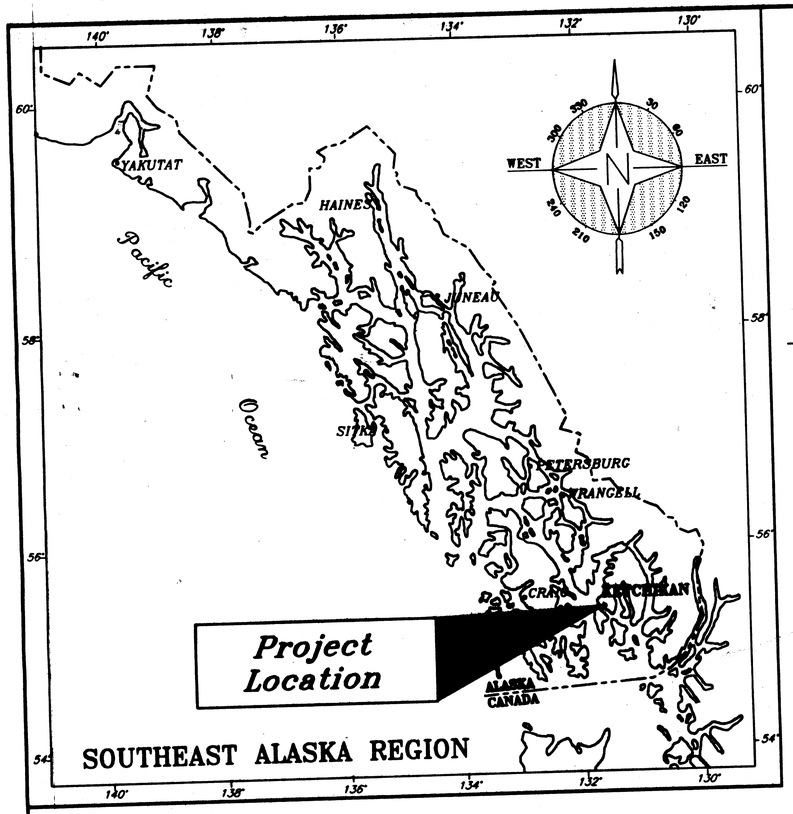

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN, ALASKA

KETCHIKAN THIRD AVENUE EXTENSION

STP-MG-0904(1)
PROJECT No. 71811

Index of Sheets

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2-7	TYPICAL SECTIONS
8	ESTIMATE OF QUANTITIES
9-15	SUMMARY OF QUANTITIES
16-22	PLAN AND PROFILE SHEETS
23-31	INTERSECTION DETAILS
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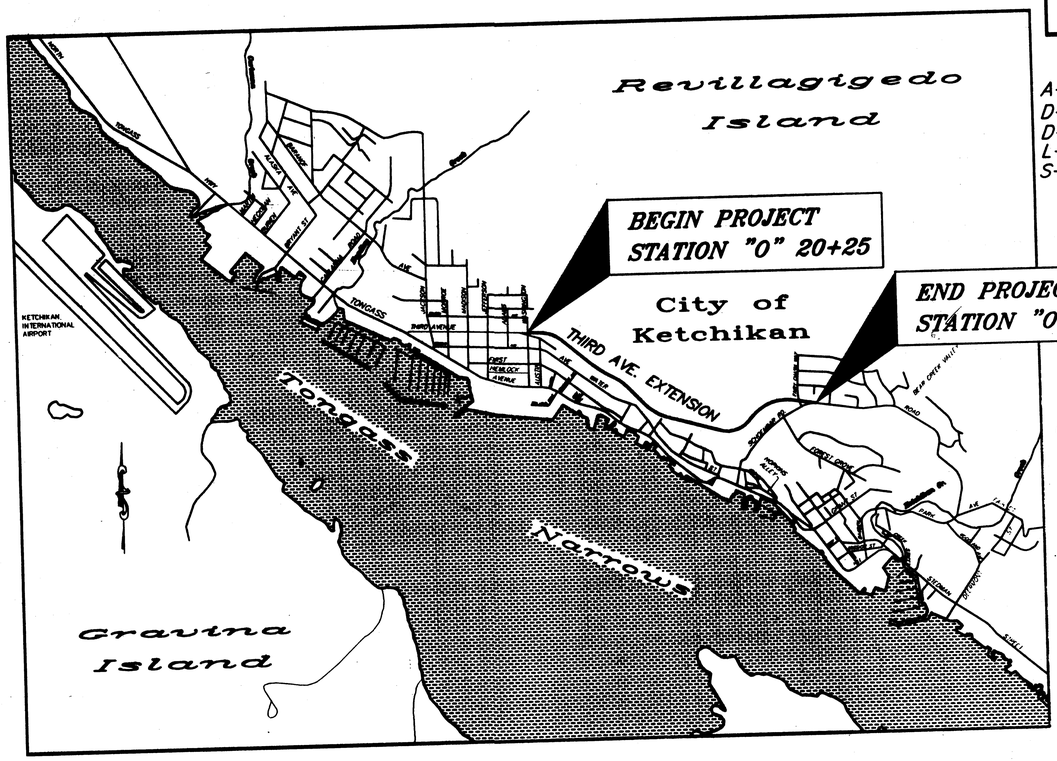
50-51	SANITARY SEWER RECONSTRUCTION
52-54	TRAFFIC CONTROL PLAN
55-64	SIGNING, STRIPING AND ILLUMINATION DETAILS
65-67	SIDEWALK AND CURB CUT DETAILS
68	PEDESTRIAN RAILING
69-78	RAINBIRD TRAIL IMPROVEMENTS
79-82	MISCELLANEOUS UTILITY DETAILS
83-84	NOISE BARRIER
85-91	WATER MAIN (KPU)
92-93	ROCK CATCHMENT BARRIER

Design Designation

	1997	2017
ADT	7,200	10,700
DHV	700	1,050
%T	3.1	3.1
DESIGN SPEED	35 MPH	35 MPH
DESIGN EAL		550,000

Project Summary

LENGTH OF PROJECT	5995 FT. (1.14 MI)
LENGTH OF PAVING	5995 FT. (1.14 MI)
WIDTH OF PAVING	VARIES (25' TO 31')



VICINITY MAP

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1, B-04.00, B-05.00, C-01.03, C-02.01, C-03.01, D-01.02, D-04.10, D-05.10, D-07.00, D-20.03, D-22.00, D-23.00, D-24.00, D-26.02, D-35.00, E-00.00, E-13.00, F-01.01, G-45.01, I-20.12, I-81.00, L-03.03, L-20.01, L-23.01, L-30.02, M-13.01, M-16.01, S-00.00, S-05.00, S-20.00, S-30.01, T-20.00, T-21.02, T-22.02

As-Built Plans

Begin: END:

Project Engineer: Allen Shepard

Contractor: Secon Inc

Begin Construction: 2-28-00

End Construction: 3-23-01

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

APPROVED Date 9/15/99
Regional Preconstruction Engineer

APPROVED Date 10/7/99
Director, S.E. Region

PROJECT NUMBER:	ENGINEER'S SEAL
71811	STATE OF ALASKA David D. Saldivar CE-8307 REGISTERED PROFESSIONAL ENGINEER
DATE: July, 1999	
SHEET 1 OF 93	

[PlotStamp Eval] Thu, 30, Sep/99 08:39am Q:\Ktn\71811\Dr\-Tsht.dwg Bert
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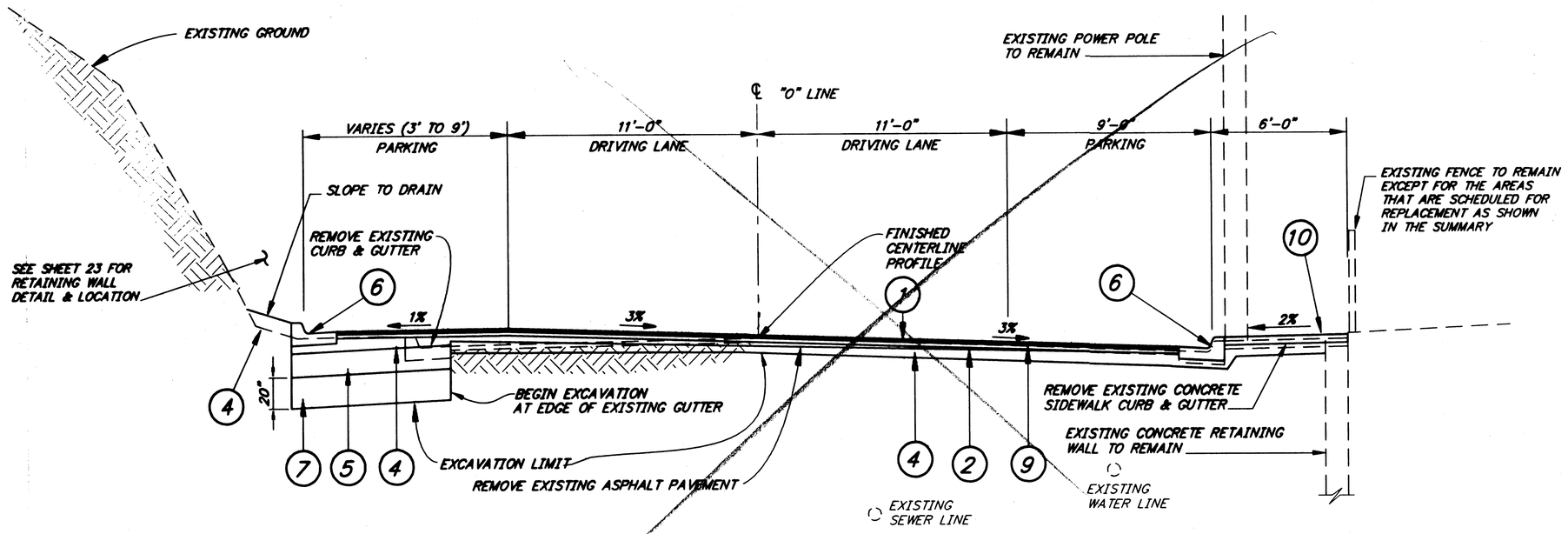
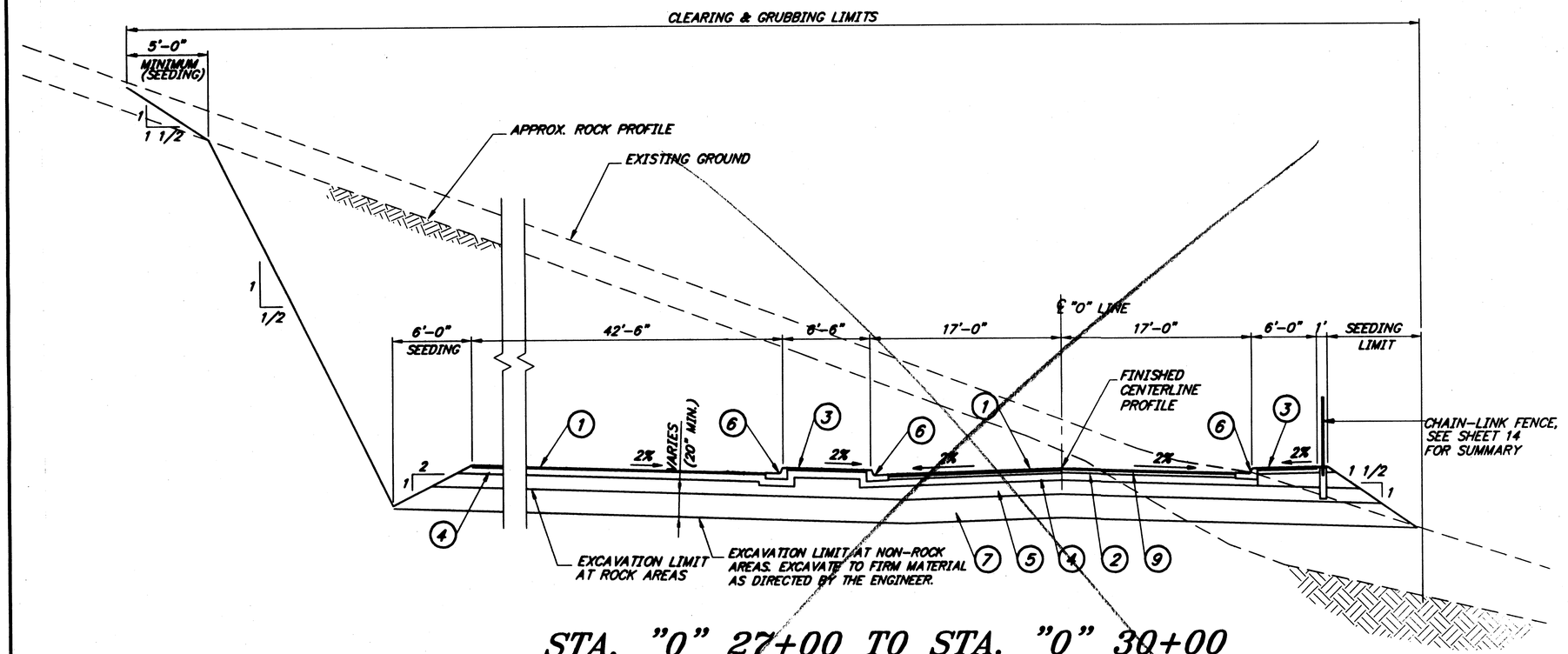


STA. "0" 20+25 (BOP) TO STA. "0" 22+00

NOTE:

AREAS TO BE SEEDED SHALL RECEIVE A MINIMUM 4" OF TOPSOIL.



STA. "0" 27+00 TO STA. "0" 30+00

SUPERELEVATION TABLE

STATION	LT.	RT.	REMARKS
B.O.P.	+3%	-3%	
"0" 21+90.40	+9.74%	-9.74%	
"0" 22+14.40	+9.74%	-9.74%	
"0" 22+89.40	+2%	-2%	
"0" 24+60.54	+2%	-2%	
"0" 25+20.54	+4%	-4%	
"0" 27+68.59	+4%	-4%	
"0" 28+28.59	+2%	-2%	
"0" 28+88.59	0%	-2%	
"0" 29+48.59	-2%	-2%	
"0" 34+09.37	-2%	-2%	
"0" 34+69.37	-2%	0%	
"0" 35+29.37	-2%	+2%	
"0" 35+89.37	-4%	+4%	
"0" 38+34.29	-4%	+4%	
"0" 38+99.14	-2%	+2%	
"0" 39+57.99	0%	0%	
"0" 40+19.84	+2%	-2%	
"0" 40+81.69	+4%	-4%	
"0" 42+33.59	+4%	-4%	
"0" 42+93.59	+2%	-2%	
"0" 43+53.59	0%	-2%	
"0" 44+13.59	-2%	-2%	
"0" 46+32.33	-2%	-2%	
"0" 46+92.33	-2%	0%	
"0" 47+52.33	-2%	+2%	
"0" 48+12.33	-4%	+4%	
"0" 51+88.49	-4%	+4%	
"0" 52+48.49	-2%	+2%	
"0" 53+08.49	-2%	0%	
"0" 53+68.49	-2%	-2%	
"0" 61+03.46	-2%	-2%	
"0" 61+63.46	-2%	0%	
"0" 62+23.46	-2%	+2%	
"0" 62+83.46	-4%	+4%	
"0" 66+66.33	-4%	+4%	
"0" 67+26.33	-2%	+2%	
"0" 67+86.33	-2%	0%	
"0" 68+46.33	-2%	-2%	
"0" 68+76.77	-2%	-2%	
"0" 69+36.77	0%	-2%	
"0" 69+96.77	+2%	-2%	
"0" 70+56.77	+4%	-4%	
"0" 77+32.64	+4%	-4%	
"0" 77+92.64	+2%	-2%	
"0" 78+52.64	0%	-2%	
"0" 79+12.64	-2%	-2%	
"0" 80+20 (EOP)	-2%	-2%	

LEGEND

1. 2 1/2" ASPHALT CONCRETE PAVEMENT TYPE II, CLASS A
2. 2 1/2" ASPHALT TREATED BASE COURSE
3. 1 1/2" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK
4. 4" CRUSHED AGGREGATE BASE COURSE
5. 12" SUBBASE, GRADING "B"
6. CURB & GUTTER, TYPE 1
7. BORROW TYPE "D" OR EXCAVATION MEETING REQUIREMENTS OF BORROW TYPE "D"
9. STE-1 ASPHALT FOR TACK COAT
10. 4" REINFORCED CONCRETE SIDEWALK, TYPE "A"

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: [PlotStamp Eval] Q:\Ktn\71811\Dr\-typ6.dwg Tue, 21/Dec/99 01:36pm
PLOT: FULL=3 or HALF=6

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

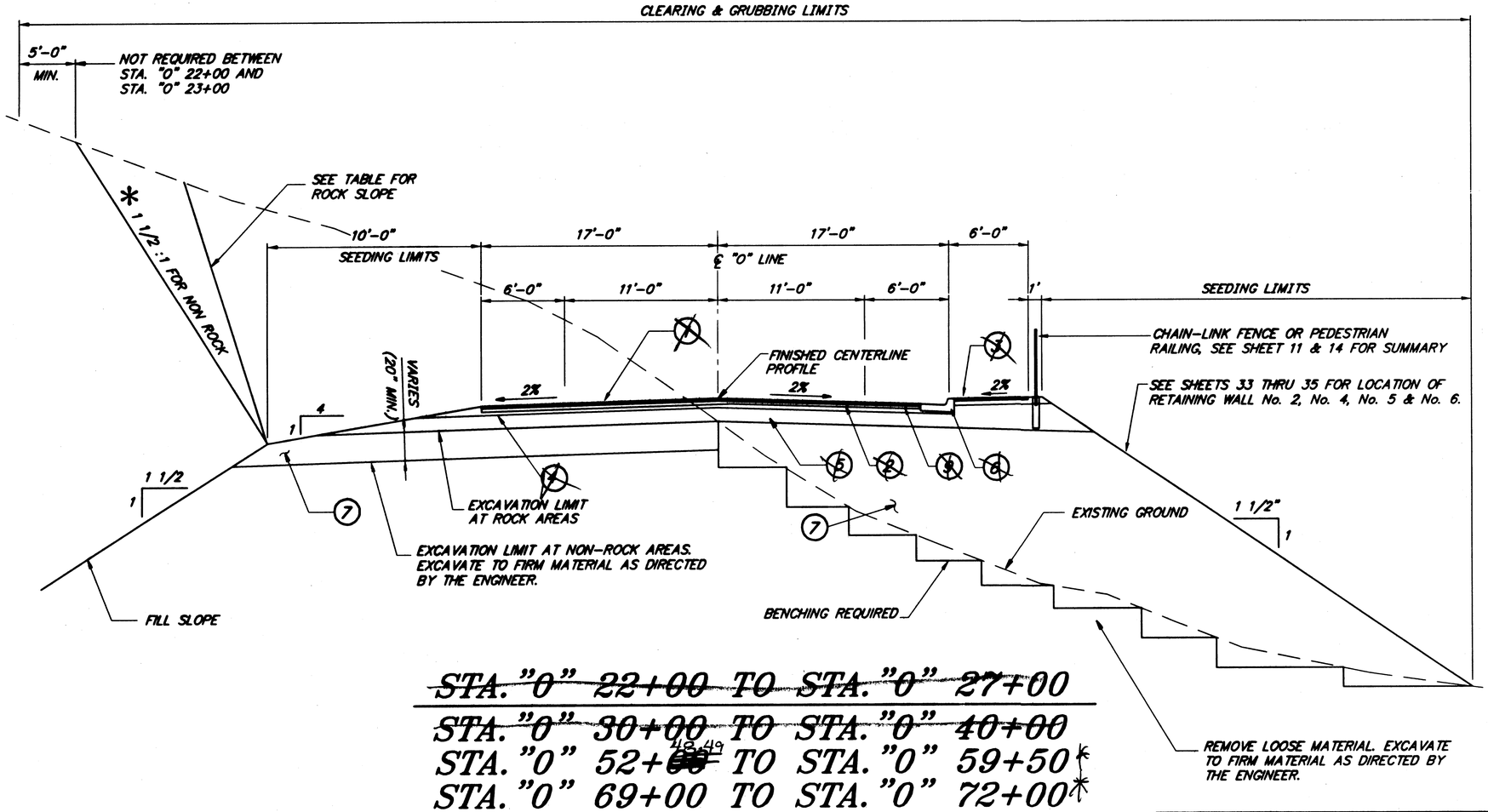
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-090(1) ~ PROJECT No. 71811

TYPICAL SECTIONS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 2 OF 93

STATE OF ALASKA — 49th — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER



~~STA. "0" 22+00 TO STA. "0" 27+00~~

~~STA. "0" 30+00 TO STA. "0" 40+00~~

~~STA. "0" 52+48 TO STA. "0" 59+50~~ *

~~STA. "0" 69+00 TO STA. "0" 72+00~~ *

LEGEND

1. ~~2 1/2" ASPHALT CONCRETE PAVEMENT~~
2. ~~2 1/2" ASPHALT TREATED BASE COURSE~~
3. ~~1 1/2" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK~~
4. ~~4" CRUSHED AGGREGATE BASE COURSE~~
5. ~~12" SUBBASE, GRADE "D"~~
6. ~~CURB & GUTTER, TYPE I~~
7. BORROW, TYPE "D" OR EXCAVATION MEETING REQUIREMENTS OF BORROW TYPE "D"
8. ~~STE-1 ASPHALT FOR TACK COAT~~

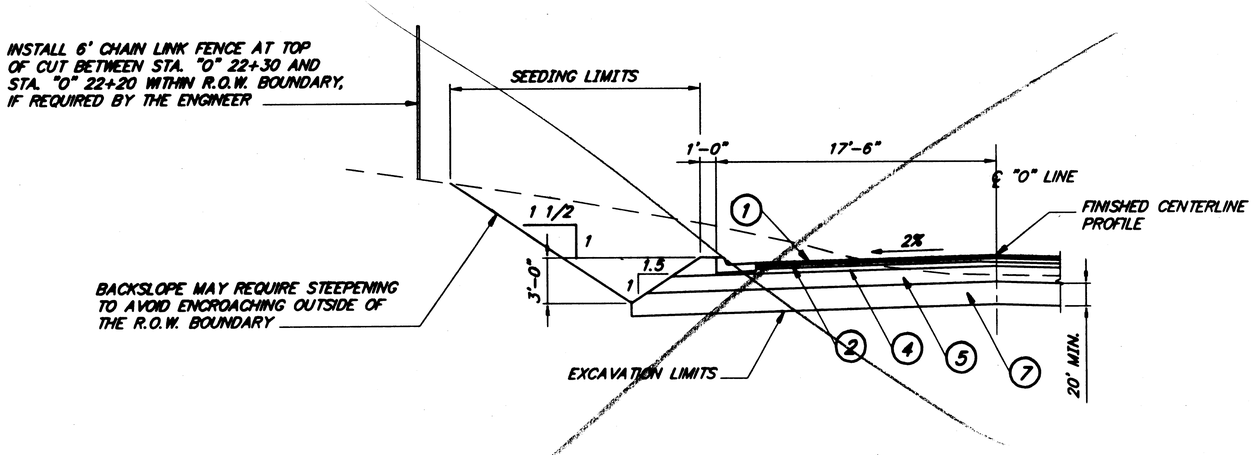
* Note: Grade complete to top of Course D

ROCK CUT SLOPE	
STATION	SLOPE
"0" 25+00 TO "0" 35+00	1/2:1
"0" 35+00 TO "0" 38+00	1/4:1
"0" 38+00 TO "0" 52+00	1/2:1
"0" 52+00 TO "0" 53+00	1/4:1
"0" 53+00 TO "0" 57+00	1/2:1
"0" 57+00 TO "0" 69+00	1/4:1

* CUT SLOPES AT NON-ROCK AREAS WILL REQUIRE SEEDING AND MATTING. SEE SHEET 13 FOR LOCATION OF MATTING.

NOTE:

AREAS TO BE SEEDED SHALL RECEIVE A MINIMUM 4" OF TOPSOIL.



STA. "0" 22+00, LT. TO STA. "0" 23+00, LT.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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PLOT: FULL=3 or HALF=6		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

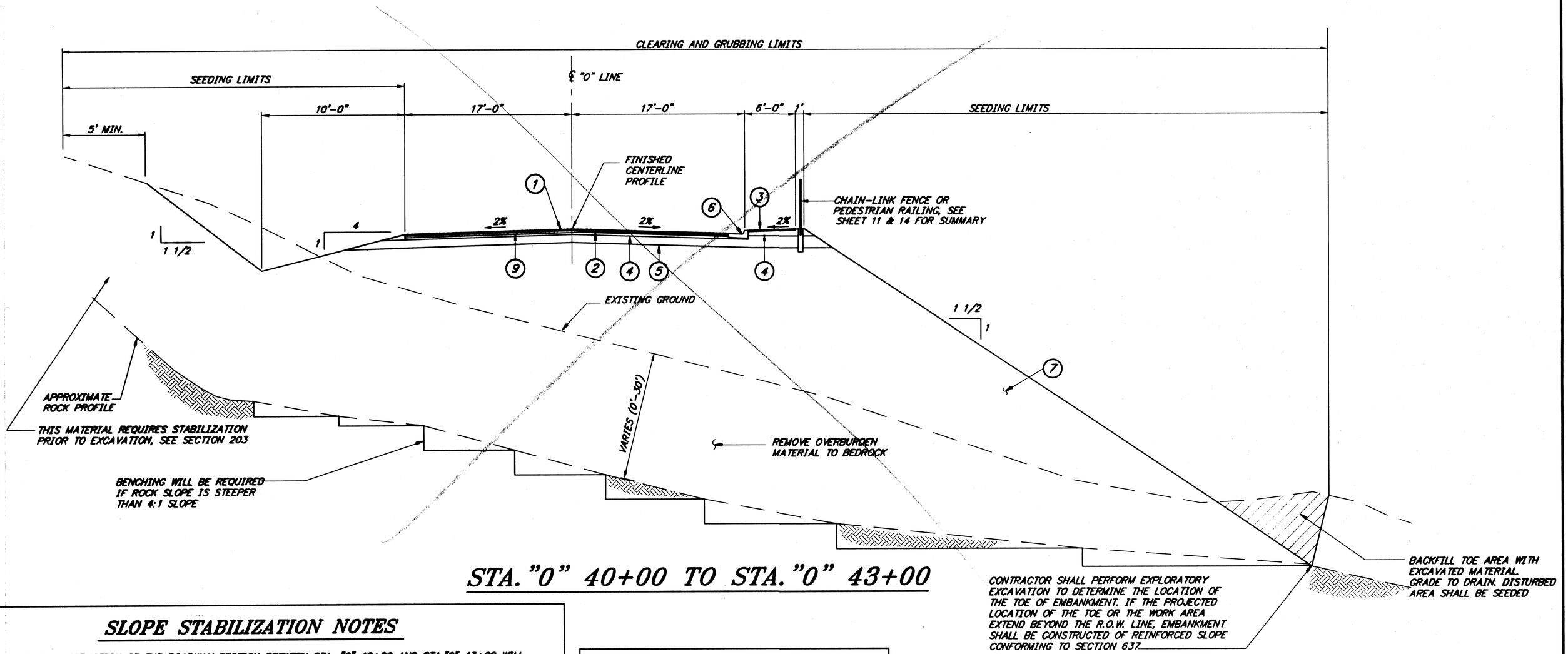
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

TYPICAL SECTIONS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 3 OF 93

STATE OF ALASKA 4911 David D. Saldivar CE-8307 REGISTERED PROFESSIONAL ENGINEER



STA. "0" 40+00 TO STA. "0" 43+00

SLOPE STABILIZATION NOTES

1. THE CONSTRUCTION OF THE ROADWAY SECTION BETWEEN STA. "0" 40+00 AND STA. "0" 43+00 WILL REQUIRE EXCAVATION OF THE EXISTING OVERBURDEN DOWN TO BEDROCK. THE PROPOSED ROADWAY ALIGNMENT CROSSES TWO OLD DEBRIS FLOWS AND TALUS SLOPES THAT MAY BECOME UNSTABLE DURING EXCAVATION
2. THE DEPARTMENT WILL EMPLOY A GEOTECHNICAL-ENGINEERING FIRM WITH RECOGNIZED EXPERTISE IN LANDSLIDE INVESTIGATION AND REMEDIATION TO PREPARE A CONSTRUCTION PHASING AND SLOPE STABILIZATION PLAN FOR THIS AREA.
3. THE CONTRACTOR SHALL PERFORM NO CONSTRUCTION WORK REQUIRING HEAVY EQUIPMENT OR BLASTING BETWEEN STA. "0" 38+00 AND STA. "0" 45+00 FOR 180 CALENDER DAYS AFTER NOTICE TO PROCEED'S EFFECTIVE DATE, TO ALLOW THE DEPARTMENT TIME TO INVESTIGATE THE SITE AND PREPARE A PLAN.
4. THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN THE INVESTIGATION AND DISCUSSION OF SOLUTIONS TO MAKE MAXIMUM EFFICIENT USE OF THEIR EQUIPMENT AND EXPERTISE. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE EQUIPMENT FOR FIELD INVESTIGATION.
5. UPON COMPLETION OF THE PLAN AND WRITTEN ORDER FROM THE ENGINEER, THE CONTRACTOR SHALL STABILIZE THE SLOPES IN ACCORDANCE WITH THE PLAN AND AS DIRECTED BY THE ENGINEER.
6. THE DEPARTMENT HIRED GEOTECHNICAL CONSULTANT WILL CONTINUE TO MONITOR THE STABILITY OF THE SLOPES DURING ROADWAY CONSTRUCTION AND SHALL HAVE FULL AUTHORITY TO STOP WORK AND ORDER CHANGES IN PROCEDURES IF IN HIS/HER OPINION THE SLOPES ARE BECOMING UNSTABLE FOR ANY REASON.

LEGEND

1. 2 1/2" ASPHALT CONCRETE PAVEMENT
2. 2 1/2" ASPHALT TREATED BASE COURSE
3. 1 1/2" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK
4. 4" CRUSHED AGGREGATE BASE COURSE
5. 12" SUBBASE , GRADE "B"
6. CURB & GUTTER, TYPE I
7. BORROW, TYPE "D" OR EXCAVATION MEETING REQUIREMENTS OF BORROW TYPE "D"
8. 6" IMPERMEABLE MATERIAL
9. STE-1 ASPHALT FOR TACK COAT

NOTE:

AREAS TO BE SEEDED SHALL RECEIVE A MINIMUM 4" OF TOPSOIL.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] G:\Ktn\71811\Dr\-typ11.dwg Tue, 21/Dec/99 02:07pm		
PLOT: FULL=3 or HALF=6		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

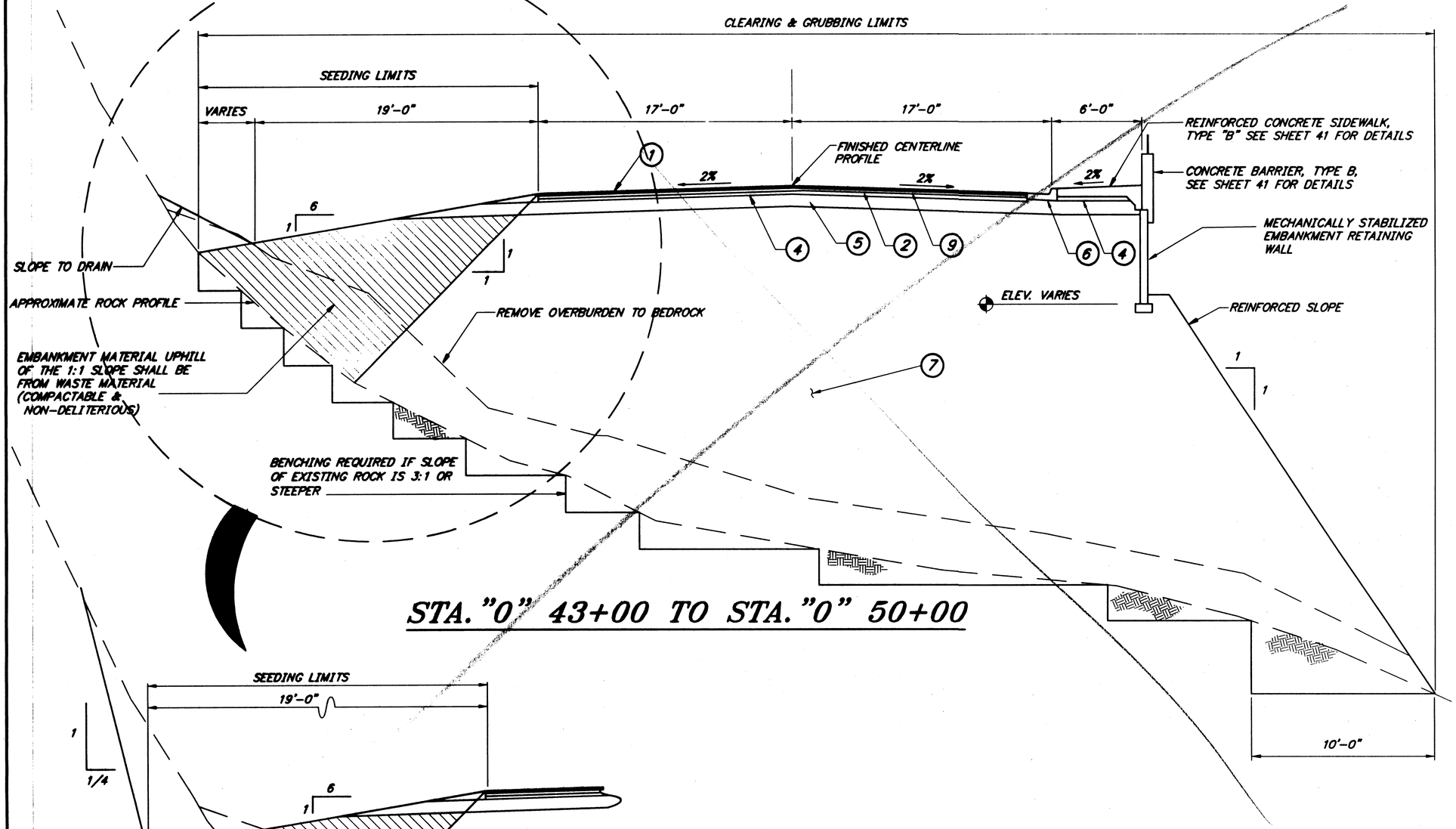
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
TYPICAL SECTIONS

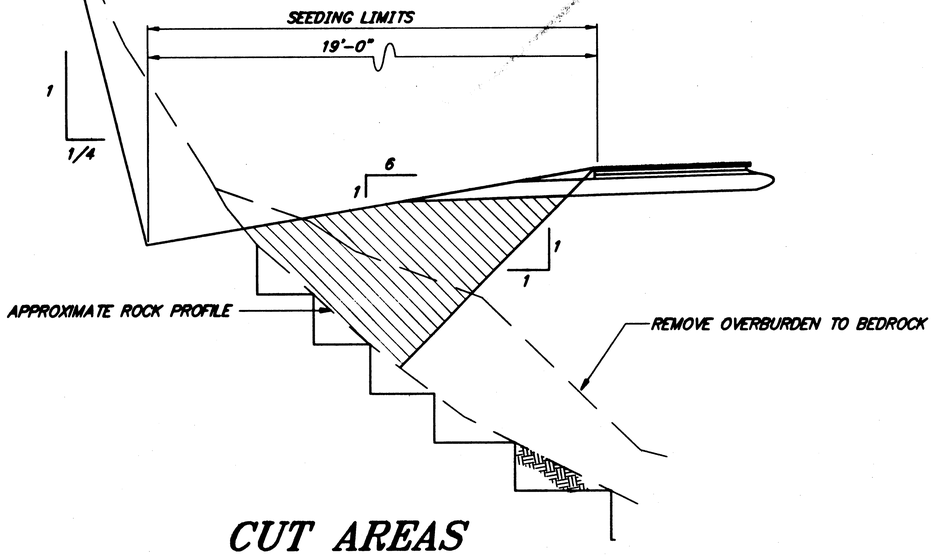
DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 4 OF 93

STATE OF ALASKA — 10th — Dawn D Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

NOTE:
CLEARING & GRUBBING SHALL EXTEND A MINIMUM OF 5-FEET BEYOND THE CUT BACKSLOPE LIMITS.



STA. "0" 43+00 TO STA. "0" 50+00



CUT AREAS

LEGEND

1. 2 1/2" ASPHALT CONCRETE PAVEMENT
2. 2 1/2" ASPHALT TREATED BASE COURSE
3. 1 1/2" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK
4. 4" CRUSHED AGGREGATE BASE COURSE
5. 12" SUBBASE , GRADE "B"
6. CURB & GUTTER, TYPE I
7. BORROW, TYPE "D" OR EXCAVATION MEETING REQUIREMENTS OF BORROW TYPE "D"
9. STE-1 ASPHALT FOR TACK COAT

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71611

TYPICAL SECTIONS

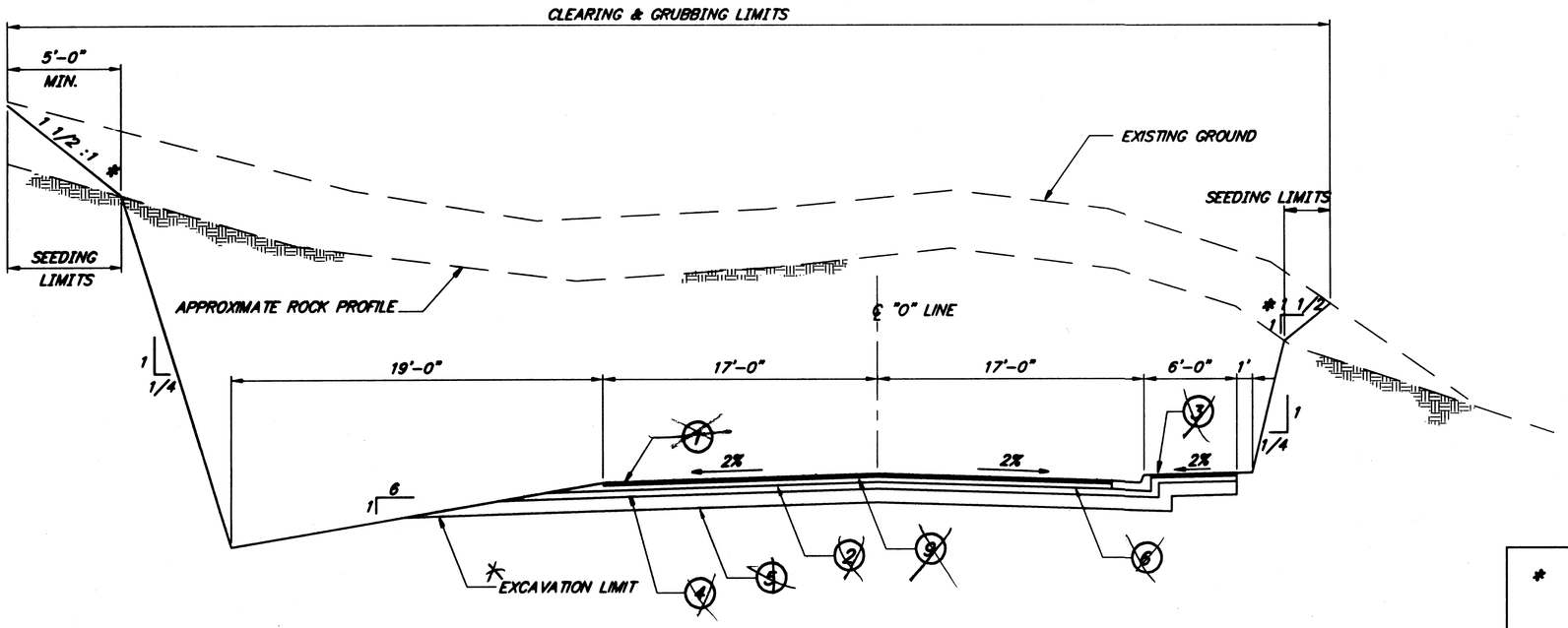
DESIGNED BY: D. Saldivar	PROJECT NO. 71611
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 5 OF 93

STATE OF ALASKA
Edward D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

LEGEND

- *(1) 2 1/2" ASPHALT CONCRETE PAVEMENT
- *(2) 2 1/2" ASPHALT TREATED BASE COURSE
- *(3) 1 1/2" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK
- *(4) 4" CRUSHED AGGREGATE BASE COURSE
- (5) 12" SUBBASE , GRADE "B"
- x(6) CURB & GUTTER, TYPE I
- x(7) BORROW, TYPE "D" OR EXCAVATION MEETING REQUIREMENTS OF BORROW TYPE "D"
- x(9) STE-1 ASPHALT FOR TACK COAT

Note: Items 1 thru 9, ~~———~~ completed x73+30 to EOP only.



~~STA. "0" 50+00 TO STA. "0" 53+00~~

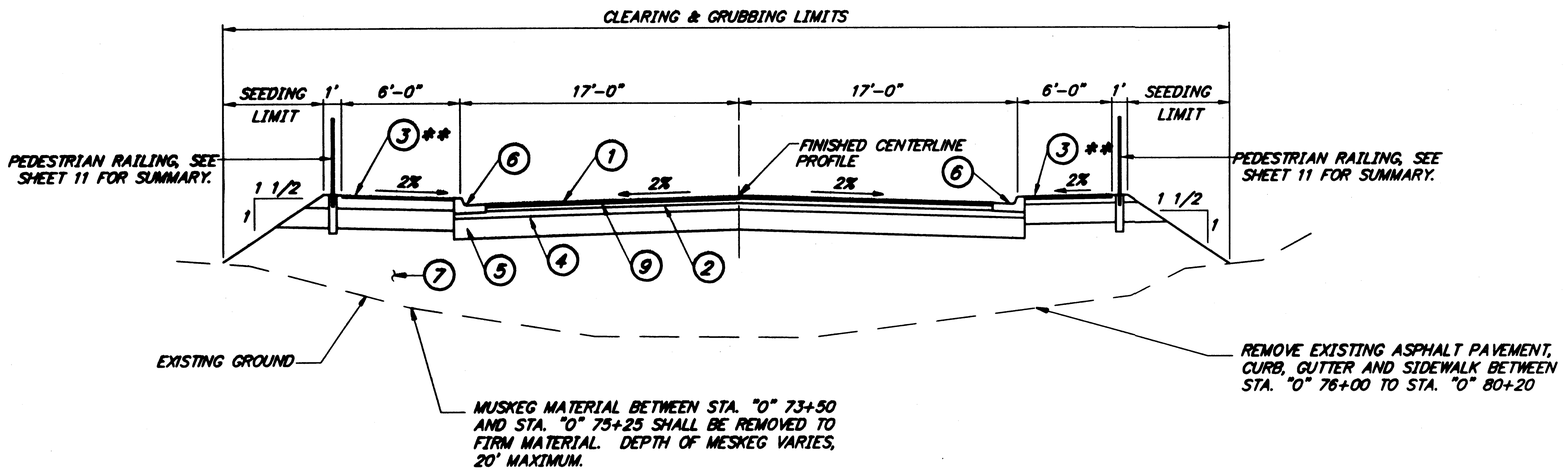
STA. "0" 59+50 TO STA. "0" 69+00 * Completed to Excavation limits only

* CUT SLOPES AT NON-ROCK AREAS WILL REQUIRE SEEDING. FILL SLOPES CONSTRUCTED OF SHOT ROCK MATERIAL WILL NOT REQUIRE SEEDING.

** SEE PLAN SHEET 21 FOR LIMITS OF SIDEWALK INSTALLATION.

NOTE:

AREAS TO BE SEEDED SHALL RECEIVE A MINIMUM 3" OF TOPSOIL.



* See Notes Above

STA. "0" 72+00 TO STA. "0" 80+20 (EOP)

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

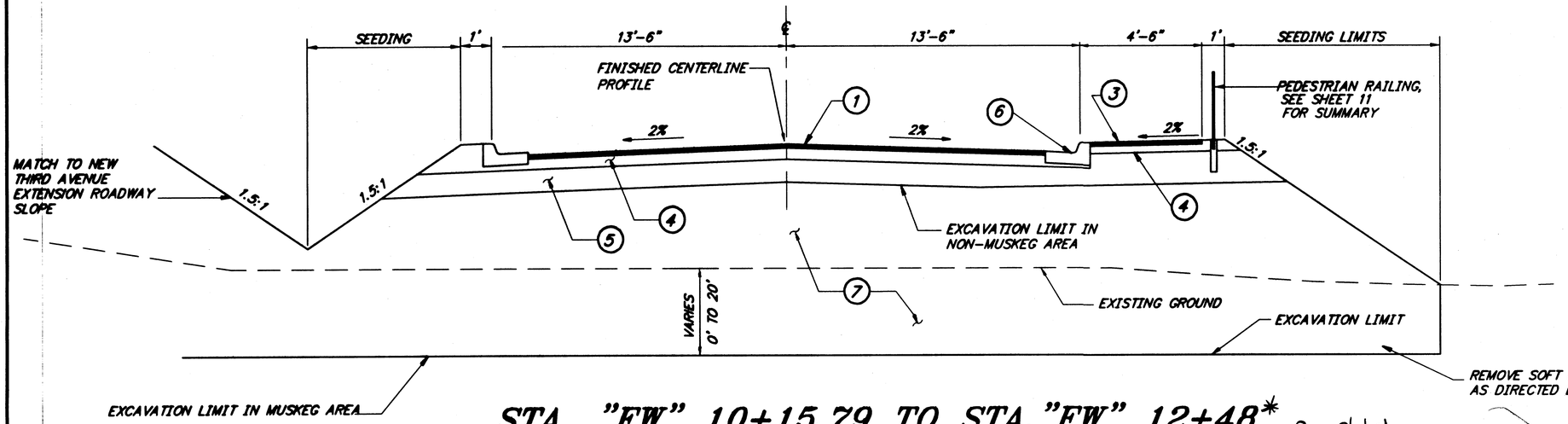
TYPICAL SECTIONS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 6 OF 93

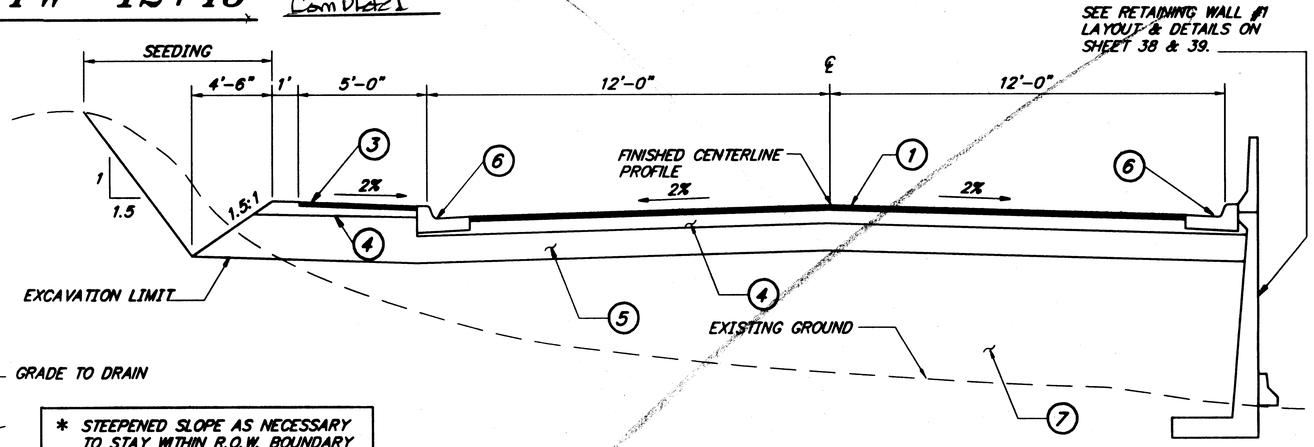
STATE OF ALASKA — David D Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

LEGEND

1. 2" ASPHALT CONCRETE PAVEMENT TYPE II, CLASS A
3. 1 1/2" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK
4. 4" CRUSHED AGGREGATE BASE COURSE
5. 12" SUBBASE, GRADING "B"
6. CURB & GUTTER, TYPE 1
7. BORROW, TYPE "D" OR EXCAVATION MEETING REQUIREMENTS OF BORROW TYPE "D"

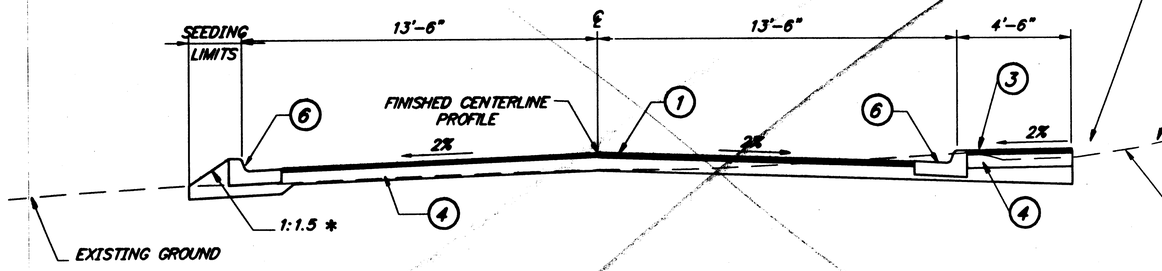


STA. "FW" 10+15.79 TO STA. "FW" 12+48* Completed



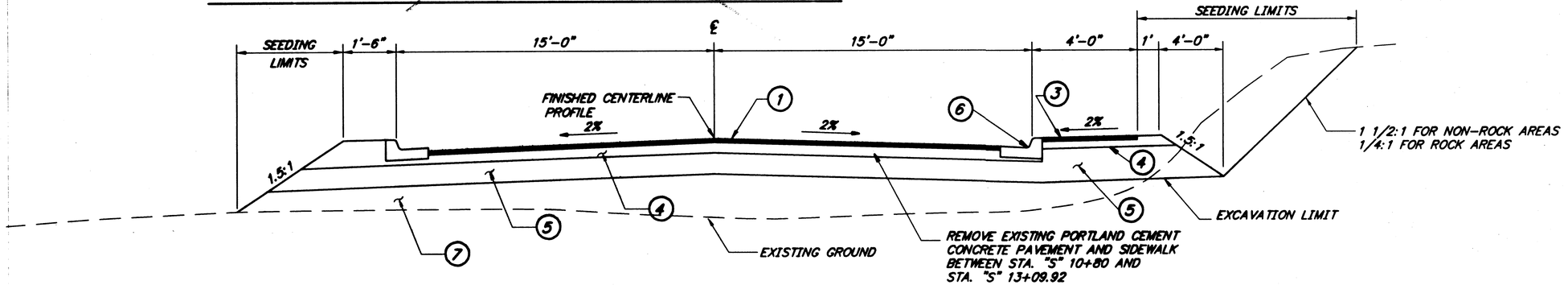
STA. "A" 10+23 TO STA. "A" 12+80

INSTALL 2.5' HIGH ROCKERY BEHIND SIDEWALK BETWEEN STA. "W" 13+19 AND STA. "W" 13+35, COST OF THIS WORK SHALL BE CONSIDERED SUBSIDIARY



* STEEPENED SLOPE AS NECESSARY TO STAY WITHIN R.O.W. BOUNDARY

STA. "W" 11+50 TO STA. "W" 14+00



STA. "S" 10+15.93 TO STA. "S" 13+09.92 Completed

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

TYPICAL SECTIONS - SIDE STREETS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 7 OF 93

STATE OF ALASKA — David O Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER

ESTIMATE OF QUANTITIES

ITEM No.	ITEM	UNIT	PROJECT No. 71811	KPU (WATER)	CITY OF KETCHIKAN	TOTAL
120(1)	DBE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
201(3B)	CLEARING AND GRUBBING (APPROX. 12.5 ACRES)	LUMP SUM	ALL REQUIRED	CO#5	($70,000.00) →	ALL REQUIRED
201(6)	SELECTIVE TREE REMOVAL	EACH	23			23
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED	CO#13	($89,301.00) →	ALL REQUIRED
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	6,115			16,069.20 ~~6,115~~ 4017.3
202(3)	REMOVAL OF SIDEWALK	SQUARE YARD	800			$1,737.20 ~~800~~ 434.3
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	328			$1507.50 ~~328~~ 501.5
202(9)	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	1,375		($3,963.2) →	~~1,375~~ 990.8
202(12)	REMOVAL/SECURING OF ROCKS	CONTINGENT SUM	ALL REQUIRED		($9,352.28) →	ALL REQUIRED
202(13)	ASBESTOS REMOVAL	CONTINGENT SUM	ALL REQUIRED		($56,674.37) →	ALL REQUIRED
203(2)	ROCK EXCAVATION	CUBIC YARD	143,100		($781,792 −) →	~~143,100~~ 71,072
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	130,000		($207,781 −) →	~~130,000~~ 24,683
203(6)	BORROW, TYPE D	TON	90,000		($450.000 −) →	~~90,000~~ 30,000
203(10)	CONTROLLED BLASTING	SQUARE YARD	11,550		($124,204 −) →	11,550 6,210.2
203(11)	BENCHING IN BEDROCK	SQUARE YARD	13,000			~~13,000~~
203(12)	ROCK BOLTS	EACH	75			$1,900 − ~~75~~ 19
203(13)	ROCK DOWELS	EACH	50			~~0~~ ~~50~~ ~~0~~
203(14)	DRAIN HOLES	EACH	200			$2,840 − ~~200~~ 114
203(15)	PRE-BLAST SURVEY	EACH	~~50~~		($18,900.) →	~~50~~ 63
203(16)	CONTRACTOR'S BLASTING CONSULTANT	LUMP SUM	ALL REQUIRED	ALL REQUIRED	($30,000) →	ALL REQUIRED
203(17)	TEMPORARY ACCOMODATIONS DURING BLASTING	CONTINGENT SUM	ALL REQUIRED		($486.80) →	ALL REQUIRED
203(18)	STABILIZING UPHILL SLOPE (STA. 40+00-43+00)	CONTINGENT SUM	ALL REQUIRED			ALL REQUIRED
204(2)	ROCK EXCAVATION FOR PIPE	CUBIC YARD	3,500	4,900		$315 − ~~8,400~~ 315
301(1)	CRUSHED AGGREGATE BASE COURSE	TON	8,000			$20,185.80 ~~8,000~~ 1187.4
304(1)	SUBBASE, GRADING B	TON	24,000			$59,917.05 ~~24,000~~ 3994.47
306(1)	ASPHALT TREATED BASE COURSE	TON	3,850			$11,129.12 ~~3,850~~ 359.02
401(1)	ASPHALT CONCRETE PAVEMENT, TYPE II CLASS A	TON	3,200			$36,333.55 ~~3,200~~ 660.61
401(2)	PG 58-28 ASPHALT CEMENT	TON	346			$14,541 − ~~346~~ 98.47
402(2)	STE-1 ASPHALT FOR TACK COAT	TON	12			$1,080 − ~~12~~ 2.16
501(8)	CLASS A CONCRETE RETAINING WALL	SQUARE FOOT	1000			~~1000~~
501(9)	CONCRETE COLLAR	EACH	16			$2,100 − ~~16~~ 7
507(5A)	CONCRETE BARRIER-TYPE A	LINEAR FOOT	90			~~90~~
507(5B)	CONCRETE BARRIER-TYPE B	LINEAR FOOT	1360			$2,700 − ~~1360~~ 45
509(1)	PERMANENT ROCK CATCHMENT BARRIER	LINEAR FOOT	1138			~~1138~~
509(2)	TEMPORARY ROCK CATCHMENT BARRIER	LINEAR FOOT	4950		$1,403,40.0 −	4950 5198
510(1)	INTERPETIVE SIGN SUPPORT	EACH	6			~~0~~
510(2)	INTERPETIVE SIGNS	CONTINGENT SUM	ALL REQUIRED			~~ALL REQUIRED~~
511(1)	MECHANICALLY STABILIZED EMBANKMENT RETAINING WALL	SQUARE FOOT	37,000			37,000
512(1)	TIMBER BRIDGE	LINEAR FOOT	20			~~20~~
512(2)	BOARDWALK	LINEAR FOOT	75			~~75~~
512(3)	ELEVATED BOARDWALK w/HANDRAIL	LINEAR FOOT	150			~~150~~
512(4)	ELEVATED BOARDWALK	LINEAR FOOT	85			~~85~~
512(5)	PLANK STEPS w/HANDRAIL	LINEAR FOOT	155			~~155~~
512(6)	PLANK STEPS	LINEAR FOOT	275			~~275~~
512(7)	LOG STEPS	LINEAR FOOT	200			~~200~~
512(8)	TIMBER STAIRWAY	LINEAR FOOT	175			~~175~~
512(9)	TIMBER HANDRAIL	LINEAR FOOT	110			~~110~~
512(10)	GRAVEL PATH	LINEAR FOOT	520			~~520~~
512(11)	TRAIL CLEARING/SHAPING	HOUR	240			~~240~~
603(1-12)	12-INCH CORRUGATED STEEL PIPE	LINEAR FOOT	330			$5,670 − ~~330~~ 162
603(1-120)	120-INCH CORRUGATED STEEL PIPE	LINEAR FOOT	150			~~150~~ ~~0~~
603(22-18)	18-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	3,136.6			$10,150.40 ~~3,136.6~~ 1672
603(22-24)	24-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	2,568.6			$6,408 − ~~2,568.6~~ 1429
603(22-36)	36-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	125			~~125~~
604(1)	STORM SEWER MANHOLE	EACH	31			$6,200 − ~~31~~ 8
604(2)	SANITARY SEWER MANHOLE	EACH			3	~~3~~
604(3)	RECONSTRUCT EXISTING MANHOLE	EACH	1			~~1~~ ~~0~~
604(5)	INLET, TYPE A	EACH	26			$9,000 − ~~26~~ 6
604(8)	SANITARY SEWER DROP-MANHOLE	EACH	1			$8,000 − 1
607(3)	CHAIN LINK FENCE	LINEAR FOOT	3,065			$23,837.50 ~~3,065~~ 153.5
607(7)	NOISE BARRIER	SQUARE FOOT	3,040			~~0~~ ~~3,040~~ ~~0~~
608(3)	ASPHALT SIDEWALK	SQUARE YARD	2,925			$6,876 − ~~2,925~~ 687.6
608(6A)	REINFORCED CONCRETE SIDEWALK, TYPE A	SQUARE YARD	100			~~100~~ ~~0~~
608(6B)	REINFORCED CONCRETE SIDEWALK, TYPE B	SQUARE YARD	886			$5,709 − ~~886~~ 71.9
609(2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	9,050			$91,335. − ~~9,050~~ 2435.0
611(3)	SLOPE STABILIZATION	SQUARE YARD	2,000			~~2,000~~ ~~0~~
611(4)	SLOPE PROTECTION	SQUARE YARD	1,500			$1957.50 ~~1,500~~ 783

ESTIMATE OF QUANTITIES (CONT.)

