495



TRAFFIC CONTROL PLAN NOTES:

1. SETUP FROM MUTCD 2003 FIGURE 6H-6 TYPICAL APPLICATION (TA)6.
2. IF SPEEDS AND VOLUMNS ARE TOO HEAVY, ENGINEER MAY REQUIRE LANE CLOSURE WITH FLAGGERS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION												
	JUNEAU FERRY TERMINAL SIGHT DISTANCE IMPROVEMENTS PROJECT #68975 TRAFFIC CONTROL PLAN												
CHECKED BY: C. MOREHOUSE DESIGNED BY: D. WILLIAMS DRAWN BY: L. ROBERTSON	PATH: Q:\JNU\68975\PLANSET\68975-T1-TRAFFIC.DWG TAB: T1 Friday, July 29, 2005 11:27:44 AM LROBERTSON												
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