ITEM No.	ITEM	UNIT	PROJECT No. 71811	KPU (WATER)	CITY OF KETCHIKAN	TOTAL
614(1)	SURVEY MONUMENTS	EACH	13			13
614(2)	MONUMENT CASES	EACH	13			13
615(1)	STANDARD SIGNS	SQUARE FOOT	260.44			~~260.44~~ 58.14
618(1)	SEEDING	ACRE	7.5			~~7.5~~ ~~0~~
619(2)	MATTING	SQUARE YARD	6,000			6,000
625(1)	PEDESTRIAN RAILING	LINEAR FOOT	~~736~~			~~736~~ ~~0~~
625(2)	BIKE RACK	EACH	2			2
626(1-6)	6-INCH SANITARY SEWER CONDUIT	LINEAR FOOT			100	100
626(1-8)	8-INCH SANITARY SEWER CONDUIT	LINEAR FOOT	~~168~~ 95.7		262	~~430~~ 95.7
626(2)	SANITARY SERVICE CONNECTION	EACH			3	3
627(1-8)	8-INCH DUCTILE IRON WATER CONDUIT	LINEAR FOOT		100		100
627(1-10)	10-INCH DUCTILE IRON WATER CONDUIT	LINEAR FOOT		~~400~~ 411.8		~~400~~ 411.8
627(1-12)	12-INCH DUCTILE IRON WATER CONDUIT	LINEAR FOOT		~~10~~ 33.3		~~10~~ 33.3
627(1-16)	16-INCH DUCTILE IRON WATER CONDUIT	LINEAR FOOT	1,750	~~3,250~~ 101.7		~~5,000~~ 101.7
627(3)	INSTALL VALVE BOX	EACH		10		~~10~~ 8
627(5)	FIRE HYDRANT INSTALLATION	EACH		10		10
627(9-8)	INSTALL 8-INCH GATE/BUTTERFLY VALVE	EACH		1		1
627(9-16)	INSTALL 16-INCH GATE/BUTTERFLY VALVE	EACH		12		~~12~~ 1
627(10)	ADJUSTMENT OF VALVE BOX	EACH	26			~~26~~ 19
627(11)	AIR RELEASE VALVE ASSEMBLY	EACH		~~2~~		~~2~~
627(12)	WATERLINE RECONSTRUCTION AT SCHOENBAR ROAD	LUMP SUM		ALL REQUIRED		ALL REQUIRED
627(13)	SEWER CROSSING ENCASEMENT	EACH		10		~~10~~ ~~0~~
635(1)	INSULATION BOARD	SQUARE FOOT	384	960		~~1,344~~ 64
637(1)	REINFORCED SLOPE	SQUARE FOOT	26,000			26,000
639(1)	RESIDENCE DRIVEWAYS	EACH	10			~~10~~ 3
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED			ALL REQUIRED
641(2)	EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(3)	SEDIMENT CONTROL FENCE	LINEAR FOOT	5,800			5,800
641(4)	TEMPORARY DITCH BLOCK	EACH	11			11
641(5)	STRAW BALE	EACH	20			20
641(6)	SEDIMENT MAT	SQUARE YARD	700			700
641(7)	TEMPORARY SEEDING	ACRE	3			3
641(8)	INLET CONTROL BARRIER	EACH	57			57
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642(2)	THREE PERSON SURVEY PARTY	HOUR	42	5	3	50
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(24)	TRAFFIC CONTROL DEVICES	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(25)	PUBLIC INFORMATIONAL PROGRAM	LUMP SUM	ALL REQUIRED			ALL REQUIRED
644(6)	ENGINEERING TRANSPORTATION	LUMP SUM	ALL REQUIRED			ALL REQUIRED
645(1)	TRAINING PROGRAM FOR 2 TRAINEE/APPRENTICE	LABOR HOUR	1,000			1,000
660(3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED			ALL REQUIRED
661(2)	LOAD CENTER, TYPE 2	EACH	2			2
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED			ALL REQUIRED
670(8)	RECESSED PAVEMENT MARKERS	EACH	108			108
670(9)	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED			ALL REQUIRED

BASIS OF ESTIMATE

ITEM No.	ITEM	ESTIMATING FACTOR
301(1)	CRUSHED AGGREGATE BASE COURSE	1.96 TONS/CY
401(1)	ASPHALT CONCRETE PAVEMENT	116 lbs/SY/INCH DEPTH OF ASPHALT CONCRETE
401(2)	PG 58-28 ASPHALT CEMENT	6% OF 401(1) & 4% OF 306(1)
402(2)	STE-1 ASPHALT FOR TACK COAT	0.10 GAL/SY, 233 GAL/TON

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Ktn\71811\Dr\-Est2.dwg Tue, 21/Dec/99 02:10pm
PLOT: FULL=1 or HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
ESTIMATE OF QUANTITIES

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 8 OF 93

STATE OF ALASKA — David D. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER

DRAINAGE STRUCTURE SUMMARY

STRUCTURE NUMBER	STATION	OFFSET	TOP OF GRATE/LID	STRUCT. INVERT	SUMP	REMARKS
S-1	"W" 14+00	12' LT	173.01	168.00	YES	INLET TYPE A
S-2	"W" 14+00	12' RT	173.01	167.50	YES	INLET TYPE A
S-3	"W" 13+27.08	12' LT	158.12	153.10	YES	INLET TYPE A
S-4	"W" 13+23.01	12' RT	157.23	151.60	YES	INLET TYPE A
S-5	"W" 12+63.06	10.55' RT	149.31	145.00	NO	48" MANHOLE
S-6	"W" 11+83.54	12.0' RT	130.70	123.00	YES	48" MANHOLE
S-7	"W" 11+63.54	12.0' LT	130.70	125.70	YES	INLET TYPE A
S-8	"O" 22+42.25	24.0' LT	149.00	147.50	YES	FIELD INLET TYPE A
S-9	"O" 22+42.25	15.5' RT	149.51	143.90	YES	INLET TYPE A
S-10	"O" 23+35.63	15.5' RT	156.73	149.40	YES	48" MANHOLE
S-11	"A" 10+61.00	12.0' LT	150.06	143.40	YES	48" MANHOLE
S-12	"A" 11+30.75	12.0' RT	140.89	135.20	YES	48" MANHOLE
S-13	"A" 11+58.19	11.77' RT	139.70	133.90	YES	48" MANHOLE
S-14	"A" 11+51.23	1.58' LT	139.64	133.50	NO	48" MANHOLE
S-15	"A" 11+49.64	12.0' LT	139.51	134.50	YES	INLET TYPE A
S-16	"O" 25+10.46	15.5' RT	168.58	146.40	YES	48" MANHOLE
S-17	"O" 26+29.13	15.5' RT	176.76	171.40	YES	48" MANHOLE
S-18	"O" 26+50	30.0' LT	177.00	172.00	YES	FIELD INLET TYPE A
S-19	"O" 27+29.44	26.0' LT	185.01	180.50	YES	INLET TYPE A
S-20	"O" 27+52.46	74.06' LT	184.25	179.50	YES	FIELD INLET TYPE A
S-21	"O" 27+79.67	15.5' RT	186.79	174.90	YES	48" MANHOLE
S-22	"O" 29+00	15.5' RT	192.87	187.50	YES	INLET TYPE A
S-23	"O" 30+50	15.5' RT	198.79	191.44	YES	INLET TYPE A
S-24	"O" 31+73	15.5' RT	203.68	193.46	YES	48" MANHOLE
S-25	"O" 33+62.21	15.5' RT	243.42	207.15	YES	48" MANHOLE
S-26	"O" 38+43.68	15.5' RT	241.85	236.03	YES	48" MANHOLE
S-27	"O" 39+57.99	15.5' RT	246.36	234.81	YES	48" MANHOLE
S-29	"O" 42+50	15.5' RT	246.46	232.78	YES	48" MANHOLE
S-30	"O" 44+00	15.5' RT	244.69	235.80	YES	48" MANHOLE
S-31	"O" 45+60	15.5' RT	247.25	239.02	YES	48" MANHOLE
S-32	"O" 49+00	15.5' RT	266.62	258.53	YES	48" MANHOLE
S-34	"O" 52+66	27.0' LT	280.45	275.45	YES	FIELD INLET TYPE A
S-35	"O" 53+09	15.5' RT	283.83	274.75	YES	48" MANHOLE
S-36	"O" 54+64	15.5' RT	282.43	273.12	YES	48" MANHOLE
S-37	"O" 55+78.57	15.5' RT	281.40	271.87	YES	48" MANHOLE
S-38	"O" 57+76	15.5' RT	284.70	279.70	YES	INLET TYPE A
S-39	"O" 61+63	36.0' LT	286.47	281.97	YES	FIELD INLET TYPE A Delete
S-40	"O" 61+63	15.5' RT	289.31	281.46	YES	48" MANHOLE Delete
S-41	"O" 64+50	36.0' LT	279.68	275.68	YES	FIELD INLET TYPE A Delete
S-42	"O" 64+50	15.5' RT	283.48	275.17	YES	48" MANHOLE Delete
S-43	"O" 67+00	15.5' RT	277.61	272.54	YES	48" MANHOLE Delete
S-44	"O" 69+94.96	15.5' RT	266.56	252.80	NO	48" MANHOLE Not installed – Keep as ewab inlet, delete P-56
S-45	"F" 10+37	26.09' LT	255.50	250.50	YES	FIELD INLET TYPE A Not Installed

STRUCTURE NUMBER	STATION	OFFSET	TOP OF GRATE/LID	STRUCT. INVERT	SUMP	REMARKS
S-46	"F" 10+40	12.5' LT	256.73	250.29	YES	INLET TYPE A Not Installed
S-47	"F" 10+40	12.5' RT	256.73	249.59	YES	INLET TYPE A Not Installed
S-48	"O" 72+00	15.5' RT	254.47	248.38	YES	INLET TYPE A Section to Subgrade (No Top)
S-49	"O" 73+31.70	15.5' RT	246.37	239.90	YES	48" MANHOLE
S-50	"O" 73+50	30.0' RT	242.79	238.19	YES	FIELD INLET TYPE A
S-51	"S" 10+45.99	23.79' RT	241.82	237.20	YES	INLET TYPE A
S-52	"O" 74+31.34	34.19' RT	239.59	234.49	YES	48" MANHOLE
S-53	"O" 75+11.19	15.5' RT	234.31	229.83	YES	INLET TYPE A
S-54	"O" 76+50	15.5' RT	225.67	216.40	YES	48" MANHOLE
S-55	"O" 78+65.75	15.5' RT	213.50	201.74	YES	48" MANHOLE
S-56	"O" 80+64.61	15.0' RT	212.92		YES	EXISTING INLET
S-57	"FW" 10+64.76	19.05' LT	218.40	213.90	YES	FIELD INLET TYPE A Delete
S-58	"FW" 11+16.48	12.0' RT	208.82	208.82	YES	48" MANHOLE
S-59	"FW" 11+67.34	12.0' LT	206.06	201.96	YES	48" MANHOLE
S-60	"FW" 12+29.31	12.0' RT	198.71	193.71	YES	INLET TYPE A

CONCRETE COLLAR AT PIPE ENDS

PIPE NUMBER	REMARKS
P-16	INLET END ONLY
P-23	INLET END ONLY
P-24	INLET END ONLY
P-26	INLET END ONLY
P-28	INLET END ONLY
P-30	INLET END ONLY
P-39	INLET END ONLY
P-41	INLET END ONLY
P-46	OUTLET END ONLY
P-47	INLET END ONLY
P-48	INLET END ONLY
P-53	OUTLET END ONLY Plan Deleted
P-54	INLET END ONLY
P-56	INLET END ONLY
P-66	INLET END ONLY
P-68	INLET END ONLY
56+05 Lt	24" extra CMP Inlet
	SEE SHEET 82 FOR CONCRETE COLLOR DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: [PlotStamp Eval] C:\Ktn\71811\Dr\-Sum2.dwg Tue, 21/Dec/99 02:28pm
PLOT: FULL=1 or HALF=2

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STATE OF ALASKA
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KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
SUMMARY OF QUANTITIES

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 9 OF 93

STATE OF ALASKA — David D. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER

DRAINAGE PIPE SUMMARY

PIPE NO.	TYPE	DIA.	LENGTH	FROM STRUCTURE/STATION	INVERT	TO STRUCTURE/STATION	INVERT	REMARKS
P-1	CPP	18"	26'	S-1	169.50	S-2	169.00	
P-2	CPP	18"	77'	S-2	167.30	S-4	166.50	
P-3	CPP	18"	26.3'	S-3	154.60	S-4	154.10	
P-4	CPP	18"	60'	S-4	153.10	S-5	140.58	
P-5	CPP	18"	99.6'	S-5	140.00	S-6	124.86	
P-6	CPP	18"	26'	S-7	127.20	S-6	126.40	
P-7	CPP	18"	29.5	S-9	145.40	S-8	145.00	
P-8	CPP	18"	40.5'	S-8	146.30	S-9	145.50	
P-9	CPP	24"	20.6'	S-10	150.90	S-11	145.00	
P-10	CPP	24"	69.3'	S-11	144.90	S-12	136.80	
P-11	CPP	24"	21.3'	S-12	136.70	S-13	135.50	
P-12	CPP	24"	15.8'	S-13	135.40	S-14	135.00	
P-13	CPP	18"	11.5'	S-15	136.00	S-14	135.70	
P-14	CPP	24"	173.6'	S-16	161.30	S-10	151.00	
P-15	CPP	36"	125'	"0" 23+95.65, 42.22' LT.	155.00	S-14	134.00	
P-16	CPP	24"	58.4'	"0" 25+34.03, 37.37' LT.	162.50	S-16	161.30	
P-17	CPP	24"	114.3'	S-17	172.90	S-16	161.40	
P-18	CPP	24"	51'	S-18	173.50	S-17	173.00	
P-19	CPP	18"	65.8'	S-19	182.00	S-21	180.00	
P-20	CPP	24"	94.9'	S-20	181.00	S-21	176.50	
P-21	CPP	24"	17.9'	S-21	176.40	"0" 27+84.23, 41.4' RT.	175.21	
P-22	CPP	18"	118.2'	S-22	189.00	S-21	176.50	
P-23	CPP	24"	69.0'	"0" 30+10.56, 27' LT.	194.21	"0" 29+74.82, 32.0' RT.	191.00	
P-24	CPP	24"	45.3'	"0" 30+37.22, 27' LT.	196.26	S-23	193.04	
P-25	CPP	24"	18.8'	S-23	192.94	"0" 30+58.07, 34' RT.	192.02	
P-26	CPP	24"	43.5'	"0" 31+73, 27' LT.	200.65	S-24	198.53	
P-27	CPP	24"	16.5'	S-24	198.43	"0" 31+73, 33' RT.	197.65	
P-28	CPP	24"	44.4'	"0" 33+70.97, 27' LT.	210.92	S-25	208.75	
P-29	CPP	24"	17.1'	S-25	208.65	"0" 33+58.57	207.91	
P-30	CPP	24"	62.3'	"0" 35+14.40, 27' LT.	219.52	"0" 34+98.67, 33.25' LT.	216.00	
P-31	CPP	24"	44'	"0" 38+38.21, 27.13' LT.	238.49	S-26	237.63	
P-32	CPP	24"	115.2'	S-26	237.53	S-27	236.41	
P-33	CPP	24"	31.8'	S-27	236.31	"0" 39+72, 46' RT.	233.70	
P-35	CPP	24"	108.6'	"0" 41+27.88, 33.25' LT.	238.00	"0" 42+00. 48' RT.	232.00	
P-36	CPP	24"	27.5'	S-29	234.28	"0" 42+50. 45' RT.	233.00	
P-37	CPP	24"	150'	S-30	237.30	S-29	234.38	
P-38	CPP	24"	160'	S-31	240.52	S-31	237.40	
P-39	CPP	24"	65'	"0" 45+60, 48.53' LT.	242.00	S-31	240.52	
P-40	CPP	24"	342.5'	S-32	260.03	S-31	248.62	
P-41	CPP	24"	52.5'	"0" 49+00, 36' LT.	261.16	S-32	260.13	
P-42	CPP	18"	80' 152' *	S-35	276.25	S-36	274.72	Pipe completed to 4+33+84, 80.0 from S-36
P-43	CPP	18"	61.2'	S-34	276.95	S-35	276.35	Not Installed
P-44	CPP	18"	114.6'	S-36	274.62	S-37	273.47	
P-45	CPP	18"	197.4' 197.5	S-38	281.20	S-37	277.71	
P-46	CPP	18"	60.4'	S-37	273.37	"0" 56+00, 40' LT.	270.50	
P-47 COPY	CPP	48" 24"	109.8 72' 69.6 67.9'	"0" 56+08.49, 44' LT.	268.00	"0" 56+08.49, 28' RT.	231.00	
P-48	CPP	24"	69.6 67.9'	"0" 58+65.01, 35' LT.	276.75	"0" 58+89.32, 28.39' RT.	273.36	
P-47B	CPP	24"	76.4	0-56+00, 44 Lt ±	270.00	0-56+00 24 Rt ±	267.0 ±	Overflow for P-47

DRAINAGE PIPE SUMMARY

PIPE NO.	TYPE	DIA.	LENGTH	FROM STRUCTURE/STATION	INVERT	TO STRUCTURE/STATION	INVERT	REMARKS
P-49	CPP	18"	291.3'	S-40	282.96	S-42	276.87	Deleted
P-50	CPP	18"	52.5'	S-39	283.47	S-40	283.06	Deleted
P-51	CPP	18"	255.6'	S-42	276.67	S-43	274.14	Deleted
P-52	CPP	18"	52.50'	S-41	277.18	S-42	276.77	Deleted
P-53	CPP	18"	64.9'	S-43	274.04	"0" 67+47, 28' LT.	273.50	Deleted
P-54	CPP	24"	58.6' 66	"0" 67+53.17, 30.11' LT.	272.00	"0" 67+59.44, 28.11' RT.	251.00	
P-55	CPP	24"	18.7'	S-44	254.30	"0" 69+89.80, 34.44 RT.	253.50	Keep
P-56	CPP	24"	55.4'	"0" 69+94.96, 38.88' LT.	257.00	S-44	254.40	Delete
P-57	CPP	18"	57.9'	S-47	251.09	S-48	249.98	Not Installed
P-58	CPP	18"	27.3	S-46	251.69	S-47	251.19	Not Installed
P-59	CPP	18"	12.9'	S-45	252.00	S-46	251.79	Not Installed
P-60	CPP	18"	129.2' 129.1	S-48	249.88	S-49	241.50	
P-61	CPP	18"	21.7 22.4'	S-49	241.40	S-50	239.79	
P-62	CPP	18"	24.4'	S-50	239.69	S-51	238.80	
P-63	CPP	18"	54.5 57.0'	S-51	238.70	S-52	236.09	
P-64	CPP	18"	74.5 77.8'	S-52	235.99	S-53	231.43	
P-65	CPP	18"	137.5 136.1'	S-53	231.33	S-54	218.10	
P-66	CPP	18"	78.0 68.4'	"0" 75+95.60, 60.02' RT.	219.00	S-54	218.00	
P-67	CPP	18"	211.4 212.8'	S-54	217.90	S-55	213.44	
P-68	CPP	18"	11.6 9.3'	"0" 78+63, 27.03' RT.	213.55	S-55	213.34	
P-69	CPP	18"	199.4 199'	S-55	213.24	S-56	Match	
P-70	CPP	18"	55.2'	S-57 Deleted	215.40	S-58	210.42	
P-71	CPP	18"	55.2 55.1'	S-58	210.32	S-59	203.56	
P-72	CPP	18"	65.1 65.9'	S-59	203.46	S-60	195.21	
P-73	CPP	18"	40.0 39.3	"0" 69+45.44 36' LT.	266.00	"0" 69+84.72, 36' LT.	264.00	

UTILITY PIPE SUMMARY

P-28A	CMP	12"	140'	"0" 33+50, 30' LT.	210.50	"0" 33+50, 110' RT.	156.00	*
P-31A	CMP	12"	60'	"0" 38+60, 30' LT.	240.00	"0" 38+60, 30' RT.	238.00	*
P-35A	CMP	120"	100'	"0" 43+57.15, 43.96' LT.	242.00	"0" 44+05.03, 43.83' RT.	196.0	CONSTRUCT WITH HEADWALL TYPE 11 (BOTH ENDS) CONFORMING TO STD.DWG. D-30.01
P-47A	CMP	12"	100 63'	"0" 56+25, 35' LT.	270.00	"0" 56+25, 28' RT.	232.00	*
P-48A	CMP	12"	62 78'	"0" 58+00, 30' LT.	282.50	"0" 58+00, 40' RT.	281.00	*

* BOTH ENDS SHALL BE CAPPED SO THAT SOIL OR OTHER DEBRI ARE PREVENTED FROM ENTERING THE PIPE. A 4x4 PRESSURE TREATED WOOD (8' LONG) WITH ORANGE FLAGGING SHALL BE BURIED AT BOTH ENDS TO IDENTIFY THE PIPE END LOCATIONS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Ktn\71811\Dr\-Sum6.dwg Tue, 21/Dec/99 02:29pm
PLOT: FULL=1 or HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1)~ PROJECT No. 71811

SUMMARY OF QUANTITIES

DESIGNED BY: D. Saldivar	71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: C. Morrow	SHEET 10 OF 93

STATE OF ALASKA — Edward D Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

CULVERT REMOVAL SUMMARY

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	TYPE	SIZE	LENGTH	REMARKS
~~"W" 13+13.0~~	~~12.6' LT.~~	~~"W" 13+02.1~~	~~10.4' RT.~~	~~CMP~~	~~18"~~	~~28'~~	
~~"W" 13+22.6~~	~~11.0' RT.~~	~~"W" 12+72.0~~	~~13.4' RT.~~	~~CMP~~	~~24"~~	~~61'~~	
~~"G" 24+02.9~~	~~62.1' RT.~~	~~"G" 24+07.0~~	~~82.4' RT.~~	~~CMP~~	~~36"~~	~~21'~~	
"O" 75+22.8	42.2' RT.	"O" 75+35.1	72.9' RT.	CMP	18"	33'	34.5
"O" 75+35.1	72.9' RT.	"O" 75+38.9	82.5' RT.	CMP	18"	10'	10.3
"O" 75+97.9	11.0' LT.	"O" 75+93.9	59.9' RT.	CMP	36"	71'	75.0
"O" 77+63.6	26.9' LT.	"O" 77+80.3	30.0' RT.	CMP	36"	60'	64.1
"O" 78+47.5	16.1' LT.	"O" 78+65.6	16.2' RT.	CMP	24"	37'	38.5
"O" 78+65.6	16.2' RT.	"O" 78+64	25.1' RT.	CMP	24"	9'	10
'D' 78+65.8	15.5' Rt	'D' 80+64.6	15.0 Rt	CMP	12"	Not on Plans	199.1
'O' 78+70	17.0 Rt	'O' 79+40	17 Rt	CMP	TOTAL= ~~380'~~		501.5 Total
				↳	24"	Not on Plans	70.0

REMOVAL OF STRUCTURES AND OBSTRUCTION

Red Line=items Not Completed

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	REMARKS
~~"G" 21+40.4~~	~~10.3' LT.~~			~~APPROX. 20'x9' CONCRETE VAULT W/CONC. RETAINING WALL~~
~~"G" 21+50.7~~	~~7.4' LT.~~			~~POST~~
~~"G" 21+51.7~~	~~10.4' LT.~~			~~UTILITY BOX~~
~~"G" 22+17.3~~	~~10.3' LT.~~	~~"G" 20+46.9~~	~~24.3' RT.~~	~~APPROX. 59' OF CONCRETE RETAINING WALL, APPROX. 2' TO 4.5' HIGH.~~ 2.5' OF ROCKERY ON TOP OF RETAINING WALL
"O" 72+76	83.0' RT.	"O" 75+28	24.6' RT.	APPROX. 252' OF PIPE HANDRAIL
"O" 75+44	78.3' LT.	"O" 77+88	20.7' LT.	APPROX. 287' OF PIPE HANDRAIL
~~"A" 10+30.0~~	~~9.8' LT.~~	~~"A" 11+04.4~~	~~14.1' LT.~~	~~APPROX. 69' OF CONCRETE RETAINING WALL, APPROX. 6'-6.5' HIGH.~~
~~"A" 11+27.9~~	~~6.40' LT.~~	~~"A" 11+47.5~~	~~20.2' LT.~~	~~APPROX. 25' OF GUARDRAIL~~
~~"W" 12+90.5~~	~~15.1' RT.~~	~~"W" 13+10.2~~	~~13.0' RT.~~	~~APPROX. 20' OF ROCKERY WALL, APPROX. 3' HIGH.~~
~~"W" 13+10.2~~	~~13.0' RT.~~	~~"W" 13+38.2~~	~~19.2' RT.~~	~~APPROX. 28' OF CONCRETE RETAINING WALL, APPROX. 2.5' HIGH,~~ ~~WITH PIPE RAILING ON TOP OF RETAINING WALL~~
"O" 22+67	23' LT.	2222	3RD AVE.	1 1/2 STORY WOOD FRAME HOUSE WITH CONCRETE FOUNDATION AND CONCRETE SLAB AT BASEMENT *** Portion of Concrete Foundation & a 4'x5' dia. Steel boiler Remain
"O" 23+60	23' LT.	2204	3RD AVE.	1 1/2 STORY WOOD FRAME HOUSE WITH CONCRETE FOUNDATION AND CONCRETE SLAB AT BASEMENT AND ATTACHED CARPORT ***
"O" 24+43	9' RT.	2152	3RD AVE.	1 1/2 STORY WOOD FRAME HOUSE WITH CONCRETE BLOCK FOUNDATION AND CONCRETE SLAB AT BASEMENT, ATTACHED CARPORT AND LARGE SHED ON PILING ***
"O" 74+41	106' LT.	1932	FAIRY CHASM	TRI-LEVEL WOOD FRAME HOUSE ***

*** A MORE DETAILED DESCRIPTION OF THE HOMES ARE AVAILABLE BY CONTACTING MR. FRANK MIELKE, RIGHT OF WAY CHIEF, AT (907) 465-4541. THE TWO RESIDENTAL HOMES LOCATED WITHIN THE ROADWAY PRISM (# 1944 AND 1937/1938 FAIRY CHASM ROAD) AND A OFFICE TRAILER AT STA. 72+50, RT. WILL BE REMOVED BY OTHERS.

4' Chain Link Fence (Bow CO. #11)

~~PEDESTRIAN RAILING INSTALLATION SUMMARY~~

(SEE SHEET 69 FOR DETAILS)

FROM STATION	FROM OFFSET LEFT	FROM OFFSET RIGHT	TO STATION	TO OFFSET LEFT	TO OFFSET RIGHT	LENGTH	REMARKS
~~"G" 23+98~~ 3 11+45	16.0	~~23.50'~~	~~"O" 24+50~~ 77+95		~~23.50'~~ 18	199.9 ~~52.0'~~	
"O" 73+20 20		23.50'	"O" 75+50		23.50'	~~180.0'~~	
"O" 73+48 20	23.50'		"O" 76+24 25	23.50'		314 ~~276.0'~~	
* "O" 76+86.18	23.50'		"O" 78+00	23.50'		~~113.82'~~	
* ~~"FW" 10+18.75~~	10+35	31.45'	~~"FW" 10+28.41~~	0'77+95 5+34	~~18.50'~~	142 ~~11.66'~~	CURVE SECTION, 19.50' RADIUS
* ~~"FW" 10+28.41~~ 10+80		18.50'	"FW" 11+30.93		18.50'	49.6 ~~102.52'~~	CURVE SECTION, 78.50' RADIUS
					TOTAL=	705.0 ~~736.00'~~	

* THESE SECTIONS ARE CONTINUOUS.

CURB CUT SUMMARY

** STATION	** OFFSET LEFT	** OFFSET RIGHT	DETAIL	WIDTH	REMARKS
"O" 20+42.27		20'	II	12.0'	DRIVEWAY
"O" 20+67.54		14'	III	14.5'	DRIVEWAY
"O" 21+82.08		21.84'	V	8.0'	WHEELCHAIR
"O" 22+21.55	25.99'		IV	5.0'	WHEELCHAIR
"O" 22+23.23		24.47'	IV	5.0'	WHEELCHAIR
"O" 22+79.10		20.97'	V	8.0'	WHEELCHAIR
"O" 23+21.76		19.65'	IV	5.0'	WHEELCHAIR
"O" 64+80		17.0'	II	24'	DRIVEWAY
"O" 66+00		17.0'	II	24'	DRIVEWAY
"O" 71+46.33	22.01'		IV	5.0'	WHEELCHAIR
~~"O" 71+94.07~~	~~22.01'~~		IV	5.0'	WHEELCHAIR
"O" 73+43.93	17.00'		IV	5.0'	WHEELCHAIR
"O" 73+43.93		17.00'	IV	5.0'	WHEELCHAIR
"O" 76+21.36	18.50'		V	8.0'	WHEELCHAIR
"O" 76+72.62	22.03'		IV	5.0'	WHEELCHAIR
"O" 79+11.56		17.00'	III	34.0'	DRIVEWAY
"O" 80+37.55	22.50'		IV	5.0'	WHEELCHAIR
~~"A" 11+62.79~~		10.62'	V	8.0'	WHEELCHAIR
~~"A" 11+39.95~~	17.55'		IV	5.0'	WHEELCHAIR
~~"A" 11+83.20~~	14.27'		IV	5.0'	WHEELCHAIR
~~"T" 10+58.50~~	26.50'		VI	5.0'	WHEELCHAIR
"FW" 12+16.23	13.50'		III	16.0'	DRIVEWAY Delete
"FW" 12+43.79		13.50'	II	18.0'	DRIVEWAY
~~"W" 13+33.46~~	13.50'		III	18.0'	DRIVEWAY
~~"W" 13+49.3~~		13.50'	III	16.0'	DRIVEWAY

** STATION AND OFFSET ARE MEASURED TO FACE OF CURB.

RESIDENCE DRIVEWAYS

STATION	OFFSET LEFT	OFFSET RIGHT	LENGTH	REMARKS
~~"O" 20+42.27~~		X		DRIVEWAY
~~"O" 20+67.54~~	X			DRIVEWAY
~~"O" 23+31~~	X			LANDING AT STAIRWAY
~~"O" 52+58.50~~	X			PAD FOR TRAILHEAD
"O" 69+85	X			DRIVEWAY Completed TO Subgrade
"O" 79+11.56		X		DRIVEWAY Completed TO Subgrade
~~"W" 13+33.46~~	X			DRIVEWAY
~~"W" 13+49.30~~		X		DRIVEWAY
~~"FW" 12+16.23~~	X			DRIVEWAY
"FW" 12+43.99		X		DRIVEWAY Completed

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Ktn\71811\Dr\-SUM1.dwg Tue, 21/Dec/99 02:30pm	STATE OF ALASKA	KETCHIKAN THIRD AVENUE EXTENSION ALASKA
PLOT: FULL=1 or HALF=2	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	STP-MG-0904(1)~ PROJECT No. 71811
BY: / DATE: / DESCRIPTION OF CHANGE:	SOUTHEAST REGION	MISCELLANEOUS SUMMARIES
RECORD OF REVISIONS		DESIGNED BY: D. Saldivar; DRAWN BY: B. Bennett; CHECKED BY: D. Saldivar; PROJECT NO. 71811; DATE: July, 1999; SHEET 11 OF 93

STATE OF ALASKA — 49th — David D Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

STANDARD SIGNING SCHEDULE

SIGN No.	STATION	OFFSET LT.	OFFSET RT.	CODE No. (ASDS)	LEGEND	SIZE H	SIZE W	AREA S.F.	POST SIZE	FACING TRAFFIC	REMARKS
(1)	"0"21+82		30'	R1-1	STOP	30"	30"	6.25	2.5"	EB	
(2)	"0"21+82		30'	D3-1	3RD AVE	6.75"	24"	1.13		NB/SB	MOUNT ON SAME POST 1
(3)	"0"21+82		30'	D3-1	WASHINGTON ST	6.75"	36"	1.69		WB/EB	MOUNT ON SAME POST 1
(4)	"0"22+30		30'	R1-1	STOP	30"	30"	6.25	2.5"	WB	
(5)	"0"22+30		30'	D3-1	3RD AVE	6.75"	24"	1.13		NB/SB	MOUNT ON SAME POST 4
(6)	"0"22+30		30'	D3-1	WASHINGTON ST	6.75"	36"	1.69		WB/EB	MOUNT ON SAME POST 4
(7)	"0"23+25		27'	R1-1	STOP	30"	30"	6.25	2.5"	NB	
(8)	"A"10+24	26'		R1-1	STOP	30"	30"	6.25	2.5"	EB	
(9)	"A"11+55	21'		R1-1	STOP	30"	30"	6.25	2.5"	WB	
(10)	"0"24+60		25'	R2-1	SPEED LIMIT 35	36"	30"	7.50	2.5"	EB	
(11)	"0"25+60		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(12)	"0"24+22	26'		R2-1	SPEED LIMIT 25	36"	30"	7.50		WB	MOUNT ON LIGHT POLE No. 3
(13)	"0"23+60	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(14)	"0"23+75		25'	D11-1	BIKE ROUTE	18"	24"	3.00	2.5"	EB	
(15)	"0"26+95	25'		R1-1	STOP	30"	30"	6.25	2.5"	SB	
(16)	"0"27+30	25'		R6-1(R)	ONE WAY	12"	36"	3.00	2.5"	EB	
(17)	"0"27+30			R6-1(L)	ONE WAY	12"	36"	3.00	2.5"	WB	MOUNT BACK TO BACK WITH 16
(18)	"0"28+50		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(19)	"0"29+32	23'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00		WB	MOUNT ON LIGHT POLE No. 6
(20)	"0"27+75	25'		R7-101	NO PARKING 10:00 PM TO 6:00 AM	18"	12"	1.50	2.5"	SB	
(21)	"0"28+62	25'		R7-101	NO PARKING 10:00 PM TO 6:00 AM	18"	12"	1.50	2.5"	SB	
(22)	"0"29+50	25'		R7-101	NO PARKING 10:00 PM TO 6:00 AM	18"	12"	1.50	2.5"	SB	
(23)	"0"29+75	25'		R6-1L	ONE WAY	12"	36"	3.00	2.5"	EB	
(24)	"0"29+75			R6-1R	ONE WAY	12"	36"	3.00	2.5"	WB	MOUNT BACK TO BACK WITH 23
(25)	"0"38+00		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(26)	"0"38+00	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(27)	"0"48+00		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(28)	"0"48+00	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(29)	"0"61+00		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(30)	"0"61+00	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(33)	"0"69+00	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(34)	"0"69+87	26'		R2-1	SPEED LIMIT 35	36"	30"	7.50	2.5"	WB	MOUNT ON LIGHT POLE No. 11
(35)	"0"70+00		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(36)	"0"71+00		25'	R2-1	SPEED LIMIT 25	36"	30"	7.50	2.5"	EB	
(37)	"0"71+60	25'		R1-1	STOP	30"	30"	6.25	2.5"	SB	
(38)	"0"72+80	25'		D11-1	BIKE ROUTE	18"	24"	3.00	2.5"	WB	
* (39)	"0"74+40		32'	R1-1	STOP	30"	30"	6.25	2.5"	NB	
(40)	"0"74+40		32'	D3-1	3RD AVE	6.75	24"	1.13		NB/SB	MOUNT ON SAME POST 38
(41)	"0"74+40		32'	D3-1	SCHOENBAR RD	6.75	36"	1.69		EB/WB	MOUNT ON SAME POST 38
(42)	"S"11+50		20'	W7-1	TRUCK SYMBOL	36"	36"	9.00	2.5"	WB	
✓	"S"11+50		20'		HILL	18"	24"	3.00		WB	MOUNT ON SAME POST 42
(43)	"0"76+50		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(44)	"0"77+50		25'	R2-1	SPEED LIMIT 25	36"	30"	7.50	2.5"	EB	
(45)	"0"76+25	X		R1-1	STOP	30"	30"	6.25	2.5"	SB	
(46)	"0"76+25	X		D3-1	3RD AVE	6.75	24"	1.13		NB/SB	MOUNT ON SAME POST 45
(47)	"0"76+25	X		D3-1	W FAIRY CHASM	6.75	36"	1.69		EB/WB	MOUNT ON SAME POST 45
(48)	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(49)	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(50)	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(51)	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(52)	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(53)	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(54)	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(55)	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(56)	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
(57)	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
(58)	"0"75+50		25'	D11-1	BIKE ROUTE	18"	24"	3.00	2.5"	WB	
(59)	PARK AVE	25'		D11-1	BIKE ROUTE	18"	24"	3.00	2.5"	NB	
							TOTAL=	260.44			

Note:

* 2 extra STOP signs @ "0" 80+25/36' ℄ "S" 12+60, 25' LT
✓ indicates sign installed

* SIGNS SHALL BE SPACED EQUALLY AT LOCATIONS TO BE DETERMINED BY THE ENGINEER BETWEEN STATIONS "0" 80+50 AND STATIONS "0" 114+50.

GENERAL SIGNING NOTES

1. SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
2. SEE STD. DWG. S-30.01 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
3. SALVAGED SIGNS AND REPLACED SIGN PANELS SHALL BE DELIVERED TO THE CITY OF KETCHIKAN AT 3915 TONGASS AVE.
4. WHERE SIGNS ARE TO BE LOCATED ON THE DOWNHILL SIDE OF THE STREET, IN AREAS THAT HAVE RETAINING WALLS AT THE BACK OF SIDEWALKS, THE SIGNS SHALL BE MOUNTED TO THE SIDE OF THE RETAINING WALL.
5. PT POST TYPE STANDS FOR PERFORATED STEEL TUBE WITH A POST SLEEVE FOR EMBEDMENT.
6. ALL SIGN POSTS SHALL BE TELESCOPING PERFORATED GALVANIZED SQUARE STEEL POSTS OR 6"x6" TREATED WOOD POSTS.
7. ALL NEW SIGNS SHALL BE UNFRAMED EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
8. ALL D3-1 STREET SIGNS HAVE THE LEGEND ON BOTH SIDES.
9. SIGNS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN PANEL IS 7 FEET ABOVE THE ROADWAY SURFACE.
9. FOR SIGN LOCATION PURPOSES 3RD AVE. IS ASSUMED TO GO EB/WB.
10. FOR SIGN LOCATION PURPOSES 3RD AVE. IS ASSUMED TO BE EB/WB DIRECTION.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: Q:\KTN\71811\DR\-Signsum
PLOT: FULL=1 or HALF=2

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
ROADWAY SIGNING SUMMARIES

DESIGNED BY: M. Lukshin	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: M. Lukshin	SHEET 12 OF 93

STATE OF ALASKA — 49th — Michael Lukshin — CE-8737 — REGISTERED PROFESSIONAL ENGINEER

BOARDWALK (SEE SHEET 70 FOR DETAILS)

STATION	LENGTH	REMARKS
"RT" 15+26	50.0'	
"RT" 28+46	25.0'	

ELEVATED BOARDWALK (SEE SHEET 71 FOR DETAILS)

STATION	LENGTH	REMARKS
"RT" 13+26	40.0'	
"RT" 15+26	25.0'	
"RT" 17+76	10.0'	
"RT" 21+75	10.0'	
"RT" 22+00	25.0'	WITH HANDRAIL
"RT" 23+00	60.0'	WITH HANDRAIL
"RT" 23+76	40.0'	WITH HANDRAIL
"RT" 29+46	25.0'	WITH HANDRAIL

TIMBER BRIDGE (SEE SHEET 74 & 75 FOR DETAILS)

STATION	LENGTH	REMARKS
"RT" 16+61	20.0'	

PLANK STEPS (SEE SHEET 72 FOR DETAILS)

STATION	LENGTH	REMARKS
"RT" 11+00	100.0'	
"RT" 13+26	50.0'	
"RT" 15+26	25.0'	
"RT" 16+61	20.0'	INSTALL 10' EACH END OF THE TIMBER BRIDGE, WITH HANDRAIL
"RT" 17+76	100.0'	INSTALL 50' EACH END OF THE ELEVATED BOARDWALK
"RT" 22+50	100.0'	WITH HANDRAIL
"RT" 25+76	15.0'	WITH HANDRAIL
"RT" 30+26	20.0'	WITH HANDRAIL

LOG STEPS (SEE SHEET 73 FOR DETAILS)

STATION	LENGTH	REMARKS
"RT" 12+50	100.0'	
"RT" 32+26	100.0'	

GRAVEL PATH (SEE SHEET 73 FOR DETAILS)

STATION	LENGTH	REMARKS
"RT" 25+00	50.0'	
"RT" 33+26	150.0'	
"RT" 37+62	320.0'	

INTERPETIVE SIGN SUPPORT (SEE SHEET 72 FOR DETAILS)

STATION	OFFSET		REMARKS
	LT.	RT.	
"0" 27+43	74.0'		
"RT" 10+10	X		
"RT" 21+00		X	
"RT" 34+00		X	
"R" 10+36	5.0'		
"F" 10+55	39.5'		

TIMBER HANDRAIL (SEE SHEET 73 FOR DETAILS)

STATION	LENGTH	REMARKS
"RT" 35+50	50.0'	
"RT" 38+75	60.0'	

SLOPE STABILIZATION (SEE SHEET 81 FOR DETAILS)

FROM		TO		REMARKS
STATION	OFFSET	STATION	OFFSET	
"0" 30+75	LT.	"0" 34+75	LT.	INSTALL AT CUT BACKSLOPE

NOTE:
STATION AND OFFSET ARE ONLY APPROXIMATE AND MAYBE ADJUSTED AS REQUIRED BY THE ENGINEER.
OTHER LOCATIONS MAY REQUIRE SLOPE STABILIZATION AS REQUIRED BY THE ENGINEER.

PERMANENT ROCK CATCHMENT BARRIER

FROM		TO		LENGTH	HEIGHT	DESIGN LOAD	REMARKS
STATION	OFFSET	STATION	OFFSET				
"0" 44+00	117' LT.	"0" 44+85	132' LT.	86'	12'	120-FT TONS	
"0" 44+85	132' LT.	"0" 45+40	105' LT.	61'	12'	120-FT TONS	
"0" 45+40	105' LT.	"0" 46+40	130' LT.	103'	12'	120-FT TONS	
"0" 46+40	130' LT.	"0" 47+40	120' LT.	100'	12'	120-FT TONS	
"0" 47+40	120' LT.	"0" 48+50	113' LT.	110'	12'	120-FT TONS	
"0" 48+50	113' LT.	"0" 49+00	82' LT.	59'	12'	120-FT TONS	
"0" 49+00	82' LT.	"0" 51+50	62' LT.	251'	12'	120-FT TONS	
"0" 51+50	62' LT.	"0" 52+00	40' LT.	55'	12'	120-FT TONS	
"0" 52+00	40' LT.	"0" 52+50	36' LT.	50'	12'	120-FT TONS	
"0" 52+63	48' LT.	"0" 53+50	55' LT.	87'	12'	120-FT TONS	
"0" 53+50	55' LT.	"0" 55+25	40' LT.	176'	12'	120-FT TONS	

NOTE:
STATION AND OFFSET ARE ONLY APPROXIMATE AND MAYBE ADJUSTED AT THE ENGINEERS APPROVAL.

MATTING

FROM		TO		REMARKS
STATION	OFFSET	STATION	OFFSET	
"0" 21+75	LT.	"0" 23+00	LT.	INSTALL AT CUT BACKSLOPE
"0" 31+75	LT.	"0" 32+75	LT.	INSTALL AT CUT BACKSLOPE
"0" 38+25	LT.	"0" 40+50	LT.	INSTALL AT CUT BACKSLOPE
"0" 69+25	LT.	"0" 69+75	LT.	INSTALL AT CUT BACKSLOPE

NOTE:
OTHER AREAS MAY REQUIRE MATTING AS REQUIRED BY THE ENGINEER. STATIONING ARE ONLY APPROXIMATE AND MAY REQUIRE ADJUSTMENT AS NEEDED TO BETTER FIT FIELD CONDITIONS.

TEMPORARY ROCK CATCHMENT BARRIER

FROM		TO		LENGTH	HEIGHT	DESIGN LOAD	REMARKS
STATION	OFFSET	STATION	OFFSET				
* "0" 24+00	RT.	"0" 44+00	RT.	2000'	6'	60-FT TONS	INSTALL AT TOE OF FILL
* "0" 44+00	RT.	"0" 50+00	RT.	600'	10'	120-FT TONS	INSTALL 25' TO THE RIGHT OF THE RETAINING WALL
* "0" 44+00	RT.	"0" 50+00	RT.	600'	10'	120-FT TONS	INSTALL APPROXIMATELY AT R.O.W. LINE BELOW THE FIRST TEMPORARY ROCK BARRIER
* "0" 50+00	RT.	"0" 52+50	RT.	250'	10'	120-FT TONS	INSTALL 5' TO 10' RIGHT OF THE TOP OF CUT
* "0" 55+00	RT.	"0" 56+50	RT.	150'	6'	60-FT TONS	INSTALL BETWEEN CONSTRUCTION AREA AND HOUSES BELOW
"0" 56+50	RT.	"0" 60+50	RT.	400'	6'	60-FT TONS	INSTALL BETWEEN CONSTRUCTION AREA AND HOUSES BELOW
"0" 60+50	RT.	"0" 64+50	RT.	400'	6'	35-FT TONS	INSTALL BETWEEN CONSTRUCTION AREA AND HOUSES BELOW
"0" 64+50	RT.	"0" 70+00	RT.	550'	6'	35-FT TONS	INSTALL BETWEEN CONSTRUCTION AREA STRUCTURES AND ROADS BELOW
				5,198.0 LF Total installed			* Notes Fence that is still in place

NOTE:
STATION AND OFFSET ARE ONLY APPROXIMATE AND MAYBE ADJUSTED AT THE ENGINEERS APPROVAL.
TEMPORARY AND PERMANENT ROCK CATCHMENT BARRIER SHALL BE INSTALLED WITHIN THE RIGHT OF WAY BOUNDARY.

* Note: Contractor Proposal for a log Wall Catchment Fence was accepted.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Ktn\71811\Dr\-Sum4.dwg Tue, 21/Dec/99 02:33pm
PLOT: FULL=1 or HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
MISCELLANEOUS SUMMARIES

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 13 OF 93

STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIER (SEE SHEET 63 FOR DETAILS)

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH	HEIGHT	DESIGN LOADING
"O" 23+80	RT.	"O" 26+10	* RT.	230'	8'	B1
"O" 26+10	RT.	"O" 28+10	* RT.	200'	6'	B1

TEMPORARY DITCH BLOCKING SUMMARY (SEE SHEET 74 FOR DETAILS)

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
"O" 24+30	X		
"O" 26+45	X		
"O" 30+70	X		
"O" 34+00	X		
"O" 35+50	X		
"O" 38+90	X		
"O" 41+55	X		
"O" 56+50	X	75' Rt	
"O" 59+00	X		
"O" 67+50	X		
"O" 70+00	X		Ditch @ Schoonman Bypass

CONCRETE BARRIER (SEE SHEET 34 & 41 FOR DETAILS)

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH	TYPE	REMARKS
"A" 10+37	RT.	"A" 11+27	RT.	90'	A	FOR RETAINING WALL #1
"O" 24+50	RT.	"O" 25+75	RT.	125'	B	FOR RETAINING WALL #2
"O" 43+00	RT.	"O" 50+00	RT.	700'	B	FOR RETAINING WALL #3
"O" 54+00	RT.	"O" 56+50	RT.	250'	B	FOR RETAINING WALL #4
"O" 58+50	RT.	"O" 59+90	RT.	140'	B	FOR RETAINING WALL #5
"O" 66+75	RT.	"O" 67+75	RT.	100'	B	FOR RETAINING WALL #6
"FC" 10+35	RT.	"FC" 10+80	RT.	45'	B	FOR RETAINING WALL #8

** SELECTIVE TREE REMOVAL

STATION	OFFSET LEFT	OFFSET RIGHT	TREE HAZARD SITE NO.	REMARKS
"O" 24+48		56'	T-009	2 TREES
"O" 25+72		131'	T-010	2 TREES
"O" 27+99		67'	T-011	2 TREES
"O" 28+56		58'	T-012	4 TREES
"O" 35+99		96'	T-001	4 TREES
"O" 36+74		220'	T-002	1 TREE
"O" 38+60		193'	T-003	4 TREES
"O" 43+24		102'	T-005	1 TREE
"O" 47+13		99'	T-008	2 TREES
"O" 49+34		80'	T-006	2 TREES
"O" 50+29		132'	T-007	1 TREE
"O" 53+91		85'	T-014	1 TREE
"O" 56+70		103'	T-013	1 TREE
"O" 57+28		149'	T-015	1 TREE
"O" 57+73		185'	T-016	1 TREE

* FACE OF NOISE BARRIER SHALL BE LOCATED SO THAT IT MATCHES THE BACK OF SIDEWALK.

** HAZARDOUS ROCKS AND TREES LOCATED OUTSIDE OF THE RIGHT OF WAY SHALL NOT BE REMOVED OR SECURED UNTIL THE PROJECT ENGINEER OBTAINED THE TEMPORARY CONSTRUCTION PERMIT FROM THE PROPERTY OWNER. SEE VOLUME III OF THE PHASE II GEOTECHNICAL INVESTIGATION FOR DETAILED DESCRIPTION OF HAZARDOUS TREES AND ROCKS.

VALVE BOX ADJUSTMENT SUMMARY (SEE SHEET 80 FOR DETAILS)

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
"O" 20+38		12.0'	S - 12+15 / ℄
"O" 20+60		7.5'	S - 12+65 / 5 Rt
"O" 21+06.2		17.4'	S - 12+70 / 5 Rt (2 Valves)
"O" 21+31.7		22.2'	S 12+80 / 5 Rt
"O" 21+93		7.0'	S 12+80 / 12 Rt
"O" 21+93		13.5'	S 12+80 / 45 Lt
"O" 21+90		10.5'	S 12+75 / 40 Lt (2 Valves)
"O" 21+96		10.5'	S 13+00 / 12 Rt (3 Valves
"O" 21+96		4.5'	
"W" 12+42.7	17.9'		
"W" 12+40.4	9.9'		
"W" 12+42.7	9.2'		
"W" 12+40.8	6.7'		
"W" 13+00	8.5'		
"W" 13+35.5	10.3'		
"O" 76+08.97+80	8.8 7'		
"O" 77+97.1	7.7 25'		
"O" 78+26.7	15.5'		
"O" 78+73.2	6.0' 3'		
"W" 11+87.3		9.5'	FW 12+18 / 7 Lt
"A" 11+79.9	3.6'		FW 12+55 / 10 Rt
"A" 11+79.8	4.4'		FW 13+60 / 10 Rt
"A" 11+83.6	4.4'		
"A" 11+85.1	7.1'		
"A" 11+84.8	14.1'		
"A" 11+86.1	19.1'		19 Total

CHAIN-LINK FENCE (SEE STD. DWG. F-01.01)

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH	HEIGHT	REMARKS
"O" 25+75	23.5' RT.	"O" 43+00	23.5' RT.	1725'	6'	
"O" 43+00	28' RT.	"O" 50+00	28' RT.	700'	6'	
"O" 50+00	23.5' RT.	"O" 50+30	23.5' RT.	30'	6'	
"O" 52+30 53+90	23.5' RT.	"O" 54+00 54+70	23.5' RT.	288 170'	6'	Wall 4 (To be Removed)*
"O" 56+50 58+30	23.5' RT.	"O" 56+80 60+45	23.5' RT.	237' 30'	6'	Wall 5 (To be Removed)*
"O" 59+00	23.5' RT.	"O" 59+50	23.5' RT.	50'	6'	
"O" 59+90 72+10	25' 23.5' RT.	"O" 61+50	22 23.5' RT.	47 160'	6'	End of Pavement (To be Removed)
"O" 66+50 66+38	23.5' RT.	"O" 68+50 68+	15 23.5' RT.	156' 200'	6'	Wall 6 (To be Removed)*
±0' 49+50		±0' 51+50		225'	6'	Top of White Cliffs (To be Removed)
				TOTAL 3065'	953.5	

INSULATION BOARD SUMMARY (SEE SHEET 80 FOR DETAILS)

LOCATION Storm Pipe Crossing Over or Under Water & Sewer Line	REMARKS
P-1	
P-3	
P-4	
P-6	
P-8	
P-18	
P-19	
P-20	
P-23	
P-24	
P-26	
P-28	
P-30	
P-31	
P-39	
P-41	
P-45	
P-49	
P-52 P-69 'O' 78+75, 24 Rt	Freehold Line
P-66 P-71 FW 11+60, 5' Lt	Water Line

CENTERLINE MONUMENTS

STATION	REMARKS
"O" 23+00	POT
"O" 24+60.54	PC
"O" 28+28.59	PT
"O" 35+29.37	PC
"O" 38+75.52	PT
"O" 40+40.45	PC
"O" 42+93.59	PT
"O" 47+52.33	PC
"O" 52+48.49	PT
"O" 62+23.46	PC
"O" 67+26.33	PT
"O" 69+96.77	PC
"O" 77+92.64	PT

SLOPE PROTECTION @ PIPE END

PIPE NO.	SLOPE PROTECTION TYPE	REMARKS
R-21	II	
P-23	I	
P-25	I	
P-27	I	
P-29	I	
P-30	I	
P-33	I	
P-35	I	
P-36	I	
P-47	II	
P-48	II	
P-54	II	
P-55	I	Det in

NOTE: SEE SHEET 81 FOR DETAILS

** REMOVAL / SECURING OF HAZARDOUS ROCKS

"O" STATION	ROCK NO.	OFFSET LEFT	OFFSET RIGHT	"O" STATION	ROCK NO.	OFFSET LEFT	OFFSET RIGHT
24+00	R-048	150'		47+45	R-065	244'	
24+99	R-047	269'		47+78	R-058	161'	
25+32	R-046	193'		48+23	R-066	200'	
25+61	R-045	156'		48+61	R-057	175'	
26+12	R-044	171'		49+08	R-056	162'	
27+01	R-043	150'		49+13	R-029		31'
28+29	R-042	160'		49+41	R-054	142'	
29+45	R-041	215'		49+46	R-067	251'	
29+71	R-040	244'		49+65	R-030		98'
31+96	R-039	287'		49+88	R-031		107'
32+01	R-052		125'	49+96	R-068	212'	
33+85	R-038	306'		50+04	R-055	160'	
36+26	R-014		94'	50+73	R-069	202'	
36+07	R-037	301'		50+90	R-032		149'
36+23	R-012	119'		51+84	R-071	135'	
36+67	R-036	259'		53+01	R-072	88'	
37+13	R-053		116'	53+52	R-073	92'	
37+45	R-015		173'	53+73	R-088	163'	
37+47	R-011	233'		55+32	R-077	235'	
38+78	R-010		155'	55+98	R-079	76'	
38+79	R-016		145'	56+66	R-078	211'	
39+81	R-017	308'		56+70	R-087		103'
39+63	R-009	283'		57+19	R-071	155'	
40+79	R-008	274'		57+28	R-090		149'
41+80	R-007	243'		57+88	R-086		162'
41+91	R-006		120'	58+28	R-081	231'	
42+31	R-018	173'		58+50	R-091		225'
42+63	R-003	118'		59+44	R-092		127'
42+64	R-002	245'		60+27	R-097		234'
42+93	R-005	229'		60+76	R-094		147'
44+56	R-004		102'	61+66	R-101	78'	
44+61	R-020		158'	61+98	R-095		218'
44+98	R-061	189'		62+17	R-100	97'	
45+67	R-060	125'		62+45	R-096		248'
45+80	R-023	58'		63+72	R-099	103'	
46+18	R-063	213'		64+32	R-106		158'
46+33	R-062	190'		65+07	R-105		207'
46+63	R-064	246'		65+87	R-104		101'
46+78	R-034		104'	67+02	R-102		76'
46+80	R-059	153'		67+75	R-103		61'
47+17	R-033		82'	69+24	R-098	127'	

* All Rocks from ~5L+50 to EOP secured or Removed. Recommend Contingent sum for Removal / securing Remaining Rocks.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\Ktn\71811\Dr\-Sum5.dwg 10/07/99 03:25:08 PM PM ADT
PLOT: FULL=1 or HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
THIRD AVENUE EXTENSION
STP-MG-0904(1)~ PROJECT No. 71811
MISCELLANEOUS SUMMARIES

DESIGNED BY: D. Saldivar
B. Bennett
CHECKED BY: D. Saldivar
PROJECT NO. 71811
DATE: July, 1999
SHEET 14 OF 93

STATE OF ALASKA 49th David D. Saldivar CE-8307 REGISTERED ENGINEER

SUMMARY OF LOAD CENTER: 1

Load Center Type 2

Location data:
"0" 22+30, 55' R
POWER POLE NEAR "0" 22+30, 60' R

Load center:
Power source:
Photoelectric control:

Service voltage: 1 phase, 3 wire, 120/240 volts, 60 Hz.

Interrupting capacity of circuit breakers – series rated. 10,000 AIC
Provide meter socket? Yes Service Amps 125

Main Breaker A: 120/240 volt, 2 pole, 100 ampheres

Contactor: 600 volt, 12 pole, 30 ampheres

Load Panel A Summary

Circuit Number	Description	KVA Load	Breaker Amps	Breaker Poles
AA1	Photo Electric Control	0.10	15A	2
AA2	Electroliers 1 – 2	0.40	15A	2
AA3	Electroliers 3 – 6	1.20	15A	2
AA4	Spare		20A	2
AA5	Spare		20A	2
AA6	Space			
	Total Demand Load:	1.70		

SUMMARY OF LOAD CENTER: 2

Load Center Type 2 Completed

Location data:
"0" 74+90, 26' R
POWER POLE NEAR "0" 74+93, 51' R

Load center:
Power source:
Photoelectric control:

Service voltage: 1 phase, 3 wire, 120/240 volts, 60 Hz.
with grounded neutral

Interrupting capacity of circuit breakers – series rated. 10,000 AIC
Provide meter socket? Yes Service Amps 125

Main Breaker A: 120/240 volt, 2 pole, 100 ampheres

Contactor: 600 volt, 12 pole, 30 ampheres

Load Panel A Summary

Circuit Number	Description	KVA Load	Breaker Amps	Breaker Poles
AA1	Photo Electric Control	0.10	15A	2
AA2	Electorliers7 – 13 and 17	2.40	15A	2
AA3	Electroliers 14 – 16	1.00	15A	2
AA4	Spare		20A	2
AA5	Spare		20A	2
AA6	Space			
	Total Demand Load:	3.50		

LOAD CENTER SUMMARY

NO.	STATION	OFFSET	TYPE	REMARKS
1	'0' 22+30	55' R	2	IN FRONT OF POWER POLE
✓2	'0' 74+90	26' R	2	IN FRONT OF POWER POLE

JUNCTION BOX SUMMARY

NO.	STATION	OFFSET	TYPE	REMARKS
1	'0' 21+73	16' L	1A	
2	'0' 22+52	20' R	1A	
3	'0' 24+22	24' L	1A	
4	'0' 25+92	24' L	1A	
5	'0' 27+62	20' L	1A	
6	'0' 29+32	20' L	1A	
7	'0' 63+07	24' L	1A	
8	'0' 64+77	24' L	1A	
9	'0' 66+47	24' L	1A	
10	'0' 68+17	24' L	1A	
11	'0' 69+87	24' L	1A	
~~12~~	'0' 71+40	24' L	1A	
✓13	'0' 73+07	24' L	1A	
✓14	'0' 74+77	24' R	1A	
✓15	'0' 76+07	24' L	1A	
✓16	'0' 77+60	24' L	1A	
✓17	'S' 10+60	21' R	1A	
✓18	'0' 73+70	24' L	1A	
✓19	'0' 74+70	24' L	1A	
20	'0' 22+60	24' L	1A	

POLE SUMMARY

POLE NO.	STATION	OFFSET	MAST ARM LENGTH	SPECIAL FEATURES
1	'0' 21+73	20' L	10'	150 WATT, MC TYPE III
2	'0' 22+52	25' R	10'	150 WATT, MC TYPE III
3	'0' 24+22	26' L	15'	250 WATT, MC TYPE II
4	'0' 25+92	26' L	15'	250 WATT, MC TYPE II
5	'0' 27+62	22' L	12'	250 WATT, MC TYPE II
6	'0' 29+32	22' L	12'	250 WATT, MC TYPE II
7	'0' 63+07	26' L	15'	250 WATT, MC TYPE II
8	'0' 64+77	26' L	15'	250 WATT, MC TYPE II
9	'0' 66+47	26' L	15'	250 WATT, MC TYPE II
10	'0' 68+17	26' L	15'	250 WATT, MC TYPE II
11	'0' 69+87	26' L	15'	250 WATT, MC TYPE II
~~12~~	'0' 71+40	26' L	15'	250 WATT, MC TYPE II
✓13	'0' 73+07	26' L	15'	250 WATT, MC TYPE II
✓14	'0' 74+77	26' R	15'	250 WATT, MC TYPE II
✓15	'0' 76+07	26' L	15'	250 WATT, MC TYPE II
✓16	'0' 77+60	26' L	15'	250 WATT, MC TYPE III
✓17	'S' 10+60	26' R	10'	150 WATT, MC TYPE III

LOAD CENTER NOTES

1. *CONTRACTOR SHALL HAVE METERS INSTALLED, AND PAY ANY FEES REQUIRED BY THE LOCAL UTILITY. THE STATE WILL ACCEPT BILLING WHEN THE PROJECT IS ACCEPTED.*

✓ = Item completed

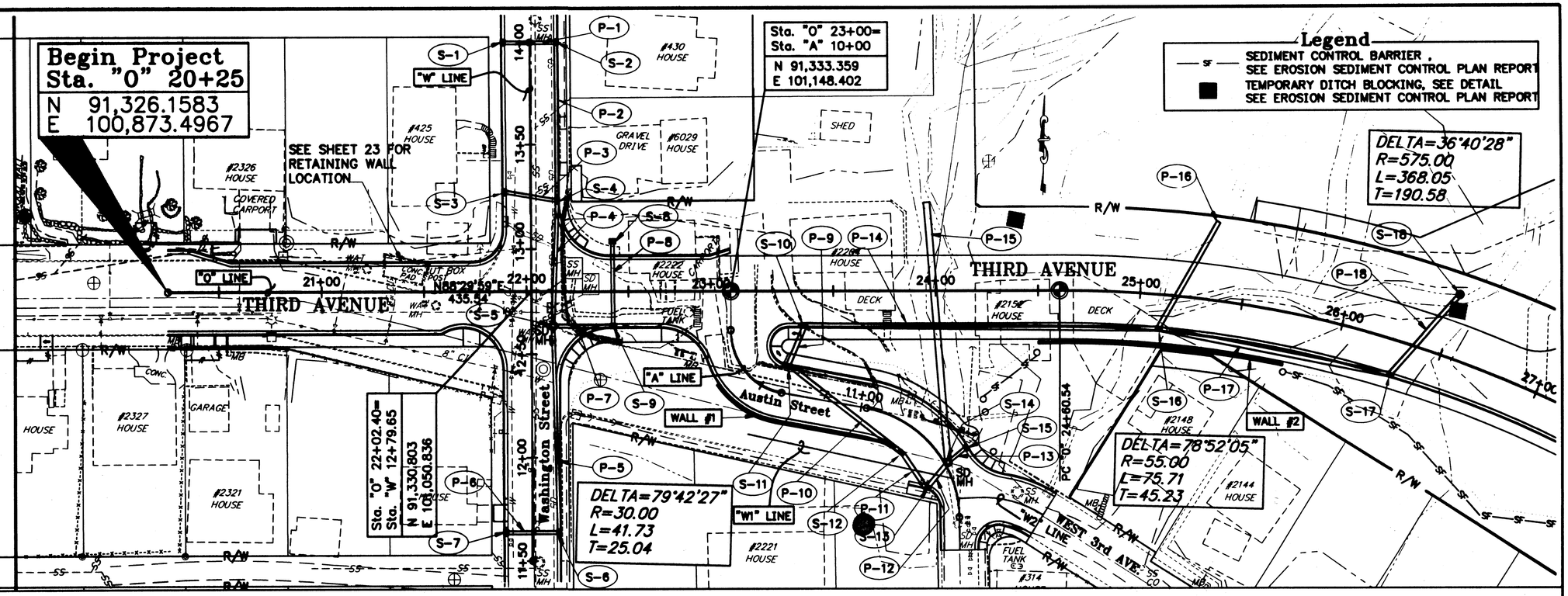
NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

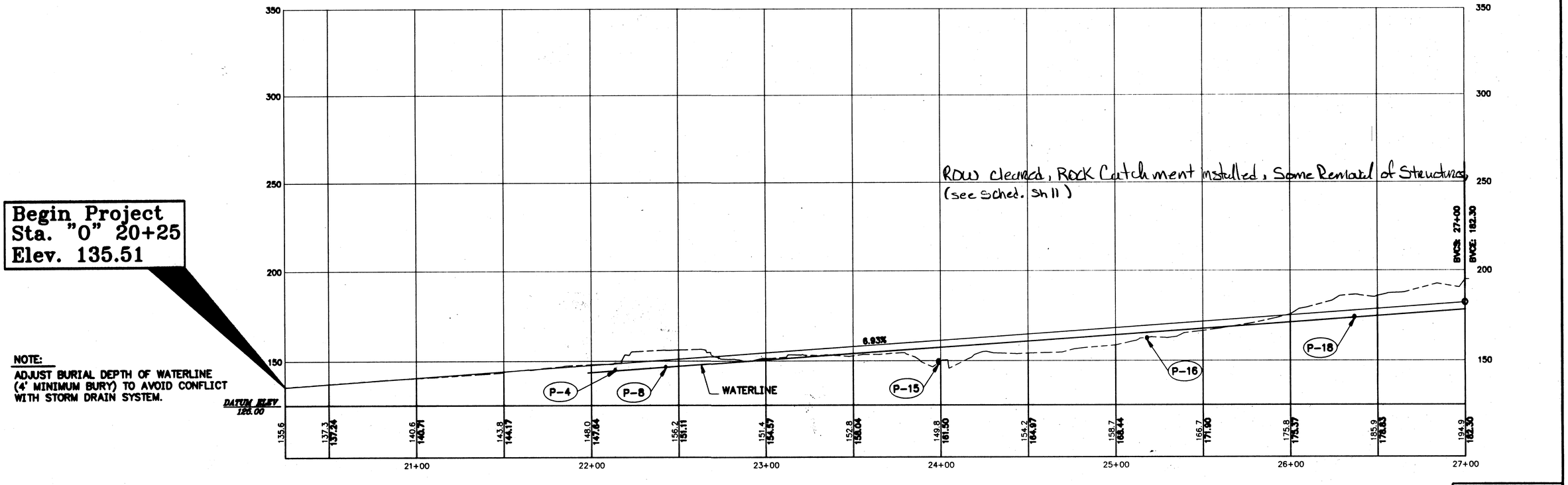
PATH: Q:\KTN\71811\DR\–Lumin3	STATE OF ALASKA	KETCHIKAN	ALASKA
PLOT: FULL=1 or HALF=2	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	THIRD AVENUE EXTENSION	DESIGNED BY: M. Lukshin
BY: DATE: DESCRIPTION OF CHANGE:	SOUTHEAST REGION	STP-MG-0904(1) ~ PROJECT No. 71811	DRAWN BY: B. Bennett
RECORD OF REVISIONS		SUMMARY OF QUANTITIES	CHECKED BY: R. Purves
			71811
			DATE: July, 1999
			SHEET 15 OF 93

STATE OF ALASKA 49th Michael Lukshin CE-8737 REGISTERED PROFESSIONAL ENGINEER

Basis of Control

The Department's Right-of-Way Section will set Horizontal and Vertical Controls at both ends of the project prior to start up.





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PLOT:	SCRIPT: PPSETUP.SCR	SCALE: 30(F)-60(H)	VIEW: P1, PR1, T1
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

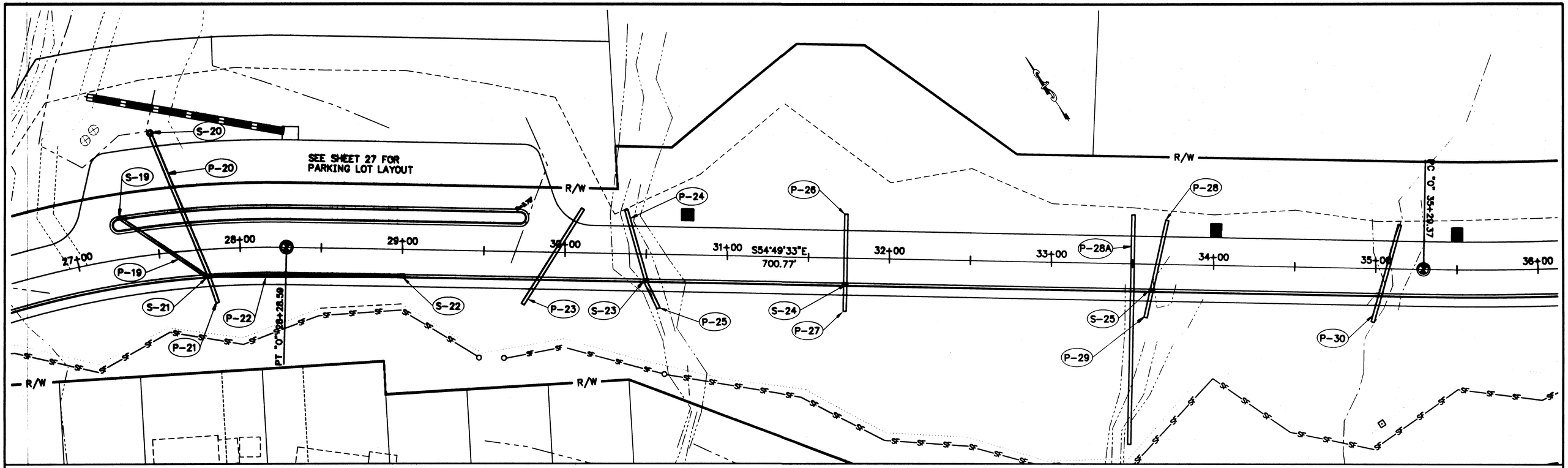
KETCHIKAN — ALASKA

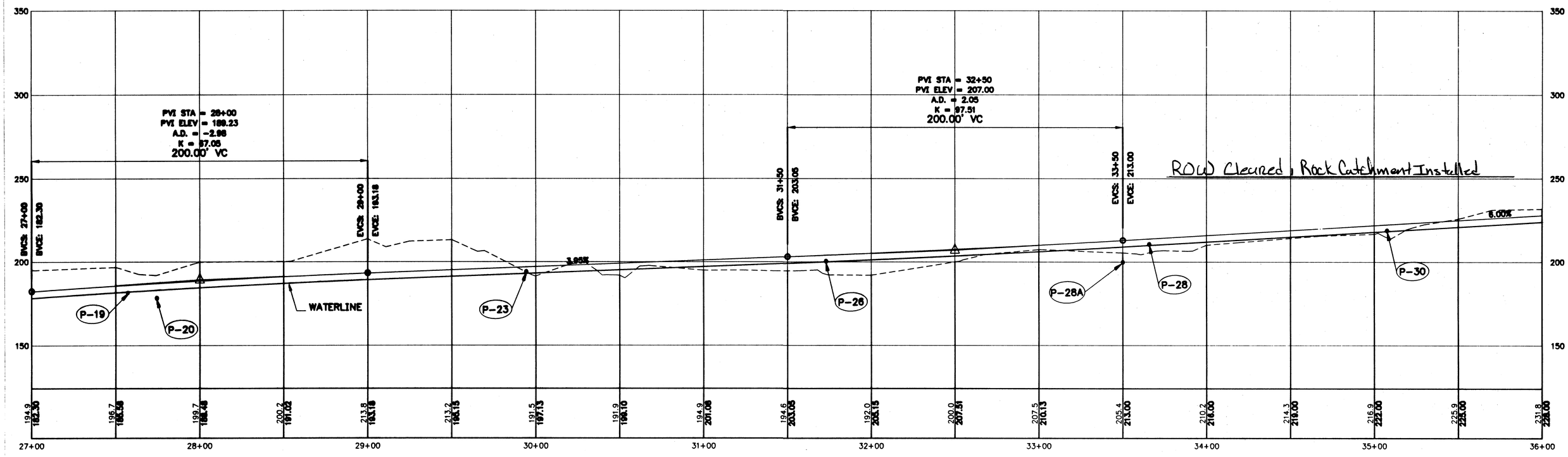
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

B.O.P. STA. 20+50 TO STA. 27+00

DESIGNED BY: D. SALDIVAR	PROJECT NO. 71811
DRAWN BY: R.S./B.B.	DATE: July, 1999
CHECKED BY: C. MORROW	SHEET 16 OF 93

STATE OF ALASKA
DAVID D SALDIVAR
8307
REGISTERED PROFESSIONAL ENGINEER





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BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

STA. 27+00 TO STA. 36+00

DESIGNED BY: D. SALDIVAR	PROJECT NO. 71811
DRAWN BY: R.S./B.B.	DATE: July, 1999
CHECKED BY: C. MORROW	SHEET 17 OF 93

STATE OF ALASKA
DAVID D. SALDIVAR
8307
REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION ACTIVITIES WITHIN THE 330' RADIUS AROUND THE EAGLE'S NEST SHALL CONFORM TO THE REQUIREMENTS OF SECTION 107-1.01. SEE SHEET 69 FOR OVERALL VIEW

DELTA=18°59'07"
R=763.94
L=253.14
T=127.74

DELTA=12°06'56"
R=1637.02
L=346.16
T=173.73

R/W

PT "0" 38+75.52

S66°56'29"E
164.93'

PC "0" 40+40.45

PT "0" 42+83.59

S47°37'21"E
458.74'

P-31A P-31 P-32 S-27 P-33 S-28 P-35 S-29 P-36 P-35A Deleted P-37 S-30 P-38

36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00

Begin Retaining Wall #3
Sta. "0" 43+00, Rt.

400.00' VC

HIGH POINT ELEV = 249.00
HIGH POINT STA = 41+00
PVI STA = 40+00
PVI ELEV = 252.00
A.D. = -8.00
K = 50.00

BVCS: 38+00
BVCE: 240.00

EVCS: 42+00
EVCE: 248.00

400.00' VC

BVCS: 43+00
BVCE: 248.00

LOW POINT ELEV = 245.00
LOW POINT STA = 44+00
PVI STA = 45+00
PVI ELEV = 242.00
A.D. = 8.00
K = 50.00

-2.00%

WATERLINE

P-31 P-35 P-35A

ROW Cleared, Rock Catchment Installed

350 300 250 200 150

231.8 238.00 239.2 237.00 247.0 234.00 249.0 237.00 246.9 240.00 238.3 242.75 230.4 246.00 230.7 244.75 227.7 248.00 230.2 244.75 229.1 248.00 228.9 244.75 230.0 248.00 231.4 247.00 236.0 246.00 232.2 243.25 219.0 248.00 223.5 243.25 217.9 244.00

36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00

PATH: [PlotStamp Eval] G:\Ktn\71811\Dr_ppsetup.dwg Tue, 21/Dec/99 02:43pm
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BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN ALASKA

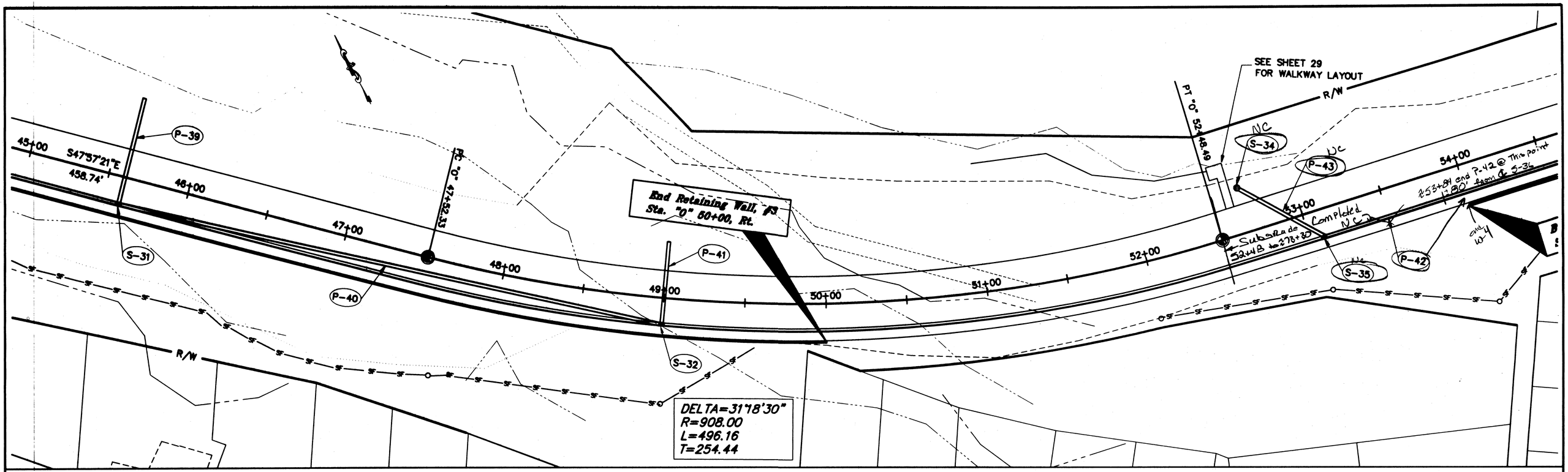
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

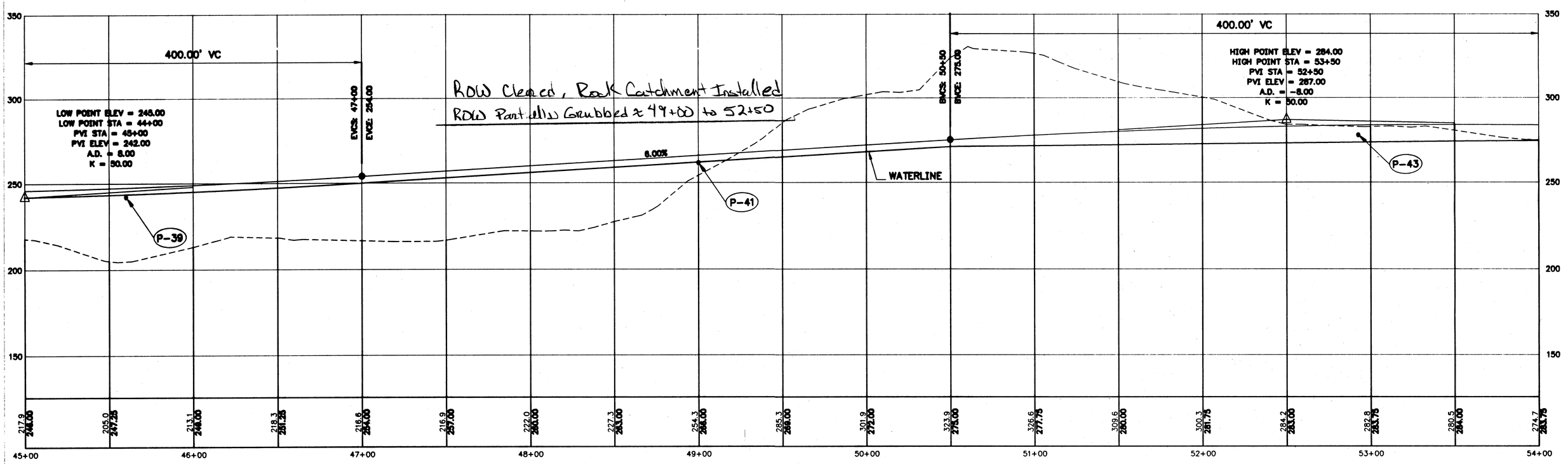
STA. 36+00 TO STA. 45+00

DESIGNED BY: D. SALDIVAR
DRAWN BY: R.S./B.B.
CHECKED BY: C. MORROW

PROJECT NO. 71811
DATE: July, 1999
SHEET 18 OF 93

STATE OF ALASKA
DAVID D. SALDIVAR
8307
REGISTERED PROFESSIONAL ENGINEER





217.9	205.0	213.1	218.3
244.00	247.25	248.00	251.25
216.8	216.9	222.0	227.3
254.00	257.00	260.00	263.00
254.3	285.3	301.9	323.9
266.00	269.00	272.00	275.00
326.6	309.6	300.3	284.2
277.75	280.00	281.75	283.00
282.8	280.5	274.7	
283.75	284.00	283.75	

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PLOT: SCRIPT: PPSETUP.SCR SCALE: 30(F)-60(H) VIEW: P4, PR4, T4

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

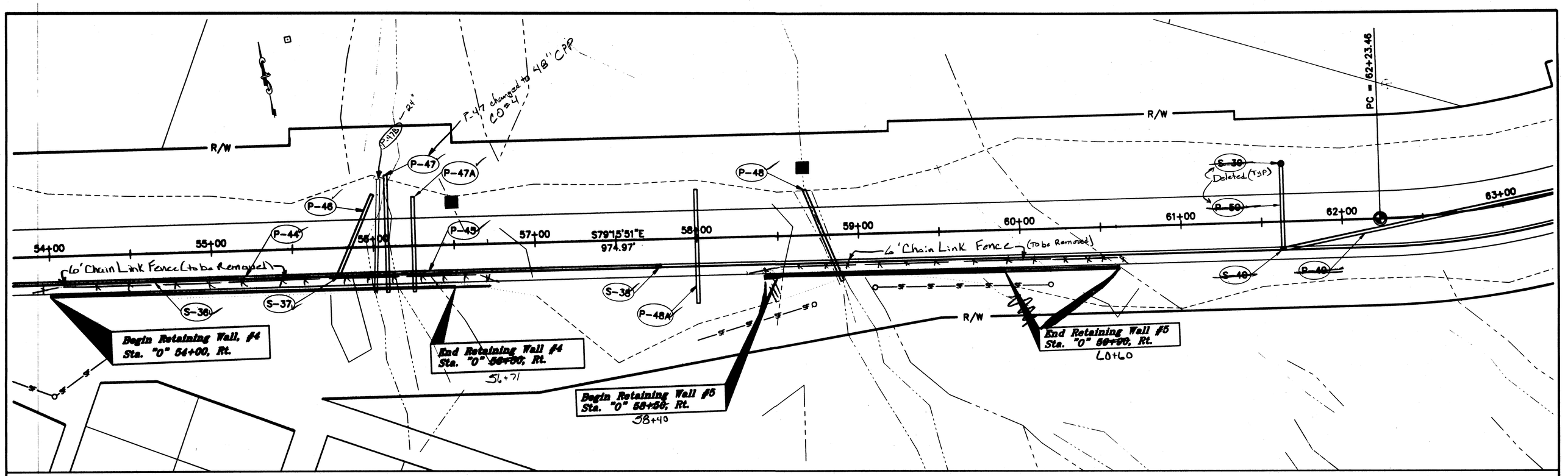
KETCHIKAN — ALASKA

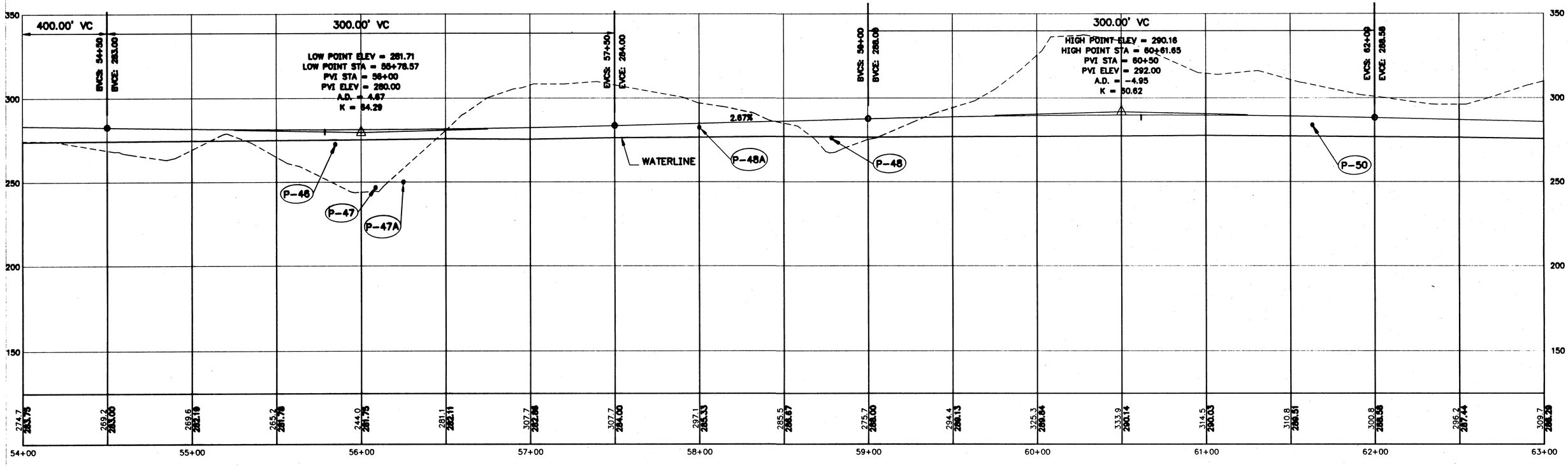
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

STA. 45+00 TO STA. 54+00

DESIGNED BY: D. SALDIVAR	PROJECT NO. 71811
DRAWN BY: R.S./B.B.	DATE: July, 1999
CHECKED BY: C. MORROW	SHEET 19 OF 93

STATE OF ALASKA — 49th — DAVID O. SALDIVAR — 8307 — REGISTERED PROFESSIONAL ENGINEER





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PLOT:	SCRIPT: PPSETUP.SCR	SCALE: 30(F)-60(H)	VIEW: P5, PR5, T5
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

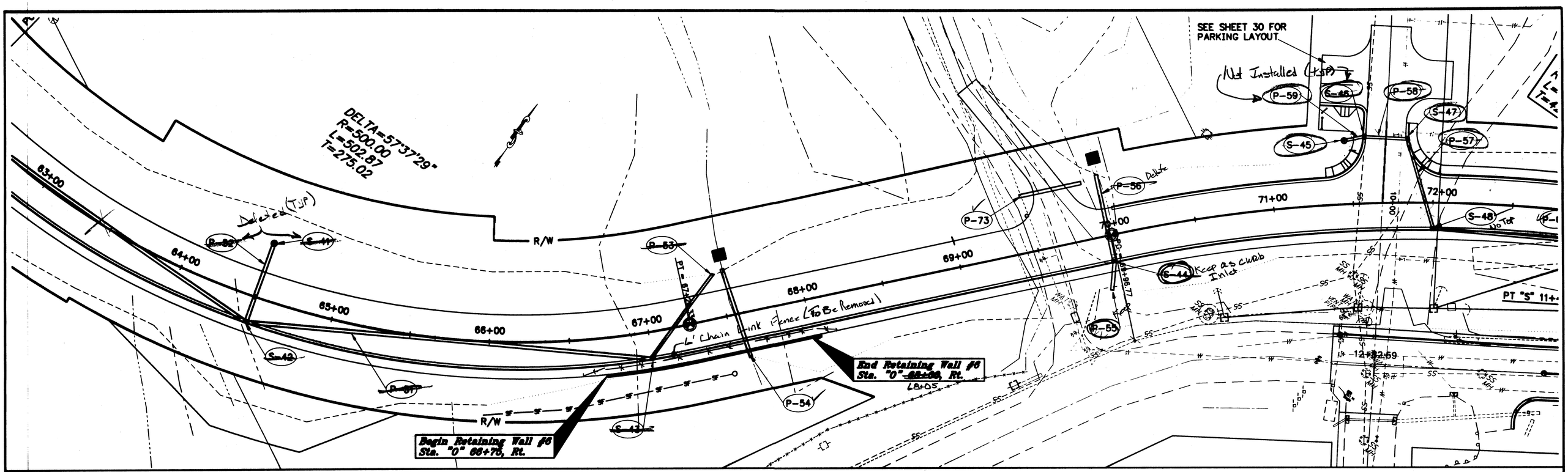
KETCHIKAN — ALASKA

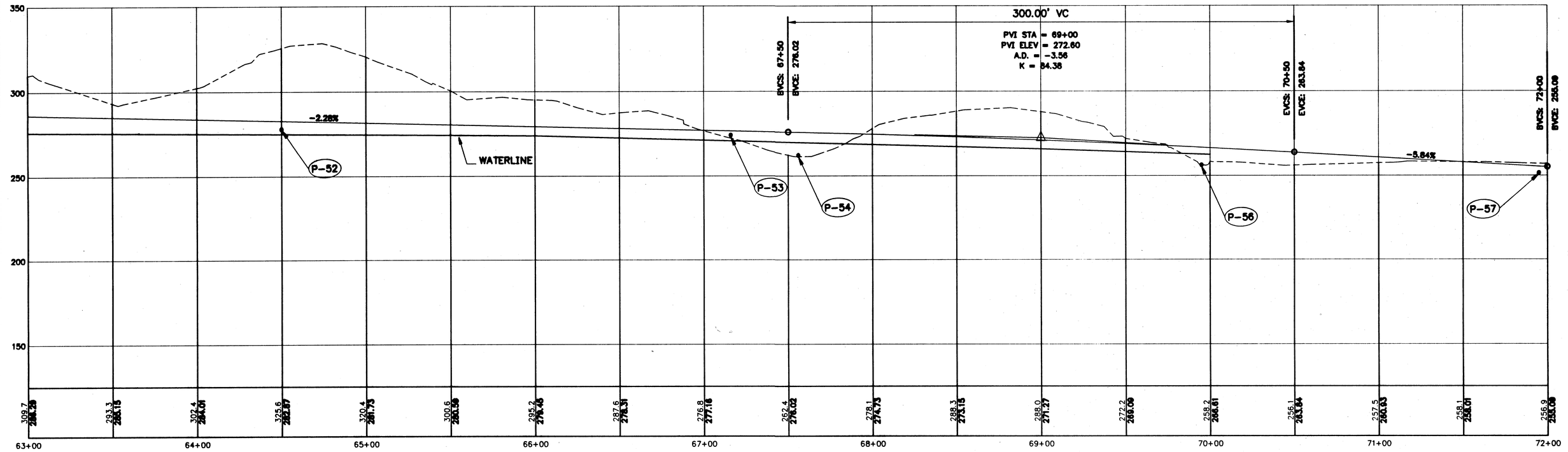
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

STA. 54+00 TO STA. 63+00

DESIGNED BY: D. SALDIVAR	PROJECT NO. 71811
DRAWN BY: R.S./B.B.	DATE: July, 1999
CHECKED BY: C. MORROW	SHEET 20 OF 93

STATE OF ALASKA
DAVID D SALDIVAR
8307
REGISTERED PROFESSIONAL ENGINEER





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PLOT:	SCRIPT: PPSETUP.SCR	SCALE: 30(F)-60(H)	VIEW: P6, PR6, T6
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

STA. 63+00 TO STA. 72+50

DESIGNED BY: D. SALDIVAR	PROJECT NO. 71811
DRAWN BY: R.S./B.B.	DATE: July, 1999
CHECKED BY: C. MORROW	SHEET 21 OF 93

STATE OF ALASKA
DAVID D. SALDIVAR
8307
REGISTERED PROFESSIONAL ENGINEER

DELTA=95°44'03"
R=60.00
L=100.25
T=66.33

End Reinforced Slope
Sta. "0" 78+10, Rt.

Begin Reinforced Slope
Sta. "0" 78+25, Rt.

Stacked Rock Wall

End Retaining Wall #8
Sta. "PC" 10+60, Rt.

Begin Retaining Wall #8
Sta. "PC" 10+35, Rt.

DELTA=88°37'33"
R=60.00
L=92.81
T=58.58

End Project
Sta. "0" 80+20
N 90,369.1058
E 106,217.6858

EXISTING TELEMETER CABLE SHALL NOT BE DISTURBED. NOTIFY KPU PRIOR TO ANY CONSTRUCTION ACTIVITIES IN THIS AREA

DELTA=50°40'00"
R=900.00
L=795.87
T=426.07

SEE SHEET 26 FOR BUS PULLOUT LAYOUT

Fairy Chasm Way

Cub Court

Forest Grove

Shoenbar Road

DITCH TO DRAIN

4' Chain Link Fence

6' Chain Link Fence

TRAILER

UTIL POLE

GUY POLE

SS MH

PT "FW" 12+18.23
PC "FW" 11+17.98
PT "FW" 11+08.60
PC "FW" 10+15.79
PC "S" 10+31.10
PT "S" 10+46.89
PI = 77+92.64
S86°13'21"E
227.36

SPRING DRAIN SECTION

Exist. Subgrade
Linear Trench Excavation
Filter Fabric
2'
2'
4'
3" to 12" Drain Rock

200.00' VC
PVI STA = 73+00
PVI ELEV = 248.25
A.D. = -0.94
K = 212.20

PVI STA = 77+00
PVI ELEV = 222.13
A.D. = 4.65
K = 84.55
300.00' VC

BVCS: 72+00 EVCE: 254.00
BVCS: 74+00 EVCE: 242.47
BVCS: 75+50 EVCE: 232.30
BVCS: 78+50 EVCE: 218.63

-6.76%
-2.13%

End Project
Sta. "0" 80+20
Elev. 214.67

72+00	73+00	74+00	75+00	76+00	77+00	78+00	79+00	80+00
256.9 / 254.00	254.5 / 252.11	253.7 / 246.01	242.7 / 240.80	220.8 / 242.47	220.8 / 230.08	219.1 / 233.66	222.5 / 232.30	216.0 / 228.16	221.7 / 226.29	220.8 / 223.87	220.4 / 221.84	219.8 / 220.19	219.2 / 218.63	218.5 / 217.87	217.5 / 216.80	216.0 / 215.73

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

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PLOT: SCRIPT: PPSETUP.SCR SCALE: 30(F)-60(H) VIEW: P7, PR7, T7

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

STA. 72+50 TO E.O.P. STA. 80+20

DESIGNED BY: D. SALDIVAR
DRAWN BY: R.S./B.B.
CHECKED BY: C. MORROW

PROJECT NO. 71811
DATE: July, 1999
SHEET 22 OF 93

STATE OF ALASKA
DAVID D. SALDIVAR
8307
REGISTERED PROFESSIONAL ENGINEER

STA. "0" 20+55.79
14.50' LT.

STA. "0" 20+35.79
20.50' LT.

HOUSE

COVERED CARPORT

SAWCUT AND MATCH STA. 10+29

7'-3" 7'-3"

R/W

SAWCUT & MATCH

STA. "0" 20+67.54=
STA. 10+00

29.00'
N10°06'10"W

"0" LINE

20+00

21+00

N88°29'59"E
435.54'

THIRD AVENUE

WAT MH

CONC. PAD

UT BOX

POST

BEGIN CONCRETE RETAINING WALL STA. "W" 21+30, 15' LT.

PT "0" 21+88.29,
29.05' LT

RADIUS POINT
"0" 21+73.79
29.00' L R=14.5'

PC "0" 21+73.79,
14.50' LT

END CONCRETE RETAINING WALL STA. "0" 21+84.30, 19.5' LT.

Washington Street

13+00

22+00

S-A
23

WAT MH

PC "0" 21+58.64,
20.50' LT

RADIUS POINT
"0" 21+69.03,
37.00' RT
R=19.5'

SD MH

SS MH

SEE SHEET 85
FOR NEW
WATERLINE

N01°42'34"W
280.00'

12+50

WAT MH

MB

R/W

MB

B.O.P.
STA. "0" 20+25

HOUSE

GARAGE

NOTE:
RADIUS IS MEASURED TO
BACK OF CURB

REMOVE EXISTING PAVEMENT,
CURB & SIDEWALK.
SEE NOTES 2 & 3

PT "0" 21+88.53,
36.83' LT

PT "0" 22+16.25,
41.91' LT

R/W

RADIUS POINT
"0" 22+40.75,
42.00' LT
R=24.5'

END CURB & GUTTER
"0" 22+98.43
20.42' LT.

PC
"0" 22+40.75,
17.50' LT

ANGLE POINT
"0" 22+89.71
17.50' LT

HOUSE

CARPORT

23+00

FUEL TANK

Austin Street

PT "0" 22+41.05,
17.50 RT

RADIUS POINT
"0" 22+41.05,
42.00' RT
R=24.5'

MB

"A" LINE

RADIUS POINT STA."0" 22+40.56
44.0' RT, R=20.0'

PC "0" 22+16.55,
16.55' RT

END DRIVEWAY
RECONSTRUCTION
STA. 10+29
ELEV. 141.40

6" CONCRETE REINFORCED WITH
6" x 6" No. 10/10
WELDED WIRE MESH

SAWCUT & MATCH

EXISTING CONCRETE
DRIVEWAY TO REMAIN

REGRADE DRIVEWAY WITH
CRUSHED AGGREGATE BASE
COURSE, 4" MINIMUM

+17.10%

BEGIN DRIVEWAY
RECONSTRUCTION
STA. 10+14.5
ELEV. 138.92

EDGE OF GUTTER
STA. 10+12.5
ELEV. 138.78

STA. 10+11
ELEV. 138.79

-1%

+3.0%

℄ "0" LINE

STA. "0" 20+67.54=
STA. 10+00
ELEV. 138.46

DRIVEWAY SECTION

160
150
140

BEGIN RETAINING WALL
STA. "0" 21+30
ELEV. 147.00

STA. "0" 21+43
ELEV. 151.50

TOP OF WALL

PC
STA. "0" 21+73.79
ELEV. 152.53

EXISTING GROUND AT
RETAINING WALL

APPROX. BACK OF
CURB & GUTTER

END RETAINING WALL
STA. "0" 21+84.30
ELEV. 153.00

STA. "0" 21+84.30
ELEV. 148.50

BOTTOM OF
WALL

STA. "0" 21+30
ELEV. 141.50

STA. "0" 21+73.79
ELEV. 144.70

21+20 21+50 22+00

RETAINING WALL PROFILE

GRADE TO DRAIN
AND HYDROSEED

INSTALL 6'-0" HIGH CHAIN LINK FENCE
BEHIND WALL IF DIRECTED BY THE ENGINEER

TOP OF WALL
ELEV. VARIES

EXISTING GROUND

CONCRETE RETAINING
WALL CONFIRMING TO
STD. DWGS. B-04.00
AND B-05.00

1'-0"

14'-0"

℄ "0" LINE

FINISHED
CENTERLINE
PROFILE

3%

2'-0"

20" MIN.

BOTTOM OF WALL
ELEV. VARIES

EXCAVATE TO FIRM
MATERIAL AS REQ'D.
BY THE ENGINEER

VARIES

SEE STANDARD DRAWINGS

SECTION A

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

* Note
Clearing, Post
Removal & Houses only
See Sch. Sh 11.

N/A

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: Q:\Ktn\71811\Dr\-Driveway.dwg 10/11/99 01:11:37 PM PM ADT
PLOT: FULL=10 or HALF=20

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

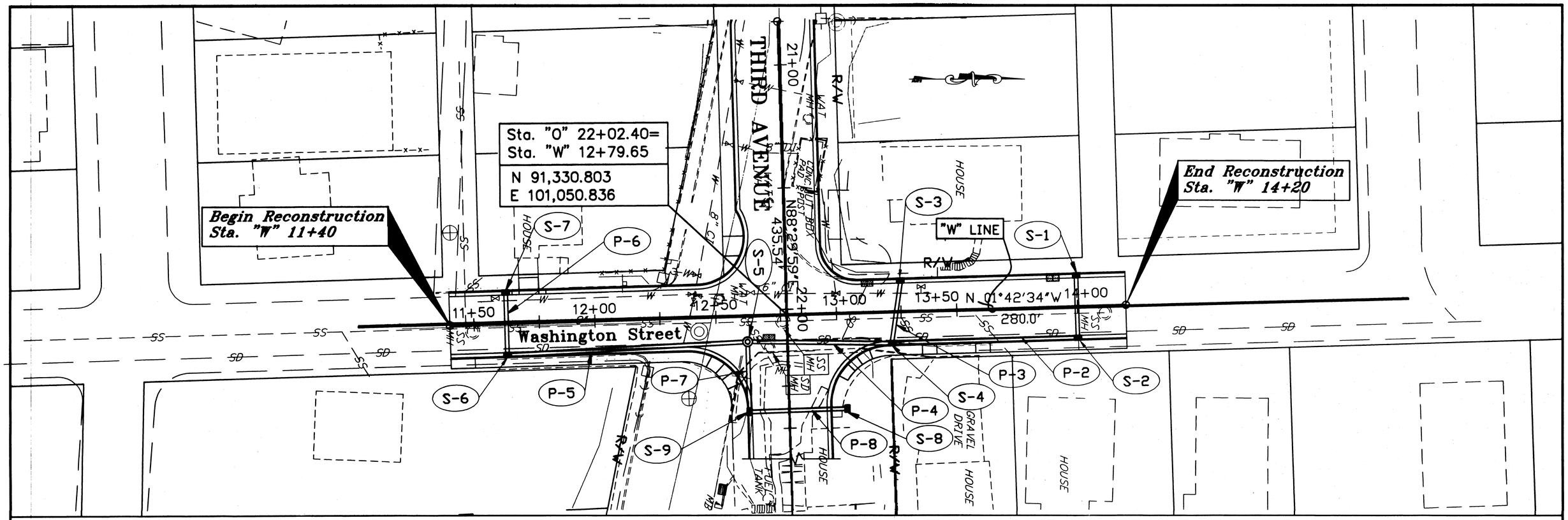
KETCHIKAN — ALASKA

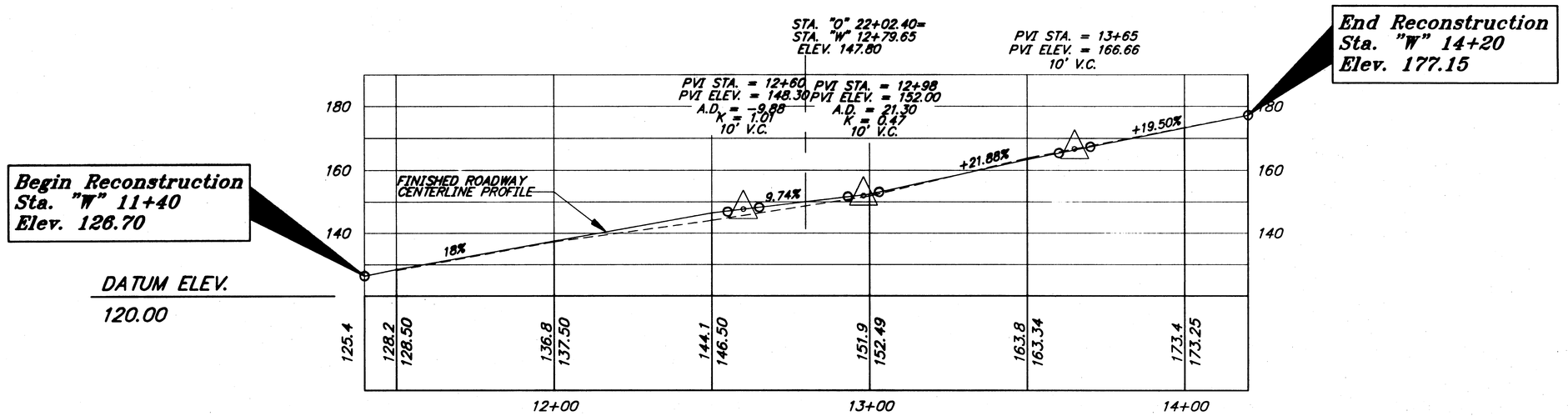
THIRD AVENUE EXTENSION
NH-0902(13) ~ PROJECT No. 71811

INTERSECTION & DRIVEWAY DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: R.S./B.B.	DATE: April, 1999
CHECKED BY: C. Morrow	SHEET 23 OF 93

STATE OF ALASKA
49th
David Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER





See Note, Sh. 11

N/A

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH:	G:\Ktn\71811\Dr\-INTWash.dwg 10/07/99 01:16:29 PM PM ADT		
PLOT:	FULL=20 or HALF=40		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

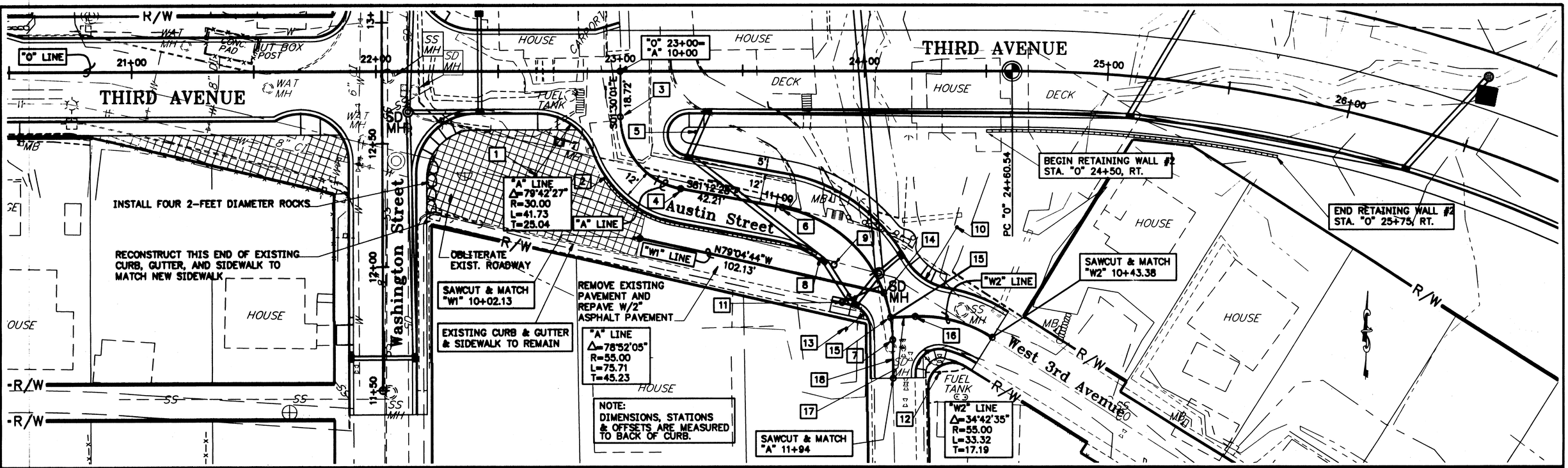
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

WASHINGTON STREET

DESIGNED BY:	D. Saldivar	PROJECT NO.	71811
DRAWN BY:	B. Bennett	DATE:	July, 1999
CHECKED BY:	C. Morrow	SHEET	24 OF 93

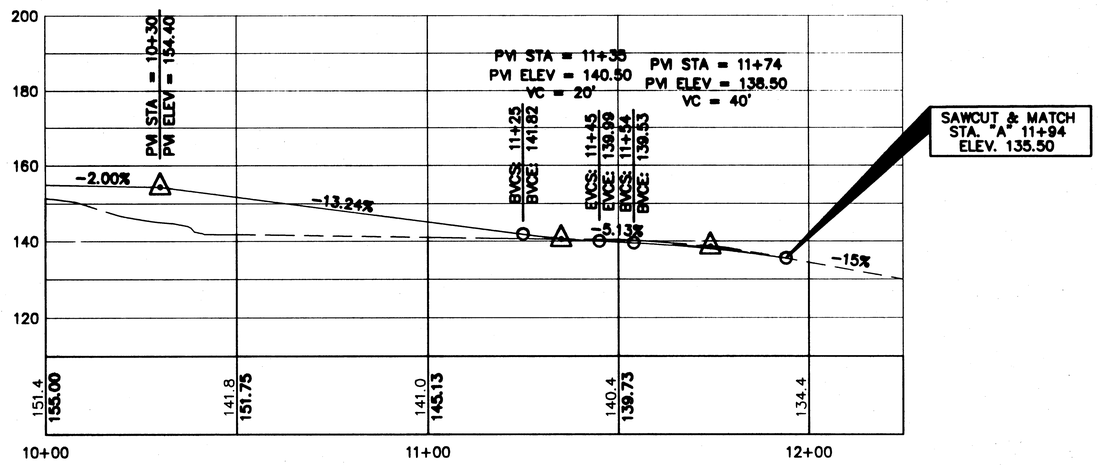
STATE OF ALASKA
Douglas D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



LEGEND

1. RADIUS POINT, STA. "0" 22+65.23
   42.50' RT., RADIUS = 24.5'
2. BEGINNING RETAINING WALL
   STA. "A" 10+37, RT.
3. PC, STA. "A" 10+18.72
4. PT, STA. "A" 10+60.45
5. RADIUS POINT
   STA. "0" 23+28.13, 26.0' RT.
   RADIUS=8.5'
6. PC, STA. "A" 11+02.66
7. PT, STA. "A" 11+78.37
8. END RETAINING WALL
   STA. "A" 11+27, RT.
9. END CURB & GUTTER
   STA. 'A' 11+32.67, 14.0' RT.
10. RADIUS POINT
    STA. "A" 11+50.83, 38.5' LT.
    RADIUS=24.5'
11. SAWCUT & MATCH
    STA. "A" 11+55.86, 17.47' RT.
12. RADIUS POINT
    STA. "A" 12+24.05, 10.82' LT.
    RADIUS = 9.5'
13. RADIUS POINT
    STA. "A" 11+71.06, 18.60' RT.
    RADIUS = 9.5'
14. INTERSECTION
    STA. "W1" 10+00 =
    STA. "A" 11+59.05
15. INTERSECTION
    STA. "W2" 10+00 =
    STA. "A" 11+69.30
16. PC, STA. "W2" 10+10.06
17. N 86° 04' 58 E, 10.06'
18. S 02°20'23" E, 15.63'

"A" LINE PLAN



"A" LINE PROFILE
Austin Street

PATH:	Q:\KTN\71811\DR_INTsetup	VIEWS: P2, PR2, T2
PLOT:	PAPERSPACE: 1(F) OR 2(H)	SCALE: 20(F) OR 40(H)

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811

AUSTIN STREET & WEST 3RD AVENUE

DESIGNED BY: D. SALDIVAR	PROJECT NO. 71811
DRAWN BY: R. SNYDER	DATE: July, 1999
CHECKED BY: C. MORROW	SHEET 25 OF 93

STATE OF ALASKA
DAVID D SALDIVAR
8307
REGISTERED PROFESSIONAL ENGINEER

N/A

*See Note, Sh. 11

RADIUS POINT "O" 71+33.83, 42.00' LT, R=24.5'

RADIUS POINT "O" 72+08.57, 42.00' LT, R=24.5'

NOTE: RADIUS IS MEASURED TO BACK OF CURB. (TYP)

"O" 74+90 27.50' LT.

"O" 74+50 27.50' LT.

"O" 74+10 17.50' LT.

UTIL POLE

N31°09'57"W 10+40

Forest Avenue 10+20

THIRD AVENUE 73+00

72+00

74+00

75+00

BUS PULLOUT

PC "S" 10+31.10 S07°19'34"E 31.10

"O" 74+20 17.50' LT.

RADIUS POINT "O" 73+49.03, 42.00' RT, R=24.5'

RADIUS POINT "O" 73+48.04 43.00' RT, R=20.0'

STA. "F" 10+00= STA. "O" 71+68.23

"S" 10+00 = "O" 74+10.77, N 90,328.8631 E 105,615.8542

PT "S" 11+44.84

"S" LINE

RADIUS POINT "O" 74+44.97, 42.00' LT, R=24.5'

4' Chain Link Fence

11+00

"S" LINE Δ=65°10'14" R=100.00 L=113.74 T=63.92

WATER VENT PIPE

WATER MH

SS MH

SS

S57°50'40"W 165.07'

12+00

13+00

Schoenbar Road

GUY POLE

SAWCUT & MATCH STA. "S" 13+09.92

RADIUS POINT "O" 11+79.12, 31.50' RT, R=14.5'

SAWCUT & MATCH

R/W

OBLITERATE EXISTING ROADWAY, GRADE TO DRAIN AND HYDRO SEED

SAWCUT & MATCH "FW" 12+88.76

N08°55'45"W 40.76'

PT "FW" 12+18.23

12+00

R/W

"FW" LINE Δ=88°37'33" R=60.00 L=92.81 T=58.58

"FW" LINE

PC "FW" 11+17.98

S75°20'12"W 9.38'

11+00

Fairy Chasm Way

RADIUS POINT "O" 76+86.18, 43.00' LT, R=20.0'

4' Chain Link Fence (TYP.)

"FW" LINE Δ=95°44'03" R=60.00 L=100.25 T=66.33

PT "FW" 11+08.60

RADIUS POINT "O" 76+15.00, 32.00' LT, R=14.5'

PC "FW" 10+18.79

N82°02'16"E 15.79'

76+00

75+00

"O" 74+20 17.50' LT.

RADIUS POINT "O" 76+87.14, 42.00' LT, R=24.5'

"FW" 10+00= "O" 76+59.43 N 90,383.0104 E 105,857.7404

"S" LINE PLAN

PVI STA = 10+40.93
PVI ELEV = 241.87
VC = 10'

PVI STA = 11+80
PVI ELEV = 253.64
VC = 50'

PVI STA = 10+15.93
PVI ELEV = 241.37
BVCS: 10+35.93
BVCE: 241.77
EVCS: 10+45.93
EVCE: 242.30
BVCS: 10+55
BVCE: 251.80
EVCS: 11+05
EVCE: 254.72

SAWCUT & MATCH STA."S" 13+09.92 ELEV. 259.65

-2.32% 2.00% 6.52% 4.65%

STA. "O" 74+10.77= STA."S" 10+00 ELEV. 241.74'

280 260 240 220

222.0 241.74 | 228.9 242.66 | 244.3 248.92 | 250.2 251.17 | 254.53 254.53 | 256.48 256.48 | 258.44 258.44

10+00 11+00 12+00 13+00 13+20

"S" LINE PROFILE
Schoenbar Road

"FW" LINE PLAN

PVI STA = 12+37
PVI ELEV = 197.90
VC = 10'

PVI STA = 10+25.79
PVI ELEV = 226.38
VC = 10'

EVCS: 12+42
EVCE: 197.11
BVCS: 12+32
BVCE: 196.36

EVCS: 10+30.79
EVCE: 225.70
BVCS: 10+20.79
BVCE: 226.48

PVI STA = 10+15.79
PVI ELEV = 226.58

-2.00% 4.65%

-8.73% -13.48%

STA."O"76+59.43= STA."FW" 10+00 ELEV. 225.81

SAWCUT & MATCH STA."FW" 12+48 ELEV. 196.94

240 220 200 180

196.7 | 203.4 202.73 | 209.9 209.52 | 208.9 216.32 | 210.2 223.11 | 221.3 225.81

12+00 11+00 10+00

"FW" LINE PROFILE
Fairy Chasm Way

PATH: Q:\KTN\71811\DR_INTSETUP	VIEWS: P3, P4, PR3, T3
PLOT: PAPERSPACE: 1(F) OR 2(H)	SCALE: 20(F) OR 40(H)

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

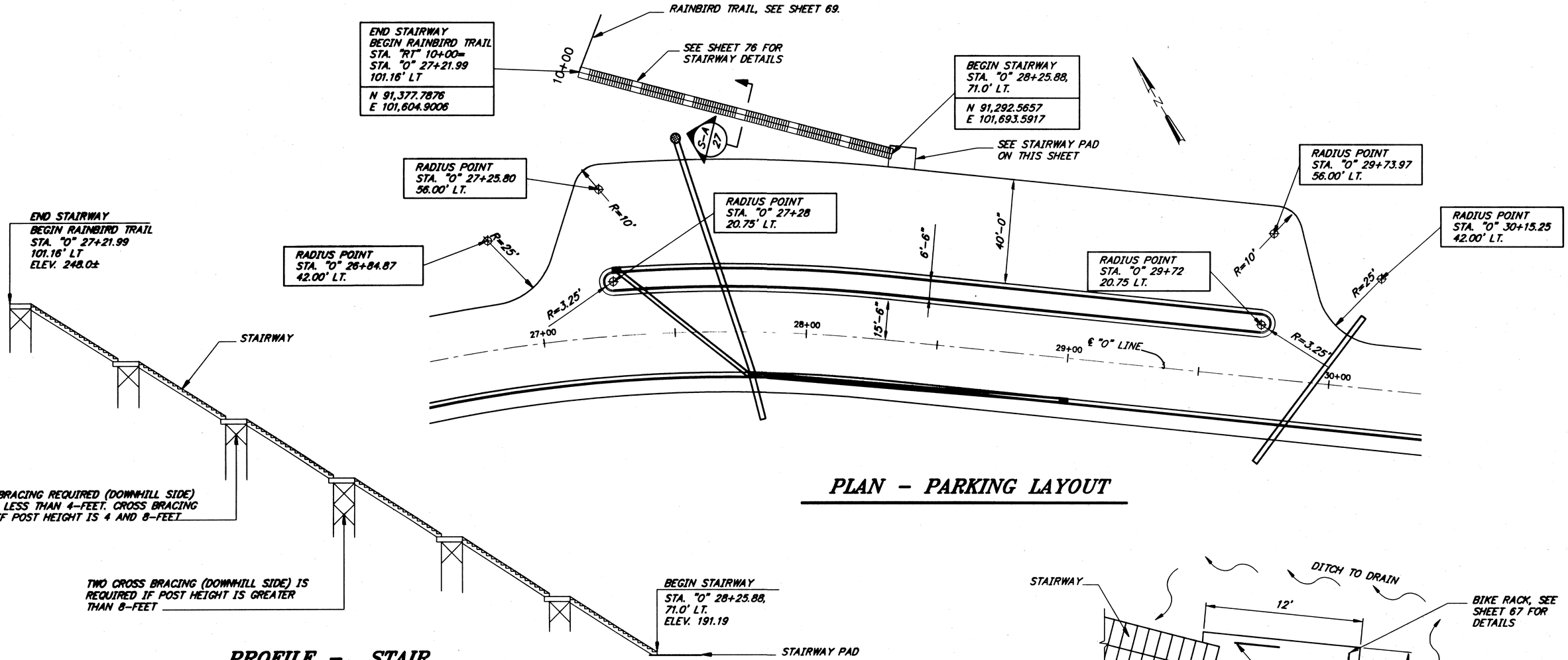
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
FOREST AVENUE, SCHOENBAR ROAD & FAIRY CHASM WAY

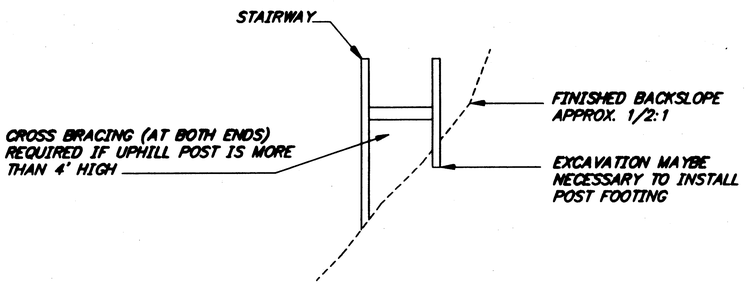
DESIGNED BY:	D. SALDIVAR	PROJECT NO.	71811
DRAWN BY:	R. SNYDER	DATE:	July, 1999
CHECKED BY:	C. MORROW	SHEET	26 OF 93

STATE OF ALASKA — DAVID D. SALDIVAR — 8307 — REGISTERED PROFESSIONAL ENGINEER

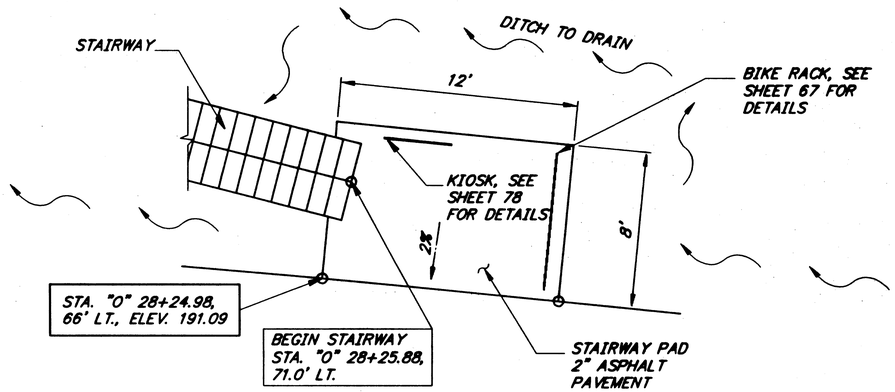


PLAN - PARKING LAYOUT

PROFILE - STAIR



SECTION A



STAIRWAY PAD DETAIL

N/A

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-Parking2		
PLOT: FULL=20 or HALF=40		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

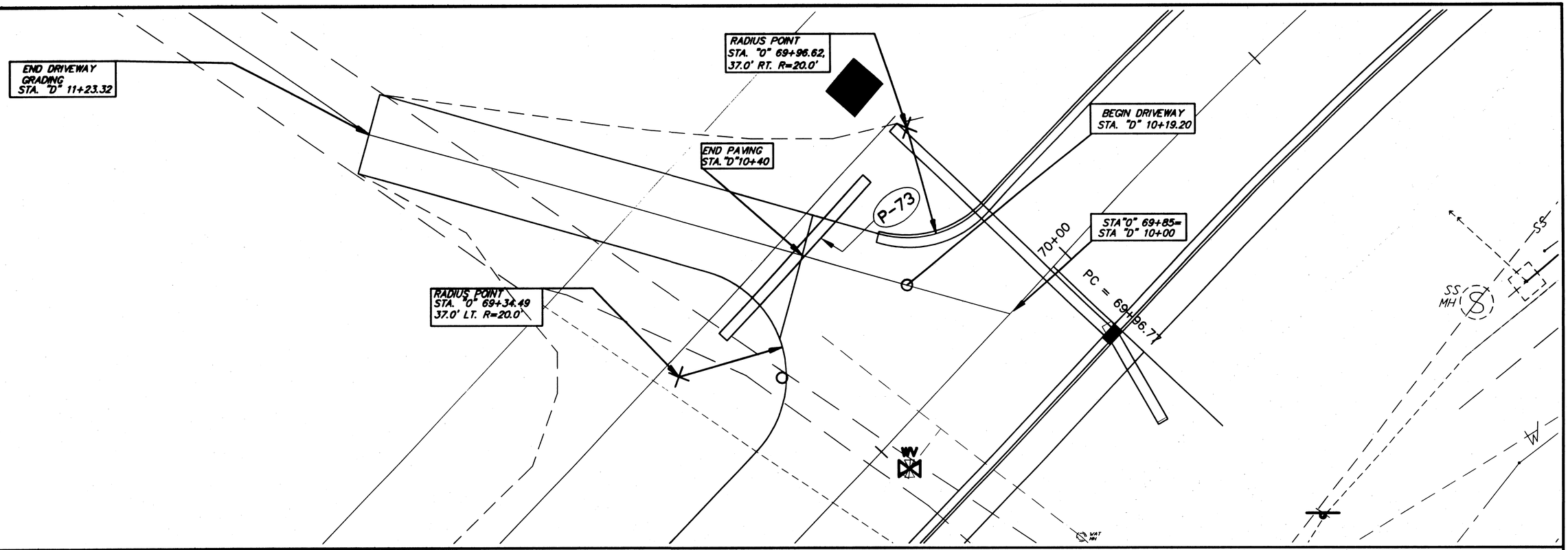
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
PARKING LAYOUT

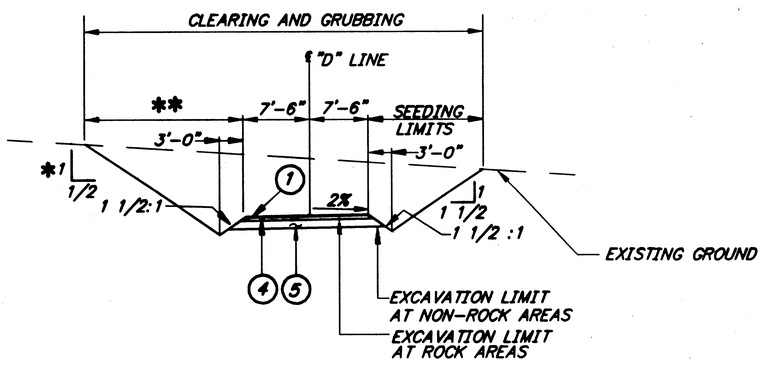
DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: C. Morrow	SHEET 27 OF 93

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



LEGEND

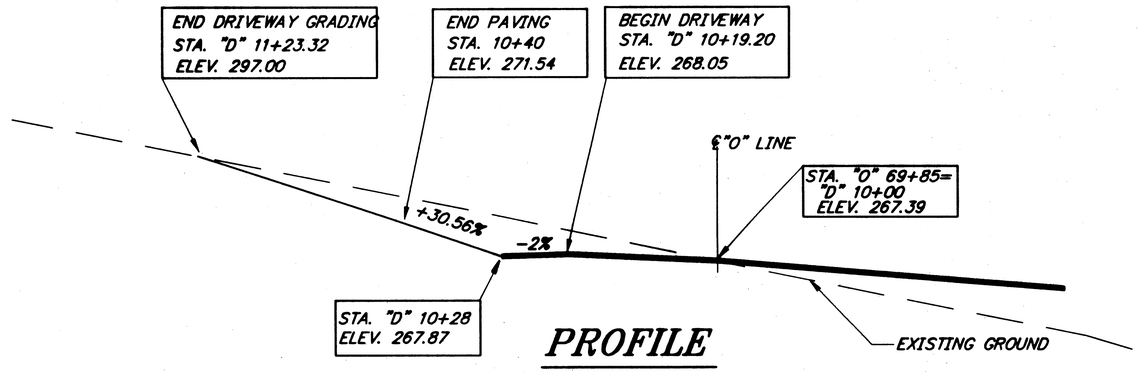
1. 2 1/2" ASPHALT CONCRETE PAVEMENT
4. 4" CRUSHED AGGREGATE BASE COURSE
5. 12" SUBBASE, GRADING "B"



TYPICAL SECTION

*BACKSLOPE SHALL BE 1 1/2:1 IF NON-ROCK

** SEEDING REQUIRED IF CUT SURFACE CONSISTS OF NON-ROCK



PROFILE

Built to top of Subbase only.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	O:\Ktn\71811\Dr\typsec2.dwg 10/11/99 02:00:23 PM PM ADT		
PLOT:	P:\-LIB\-PLOT\PLOTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

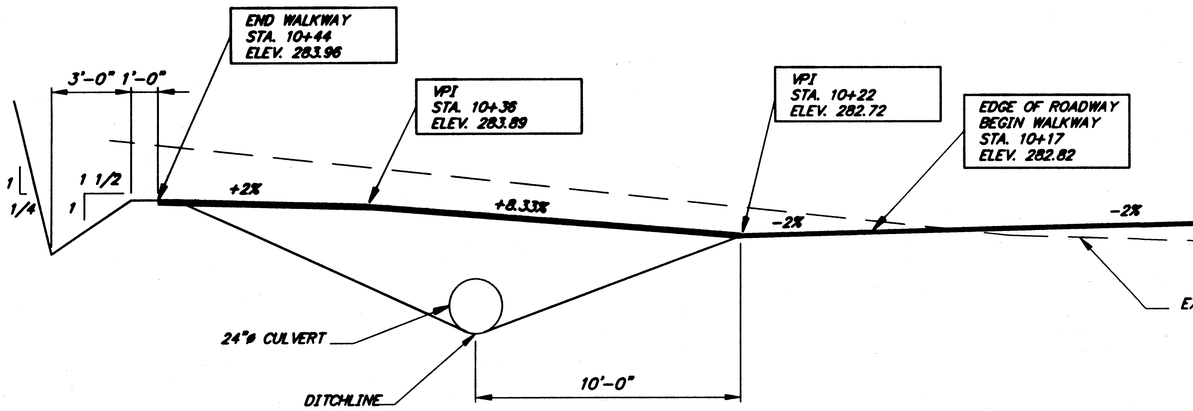
KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA

STP-MG-0904(1) ~ PROJECT NO. 71811

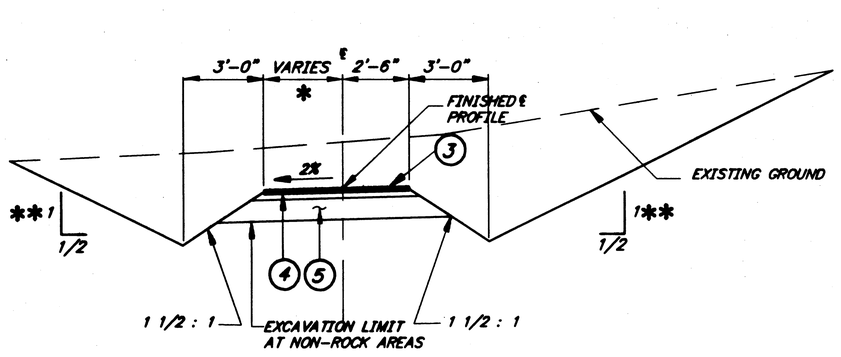
MISCELLANEOUS DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: K. Klemmetson	DATE: 1999
CHECKED BY: D. Saldivar	SHEET 28 OF 93

STATE OF ALASKA — David D. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER



WALKWAY PROFILE



TYPICAL SECTION

LEGEND

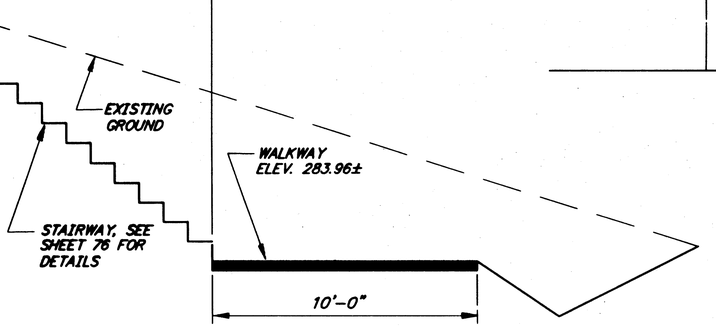
(3) 1 1/2" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK

(4) 4" CRUSHED AGGREGATE

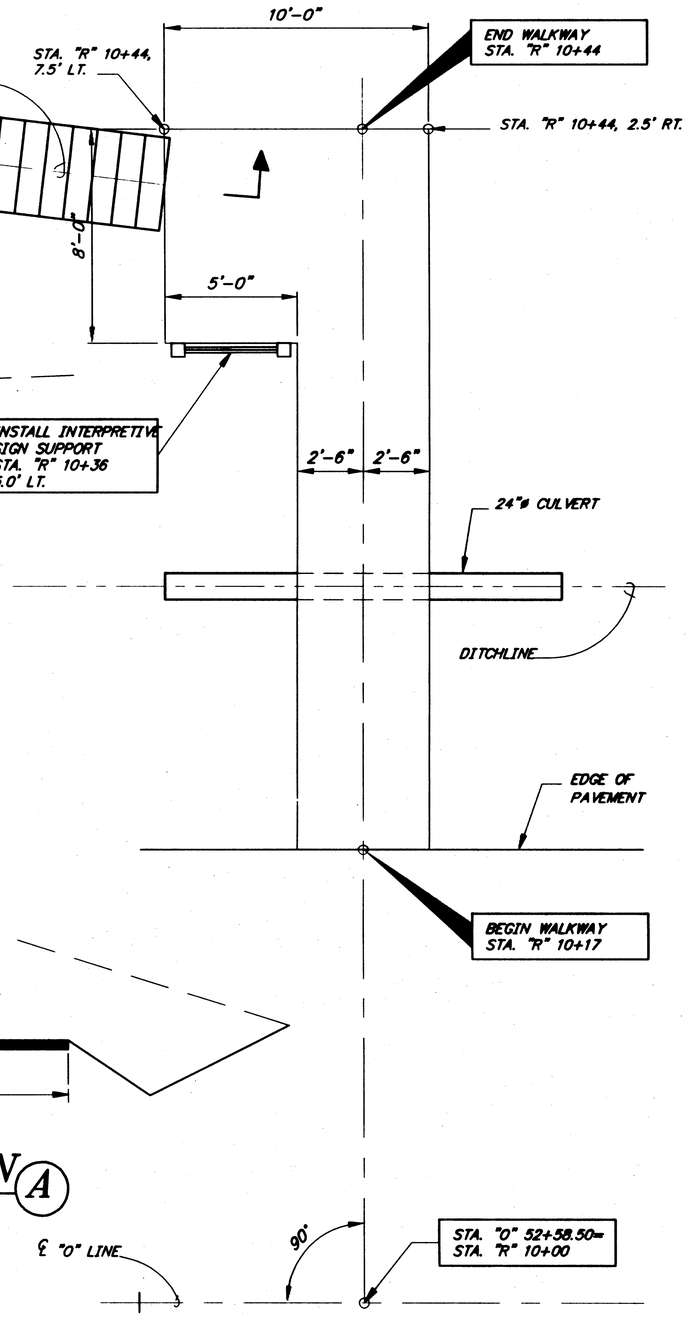
(5) 12" SUBBASE, GRADING "B"

* 2'-6" – STA. 10+17 TO STA. 10+36
7'-6" – STA. 10+36 TO STA. 10+44

** 1 1/2 :1 SLOPE IN NON-ROCK AREAS



STAIRWAY SECTION (A)



WALKWAY LAYOUT

N/A

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-Typ10		
PLOT: FULL=3 or HALF=6		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

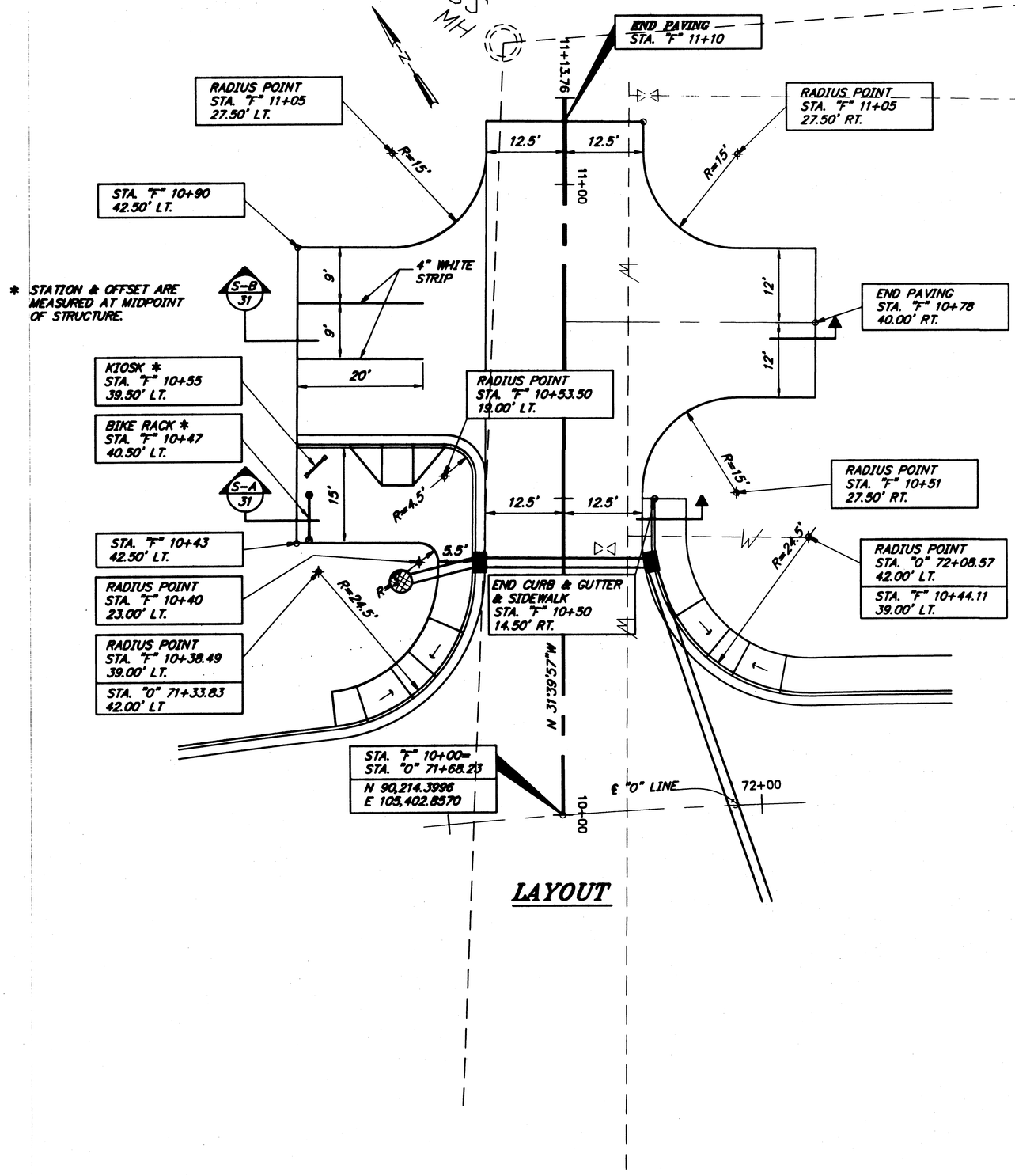
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

TYPICAL SECTIONS

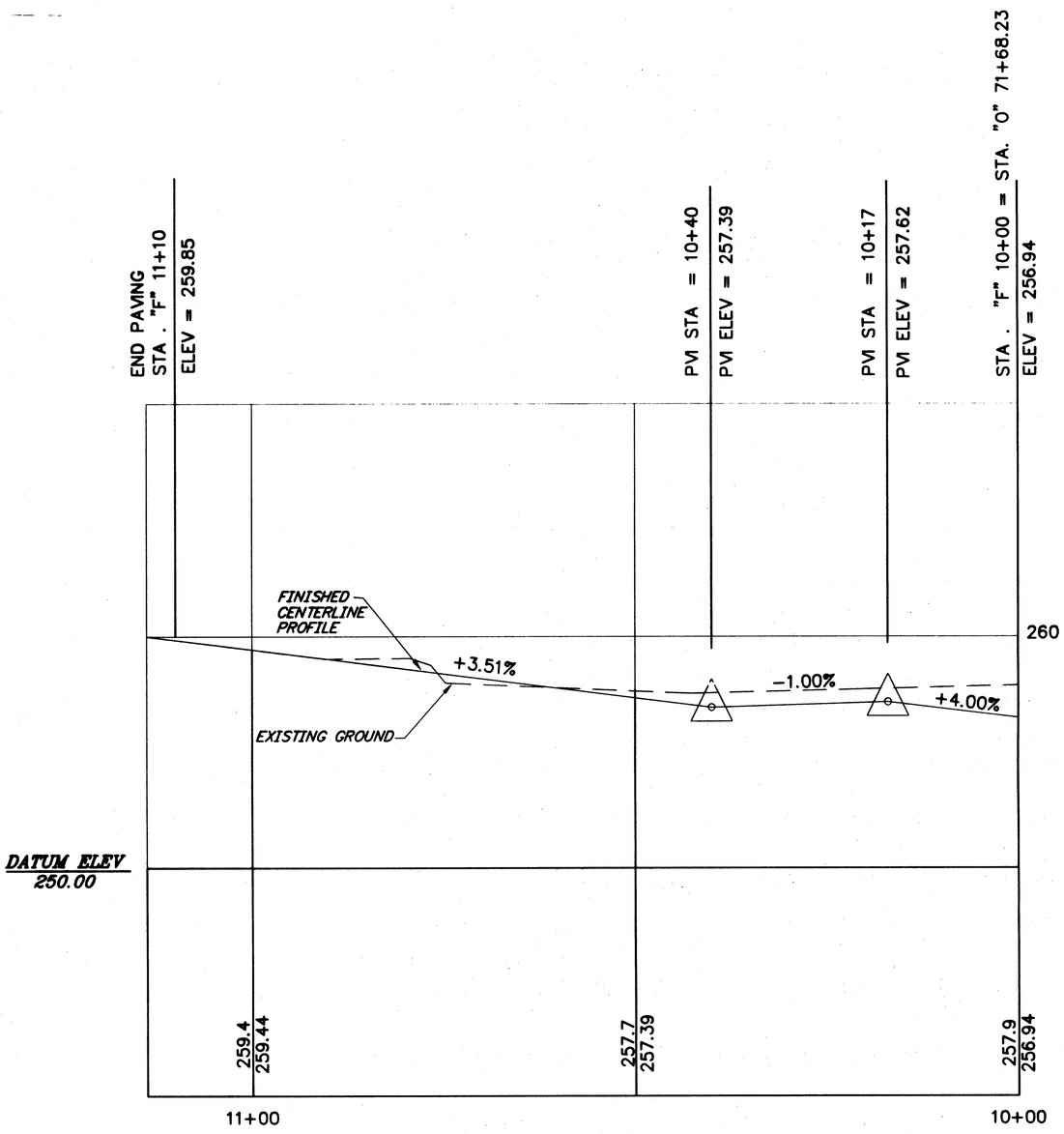
DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 29 OF 93

STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



LAYOUT

NOTE:
1. RADIUS IS MEASURED TO BACK OF CURB
2. SEE SHEET 78 FOR KIOSK DETAIL
3. SEE SHEET 67 FOR BIKE RACK DETAIL



PROFILE

N/A

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

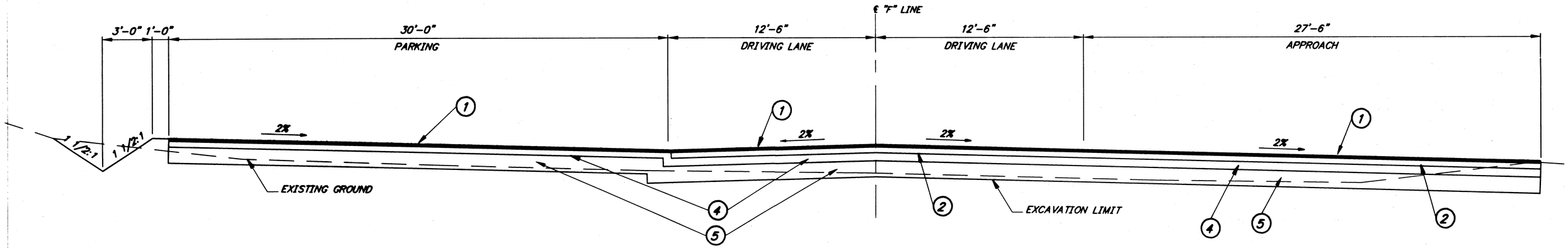
KETCHIKAN ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

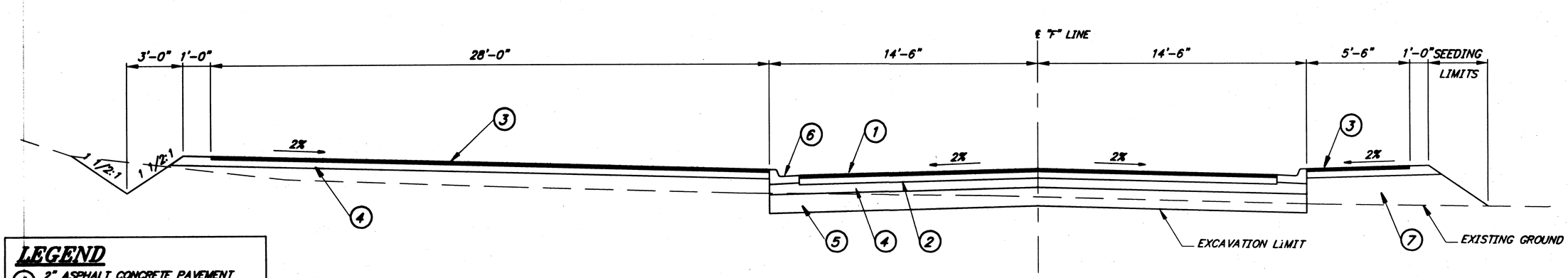
PARKING LAYOUT

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: C. Morrow	SHEET 30 OF 93

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



SECTION B
PARKING



SECTION A
PARKING

LEGEND

1. 2" ASPHALT CONCRETE PAVEMENT TYPE II, CLASS A
2. 2" ASPHALT TREATED BASE COURSE
3. 1 1/2" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK
4. 4" CRUSHED AGGREGATE
5. 12" SUBBASE, GRADING "C"
6. CURB & GUTTER, TYPE 1
7. BORROW TYPE "B" OR USEABLE UNCLASSIFIED EXCAVATION
9. STE-1 ASPHALT FOR TACK COAT
10. 4" CONCRETE SIDEWALK

N/A

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH:	C:\KTN\71811\DR\-Typ9	
PLOT:	FULL=3 or HALF=6	
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

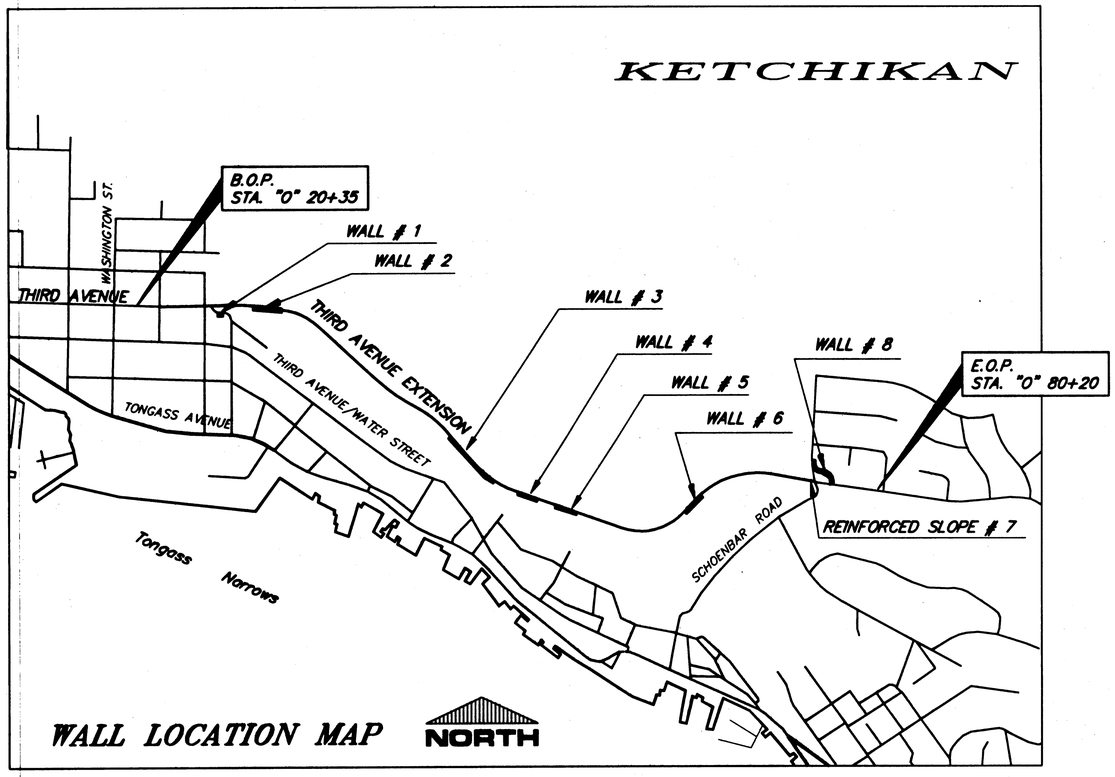
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

TYPICAL SECTIONS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 31 OF 93

STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



WALL LOCATION MAP

GENERAL NOTES:

1. Water may be encountered during the excavation phase for the MSE Walls and Reinforced Embankment. The Contractor shall submit a drainage plan to the Engineer for approval, prior to commencing excavation for each Retaining Wall Site or Reinforced Embankment Site. Drainage Plans Will Be an Amendment To The Projects SWPPP.
2. Adjustments may be necessary to some MSE Retaining Wall Site or Reinforced Embankment areas line and grade. Prior to construction, the Contractor shall verify each Retaining Wall and Reinforced Embankment Sites line and grade with the Engineer.
3. Bottom of retaining may vary from the drawings. Bottom of retaining will be determined, base on the amount of excavation to firm ground or bedrock as required by the Engineer.

MSE WALL & REINFORCED SLOPE:

MATERIALS:

DESIGN DATA		
MSE BACKFILL	δ / ϕ	130 / 40°
RANDOM BACKFILL	δ / ϕ	125 / 35°
FOUNDATION SOIL	δ / ϕ	130 / 40°
FOUNDATION BEDROCK		

FOUNDATION FOR WALLS AND STEEPEND SLOPES WILL BE ON SOUND BEDROCK.

FACTORS OF SAFETY FOR STEEPEND SLOPES:
INTERNAL F.S. = 1.3
SLIDING F.S. = 1.5
PULLOUT F.S. = 1.5

SURCHARGE: 350#/ft.², OVER 35' ROADWAY.

Design peak horizontal seismic acceleration (90% probability not to be exceeded in 50 years) on rock = 0.02g.

WALL	LOCATION	TYPE
~~WALL # 1~~	STA. "A" 10+25, RT. TO STA. "A" 12+50, RT.	REINFORCED CONCRETE
~~WALL # 2~~	STA. "0" 24+50, RT. TO STA. "0" 25+75, RT.	MSE
~~WALL # 3 / REINFORCED SLOPE~~	STA. "0" 43+00, RT. TO STA. "0" 50+00, RT.	MSE & REINFORCED SLOPE
WALL # 4 Completed	STA. "0" 54+00, RT. TO STA. "0" 56+50, RT.	MSE
WALL # 5 Completed	STA. "0" 58+50, RT. TO STA. "0" 59+75, RT.	MSE
WALL # 6 Completed	STA. "0" 66+75, RT. TO STA. "0" 68+00, RT.	MSE
~~REINFORCED SLOPE # 7~~ Stacked Rock	STA. "0" 75+25, LT. TO STA. "0" 76+10, LT.	~~REINFORCED SLOPE~~
WALL # 8 Completed	STA. "FC" 10+35, RT. TO STA. "FC" 10+65, RT.	MSE

SPECIFICATIONS:

AASHTO Standard Specifications for Highway Bridges, 1996 Edition with the latest specifications.
Design Loading = HS25, Design Life = 75 Years

CONSTRUCTION:

State of Alaska Standard Specifications for Highway Construction, 1988 Edition and the Special Provisions.

*Note: Walls 4, 5 & 6 completed to Top of Subbase only.

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: [PlotStamp Eval] 13/Sep/99 Q:\Ktn\71811\Dr\-RWLayout.dwg		
PLOT: FULL=1 or HALF=2		
BY:	DATE:	DESCRIPTION OF CHANGE:

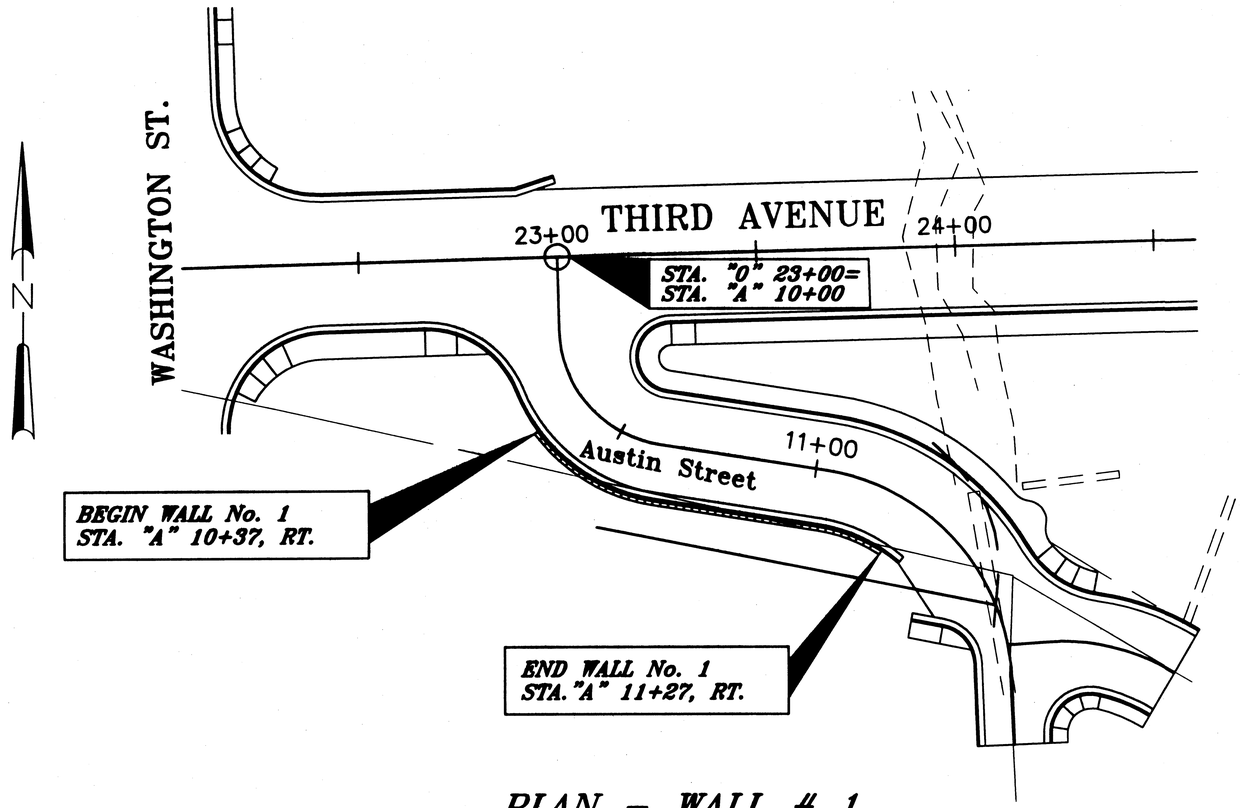
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
RETAINING WALL LOCATIONS

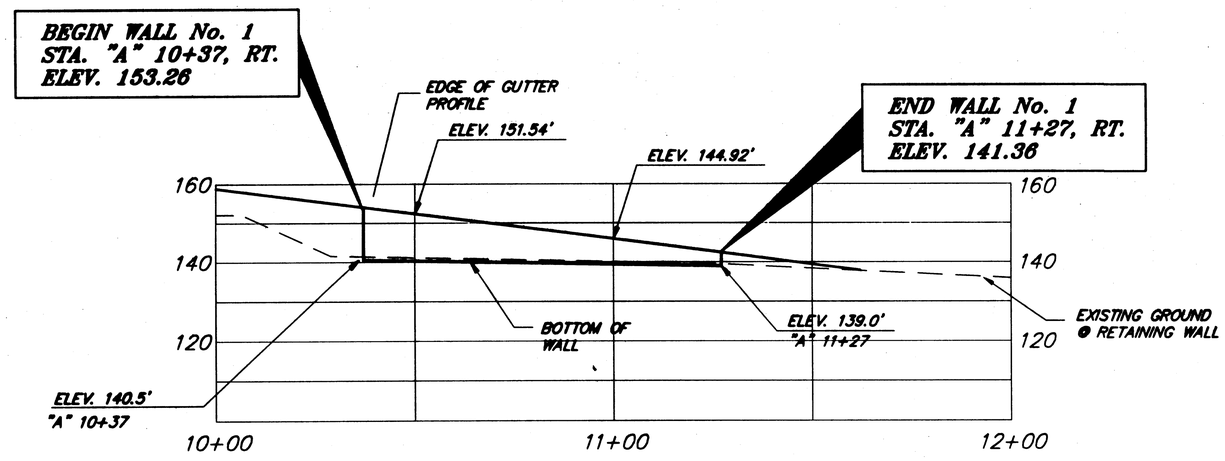
DESIGNED BY: E. Ellis/V. Judd	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 32 OF 93

STATE OF ALASKA 49th — Keith Korri CE-5126 — REGISTERED PROFESSIONAL ENGINEER



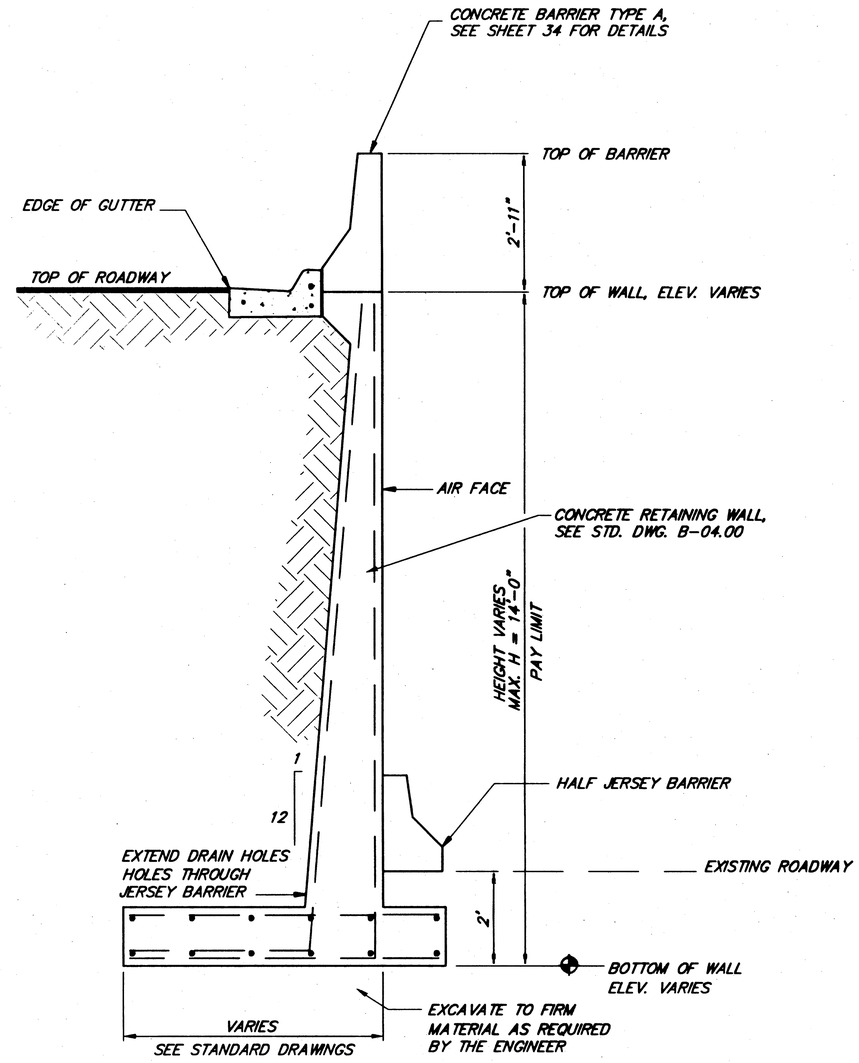
PLAN – WALL # 1

STA. "A" 10+37 TO STA. "A" 11+27



PROFILE – WALL # 1

STA. "A" 10+37 TO STA. "A" 11+27



TYPICAL SECTION – WALL # 1

N/A

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: [PlotStamp Eval] C:\Ktn\71811\Dr\-RWall-6.dwg Fri, 10/Sep/99 08:51am
PLOT: FULL=10 or HALF=20

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

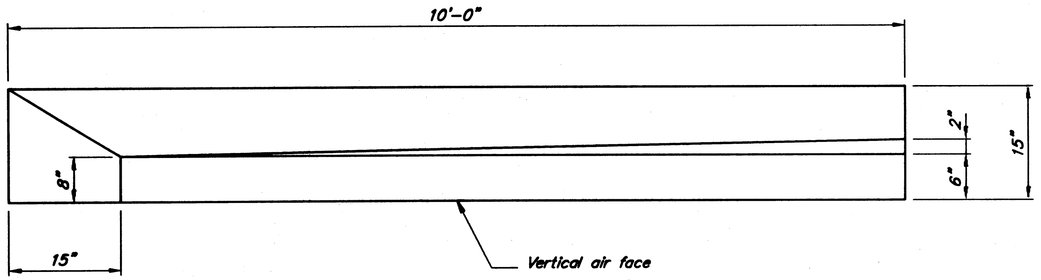
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

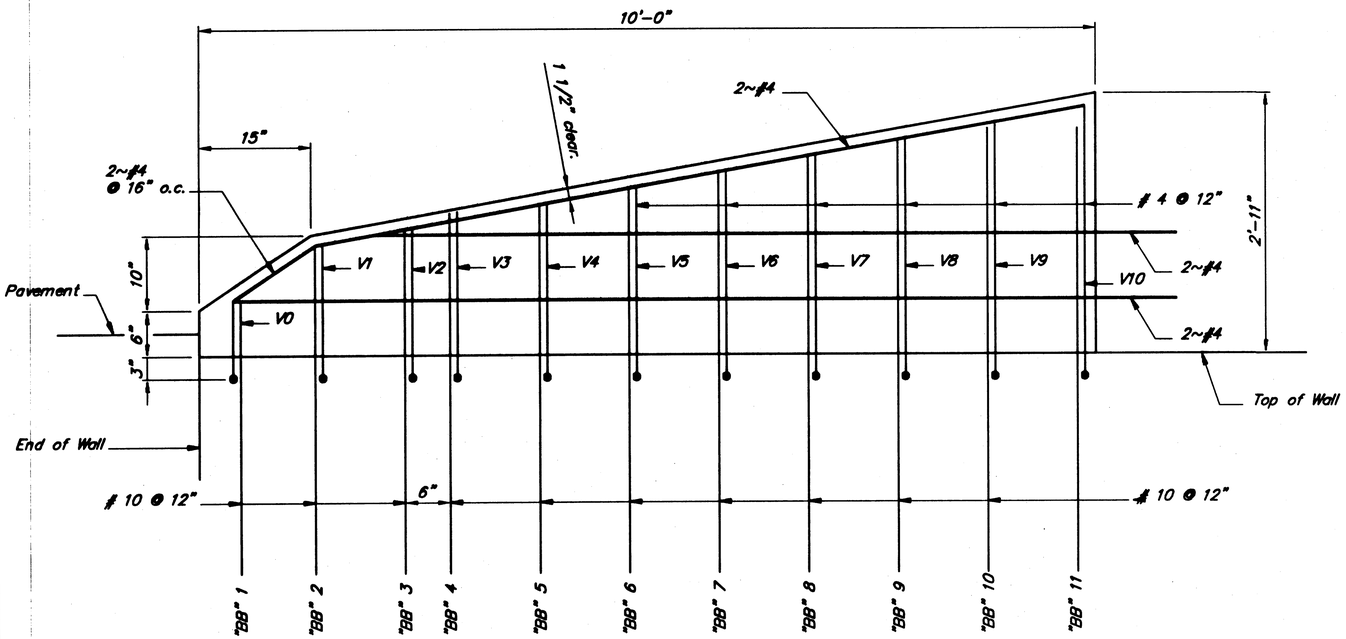
RETAINING WALL No. 1

DESIGNED BY: V. Judd/E. Ellis	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 33 OF 93

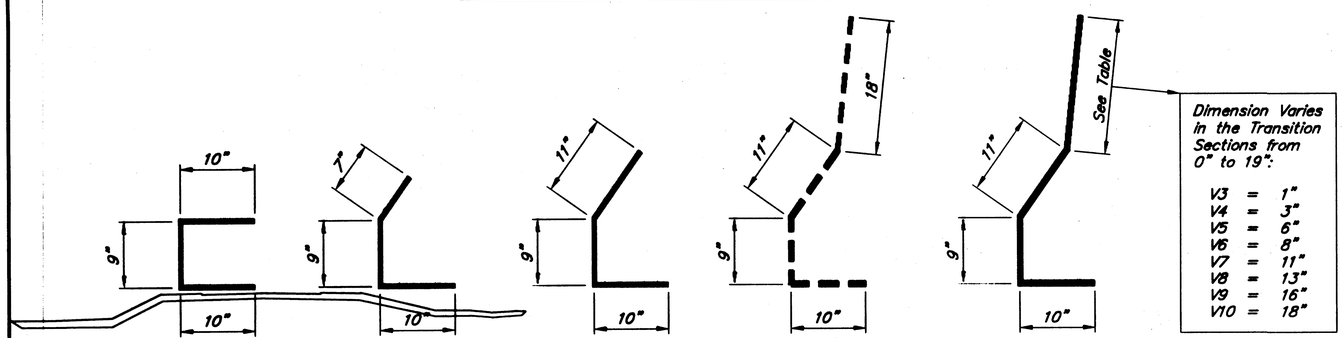
STATE OF ALASKA
49th
Keith Korri
CE-5126
REGISTERED PROFESSIONAL ENGINEER



Transition Plan



Transition Elevation



Dimension Varies in the Transition Sections from 0" to 19":

V3	=	1"
V4	=	3"
V5	=	6"
V6	=	8"
V7	=	11"
V8	=	13"
V9	=	16"
V10	=	18"

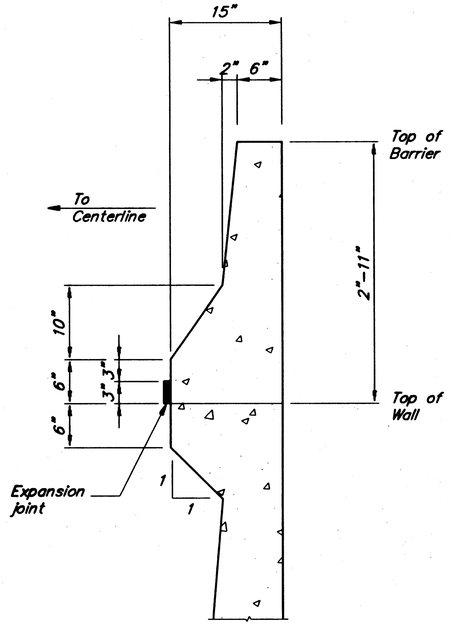
Bar V0 — **# 6**

Bar V1 — **# 6**

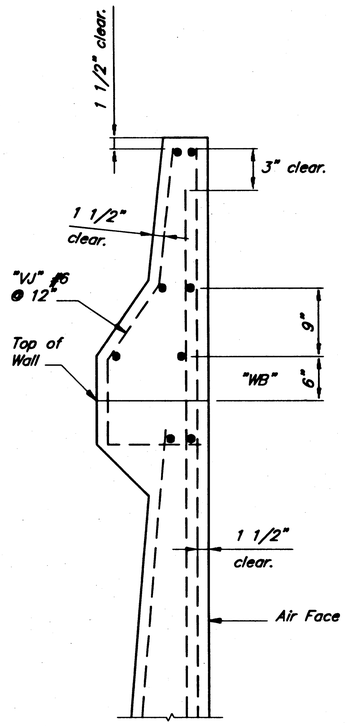
Bar V2 — **# 6**

Bar "VJ" — **# 6**

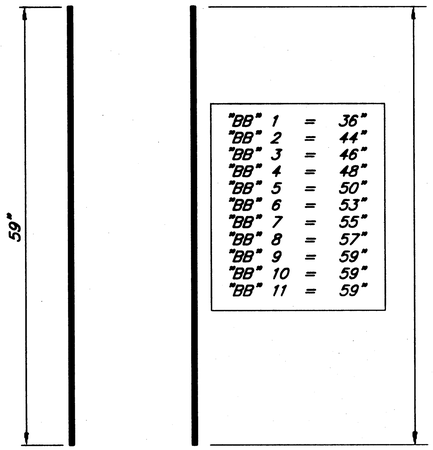
Bar V — **# 4**



Concrete Barrier
Type A



Rebar Detail



Bar "WB" — **# 10**

"BB" 1	=	36"
"BB" 2	=	44"
"BB" 3	=	46"
"BB" 4	=	48"
"BB" 5	=	50"
"BB" 6	=	53"
"BB" 7	=	55"
"BB" 8	=	57"
"BB" 9	=	59"
"BB" 10	=	59"
"BB" 11	=	59"

Bar "BB" — **# 10**

Notes:

1. Concrete shall be Class A, f'_c = 4,000 psi @ 28 Days
2. Concrete clear cover for reinforcing bars shall be minimum of 1 1/2".
3. Reinforcing steel bars shall conform to A.S.T.M. A-615 Grade 60.
4. Expansion joints shall be installed at the beginning and ending of the transition.
5. Expansion joints shall be installed at 10 foot intervals for length of half concrete barrier.
6. Connector hooks and pins (per Standard Drawing G-45.01 or approved equivalent) shall be used to fasten the concrete barrier end section to the half concrete barrier unless the contractor chooses to cast-in-place the concrete barrier end section, in which the hooks and pins shall be eliminated.
7. Modify Standard Drawing G-45.01 as follows:
   A. Eliminate the two 2"x6" keys in base (as shown in the G-45.00 Transition Elevation View) and increase base depth to 6 inches.

N/A

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] 10/Sep/99 Q:\Ktn\71811\Dr\-RWDet6.dwg
PLOT: FULL=16 or HALF=32

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

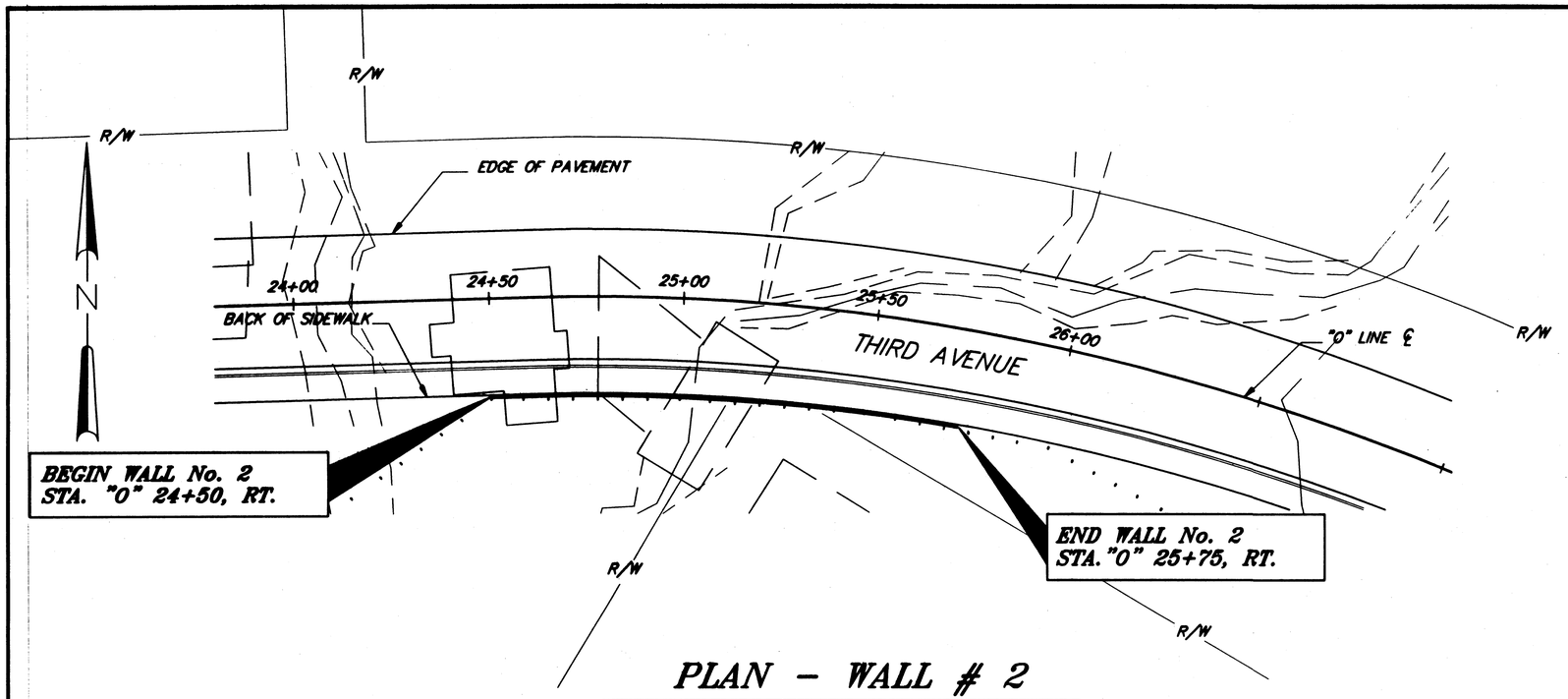
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

RETAINING WALL DETAILS

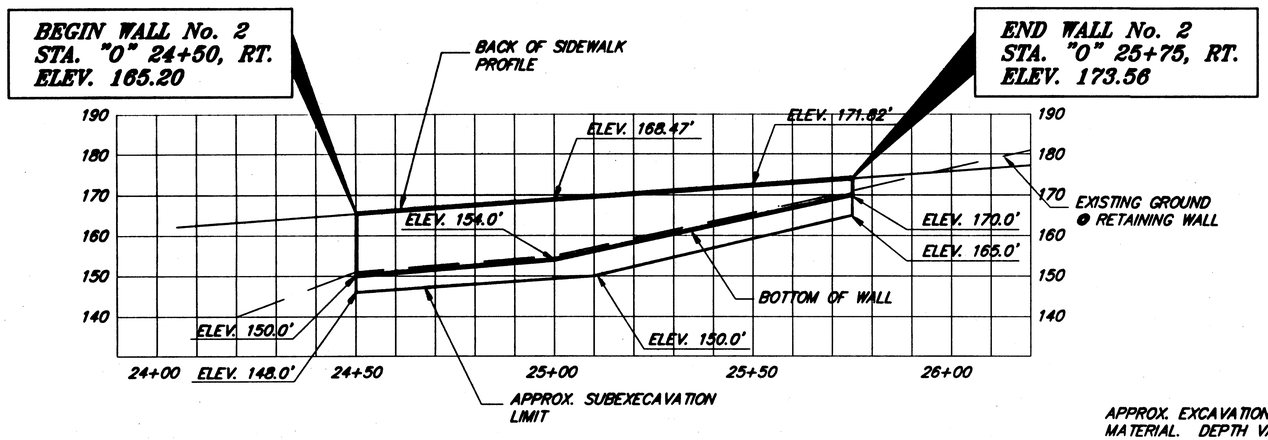
DESIGNED BY: E. Ellis/V. Judd	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 34 OF 93

STATE OF ALASKA 49th Keith Korri CE-5126 REGISTERED ENGINEER



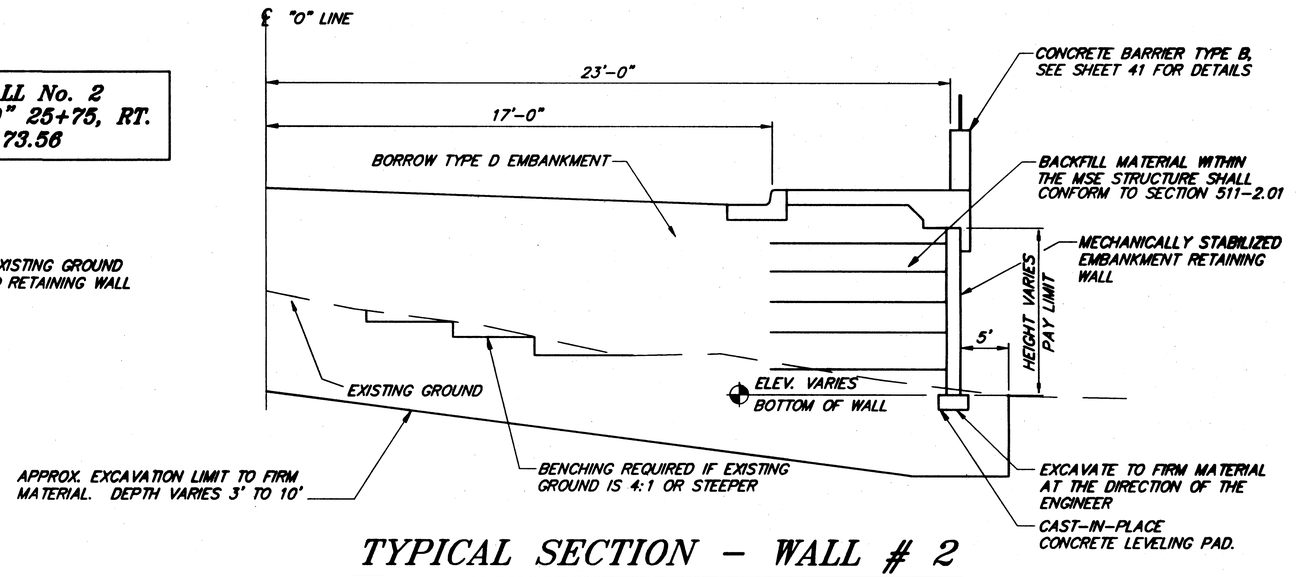
PLAN – WALL # 2

STA. "0" 24+50 TO STA. "0" 25+75



PROFILE – WALL # 2

STA. "0" 24+50 TO STA. "0" 25+75



TYPICAL SECTION – WALL # 2

N/A

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: [PlotStamp Eval] 10/Sep/99 Q:\Ktn\71811\Dr\-RWall-1.dwg		
PLOT: FULL=10 or HALF=20		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

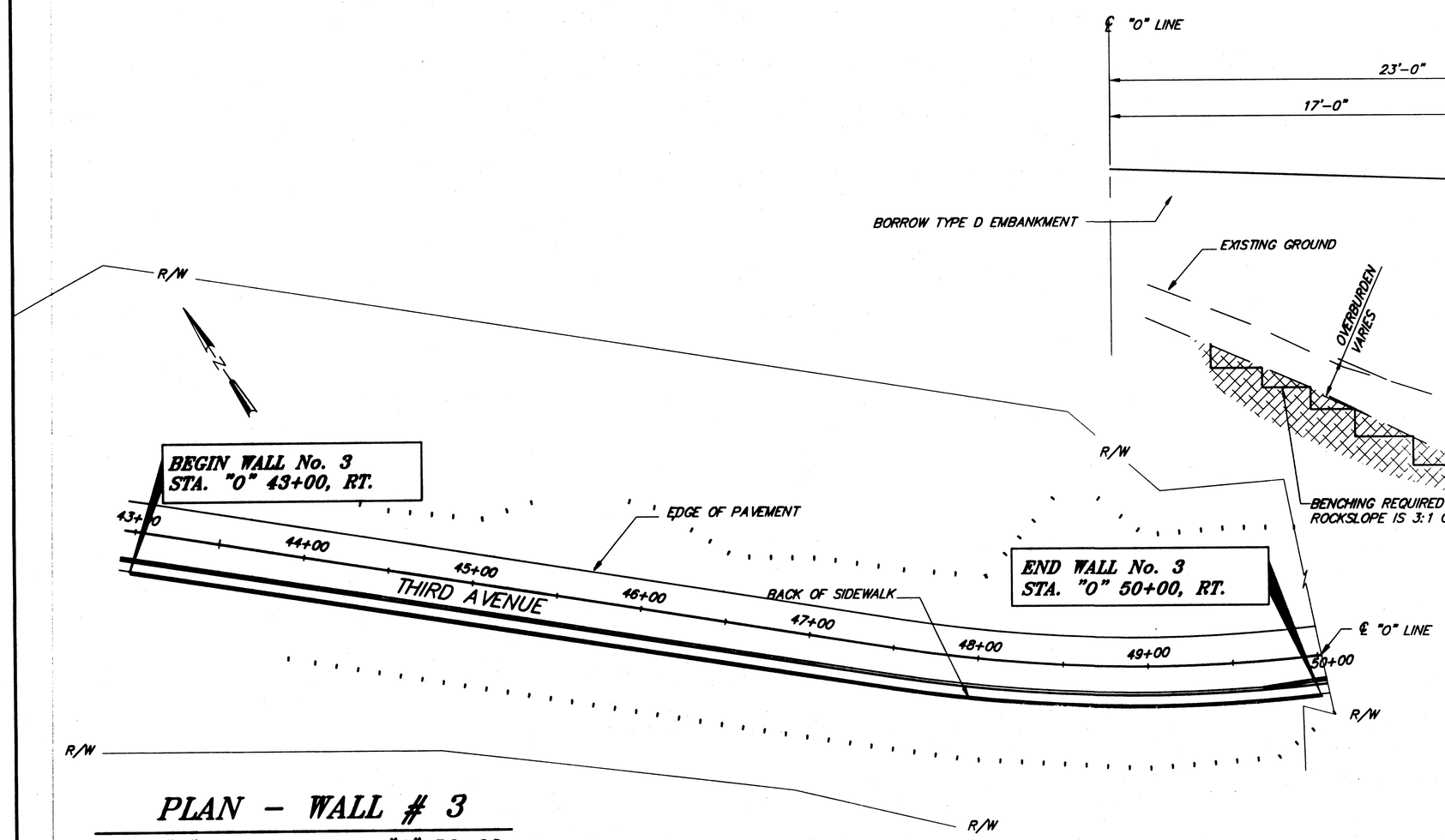
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

RETAINING WALL No.21

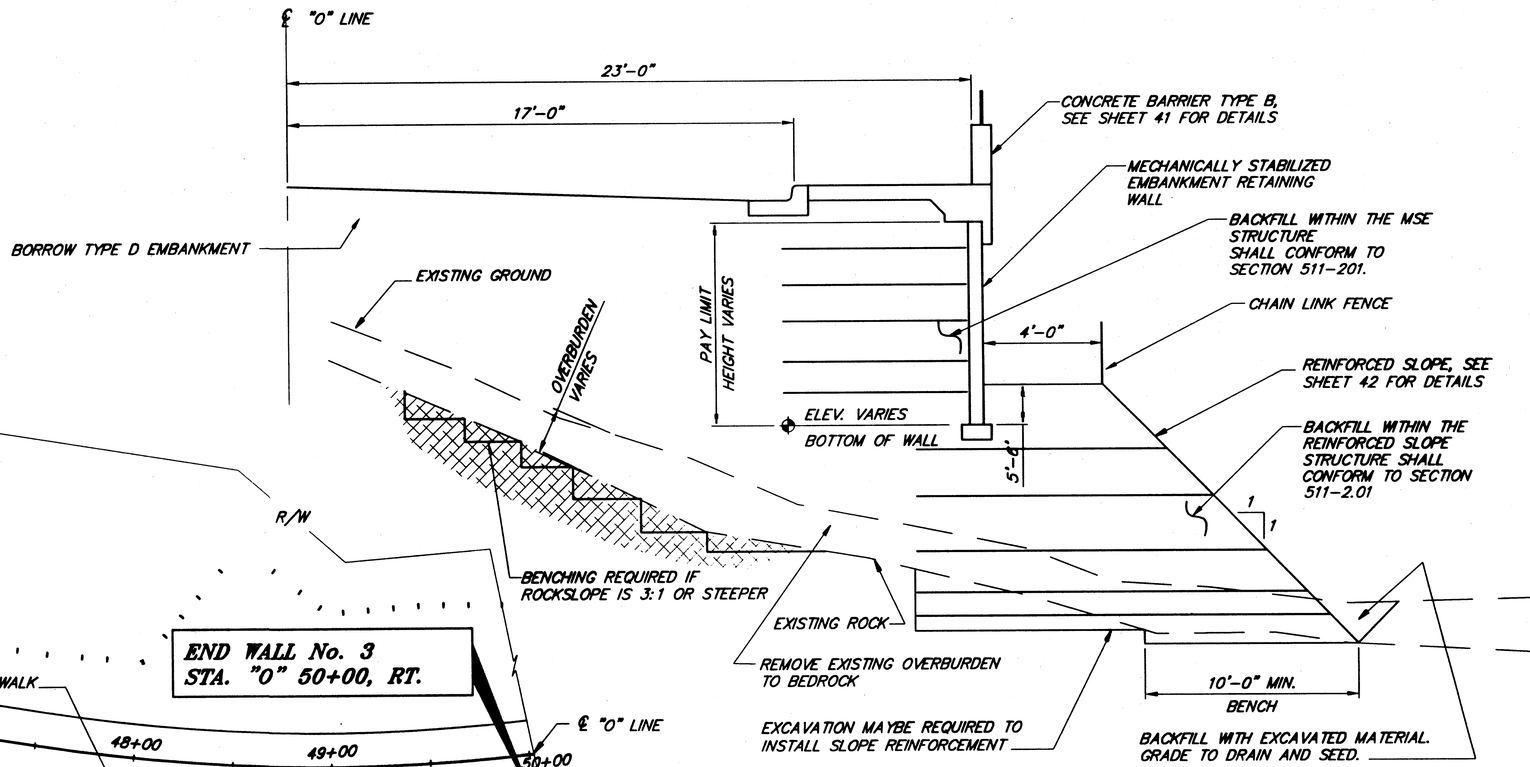
DESIGNED BY: V. Judd/E. Ellis	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 35 OF 93

STATE OF ALASKA 49th
Keith Korri CE-5126



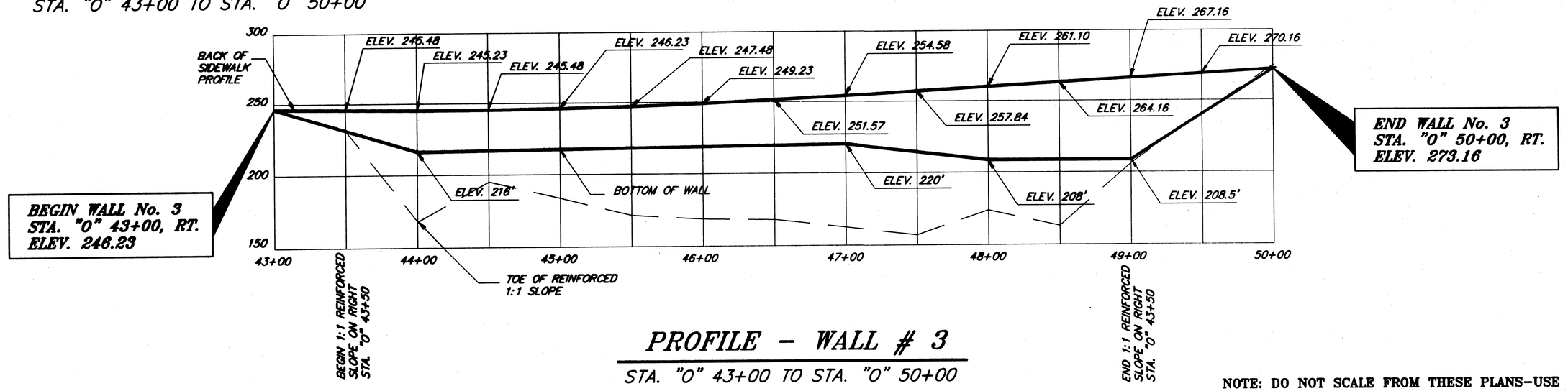
PLAN – WALL # 3

STA. "0" 43+00 TO STA. "0" 50+00



TYPICAL SECTION – WALL # 3

STA. "0" 43+00 TO STA. "0" 50+00



PROFILE – WALL # 3

STA. "0" 43+00 TO STA. "0" 50+00

N/A

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: [PlotStamp Eval] G:\Ktn\71811\Dr\-rwall-2.dwg Fri, 10/Sep/99 09:08am
PLOT: FULL=10 or HALF=20

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

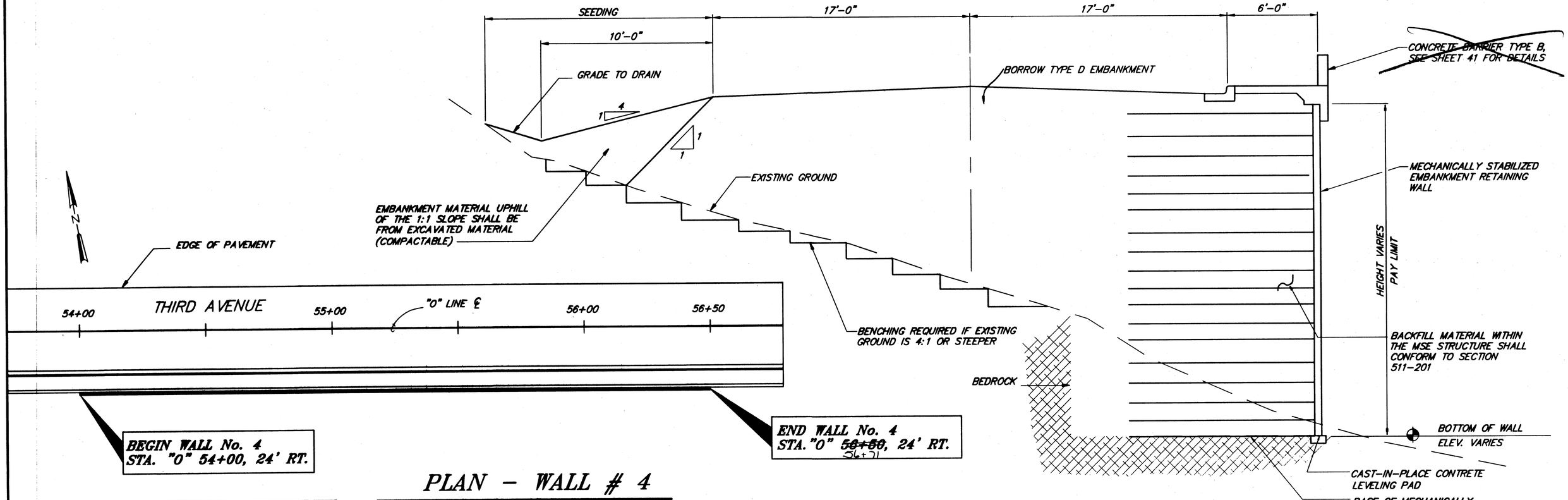
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

RETAINING WALL No. 3

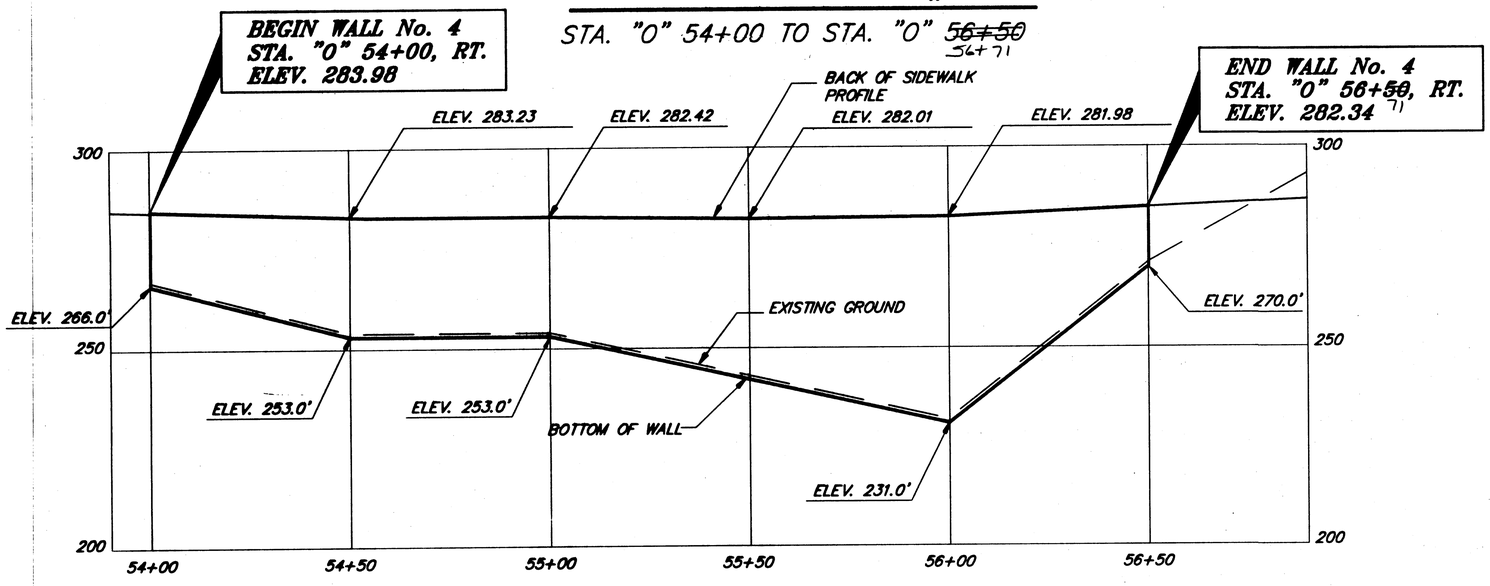
DESIGNED BY: E. Ellis/V. Judd	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 36 OF 93

STATE OF ALASKA 49th Keith Korri CE-5126 PROFESSIONAL ENGINEER



PLAN - WALL # 4

STA. "0" 54+00 TO STA. "0" ~~56+50~~ 56+71



PROFILE - WALL # 4

STA. "0" 54+00 TO STA. "0" ~~56+50~~ 56+71

TYPICAL SECTION - WALL # 4

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] G:\Krtn\71811\Dr\-RWall-3.dwg Fri, 10/Sep/99 09:18am		
PLOT: FULL=10 or HALF=20		
BY:	DATE:	DESCRIPTION OF CHANGE:

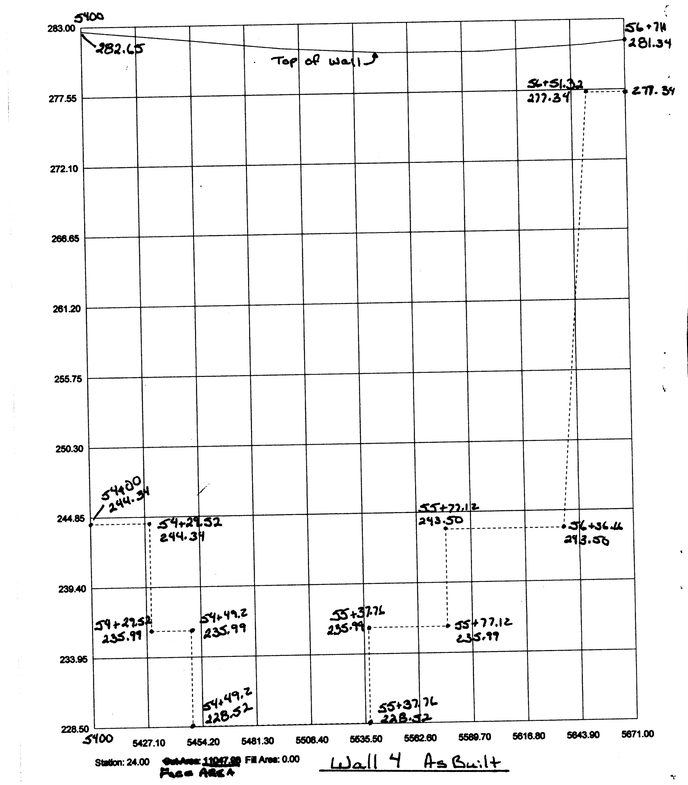
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
RETAINING WALL No. 4

DESIGNED BY: E. Ellis/V. Judd	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 37 OF 93

STATE OF ALASKA 49th Keith Korri CE-5126 REGISTERED ENGINEER

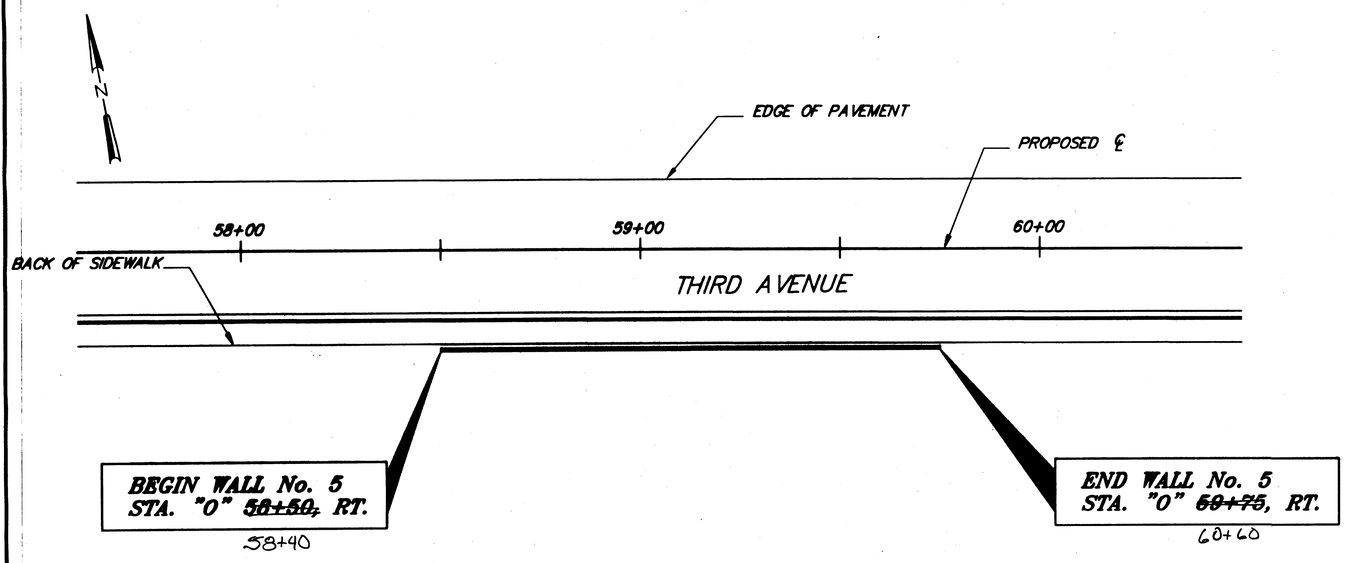


Ak.D.O.T./P.F.
Ketchikan,Ak.
907-225-4810

Earth Cross-Sections Table - Wall 4 Face (Section)

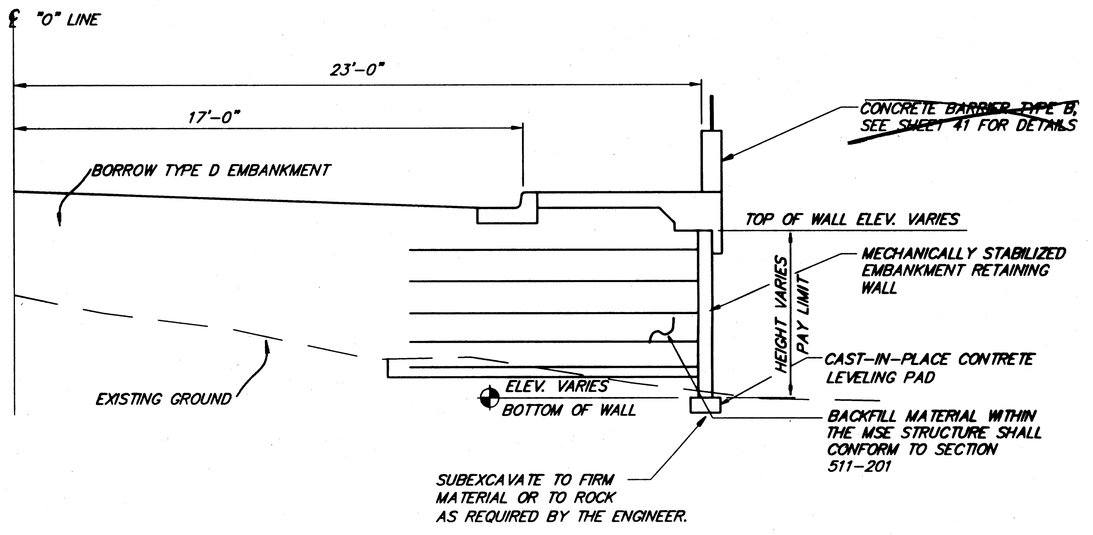
Page 1

24.00	Template (Face of Wall)	1	5400.00	282.65
		2	5400.00	282.65
		3	5400.00	244.34
		4	5429.52	244.34
		5	5429.52	236.99
		6	5449.20	236.99
		7	5449.20	228.52
		8	5537.76	228.52
		9	5537.76	236.99
		10	5577.12	236.99
		11	5577.12	243.50
		12	5636.16	243.50
		13	5651.32	277.34
		14	5671.00	277.34
		15	5671.00	281.34
		16	5671.00	281.34
24.00	Ground (Top of Wall)	1	5400.00	282.65
		2	5490.00	281.90
		3	5500.00	281.10
		4	5550.00	280.68
		5	5600.00	280.85
		6	5650.00	281.04
		7	5671.00	281.34

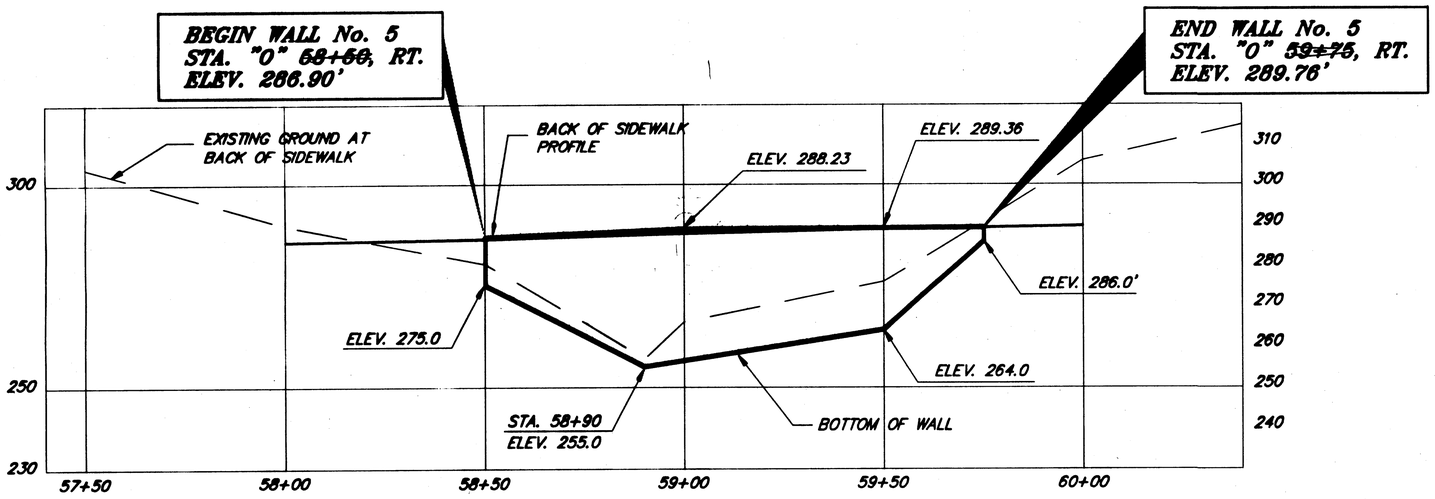


PLAN – WALL # 5

STA. "0" 58+50 TO STA. "0" 59+75



TYPICAL SECTION – WALL # 5



PROFILE – WALL # 5

STA. "0" ~~58+50~~ 58+40 TO STA. "0" 59+75 60+60

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: [PlotStamp Eval] G:\Vtn\71811\Dr\–RWall–4.dwg Mon, 13/Sep/99 11:21am		
PLOT: FULL=10 or HALF=20		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

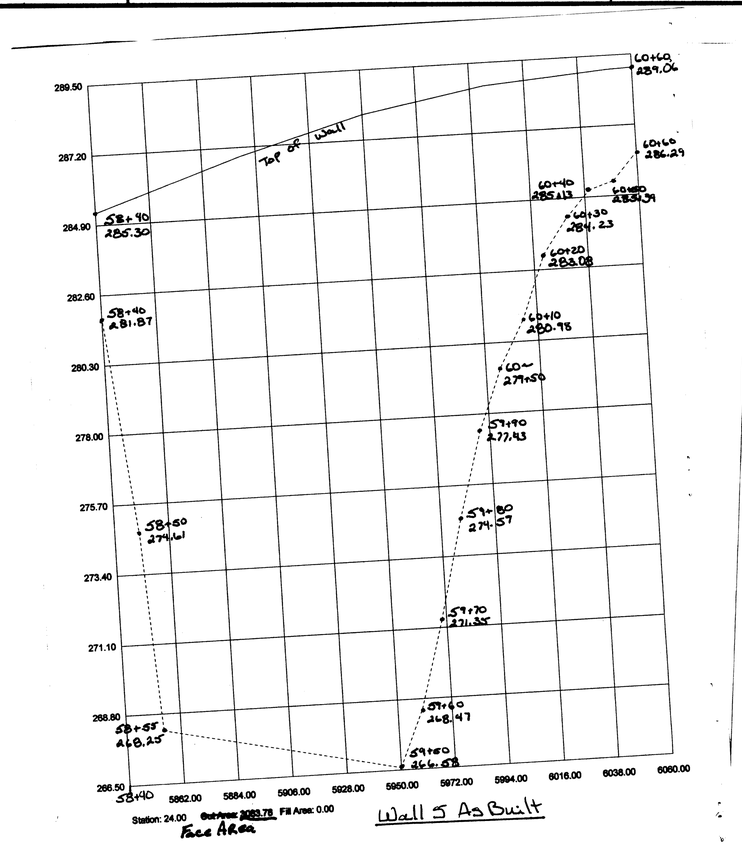
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

RETAINING WALL No. 5

DESIGNED BY: E. Ellis/V. Judd	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 38 OF 93

STATE OF ALASKA — 49th — Kevin Korri CE-5126 — REGISTERED PROFESSIONAL ENGINEER

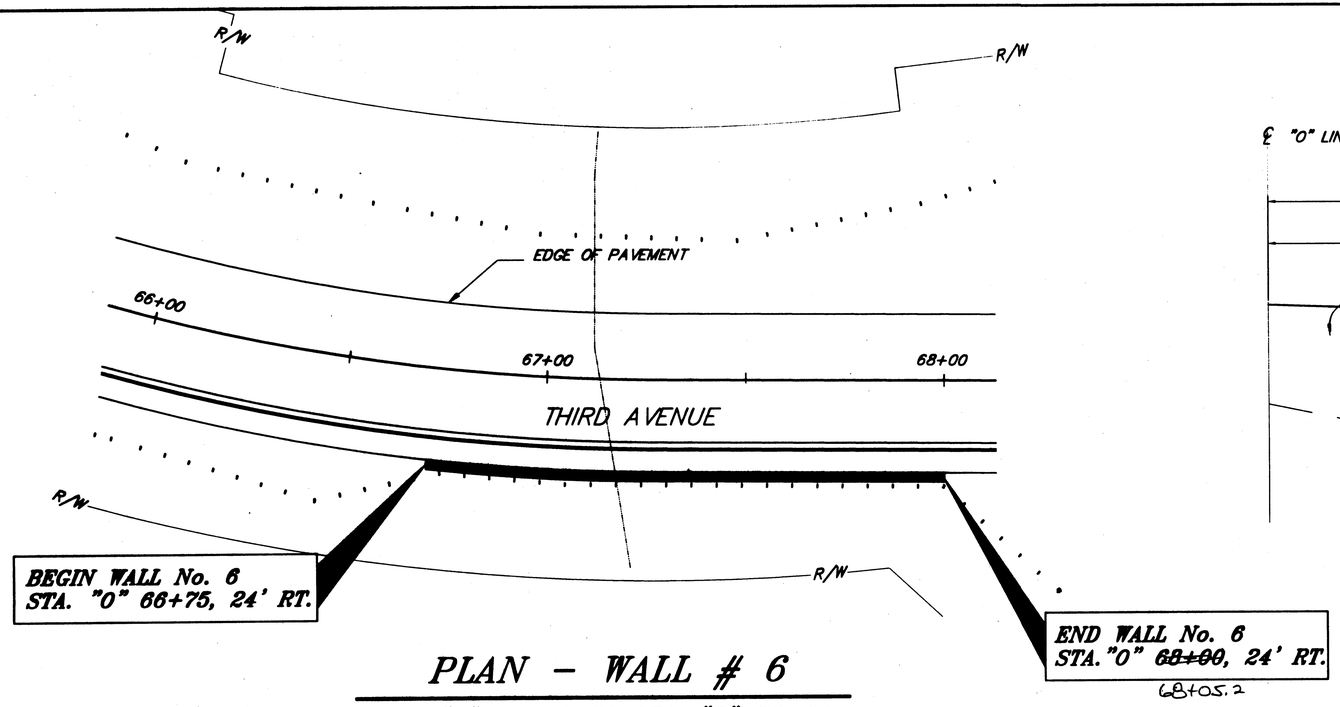


Ak.D.O.T./P.F.
Ketchikan,Ak.
907-225-4510

Earth Cross-Sections Table - Wall 5 Face

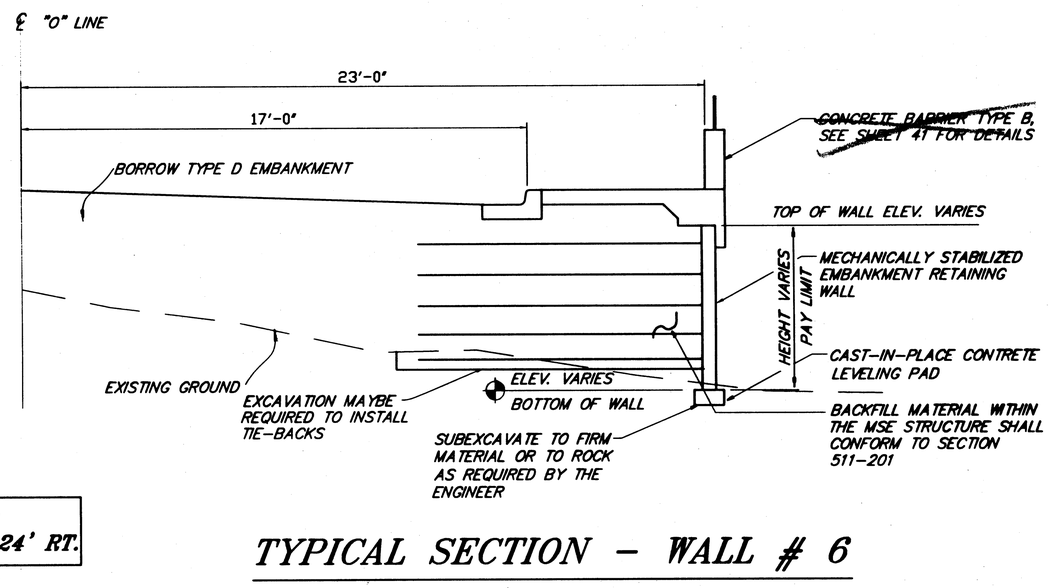
Page 1

24.00	Template (Face of Wall)	1	5840.00	286.30
		2	5840.00	281.87
		3	5850.00	274.61
		4	5855.00	268.25
		5	5860.00	266.58
		6	5960.00	268.47
		7	5970.00	271.35
		8	5980.00	274.59
		9	5990.00	277.43
		10	6000.00	279.50
		11	6010.00	280.98
		12	6020.00	283.08
		13	6030.00	284.23
		14	6040.00	285.13
		15	6050.00	285.39
		16	6060.00	286.29
		17	6060.00	289.06
24.00	Ground (Top of Wall)	1	5840.00	286.30
		2	5850.00	285.57
		3	5900.00	286.90
		4	5950.00	288.03
		5	6000.00	288.74
		6	6050.00	289.04
		7	6060.00	289.06

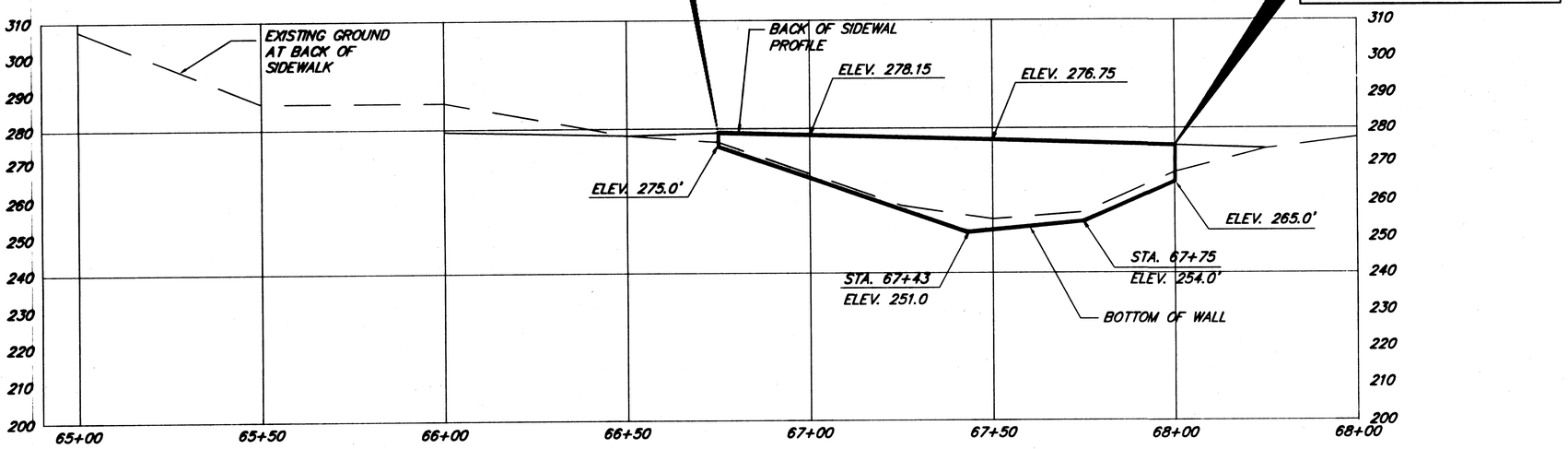


PLAN – WALL # 6

STA. "0" 66+75 TO STA. "0" ~~68+00~~ 68+05.2



TYPICAL SECTION – WALL # 6

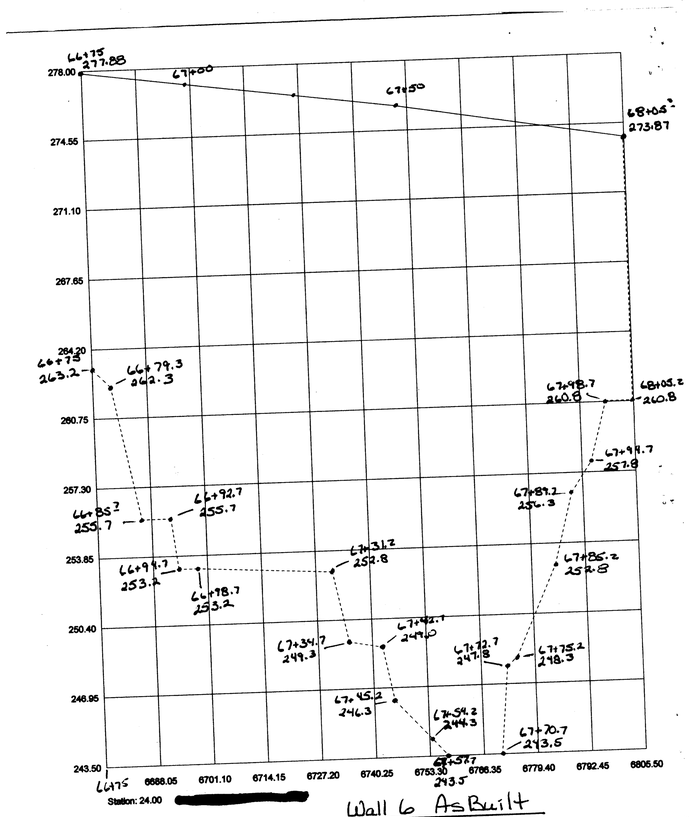


PROFILE – WALL # 6

STA. "0" 66+75 TO STA. "0" ~~68+00~~ 68+05.2

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

Q:\KTN\71811\DR\-RWALL-5 FULL=10 or HALF=20 DESCRIPTION OF CHANGE: RECORD OF REVISIONS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	KETCHIKAN	THIRD AVENUE EXTENSION STP-MG-0904(1) ~ PROJECT No. 71811 RETAINING WALL No. 6	ALASKA	DESIGNED BY: V. Judd/E. Ellis DRAWN BY: B. Bennett CHECKED BY: E. Ellis PROJECT NO. 71811 DATE: Sept. 1999 SHEET 39 OF 93



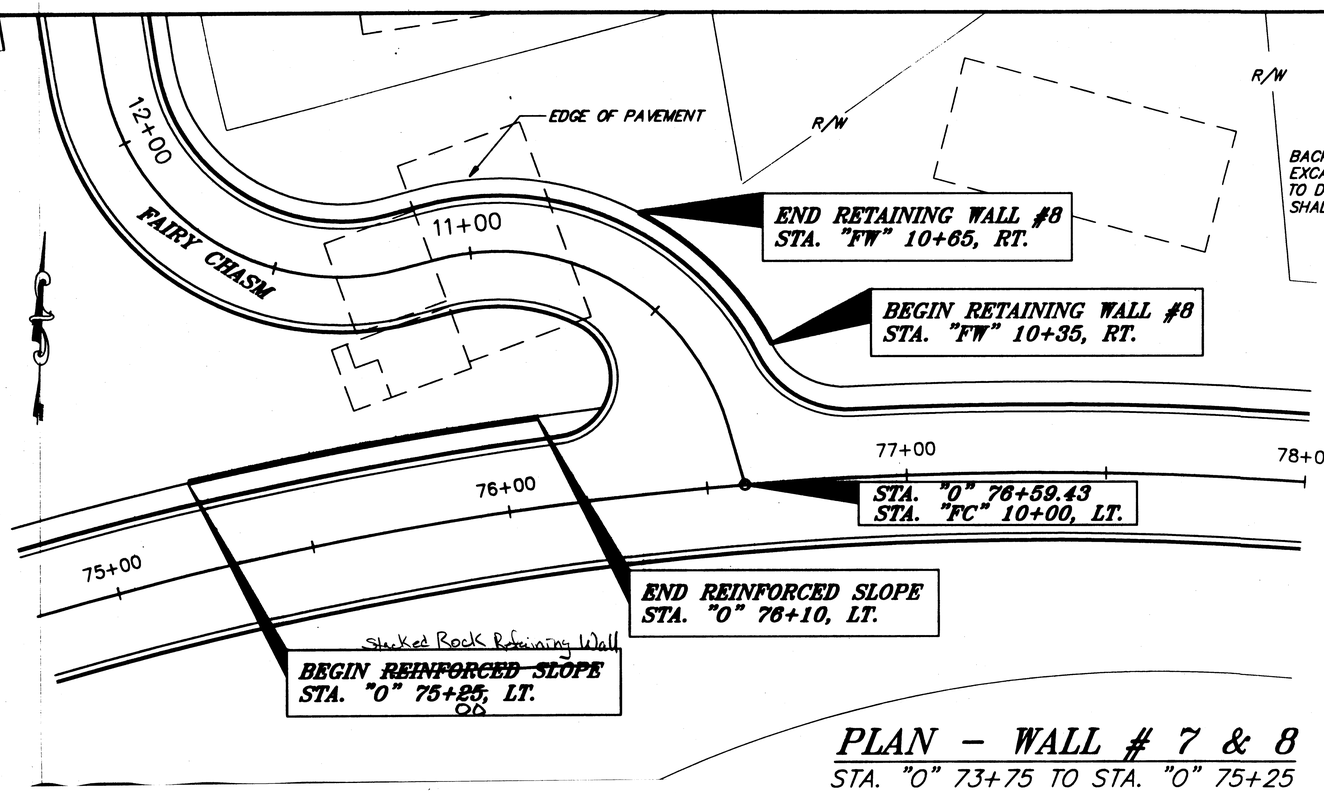
Wall 6 As Built
3097.5 sf (ms)

Ak.D.O.T./P.F.
Ketchikan,Ak.
907-228-4610

Earth Cross-Sections Table - Wall 6 Face

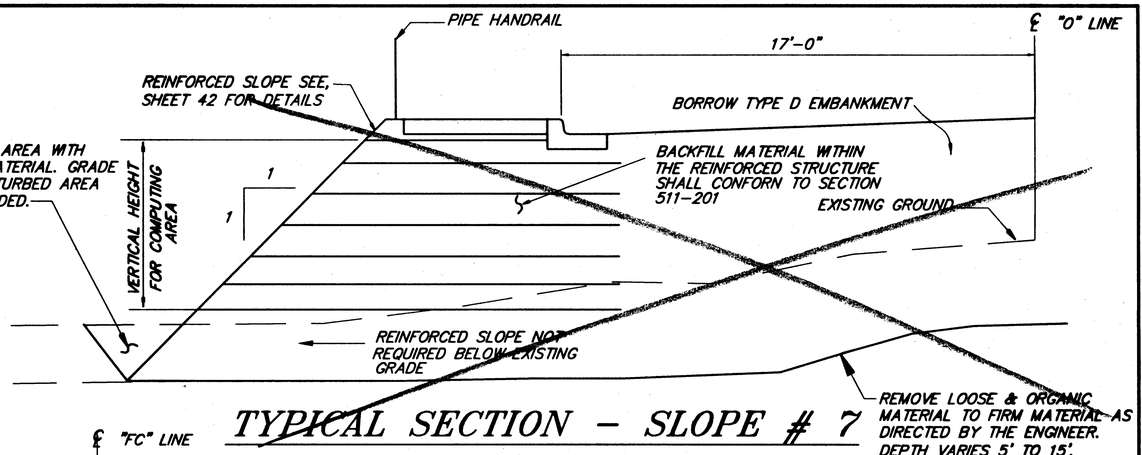
Page 1

24.00	Template(Wall Face)	1	6675.00	277.88
		2	6675.00	263.20
		3	6679.30	262.30
		4	6686.70	256.70
		5	6692.70	256.70
		6	6694.20	253.20
		7	6698.70	253.20
		8	6731.20	252.80
		9	6734.70	249.30
		10	6742.70	249.00
		11	6746.20	246.30
		12	6754.20	244.30
		13	6767.70	243.80
		14	6770.70	243.80
		15	6772.70	247.80
		16	6775.20	248.30
		17	6786.20	252.80
		18	6789.70	256.30
		19	6794.70	257.80
		20	6798.70	260.80
		21	6806.20	260.80
		22	6806.20	273.87
24.00	Ground(Top of Wall)	1	6675.00	277.88
		2	6700.00	277.18
		3	6728.33	276.46
		4	6750.00	275.76
		5	6806.20	273.87

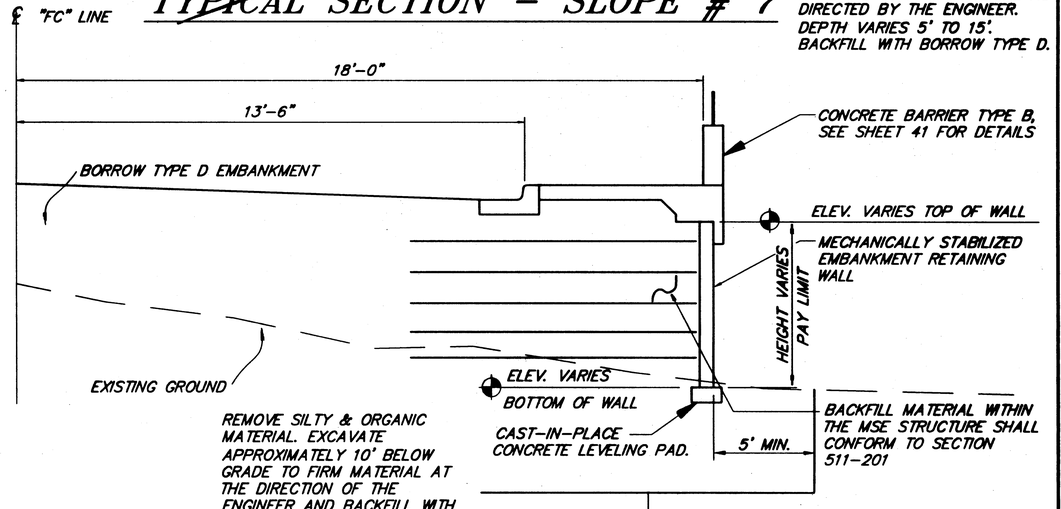


PLAN – WALL # 7 & 8

STA. "0" 73+75 TO STA. "0" 75+25



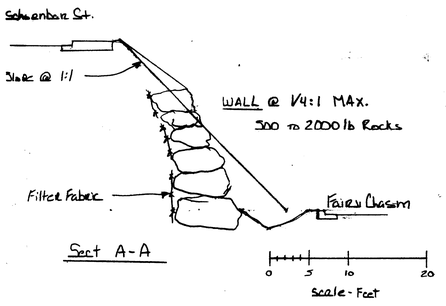
TYPICAL SECTION – SLOPE # 7

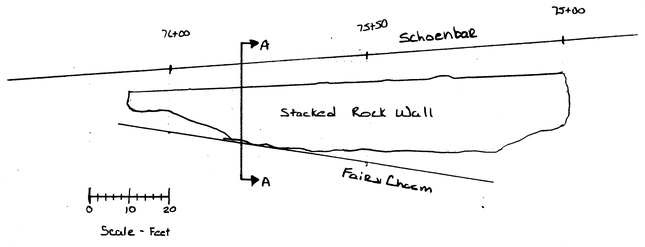


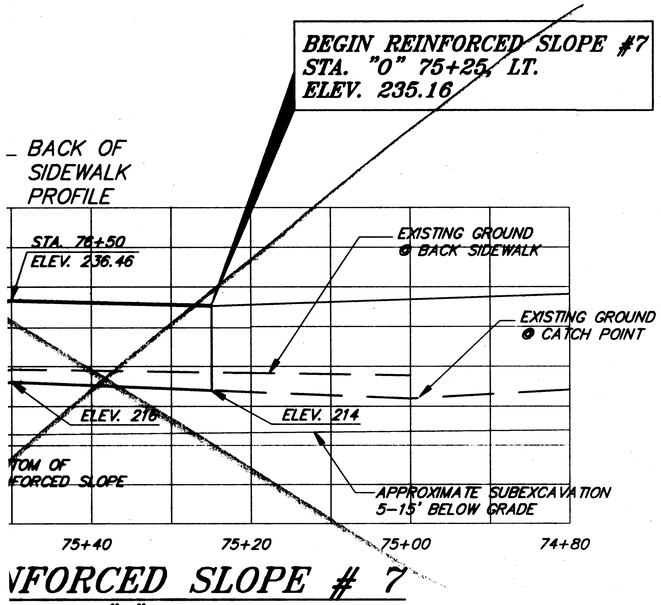
TYPICAL SECTION – WALL # 8

Wall 7 - Stacked Rock Retaining Wall

Sta. '0' 75+00 to 76+10 Lt.

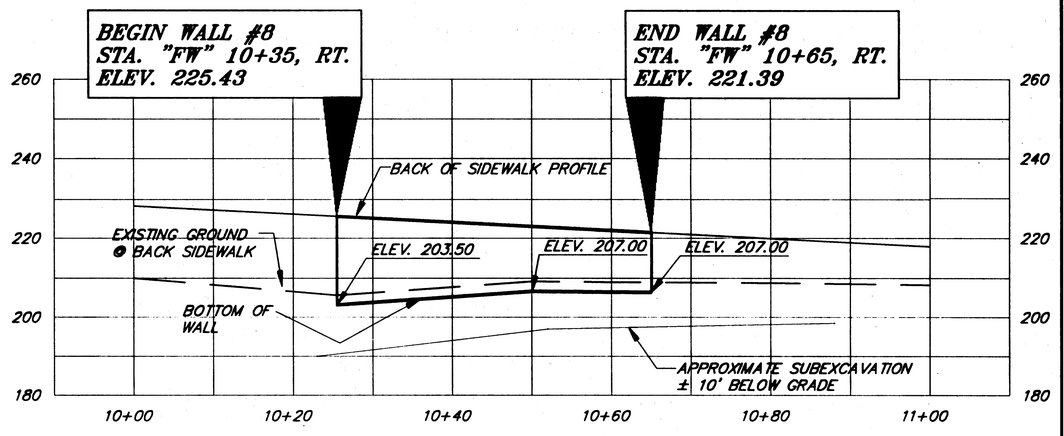






VFORCED SLOPE # 7

O STA. "0" 76+10, LT.



PROFILE – WALL #8

STA. "FW" 10+35, RT. TO STA. "FW" TO 10+65, RT.

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

RECORD OF REVISIONS

STATE OF ALASKA
PARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

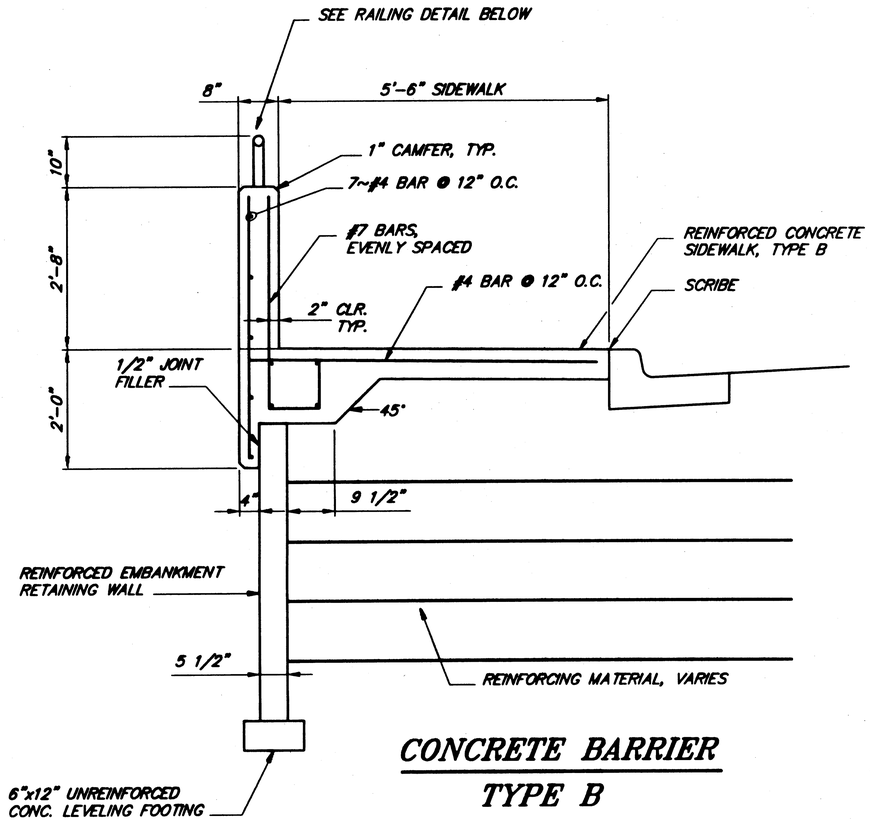
RETAINING WALL No. 7

ALASKA

DESIGNED BY: V. Judd/E. Ellis	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: April, 1999
CHECKED BY: E. Ellis	SHEET 40 OF 93

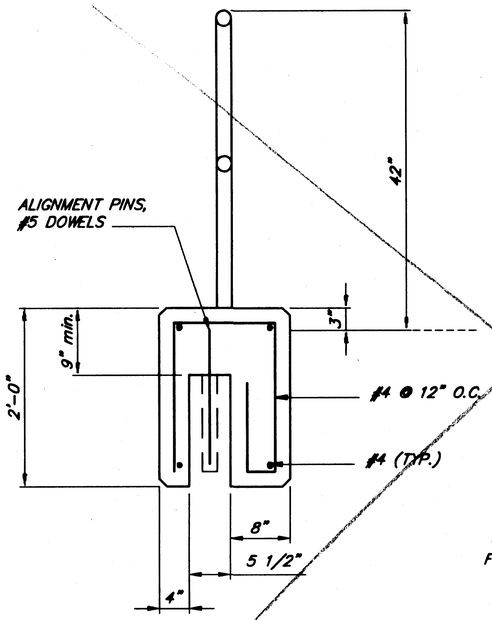
STATE OF ALASKA 49th
Keith Korri
CE-5126
REGISTERED PROFESSIONAL ENGINEER

NOTE: ALTERNATE DETAILS MAY BE SUBSTITUTED FOR APPROVAL.



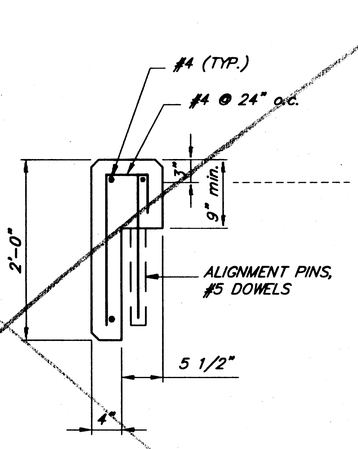
CONCRETE BARRIER
TYPE B

Wall 8 Only



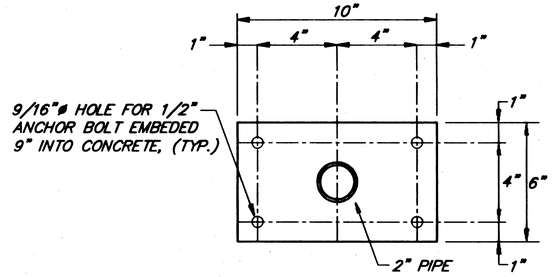
COPING, TYPE II
W/ 42" BALUSTRADE RAILING

FOR REINFORCED EMBANKMENT RETAINING WALLS IN A CUT SECTION

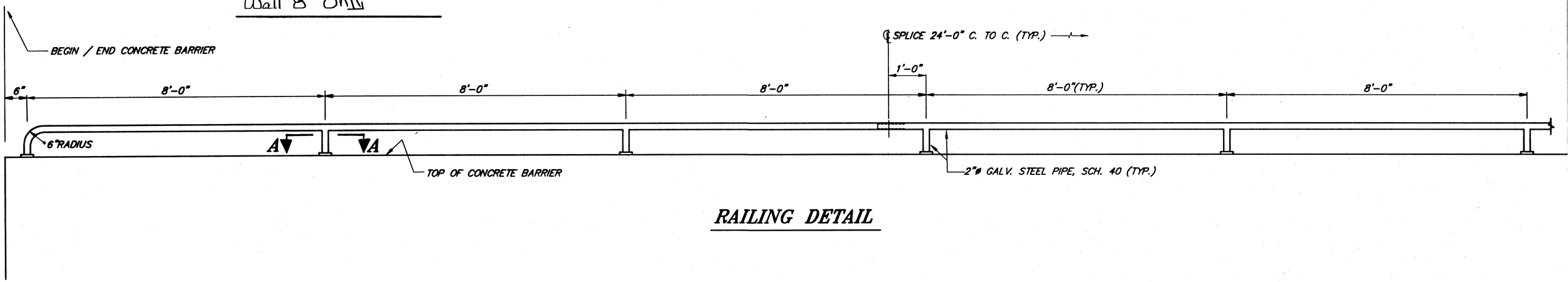


COPING, TYPE III

FOR ABUTMENTS WHERE FENCING IS NOT REQ'D.



SECTION (A)



RAILING DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	Q:\KTN\71811\DR\-RWDetail	
PLOT:	FULL=16 or HALF=32	
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

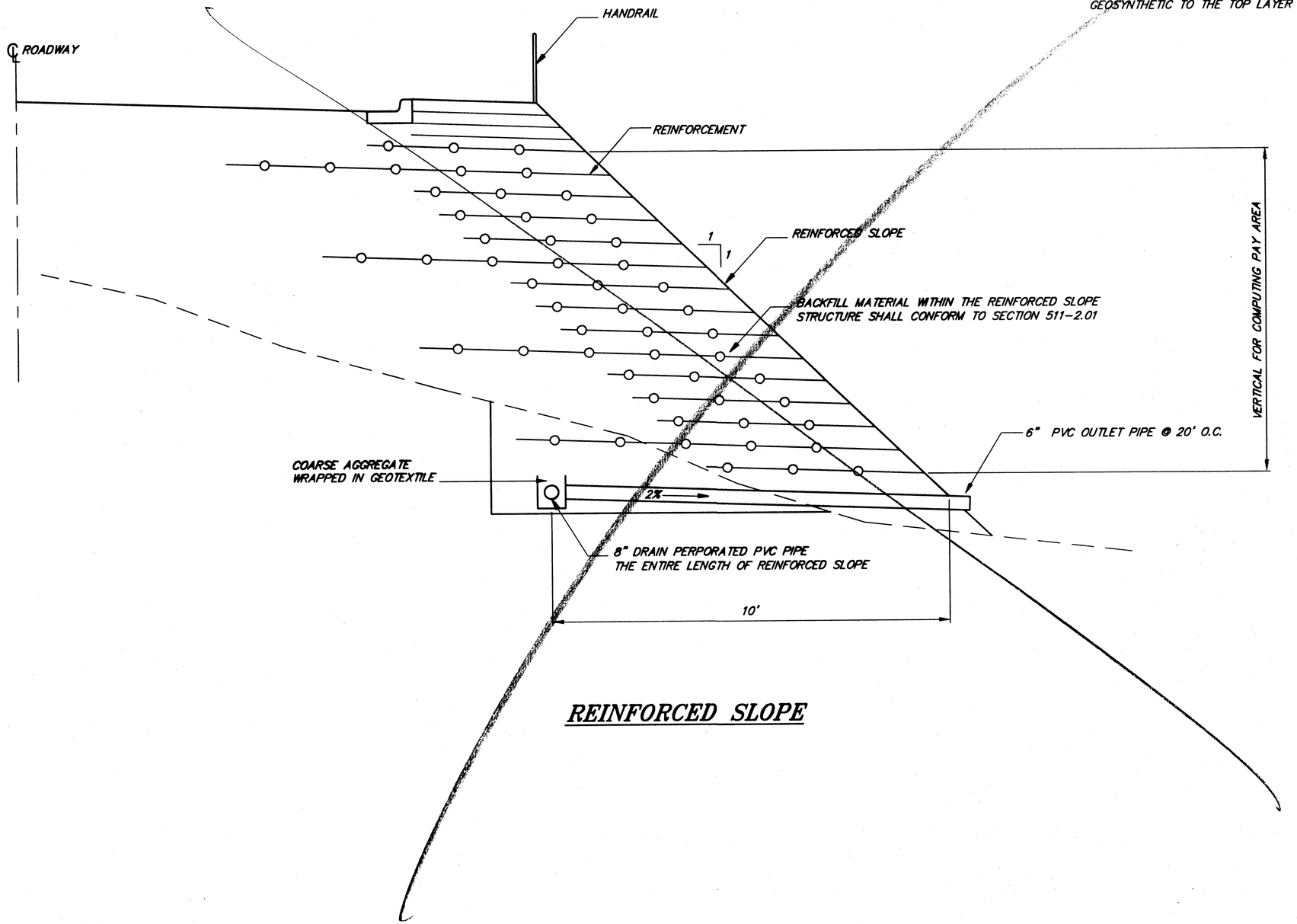
KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
RETAINING WALL DETAILS

DESIGNED BY: E. Ellis/V. Judd	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 41 OF 93

STATE OF ALASKA 49th Keith Korn CE-5126 REGISTERED PROFESSIONAL ENGINEER

NOTES:

1. DIMENSIONS OF LAYERS TO BE DETERMINED BY THE CONTRACTOR'S GEOTECHNICAL CONSULTANT. SEE SECTION 637 OF THE SPECIFICATIONS.
2. PAYMENT HEIGHT SHALL BE MEASURED FROM THE BOTTOM LAYER OF GEOSYNTHETIC TO THE TOP LAYER OF GEOSYNTHETIC.



REINFORCED SLOPE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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PLOT:	FULL=32 or HALF=64	
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
REINFORCED SLOPE

DESIGNED BY: E. Ellis/V. Judd	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: E. Ellis	SHEET 42 OF 93

STATE OF ALASKA 49th Keith Korri CE-5126 REGISTERED PROFESSIONAL ENGINEER

NA

LEGEND

- HAZARDOUS ROCK
- HAZARDOUS TREE
- HAZARDOUS TREE LINE
- TH-20 DOT&PF TEST HOLE

GENERAL NOTES

1. LOCATIONS OF HAZARDOUS ROCKS AND TREES AS SHOWN IN VOLUME III OF THE GEOTECHNICAL INVESTIGATION ARE BASED ON CLOTH TAPE AND COMPASS MEASUREMENTS. THE LOCATION OF THE HAZARDOUS ROCKS AND TREES WERE VERIFIED AND CORRECTED AS SHOWN IN PLAN SHEETS 43 THROUGH 49.
2. HAZARDOUS ROCKS AND TREES ARE BASED ON FIELD INVESTIGATION PERFORMED BY R&M CONSULTANTS, INC. DURING JULY, 1997.
4. DESCRIPTION OF HAZARDOUS ROCKS AND TREES ARE LISTED IN THE SUMMARY TABLE (I,II & III) OF PHASE II GEOTECHNICAL INVESTIGATION FOR PROPOSED THIRD AVENUE EXTENSION (VOLUME III OF III).

CONSTRUCTION NOTES

1. PRIOR TO REMOVING HAZARDOUS TREES AND ROCKS, TEMPORARY ROCK CATCHMENT BARRIER SHALL BE INSTALLED.
2. ALL HAZARDOUS ROCKS AND TREES AS SHOWN IN THE PLANS AND IN THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE REMOVED UNLESS INSTRUCTED OTHERWISE BY THE ENGINEER.
3. REMOVAL OF HAZARDOUS ROCKS AND TREES WITHIN THE ROADWAY CUT AND FILL SLOPE LIMITS WILL NOT BE MEASURED FOR PAYMENT BUT WILL BE CONSIDERED INCIDENTAL.
4. REMOVAL/SECURING OF HAZARDOUS ROCKS AND TREES OUTSIDE OF THE ROADWAY CUT AND FILL SLOPE LIMITS WILL BE MEASURED FOR PAYMENT PER SPECIFICATIONS.
5. HAZARDOUS ROCKS AND TREES LOCATED OUTSIDE OF THE RIGHT-OF-WAY SHALL NOT BE REMOVED OR SECURED UNTIL PROJECT ENGINEER SECURE THE NECESSARY CONSTRUCTION PERMIT FROM PROPERTY OWNER.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: [PlotStamp Eval] Q:\K'tn\71811\Dr\-Testplan.dwg Wed, 22/Dec/99 09:22am
PLOT: FULL=1 or HALF=2 View: P1, T1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
HAZARDOUS TREES & ROCKS
B.O.P. STA. "0" 20+50 TO STA. "0" 29+00

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 43 OF 93

STATE OF ALASKA — 9491 — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

GENERAL NOTES

1. LOCATIONS OF HAZARDOUS ROCKS AND TREES AS SHOWN IN VOLUME III OF THE GEOTECHNICAL INVESTIGATION ARE BASED ON CLOTH TAPE AND COMPASS MEASUREMENTS. THE LOCATION OF THE HAZARDOUS ROCKS AND TREES WERE VERIFIED AND CORRECTED AS SHOWN IN PLAN SHEETS 43 THROUGH 49.
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4. DESCRIPTION OF HAZARDOUS ROCKS AND TREES ARE LISTED IN THE SUMMARY TABLE (I,II & III) OF PHASE II GEOTECHNICAL INVESTIGATION FOR PROPOSED THIRD AVENUE EXTENSION (VOLUME III OF III).

LEGEND

- HAZARDOUS ROCK
- HAZARDOUS TREE
- HAZARDOUS TREE LINE
- TH-20 DOT&PF TEST HOLE

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH:	[PlotStamp Eval] Q:\Ktn\71811\Dr\-Testplan.dwg Wed, 22/Dec/99 09:23am		
PLOT:	FULL=1 or HALF=2 View: P2, T2		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
HAZARDOUS TREES & ROCKS
STA. "0" 28+00 TO STA. "0" 38+00

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 44 OF 93

STATE OF ALASKA — 49th — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

GENERAL NOTES

1. LOCATIONS OF HAZARDOUS ROCKS AND TREES AS SHOWN IN VOLUME III OF THE GEOTECHNICAL INVESTIGATION ARE BASED ON CLOTH TAPE AND COMPASS MEASUREMENTS. THE LOCATION OF THE HAZARDOUS ROCKS AND TREES WERE VERIFIED AND CORRECTED AS SHOWN IN PLAN SHEETS 43 THROUGH 49.
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4. DESCRIPTION OF HAZARDOUS ROCKS AND TREES ARE LISTED IN THE SUMMARY TABLE (I,II & III) OF PHASE II GEOTECHNICAL INVESTIGATION FOR PROPOSED THIRD AVENUE EXTENSION (VOLUME III OF III).

LEGEND

- HAZARDOUS ROCK
- HAZARDOUS TREE
- HAZARDOUS TREE LINE
- TH-20 DOT&PF TEST HOLE

R-009 R-008 R-007 R-010 R-006 R-005 R-004 R-003 R-002 R-001 R-061 R-064 R-063 R-062 R-059 R-060 R-023 R-024 R-025 R-026 R-022 R-021 R-051 R-016 R-017 R-018 R-019 R-020 R-033 R-034 T-003 T-005 T-006

BEDROCK EXPOSURES

TALUS AND DEBRIS FANS

BEDROCK EXPOSURE "WHITE CLIFF"

BEDROCK EXPOSURE "WHITE CLIFF"

TH-10 TH-48 TH-49 TH-47 TH-29 TH-7 TH-6 TH-8 TH-51 TH-12 TH-11 TH-9 TH-50 TH-4 TH-43 TH-1 TH-3 TH-44 TH-2

PT "0" 38+73.52

PC "0" 40+40.45

PT "0" 42+93.59

38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH:	[PlotStamp Eval] G:\Ktn\71811\Dr\-Testplan.dwg Wed, 22/Dec/99 09:23am		
PLOT:	FULL=1 or HALF=2 View: P3, T3		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
HAZARDOUS TREES & ROCKS
STA. "0" 38+00 TO STA. "0" 47+00

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 45 OF 93

STATE OF ALASKA — 49th — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

GENERAL NOTES

1. LOCATIONS OF HAZARDOUS ROCKS AND TREES AS SHOWN IN VOLUME III OF THE GEOTECHNICAL INVESTIGATION ARE BASED ON CLOTH TAPE AND COMPASS MEASUREMENTS. THE LOCATION OF THE HAZARDOUS ROCKS AND TREES WERE VERIFIED AND CORRECTED AS SHOWN IN PLAN SHEETS 43 THROUGH 49.
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4. DESCRIPTION OF HAZARDOUS ROCKS AND TREES ARE LISTED IN THE SUMMARY TABLE (I,II & III) OF PHASE II GEOTECHNICAL INVESTIGATION FOR PROPOSED THIRD AVENUE EXTENSION (VOLUME III OF III).

LEGEND

- HAZARDOUS ROCK
- HAZARDOUS TREE
- HAZARDOUS TREE LINE
- TH-20 DOT&PF TEST HOLE

R-063 R-064 R-062 R-065 R-067 R-059 R-066 R-058 R-057 R-056 R-068 R-069 R-054 R-055 R-071 R-077 R-078 R-026 R-079 R-072 R-073 R-075 R-029 R-030 R-031 R-032 R-088

TALUS AND DEBRIS FANS

BEDROCK EXPOSURES

BEDROCK EXPOSURE "WHITE CLIFF"

TH-A5 TH-46 TH-52 TH-53 TH-54 TH-55 TH-56 TH-57 TH-58 TH-59 TH-60

T-000 T-007 T-014

APPROX. LOCATION OF TRAILS (ON SLOPE) (ON TRAIL)

TOE OF SLOPE

495 480 465 450 435 420 405 390 375 360 345 330 315 300 285 270 255 240 225 210 195 180 165 150 135 120

50+00 51+00 52+00 53+00 54+00 55+00 56+00

PATH:	[PlotStamp Eval] Q:\Ktn\71811\Dr\-Testplan.dwg Wed, 22/Dec/99 09:24am		
PLOT:	FULL=1 or HALF=2 View: P4, T4		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN

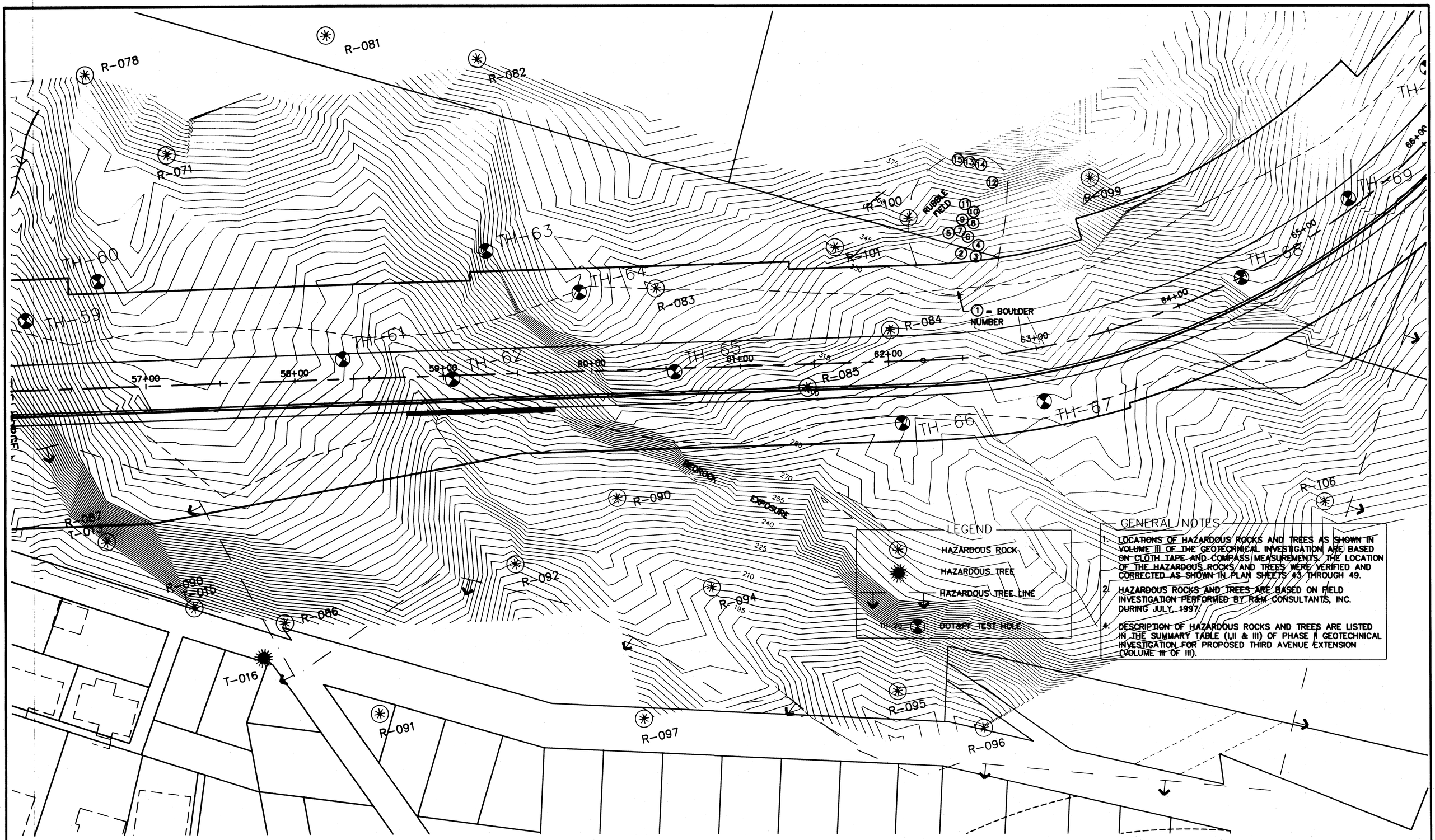
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
HAZARDOUS TREES & ROCKS
STA. "0" 47+00 TO STA. "0" 56+00

ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 46 OF 93

STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

HAZARDOUS TREES & ROCKS

STA. "0" 56+0 TO STA. "0" 66+00

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 47 OF 93

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

LEGEND

- HAZARDOUS ROCK
- HAZARDOUS TREE
- HAZARDOUS TREE LINE
- TH-20 — DOT&PF TEST HOLE

GENERAL NOTES

1. LOCATIONS OF HAZARDOUS ROCKS AND TREES AS SHOWN IN VOLUME III OF THE GEOTECHNICAL INVESTIGATION ARE BASED ON CLOTH TAPE AND COMPASS MEASUREMENTS. THE LOCATION OF THE HAZARDOUS ROCKS AND TREES WERE VERIFIED AND CORRECTED AS SHOWN IN PLAN SHEETS 43 THROUGH 49.
2. HAZARDOUS ROCKS AND TREES ARE BASED ON FIELD INVESTIGATION PERFORMED BY R&M CONSULTANTS, INC. DURING JULY, 1997.
4. DESCRIPTION OF HAZARDOUS ROCKS AND TREES ARE LISTED IN THE SUMMARY TABLE (I,II & III) OF PHASE II GEOTECHNICAL INVESTIGATION FOR PROPOSED THIRD AVENUE EXTENSION (VOLUME III OF III).

R-098
R-102
R-103
R-104
R-105
TH-68
TH-69
TH-70
TH-71
TH-72
TH-73
65+00
66+00
67+00
68+00
69+00
70+00
71+00
72+00
73+00
74+00
11+00
11+13.76
10+00
EXISITING QUARRY
PT "S" 11+44.85
SCHOENBAR ROAD
FOREST AVE.

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH:	[PlotStamp Eval] C:\Ktn\71811\Dr\-Testplan.dwg Wed, 22/Dec/99 09:25am		
PLOT:	FULL=1 or HALF=2 View: P6, T6		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
HAZARDOUS TREES & ROCKS
STA. "0" 66+00 TO STA. "0" 73+00

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 48 OF 93

STATE OF ALASKA — 49th — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

FAIRY CHASM ROAD

PT "FW" 12+18.23

PC "FW" 11+17.98

12+00

11+00

TH-76

PC "FW" 10+15.79

RT "FW" 11+08.60

TH-75

TH-39

TH-41

76+00

77+00

78+00

79+00

80+00

TH-42

E.O.P.
STA. "0" 80+20

74+00

75+00

TH-40

TH-28

PC "S" 10+31.16

73+00

PT "S" 11+44.85

11+00

SCHOENBAR ROAD

℄ "S" Line

GENERAL NOTES

1. LOCATIONS OF HAZARDOUS ROCKS AND TREES AS SHOWN IN VOLUME III OF THE GEOTECHNICAL INVESTIGATION ARE BASED ON CLOTH TAPE AND COMPASS MEASUREMENTS. THE LOCATION OF THE HAZARDOUS ROCKS AND TREES WERE VERIFIED AND CORRECTED AS SHOWN IN PLAN SHEETS 43 THROUGH 49.
2. HAZARDOUS ROCKS AND TREES ARE BASED ON FIELD INVESTIGATION PERFORMED BY R&M CONSULTANTS, INC. DURING JULY, 1997.
4. DESCRIPTION OF HAZARDOUS ROCKS AND TREES ARE LISTED IN THE SUMMARY TABLE (I,II & III) OF PHASE II GEOTECHNICAL INVESTIGATION FOR PROPOSED THIRD AVENUE EXTENSION (VOLUME III OF III).

LEGEND

- HAZARDOUS ROCK
- HAZARDOUS TREE
- HAZARDOUS TREE LINE
- TH-20 DOT&PF TEST HOLE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
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BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

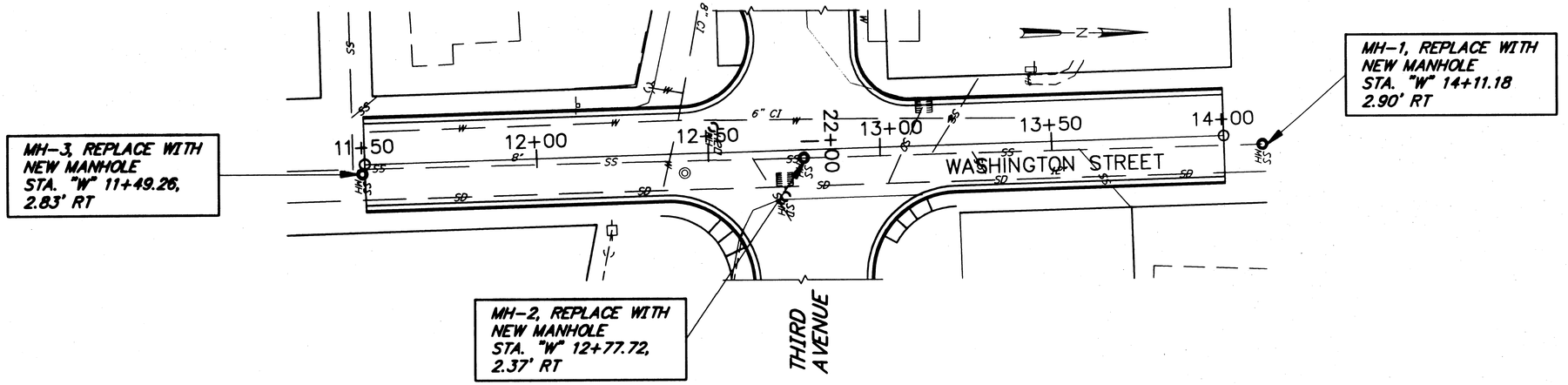
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

HAZARDOUS TREES & ROCKS

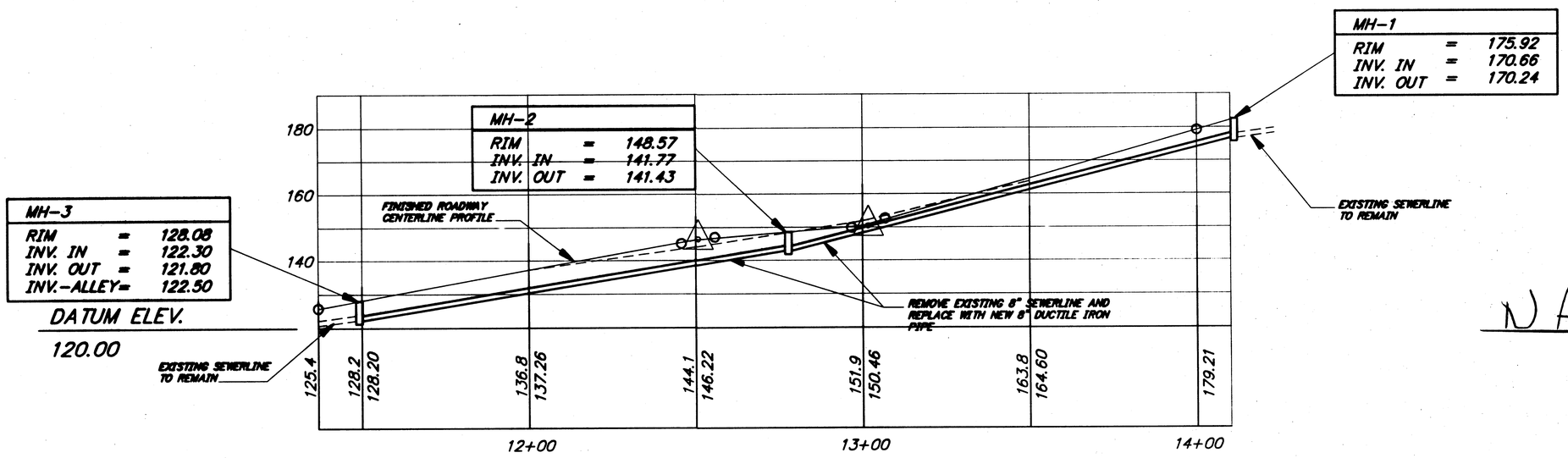
STA. "0" 73+00 TO E.O.P. STA. "0" 80+60

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 49 OF 93

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



PLAN – SANITARY SEWER RECONSTRUCTION



NA

PROFILE – SANITARY SEWER RECONSTRUCTION

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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PLOT:	FULL=20 or HALF=40	
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

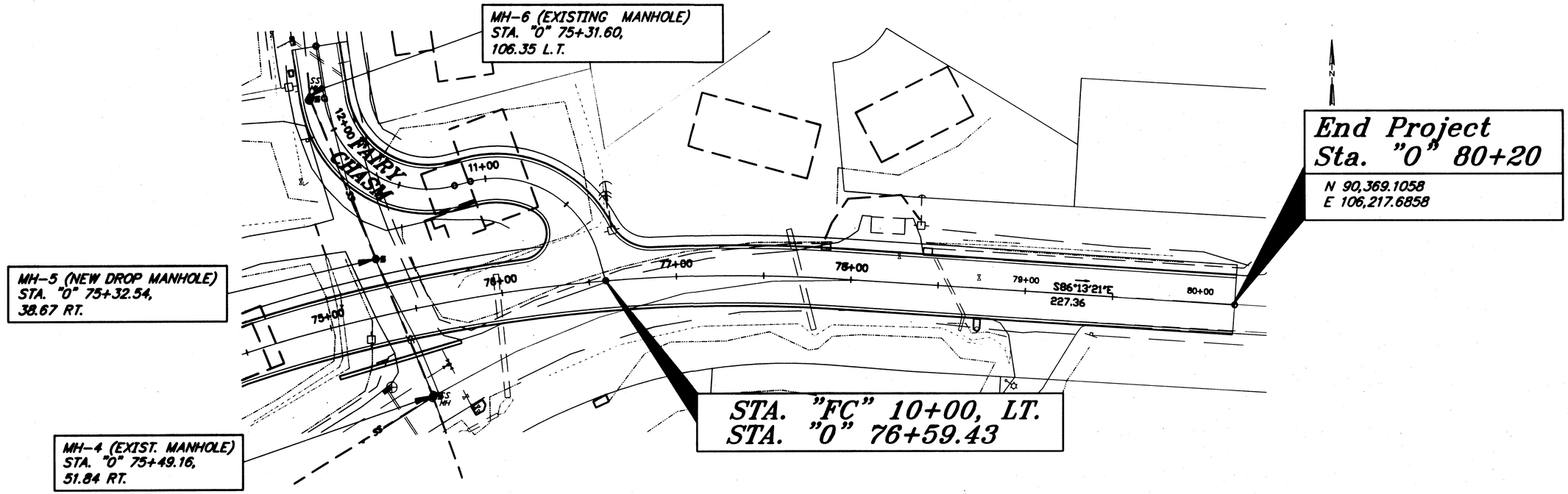
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

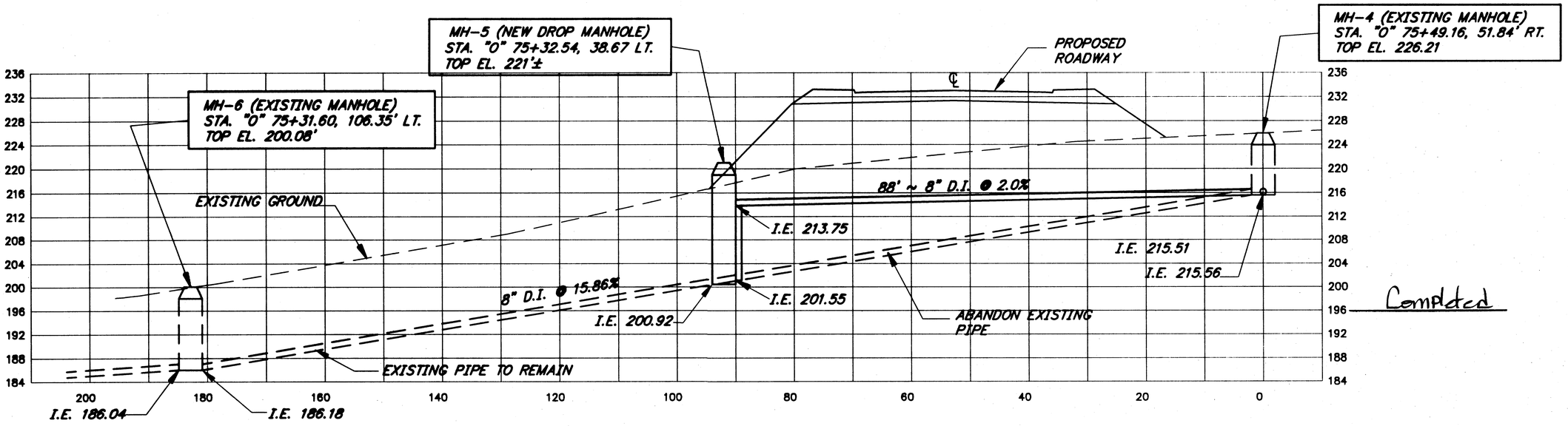
SANITARY SEWER RECONSTRUCTION

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: C. Morrow	SHEET 50 OF 93

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



PLAN – SANITARY SEWER RECONSTRUCTION



Completed

PROFILE – SANITARY SEWER RECONSTRUCTION

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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PLOT: FULL=10 or HALF=20		
BY:	DATE:	DESCRIPTION OF CHANGE:

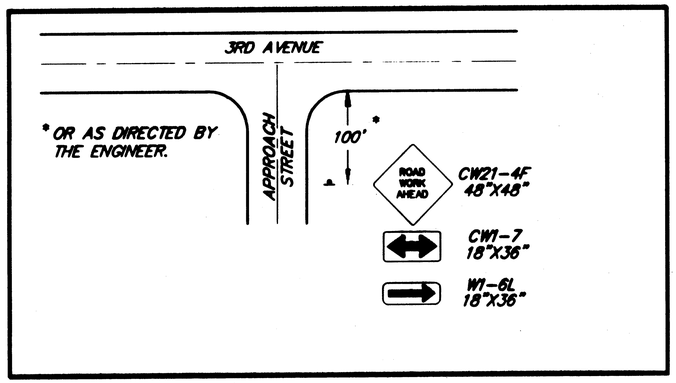
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

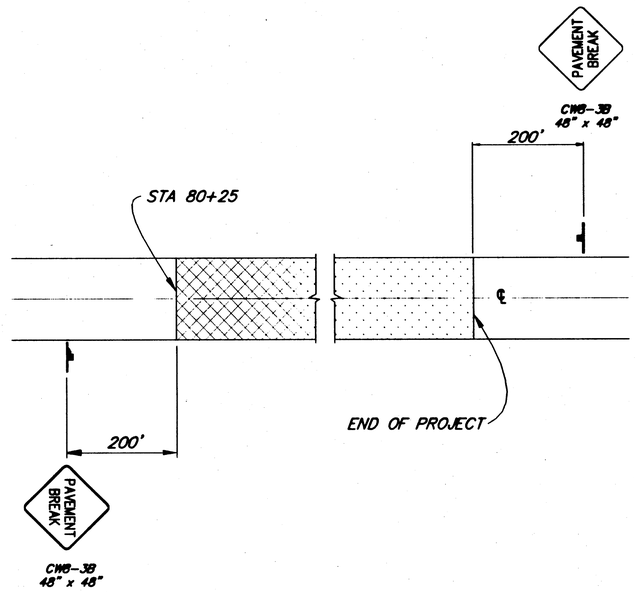
KETCHIKAN — *THIRD AVENUE EXTENSION* — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
SANITARY SEWER RECONSTRUCTION

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: C. Morrow	SHEET 51 OF 93

STATE OF ALASKA — 11811 — David D. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER



PERMANENT CONSTRUCTION SIGNING



SIGNING FOR UNPAVED AREA

LEGEND

- ▪ ..... SIGN
- ● ..... CONE
- ⊙ ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION
- ⊛ NO PARKING WITHIN 200' OF CONES

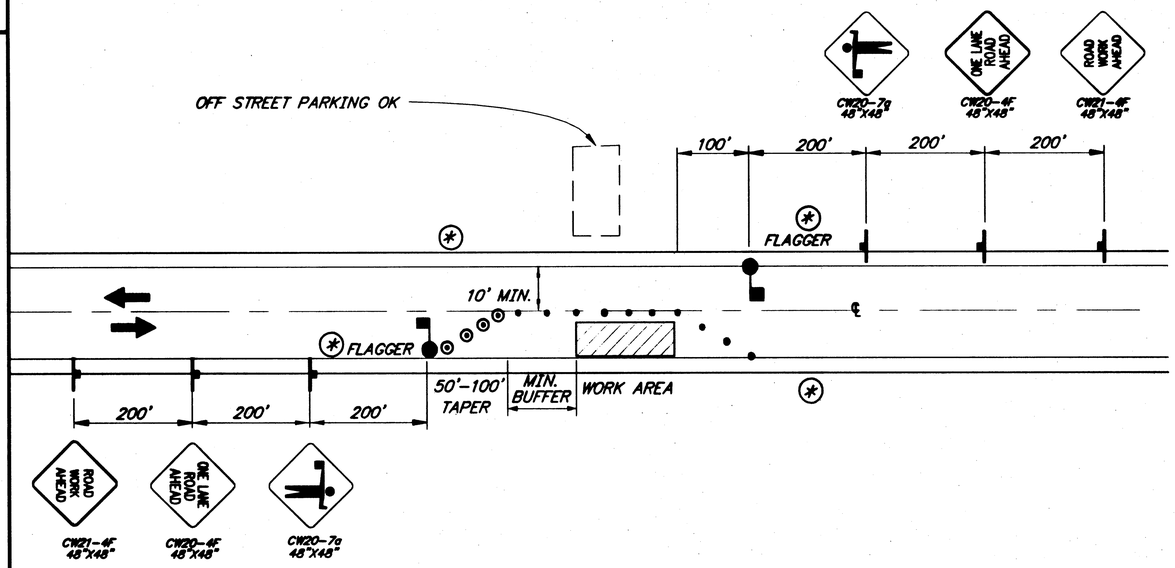
FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{WxS^2}{60}$

45 MPH OR GREATER $L = WxS$

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

TCP SETUP TABLE			
SPEED (MPH)	BUFFER LENGTH (FT)	CONE/DRUM SPACING (FT)	TAPER RATE (T)
20	35	20	7:1
25	55	25	10:1
30	85	30	15:1
35	120	35	20:1
40	170	40	40:1
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



SINGLE LANE CLOSURE
TWO LANE ROAD

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: Q:\KTN\71811\DR\-Tcp4
PLOT: FULL=1 or HALF=2

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

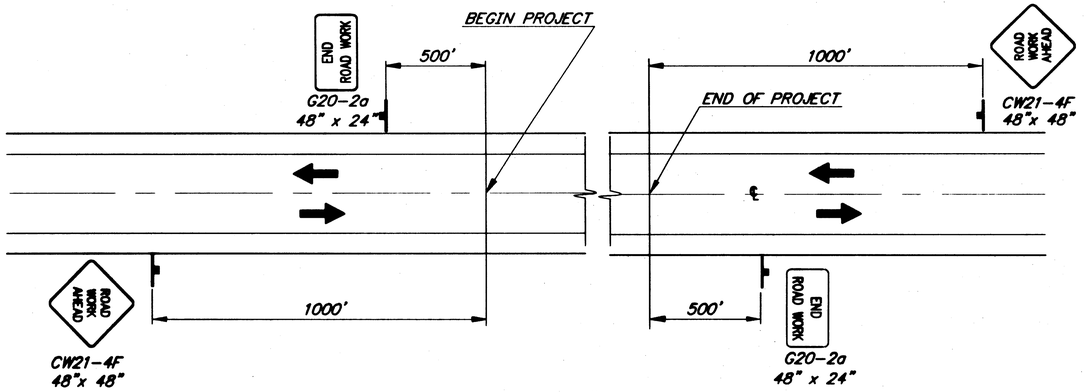
TRAFFIC CONTROL PLAN

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 52 OF 93

STATE OF ALASKA 49th REGISTERED PROFESSIONAL ENGINEER Michael Lukshin CE-8737

TRAFFIC CONTROL NOTES

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
2. TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
3. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.04 OF THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL RESTORE ACCESS TO BUSINESSES AND HOMES AT THE END OF EVERY WORK DAY. ACCESS TO BUSINESSES AND HOMES SHALL NOT BE SHUT OFF FOR MORE THAN A 24-HOUR PERIOD.
5. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
6. A SINGLE FLAGGER MAY BE APPROVED BY THE ENGINEER IF THE ENTIRE WORK AREA IS VISIBLE FROM THE FLAGGER STATION.
7. SCHOENBAR ROAD EXISTING CONNECTION SHALL BE MAINTAINED UNTIL NEW CONNECTION IS CONSTRUCTED.



PERMANENT CONSTRUCTION SIGNING

LEGEND

- ..... SIGN
- ..... CONE
- ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION

⊛ NO PARKING WITHIN 200' OF CONES

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{WxS^2}{60}$

45 MPH OR GREATER $L = WxS$

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

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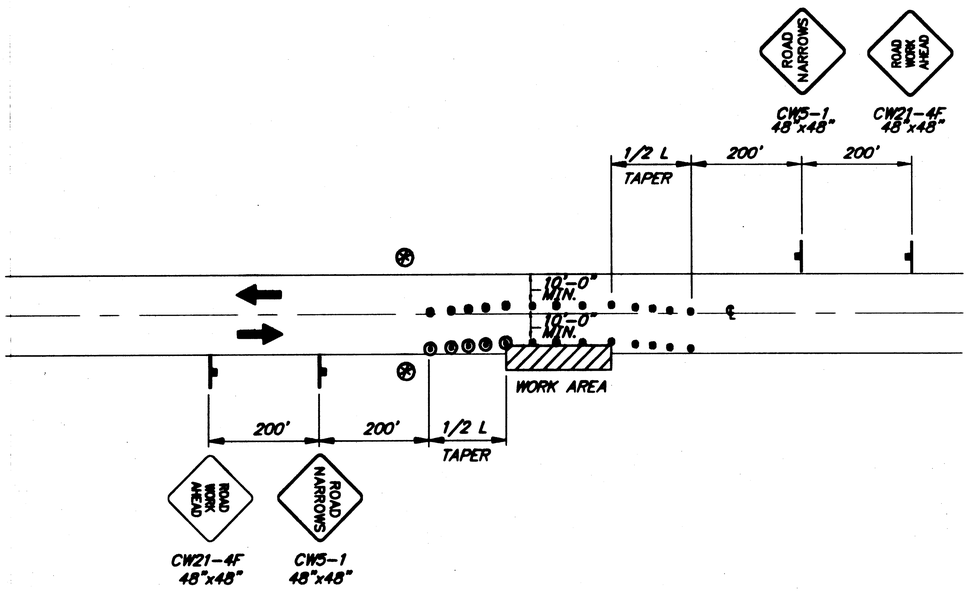
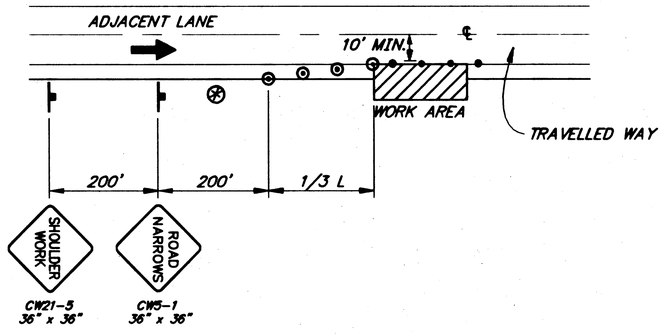
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



ROADWAY ENCROACHMENT

NOTE: IF ONLY ONE LANE IS EFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE SHALL BE DELETED.



SHOULDER WORK

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: Q:\KTN\71811\DR\-TCP1
PLOT: FULL=1 or HALF=2

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

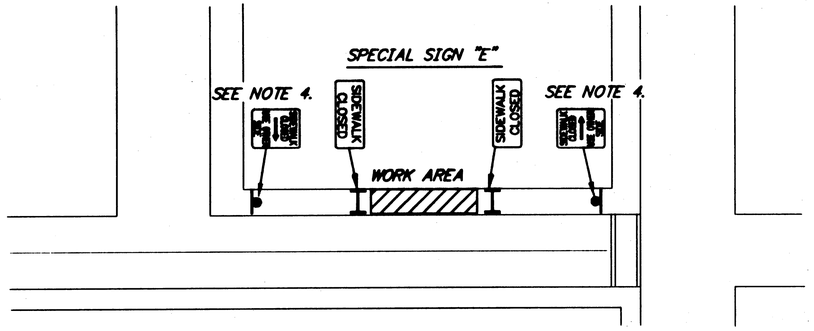
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

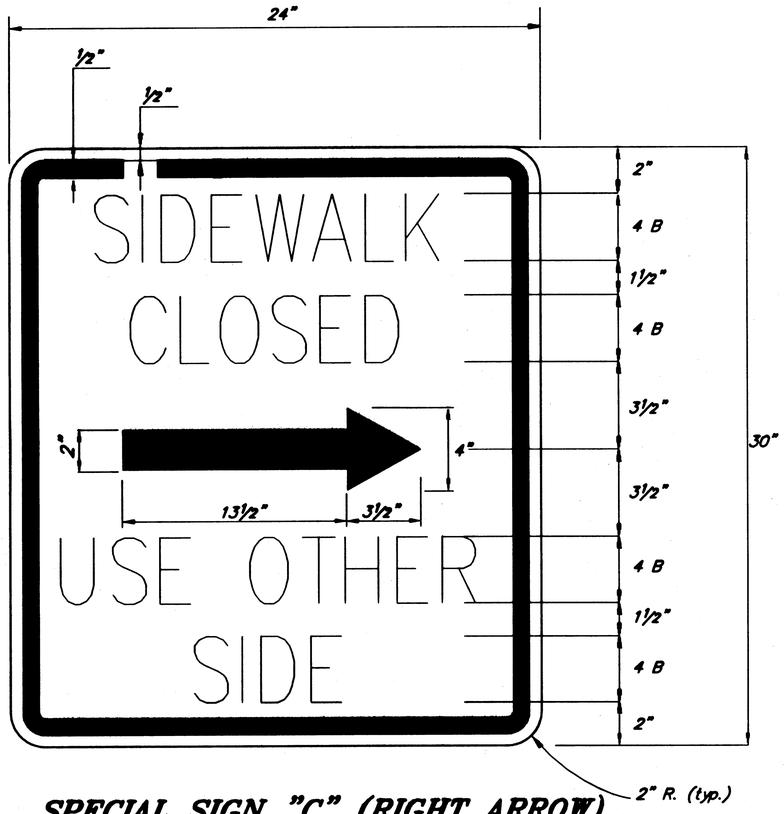
TRAFFIC CONTROL PLAN

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 53 OF 93

STATE OF ALASKA 49th — Michael Lukshin CE-8737 — REGISTERED PROFESSIONAL ENGINEER



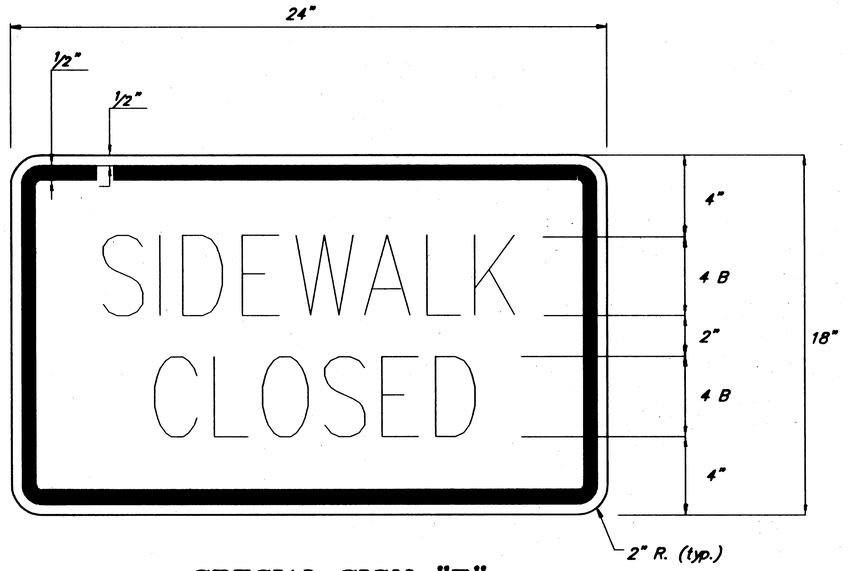
EXISTING SIDEWALK RECONSTRUCTION



SPECIAL SIGN "C" (RIGHT ARROW)
SPECIAL SIGN "D" (LEFT ARROW)

SIGN NOTES:

1. SIGNS SHALL HAVE WHITE BACKGROUND WITH BLACK LEGEND. LETTERING SHALL BE AS SHOWN ON THE PLAN.
2. SPECIAL SIGN "C" IS SHOWN. SPECIAL SIGN "D" SHALL HAVE THE ARROW POINTING IN THE OPPOSITE DIRECTION.
3. SIGNS SHALL CONFORM TO THE ALASKA SIGN DESIGN SPECIFICATIONS (ASDS). LETTERING SHALL BE 4 INCHES HIGH AND SERIES B.
4. WHERE IT IS IMPRACTICAL TO WALK AROUND THE CLOSED PORTION OF THE SIDEWALK, SPECIAL SIGNS "C" OR "D" SHALL BE SET UP AT THE NEAREST EXISTING CROSSWALK.



SPECIAL SIGN "E"

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-TCP3		
PLOT: FULL=1 or HALF=2		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

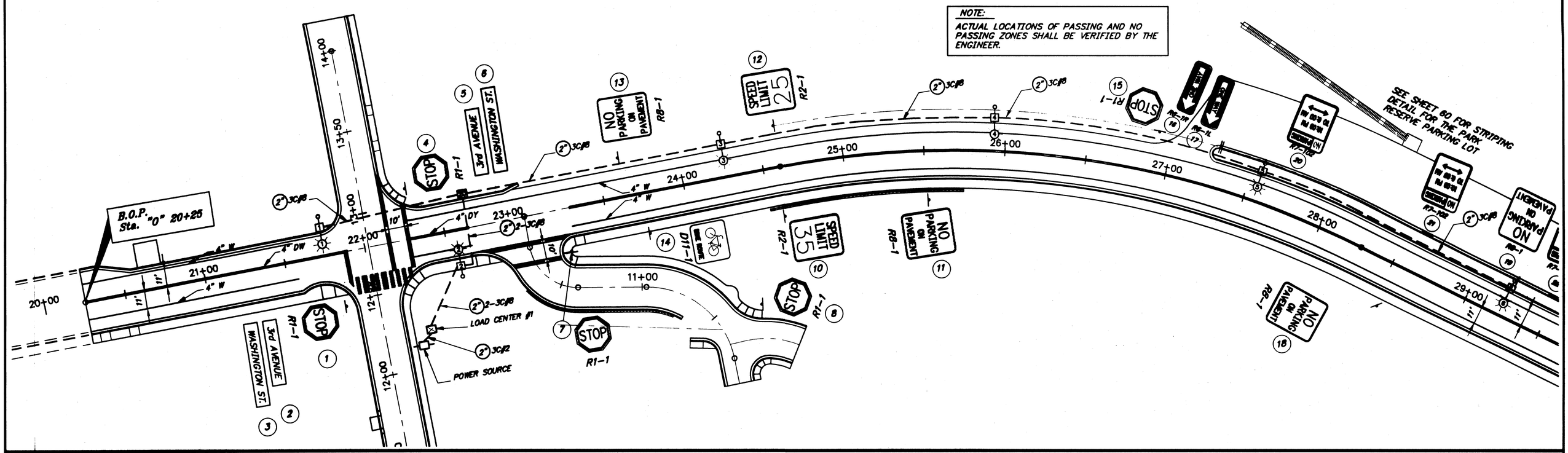
KETCHIKAN — ALASKA

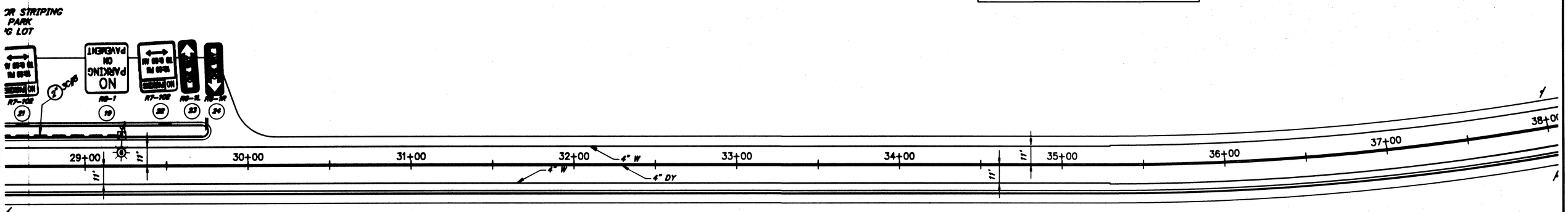
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

TRAFFIC CONTROL PLAN

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 54 OF 93

STATE OF ALASKA
49th
Michael Lukshin
CE-8737
REGISTERED PROFESSIONAL ENGINEER





NA

PATH: Q:\KTN\71811\DR_TRAFFIC VIEW: P1, P2 & T1
PLOT: FULL=1 or HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

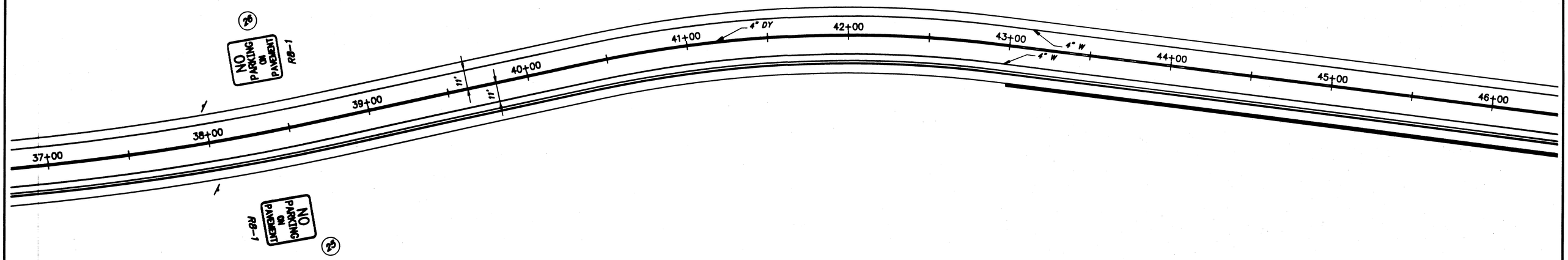
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

LIGHTING, SIGNING AND STRIPING

DESIGNED BY: M. Lukshin	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: R. Purves	SHEET 55 OF 93

STATE OF ALASKA
49th
Michael Lukshin
CE-8737
REGISTERED PROFESSIONAL ENGINEER

NOTE:
ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE VERIFIED BY THE ENGINEER.



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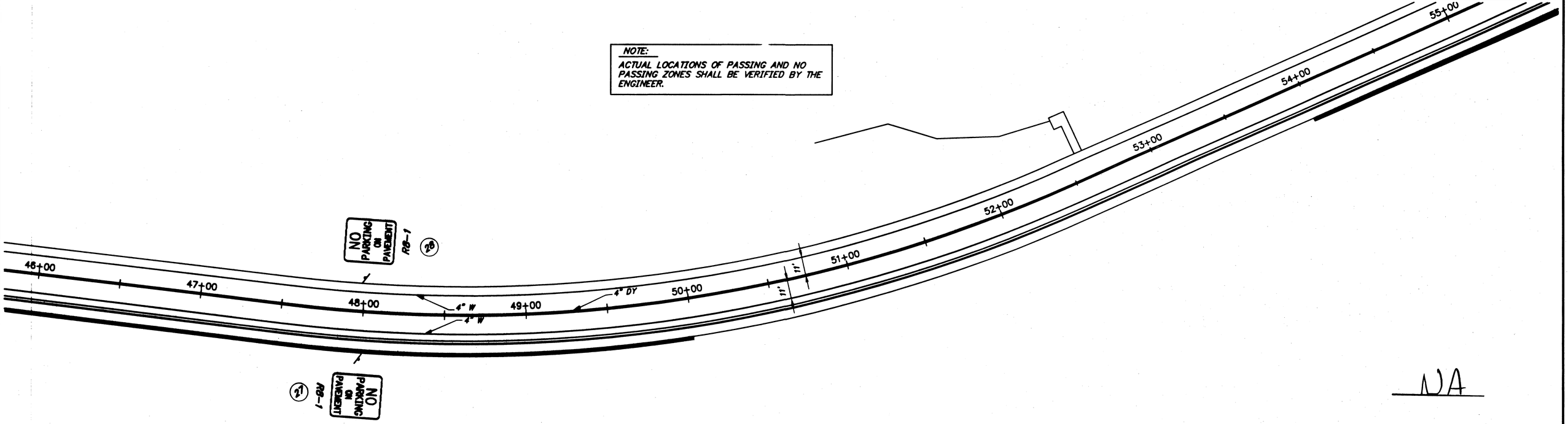


NA

PATH:	Q:\KTN\71811\DR_TRAFFIC VIEW: P3, P4 & T2		
PLOT:	FULL=1 or HALF=2		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN ALASKA

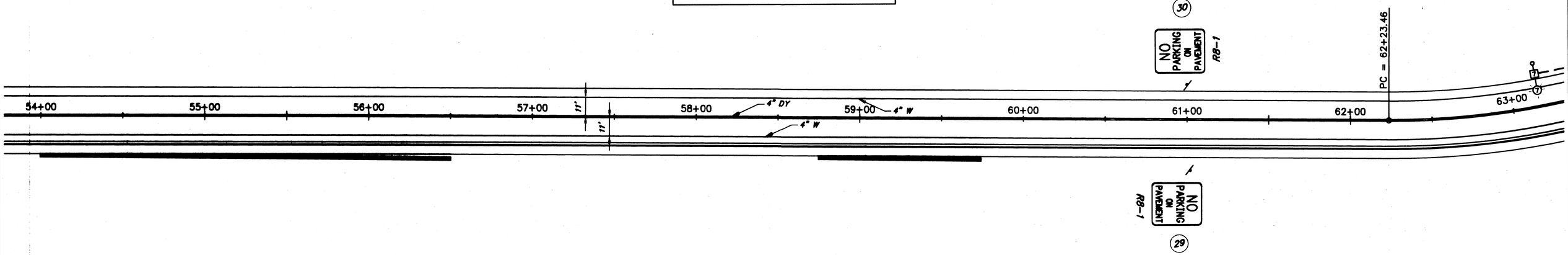
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

LIGHTING, SIGNING AND STRIPING

DESIGNED BY: M. Lukshin	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: R. Purves	SHEET 56 OF 93

STATE OF ALASKA
49th
Michael Lukshin
CE-8737
REGISTERED PROFESSIONAL ENGINEER

NOTE:
ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE VERIFIED BY THE ENGINEER.



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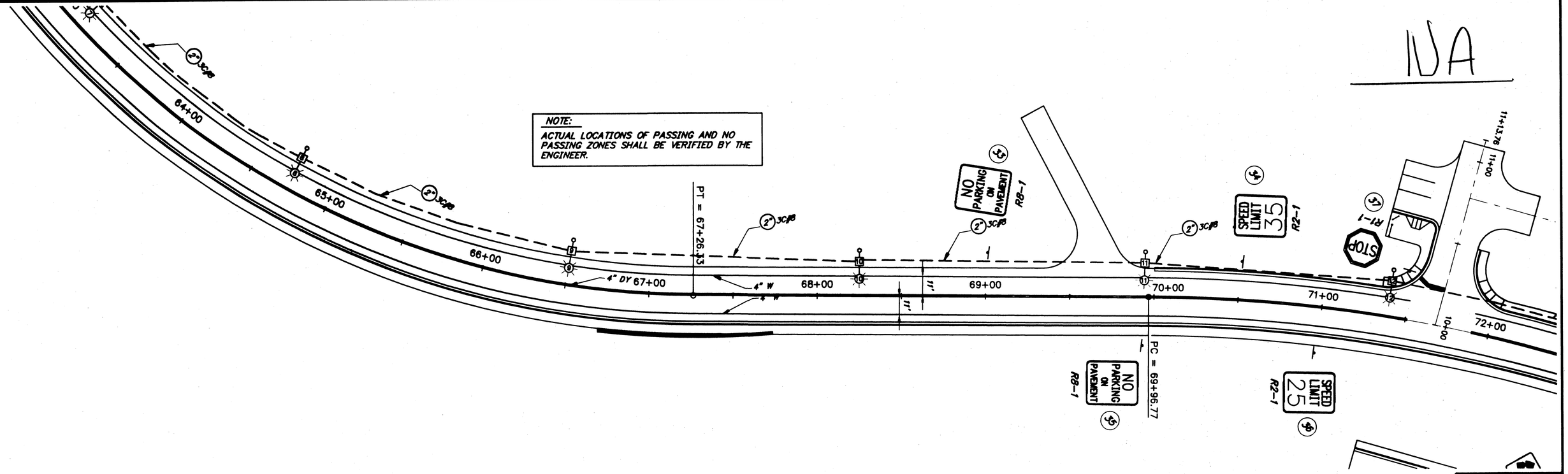


NDA

PATH: Q:\KTN\71811\DR_TRAFFIC VIEW: P5, P6 & T3		
PLOT: FULL=1 or HALF-2		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

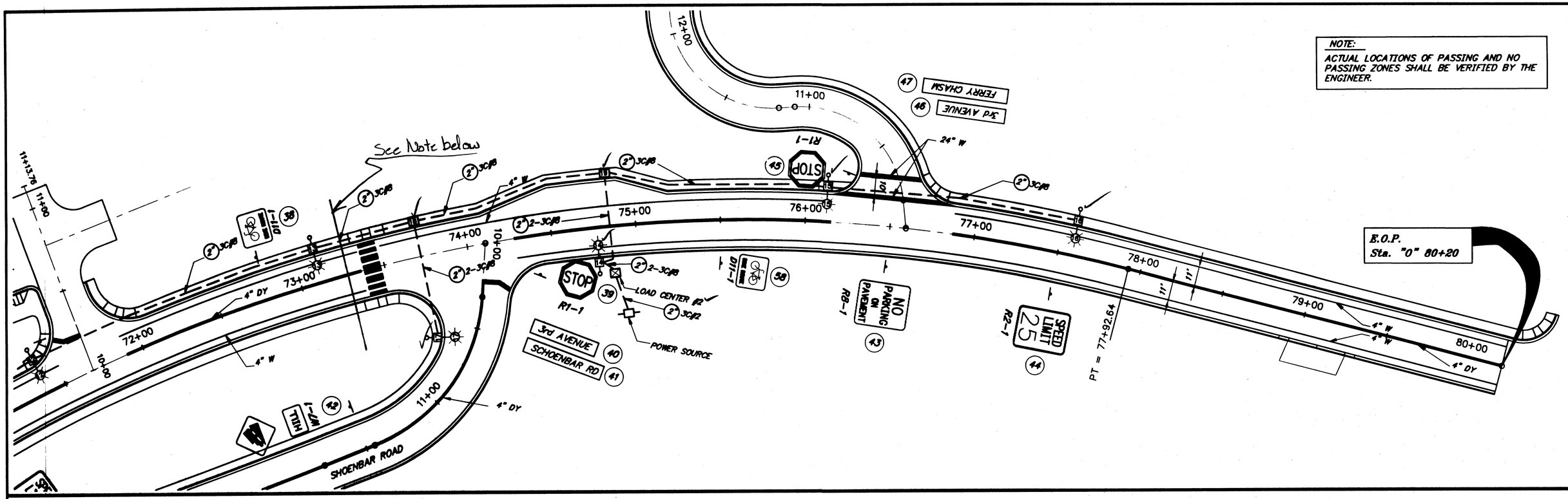
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

LIGHTING, SIGNING AND STRIPING

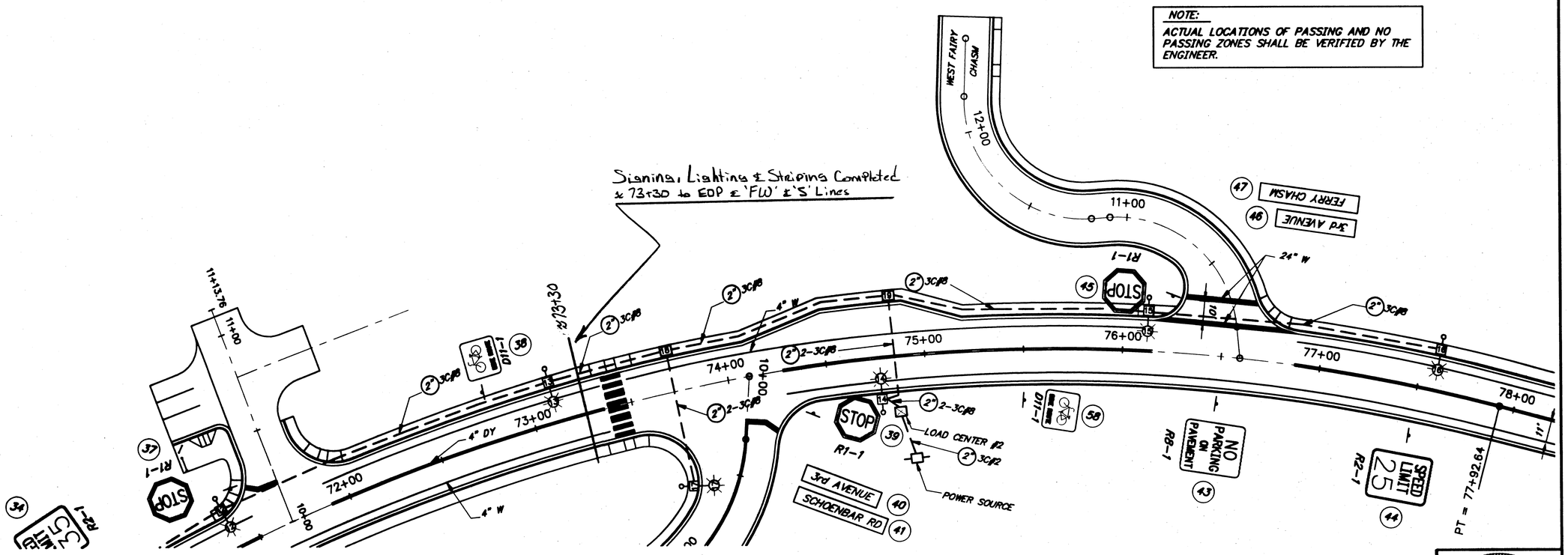
DESIGNED BY: M. Lukshin	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: R. Purves	SHEET 57 OF 93

STATE OF ALASKA
49th
Michael Lukshin
CE-8737
REGISTERED PROFESSIONAL ENGINEER

NOTE:
ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE VERIFIED BY THE ENGINEER.



NOTE:
ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE VERIFIED BY THE ENGINEER.



RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: Q:\KTN\71811\DR_TRAFFIC VIEW: P7, FWFC & T4
PLOT: FULL=1 or HALF=2

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

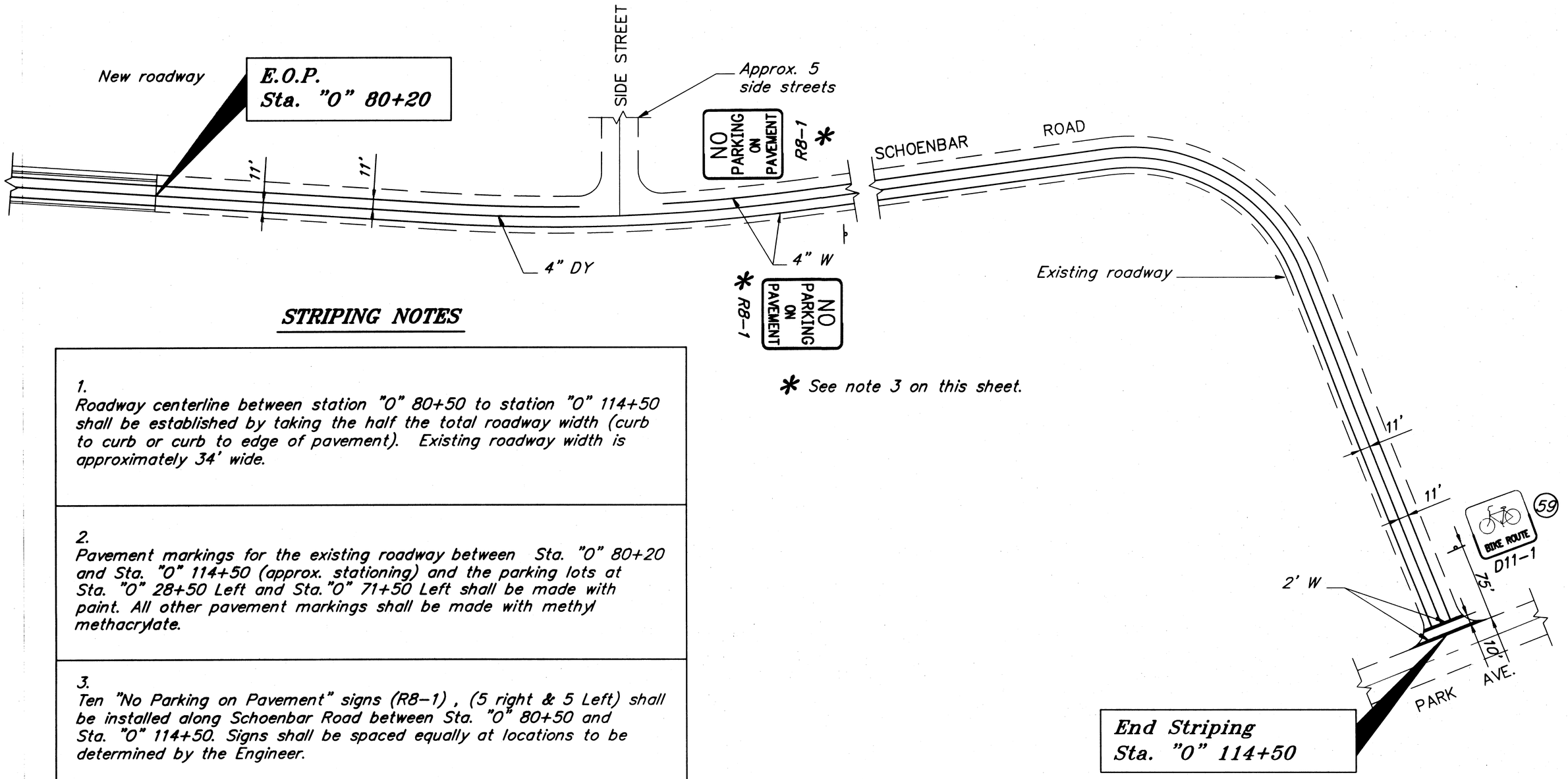
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

LIGHTING, SIGNING AND STRIPING

DESIGNED BY: M. Lukshin	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: R. Purves	SHEET 58 OF 93

STATE OF ALASKA
49th
Michael Lukshin
CE-8737
REGISTERED PROFESSIONAL ENGINEER



STRIPING NOTES

1.
Roadway centerline between station "0" 80+50 to station "0" 114+50 shall be established by taking the half the total roadway width (curb to curb or curb to edge of pavement). Existing roadway width is approximately 34' wide.

2.
Pavement markings for the existing roadway between Sta. "0" 80+20 and Sta. "0" 114+50 (approx. stationing) and the parking lots at Sta. "0" 28+50 Left and Sta."0" 71+50 Left shall be made with paint. All other pavement markings shall be made with methyl methacrylate.

3.
Ten "No Parking on Pavement" signs (R8-1) , (5 right & 5 Left) shall be installed along Schoenbar Road between Sta. "0" 80+50 and Sta. "0" 114+50. Signs shall be spaced equally at locations to be determined by the Engineer.

4.
Four pedestrian crossings shall be re-painted.
stop bar striping at the five side streets shall be re-painted.

* See note 3 on this sheet.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: Q:\KTN\71811\DR\-Stripe2
PLOT: FULL=20 or HALF=40

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN ALASKA

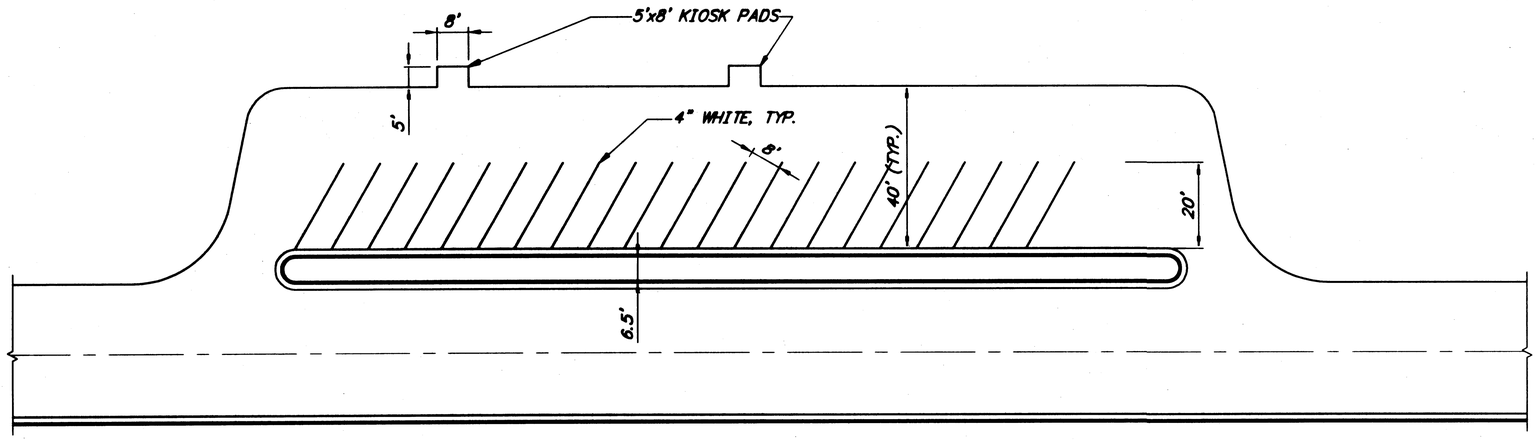
THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

SIGNING AND STRIPING

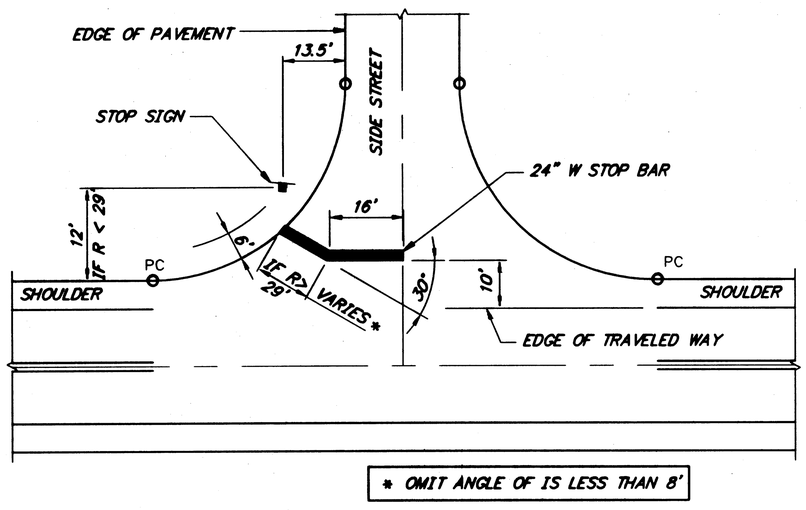
DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: M. Lukshin	SHEET 59 OF 93

STATE OF ALASKA
Michael Lukshin
CE-8737
REGISTERED PROFESSIONAL ENGINEER

NOTE: STRIPPING FOR PARKING LOT SHALL BE PAINTED MARKINGS.



PLAN – PARKING LAYOUT



* OMIT ANGLE OF IS LESS THAN 8'

STOP BAR AND STOP SIGN INSTALLATION DETAIL

(WITHOUT PATHWAY)

NA

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: Q:\KTN\71811\DR\–Parking		
PLOT: FULL=20 or HALF=40		
BY:	DATE:	DESCRIPTION OF CHANGE:

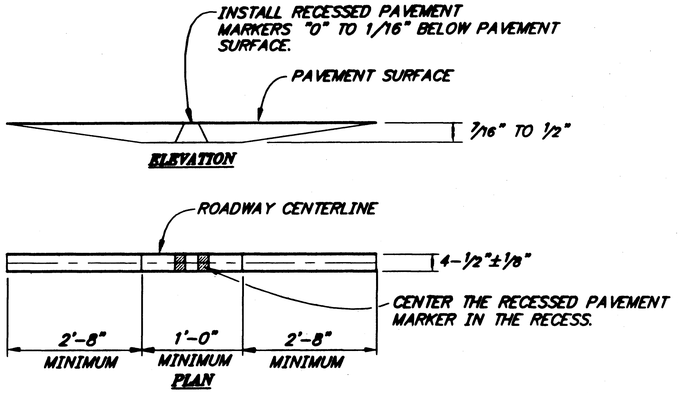
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

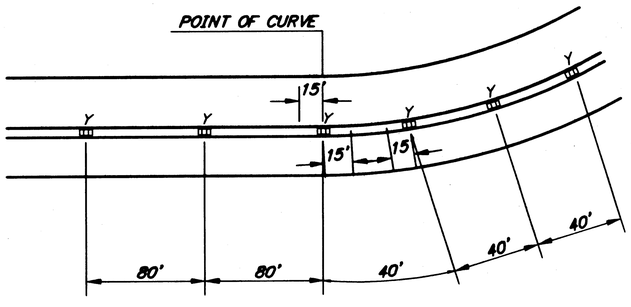
KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
CITY PARK RESERVE – PARKING LOT

DESIGNED BY: M. Lukshin	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: M. Lukshin	SHEET 60 OF 93

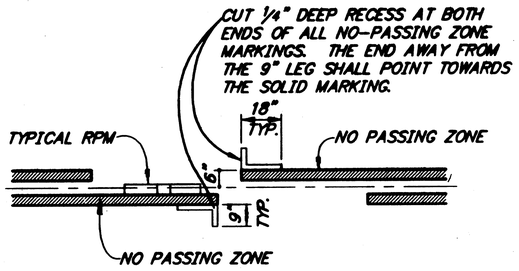
STATE OF ALASKA 49th Michael Lukshin CE-8737 REGISTERED PROFESSIONAL ENGINEER



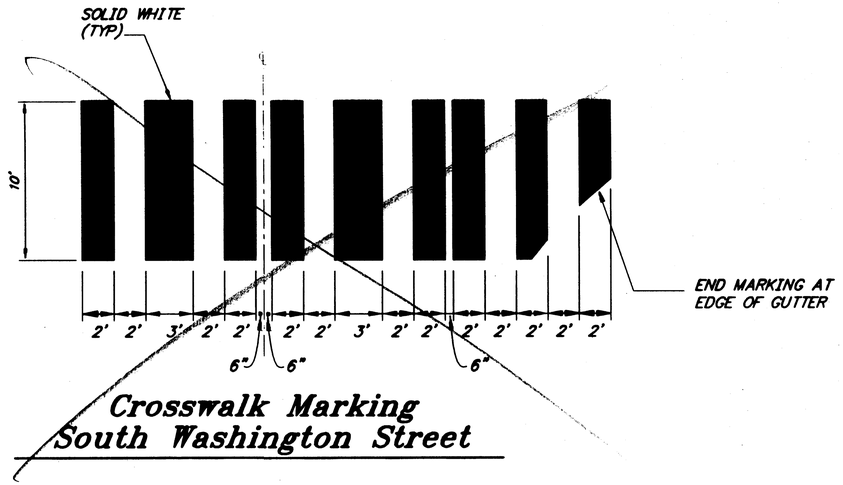
RECESSED PAVEMENT MARKER DETAIL



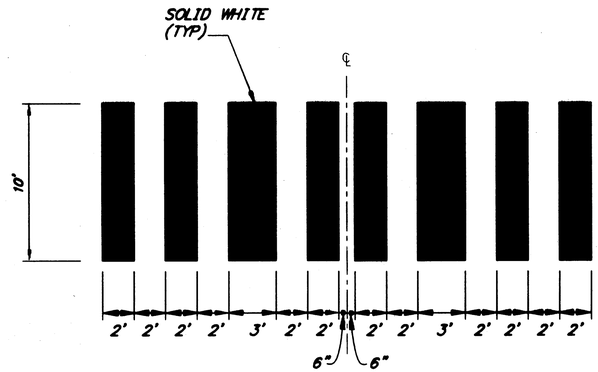
TWO LANE, TWO WAY DETAIL RECESSED PAVEMENT MARKER



NO-PASSING GROOVES



Crosswalk Marking South Washington Street



Crosswalk Marking Near Shoenbar Road

STRIPING AND RPM NOTES

1. STRIPED LANE WIDTHS SHALL BE 11'. WIDTH SHALL TAPER IN TO MATCH EXISTING AT B.O.P. AND E.O.P.
2. EXISTING NO-PASSING GROOVES AT ENDS OF NO-PASSING ZONES SHALL BE REFERENCED BEFORE CONSTRUCTION BEGINS BY THE CONTRACTOR FOR TEMPORARY AND PERMANENT MARKING PLACEMENT.
3. LATERAL PLACEMENT OF RECESSED PAVEMENT MARKERS SHALL BE BETWEEN DOUBLE YELLOW STRIPES ON CENTERLINE.
4. LOCATIONS OF MARKERS IN SITUATIONS WITH UNUSUAL GEOMETRICS WILL BE DETERMINED BY THE PROJECT ENGINEER.
5. RPM QUANTITIES ARE APPROXIMATE ONLY AND MAY VARY.
6. ALL RPM'S WILL BE TWOSIDED, YELLOW

R.P.M. SUMMARY

STATION TO STATION		40' SEGMENTS	80' SEGMENTS
'0' 22+28	'0' 24+60.54 PC		4
'0' 24+60.54 PC	'0' 28+28.59 PT	9	
'0' 28+28.59 PT	'0' 35+29.37 PC		9
'0' 35+29.37 PC	'0' 38+75.52 PT	9	
'0' 38+75.52 PT	'0' 40+40.45 PC		2
'0' 40+40.45 PC	'0' 42+93.59 PT	6	
'0' 42+93.59 PT	'0' 47+52.33 PC		6
'0' 47+52.33 PC	'0' 52+48.49 PT	12	
'0' 52+48.49 PT	'0' 62+23.46 PC		12
'0' 62+23.46 PC	'0' 67+26.33 PT	13	
'0' 67+26.33 PT	'0' 69+96.77 PC		3
'0' 69+96.77 PC	'0' 77+92.64 PT	20	
'0' 77+92.67 PT	'0' 80+20 EOP	3	
	TOTAL (EACH)	108	

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

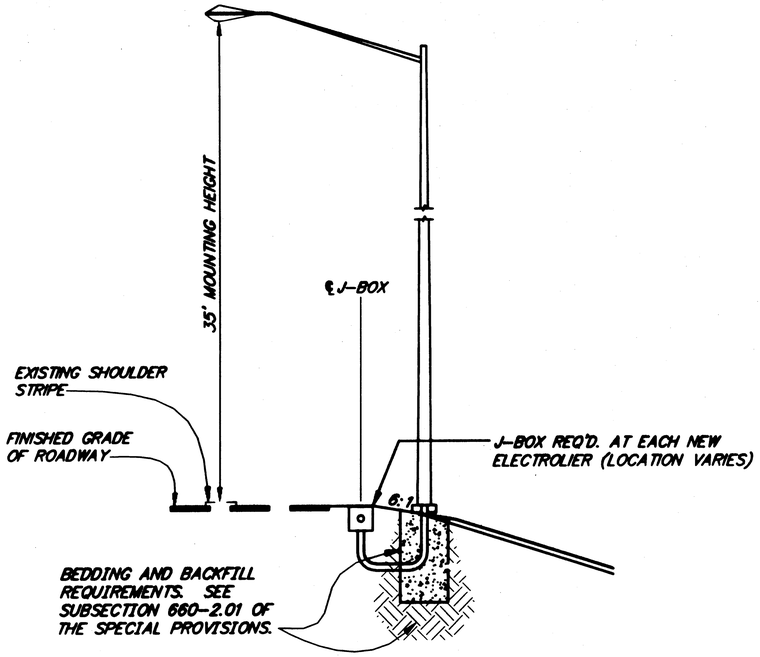
KETCHIKAN ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

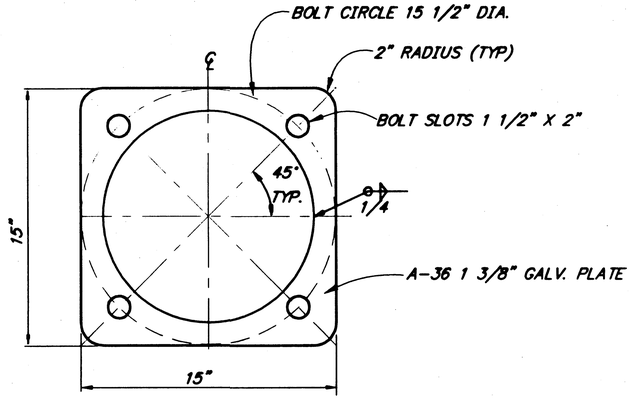
SIGNING AND STRIPING

DESIGNED BY: M. Lukshin	71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: R. Purves	SHEET 61 OF 93

STATE OF ALASKA 49th
Michael Lukshin CE-8737
REGISTERED PROFESSIONAL ENGINEER



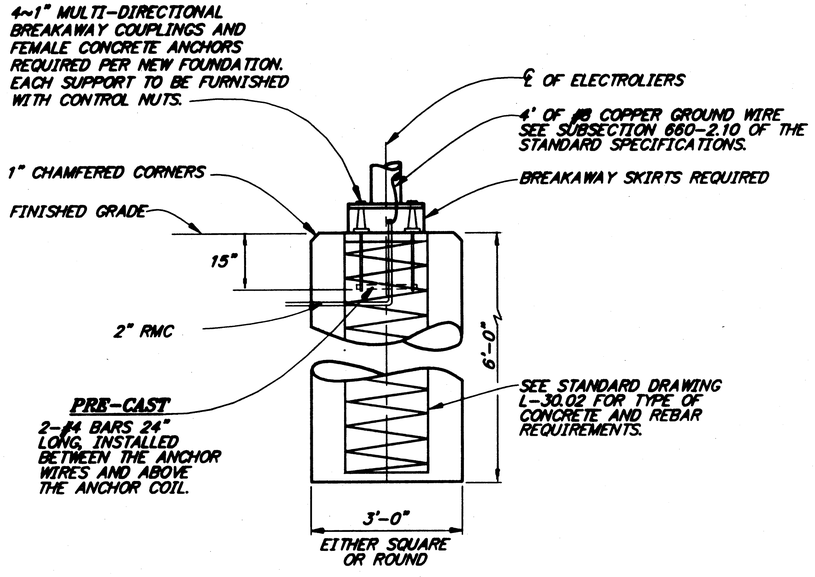
TYPICAL SECTION FOR ELECTROLIER



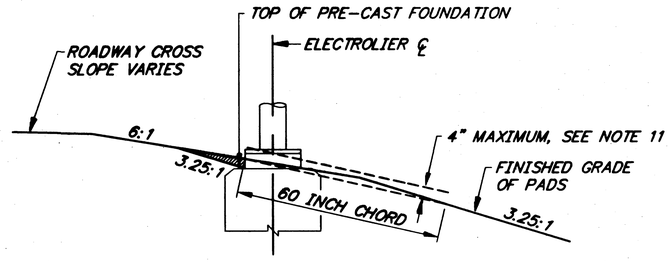
ANCHOR BASE DETAIL

ILLUMINATION GENERAL NOTES

1. ALL WIRING SHALL BE ENCASED IN 2" DIA. RIGID METAL CONDUIT.
2. EACH ELECTROLIER SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE FOUNDATION AS SHOWN IN THE POLE AND J-BOX WIRING DETAIL.
3. ALL JUNCTION BOXES SHALL BE TYPE IA, EXCEPT AT LOAD CENTERS, SEE STANDARD DRAWING L-23.01.
4. A BARE STRANDED GROUND CONDUCTOR SHALL BE INSTALLED THROUGH ALL CONDUITS. THE GROUND CONDUCTOR SHALL BE ATTACHED TO ALL CONDUIT END BUSHINGS AND POLES.
5. NEW ELECTROLIER FOUNDATIONS MAY BE PRE-CAST. PRE-CAST FOUNDATIONS SHALL BE TRANSPORTED USING A DEVICE THAT SPREADS THE LOAD EVENLY BETWEEN THE ANCHOR BOLTS.
6. INSTALL THE PHOTOELECTRIC CELL ON TOP OF THE NEAREST ELECTROLIER POLE.
7. ILLUMINATION CIRCUIT WIRES SHALL BE NO. 8 AWG. 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 660-2.08.
8. LUMINAIRES SHALL BE 240 VOLT, 250 WATT, HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, CUT-OFF, IES TYPE III AND SHALL HAVE MAGNETIC REGULATOR BALLASTS AND HPS LAMPS WITH A 24,000 HOUR RATED LIFE.
9. INSTALL ONE WHITE FLEXIBLE DELINEATOR POST AT EACH J-BOX TO MARK IT'S LOCATION. DELINEATOR POSTS SHALL BE OF 3.75" WIDE COMPOSITE MATERIAL (CARSONITE ROADMARKER OR APPROVED EQUAL) AND SHALL BE EMBEDDED TO STAND 48" ABOVE GROUND LEVEL.
10. INSTALL ONE SPARE TWO INCH RIGID METAL CONDUITS FROM THE LOAD CENTER TO THE FIRST JUNCTION BOX.
11. NON-BREAKAWAY PORTIONS OF FOUNDATIONS SHALL NOT PROTRUDE MORE THAN FOUR INCHES ABOVE ANY 60 INCH CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.
12. LUMINAIRE MASTARMS SHALL BE 15' LONG UNLESS NOTED ELSEWHERE.



FOUNDATION WITH BREAKAWAY COUPLINGS



FOUNDATION INSTALLATION DETAIL

INDICATES EMBANKMENT MATERIAL TO BE REMOVED FROM AROUND BREAKAWAY SKIRTS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

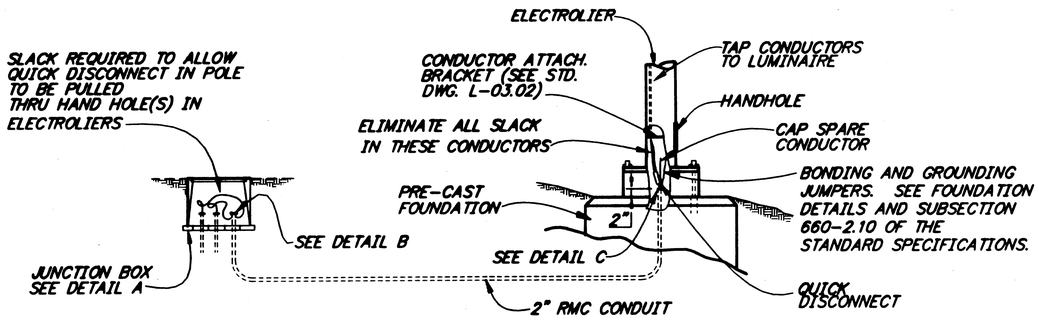
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

ILLUMINATION DETAILS

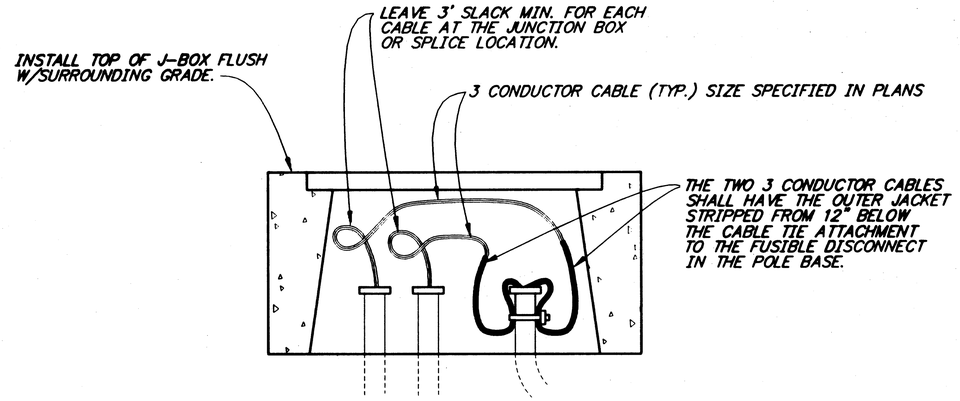
DESIGNED BY: M. Lukshin	71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: R. Purves	SHEET 62 OF 93

STATE OF ALASKA 49th
Michael Lukshin CE-8737
REGISTERED PROFESSIONAL ENGINEER

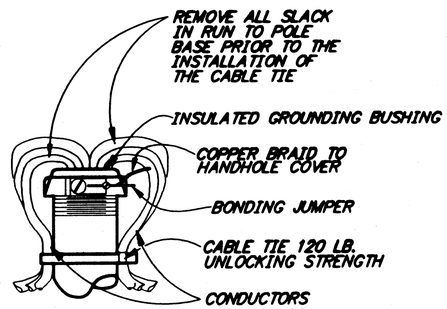


LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS

(BREAKAWAY COUPLINGS)

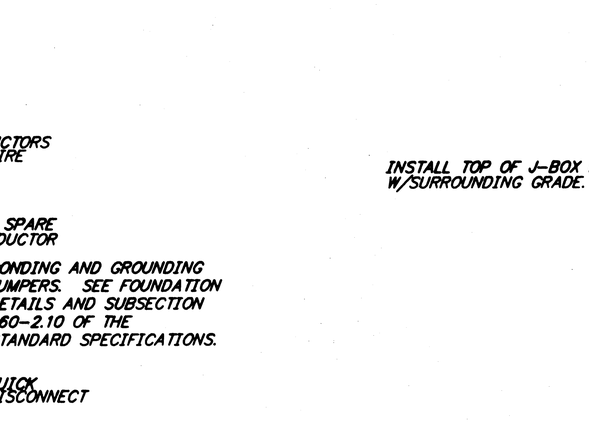


DETAIL A



DETAIL B

(IN J-BOX)



DETAIL C

(IN POLE BASE)

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SOUTHEAST REGION

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THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

ILLUMINATION DETAILS

DESIGNED BY: M. Lukshin	71811
DRAWN BY: B. Bennett	DATE: July, 1999
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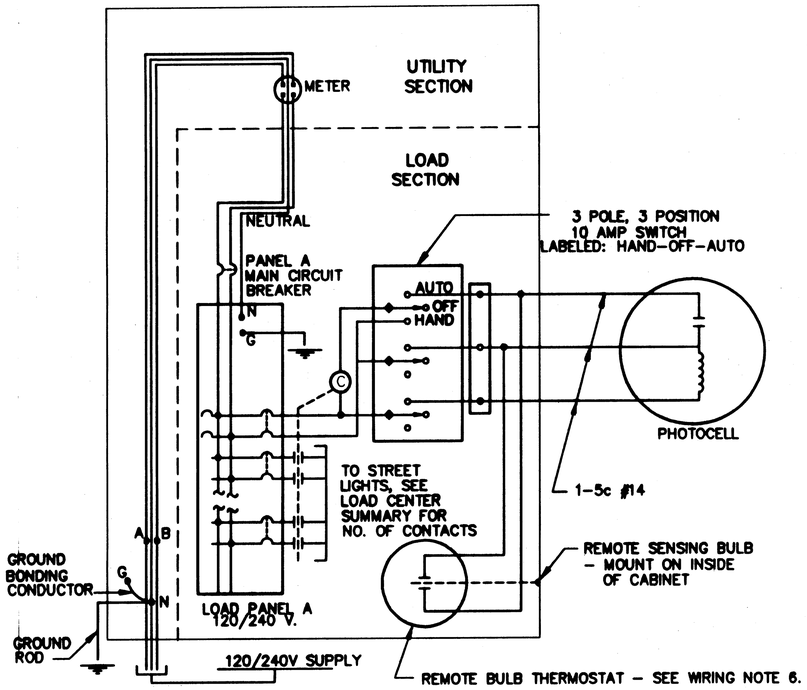
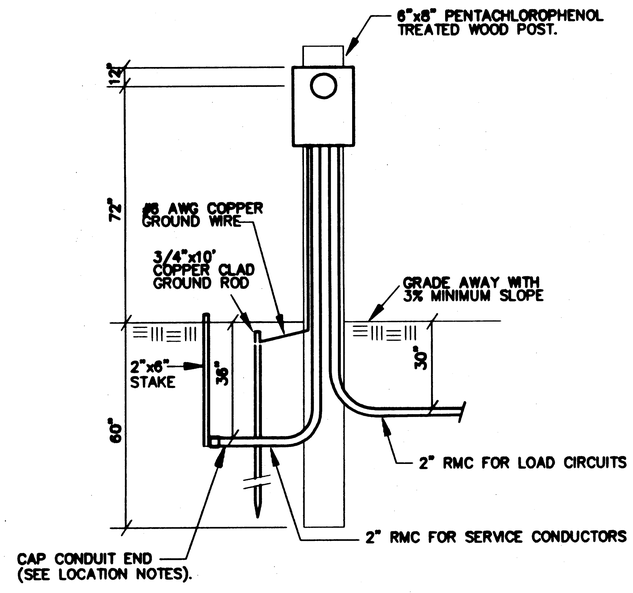
STATE OF ALASKA 49th Michael Lukshin CE-8737 REGISTERED PROFESSIONAL ENGINEER

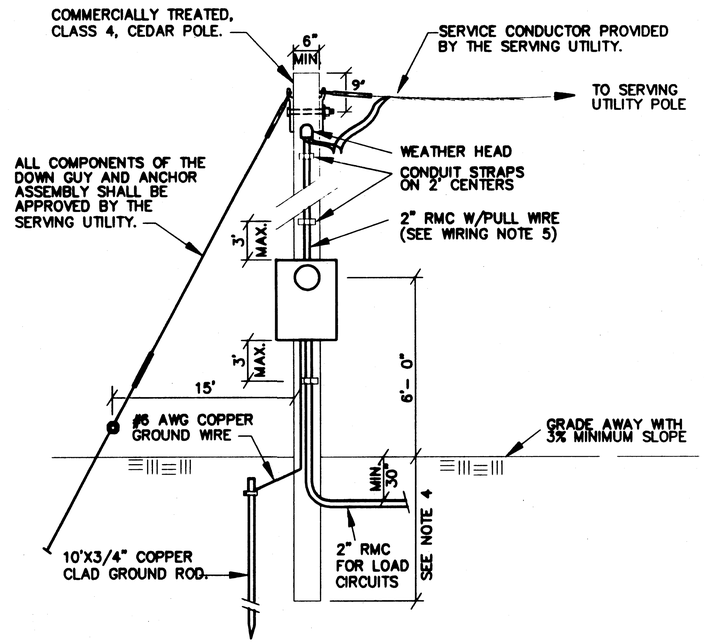


LOAD CENTER ONE LINE DIAGRAM AND SELECTOR SWITCH WIRING

TYPE 2 & 3 LOAD CENTERS – USED FOR LIGHTING WITH PHOTOELECTRIC AND THERMOSTATIC CONTROLS



TYPE 2 LOAD CENTER



TYPE 3 LOAD CENTER

LOCATION NOTES:

1. INSTALL A 2" MINIMUM SIZE RIGID METAL CONDUIT WITH PULLROPE PULLROPE TO WITHIN 2 FEET OF TO WITHIN 2 FEET OF THE POWER SOURCE AT A MINIMUM DEPTH OF 36 INCHES. INSTALL A CAP ON AND MARK THE BURIED END OF THE CONDUIT WITH A 2"x6" STAKE.

WIRING NOTES:

1. THE TYPE 2 AND 3 LOAD CENTERS ARE INTENDED FOR USE WITH 120/240 VOLT SERVICES ONLY, WHEN ALL LOAD CABLES WILL FIT INTO ONE TWO INCH CONDUIT.
2. PROVIDE LOAD PANELS SIZED FOR THE NUMBER OF DOUBLE POLE CIRCUIT BREAKERS SHOWN IN THE LOAD CENTER SUMMARIES, ALLOWING SPACE FOR TWO SPARE DOUBLE POLE BREAKERS.
3. INSTALL TWO SPARE DOUBLE POLE 20 AMPERE BREAKERS IN ALL LOAD PANELS.
4. THE VOLTAGE OF THE CONTROL CIRCUIT AND CONTACT COIL IS 240 VOLT.
5. PROVIDE A REMOTE BULB THERMOSTAT WHEN METAL HALIDE LAMPS ARE INCLUDED IN LIGHTING CIRCUITS. THE CONTACTS SHALL CLOSE AT 15° F WHEN THE TEMPERATURE IS FALLING, AND OPEN AT –10° F WHEN THE TEMPERATURE IS RISING. PROVIDE A THERMOSTAT RATED FOR OPERATION FROM –30° F TO 90° F.
6. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE LOAD CENTER COMPLIES WITH ALL LOCAL UTILITY ASSOCATION REQUIREMENTS.

TYPE 2 & 3 LOAD CENTER NOTES:

1. SIZE THE TYPE 2 AND 3 LOAD CENTER CABINETS TO HOLD THE EQUIPMENT SHOWN IN THE WIRING DIAGRAM AND DETAILED IN EACH LOAD CENTER SUMMARY, ALLOWING SPACE FOR WIRING PER THE NATIONAL ELECTRICAL CODE. INSTALLING A METER BASE AND MAIN BREAKER IN A SEPARATE ENCLOSURE IS ALLOWABLE. HOWEVER IN THIS CASE, FURNISH A BREAKER PANEL WITH A MAIN BREAKER.
2. WIRE ALL TYPE 2 AND 3 LOAD CENTERS PER THE WIRING DIAGRAM INDICATED ON THIS DETAIL SHEET.
3. INSTALL POLES OF SUFFICIENT LENGTH TO PROVIDE THE FOLLOWING MINIMUM GROUND TO SERVICE CONDUCTOR CLEARANCE:
   A. 21 FEET, IF THE SERVICE CONDUCTORS ARE LOCATED ABOVE ROADWAYS OR PARKING AREAS.
   B. 28 FEET, IF THE SERVICE CONDUCTORS ARE LOCATED WITHIN 20 FEET OF A RAILROAD TRACK.
   C. 18 FEET IN ALL OTHER CIRCUMSTANCES.
4. SET THE BUTT END OF TYPE 3 LOAD CENTER POLES TO THE FOLLOWING MINIMUM DEPTH:
   A. 10 PERCENT OF ITS LENGTH PLUS 2 FEET, OR 5 FEET, WHICHEVER IS GREATER, IF IT IS INSTALLED IN EARTH OTHER THAN SOLID ROCK OR MUSKEG.
   B. 10 PERCENT OF ITS LENGTH, OR 4 FEET, WHICHEVER IS GREATER, IF IT IS INSTALLED IN SOLID ROCK.
   C. CONSIDER MUSKEG TO BE AIR, AND SET THE BUTT ENDS TO THE DEPTH GIVEN IN A OR B, WHICHEVER APPLIES, IN THE UNDERLYING EARTH OR ROCK.

   WHENEVER MORE THAN TWO FEET OF EARTH OVERLAYS ROCK, OR THE DIAMETER OF THE DRILLED HOLE IN ROCK EXCEEDS TWICE THE DIAMETER OF THE POLE AT THE GROUND LINE, CONSIDER THE INSTALLATION AS EARTH.
5. ATTACH ALL CONDUITS TO THE POSTS AND POLES USING TWO HOLE RIGID METAL CONDUIT STRAPS LOCATED ON 24 INCH CENTERS.
6. ATTACH ALL GROUND CONDUCTORS TO THE POSTS AND POLES USING CABLE STAPLES LOCATED ON 12 INCH CENTERS.

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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STATE OF ALASKA
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SOUTHEAST REGION

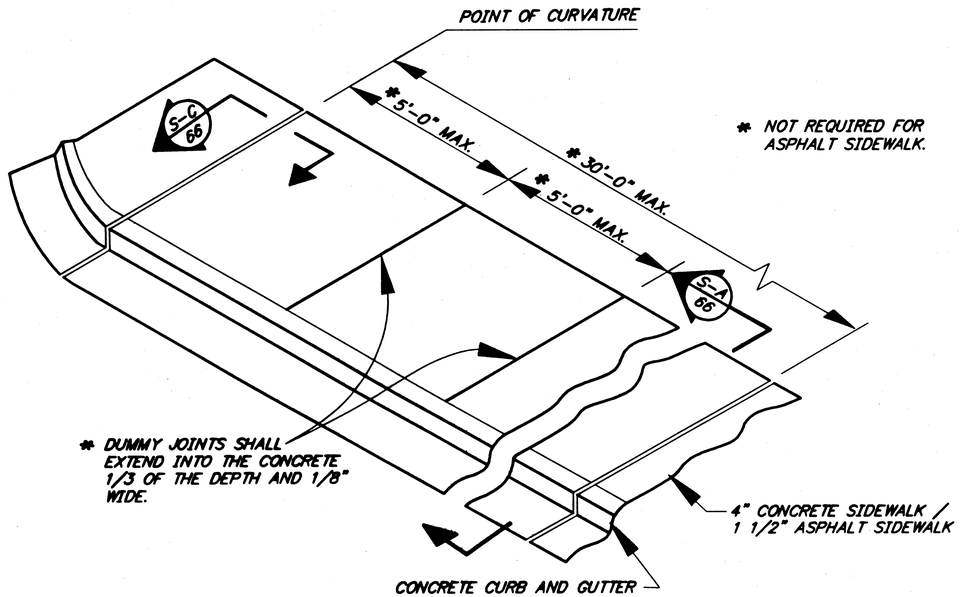
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

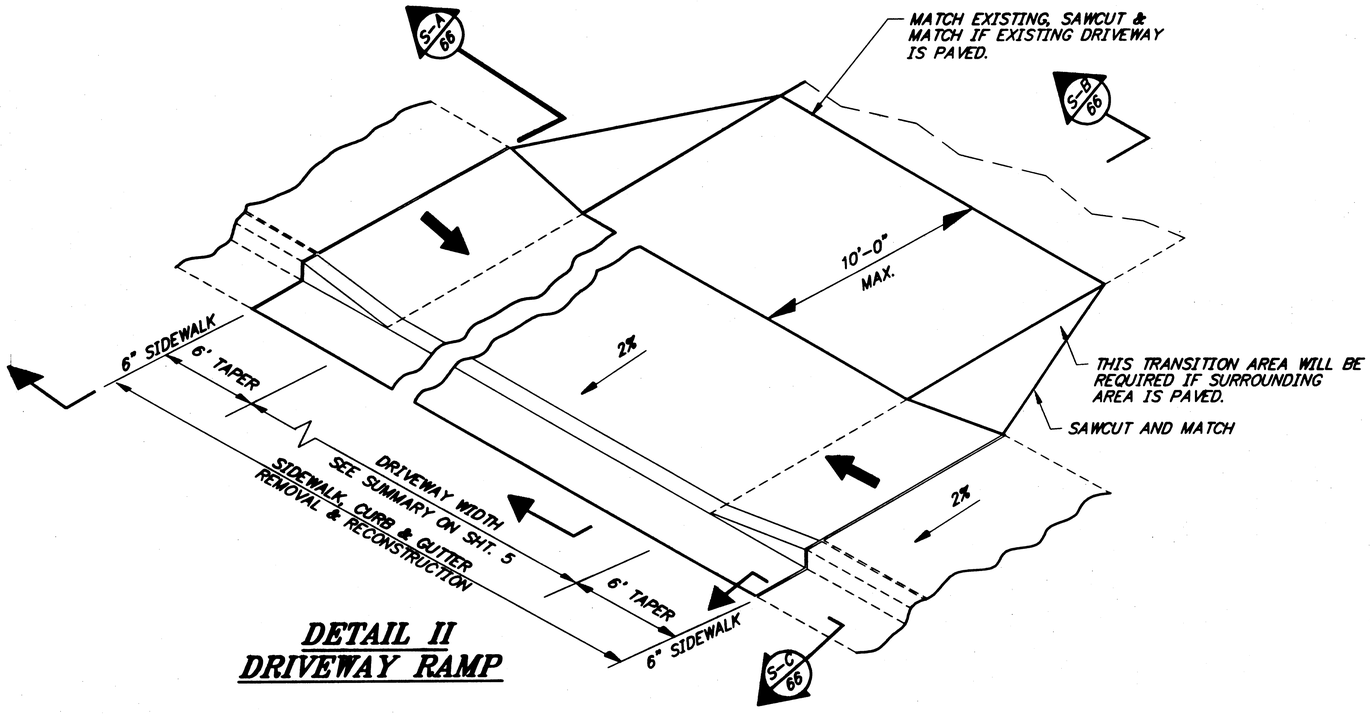
LOAD CENTER DETAILS

DESIGNED BY: D. Saldivar	71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: C. Morrow	SHEET 64 OF 93

STATE OF ALASKA 49th MICHAEL LUKSHIN REGISTERED PROFESSIONAL ENGINEER



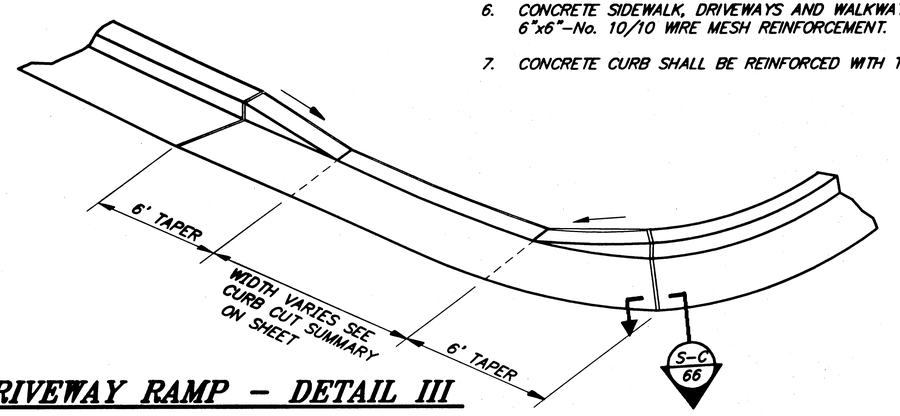
DETAIL I
TYPICAL SIDEWALK, CURB & GUTTER



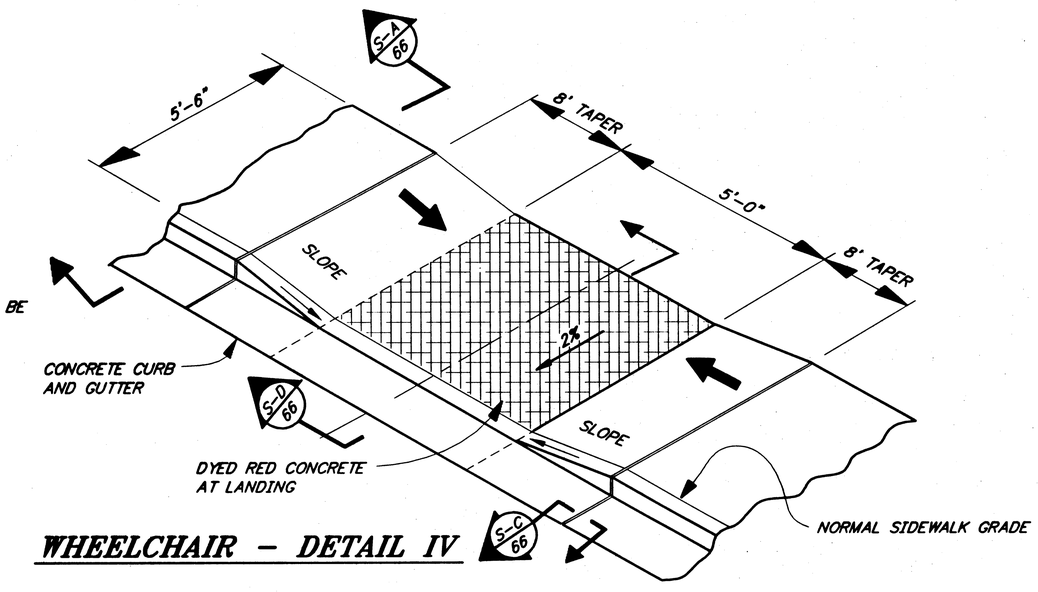
DETAIL II
DRIVEWAY RAMP

SIDEWALK, CURB AND GUTTER NOTES

1. CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF THE CURB RETURNS AND IMMEDIATELY PRECEEDING AND FOLLOWING ALL CURB CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30'-0" MAXIMUM.
2. ALL CURB AND GUTTERS SHALL BE CLASS "A" CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF fc = 3000 psi.
3. CURB CUT FOR RESIDENTIAL DRIVEWAYS AND CURB RETURNS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SLOPE OF 12:1.
4. SEE WORK SUMMARY ON SHEET FOR DRIVEWAY WIDTHS. NEW CURB CUTS SHALL BE LOCATED TO MATCH EXISTING.
5. IF EXISTING JOINT IS WITHIN 2' OF RECONSTRUCTION AREAS, REMOVE AT JOINT INSTEAD OF SAWCUTTING. THIS DOES NOT APPLY TO NEW CONSTRUCTION.
6. CONCRETE SIDEWALK, DRIVEWAYS AND WALKWAYS SHALL BE REINFORCED WITH 6"x6"-No. 10/10 WIRE MESH REINFORCEMENT.
7. CONCRETE CURB SHALL BE REINFORCED WITH THREE #4 CONTINUOUS REBAR.



DRIVEWAY RAMP - DETAIL III



WHEELCHAIR - DETAIL IV

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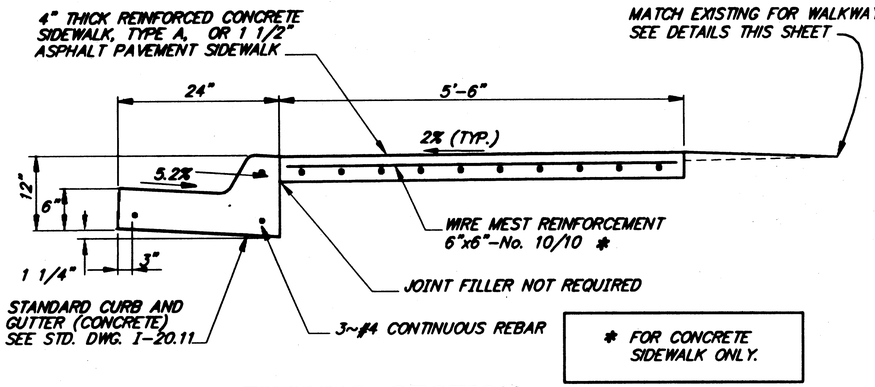
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811

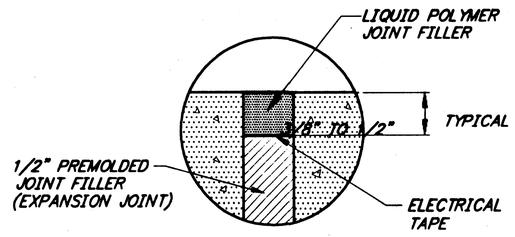
SIDEWALK AND CURB CUT DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 65 OF 93

STATE OF ALASKA — David D Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER



TYPICAL SECTION (A)



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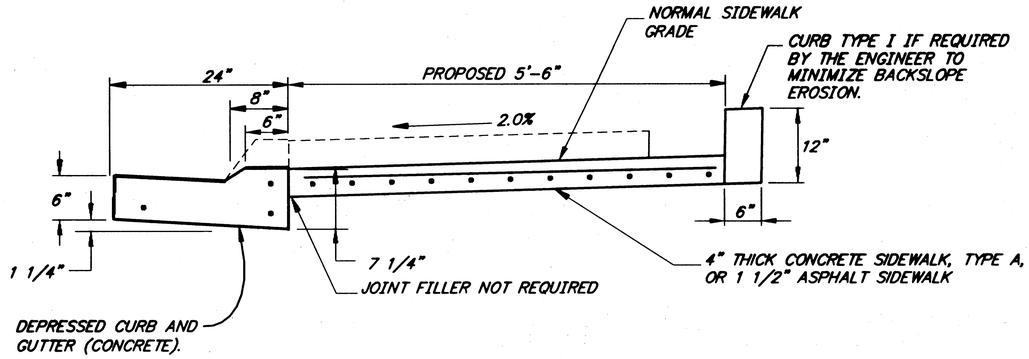
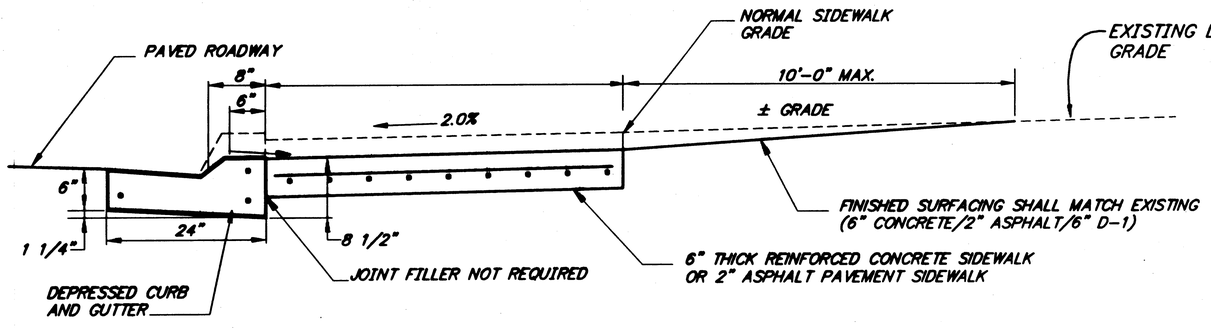


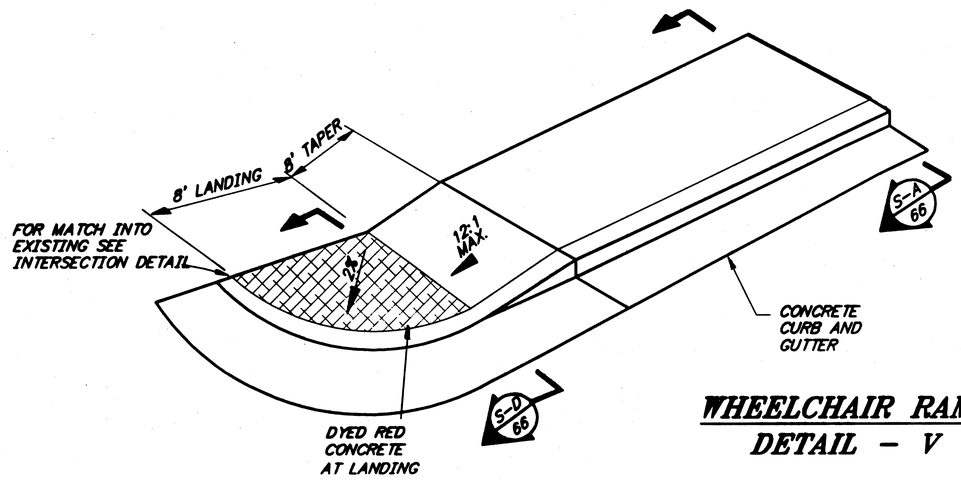
SECTION (D)

DEPRESSED CURB & RAMP

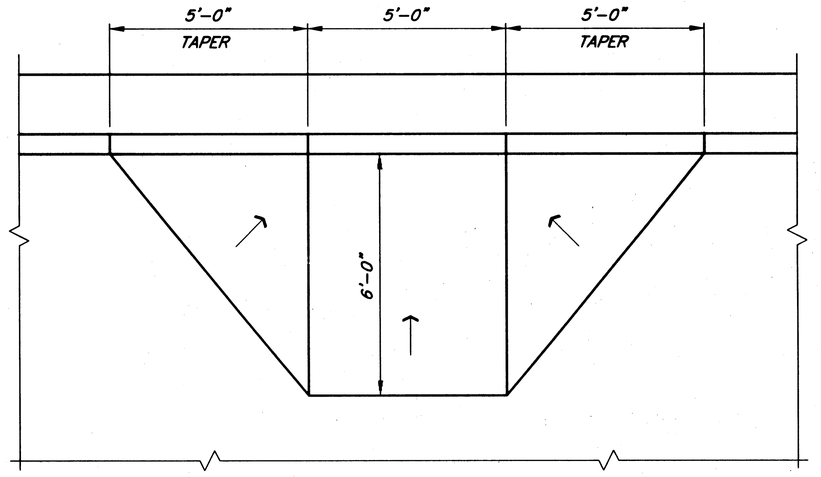


SECTION (B)

DEPRESSED CURB & DRIVEWAY



WHEELCHAIR RAMP DETAIL – V



WHEELCHAIR RAMP DETAIL – VI

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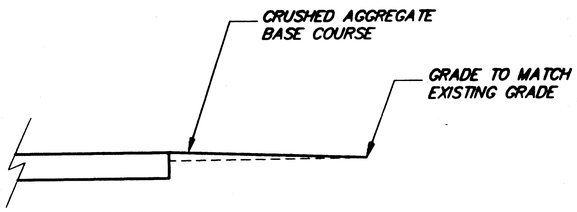
KETCHIKAN ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

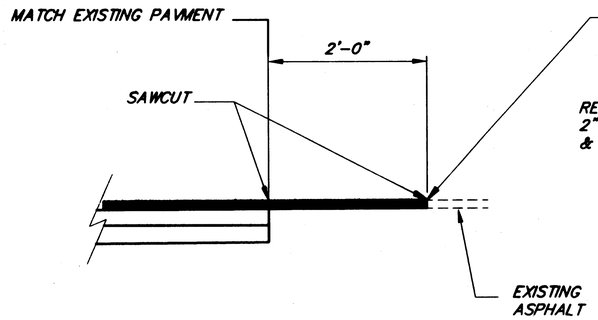
SIDEWALK AND CURB CUT DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 66 OF 93

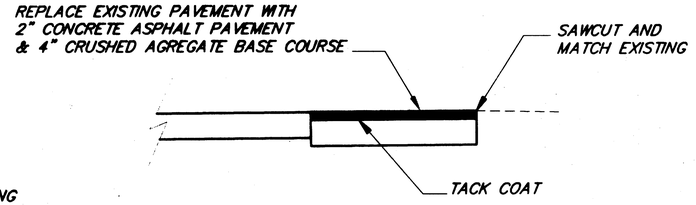
STATE OF ALASKA
Bowd D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



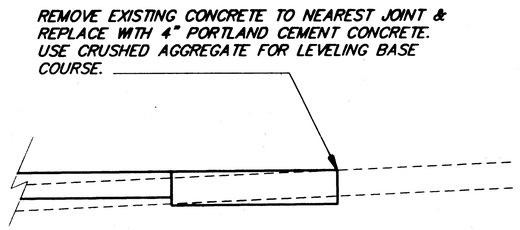
GRAVEL WALKWAY



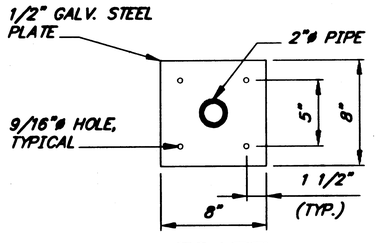
PAVEMENT JOINT DETAIL



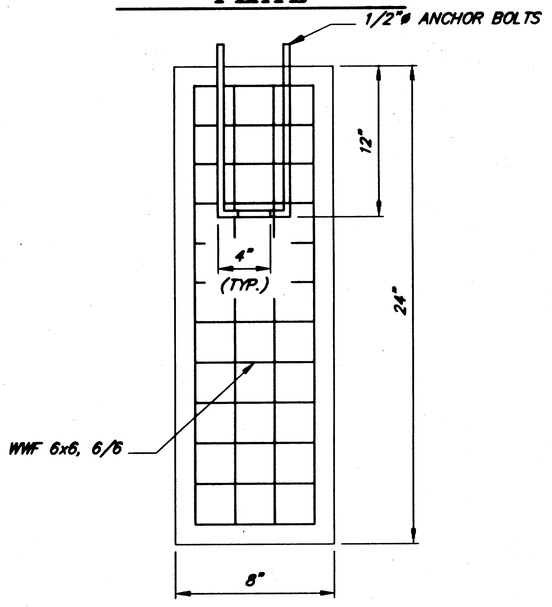
ASPHALT WALKWAY



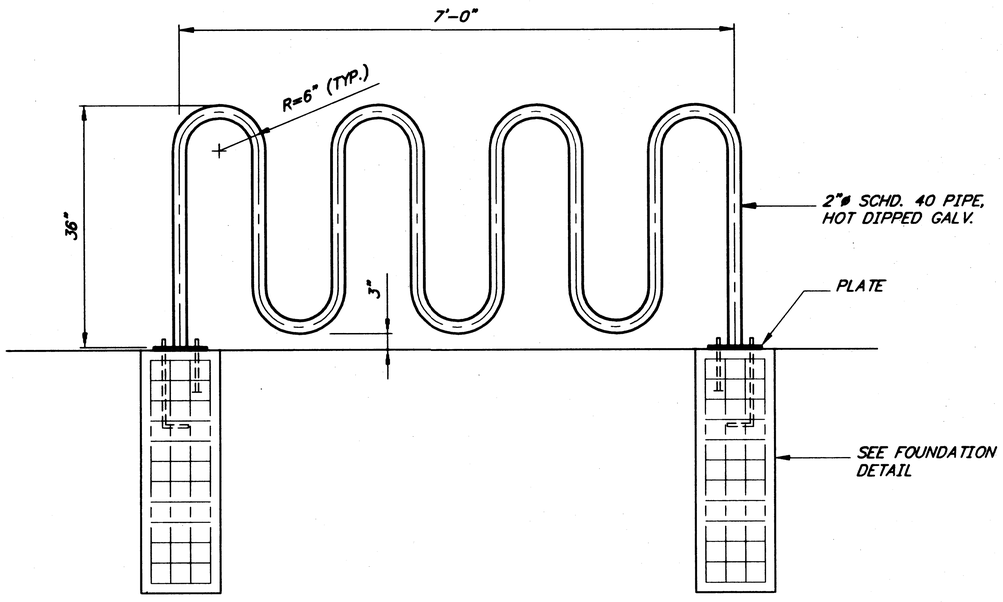
CONCRETE WALKWAY



PLATE



FOUNDATION



BIKE RACK DETAIL

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SOUTHEAST REGION

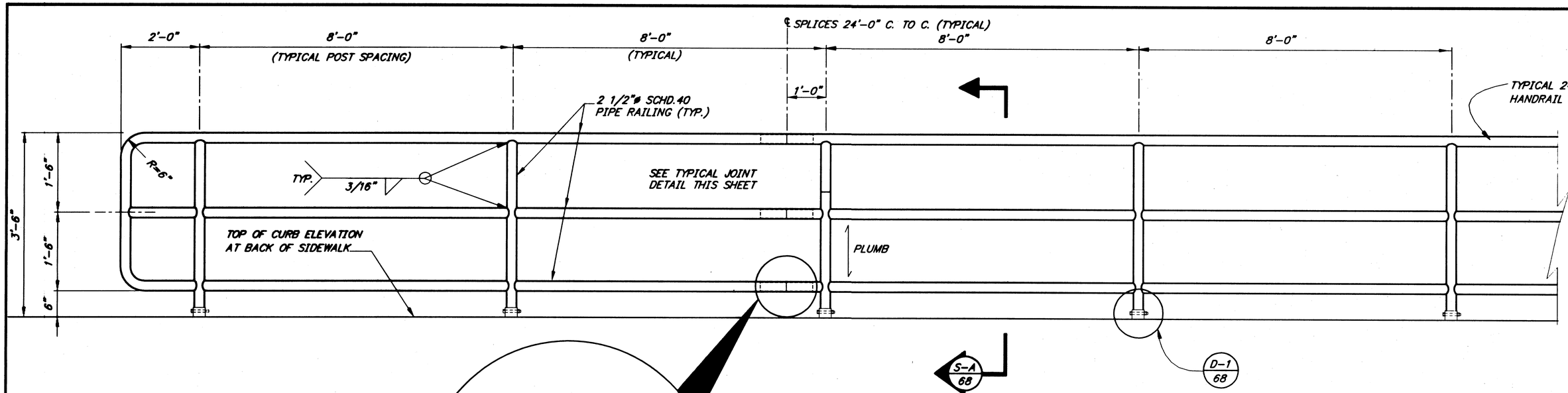
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

SIDEWALK DETAILS

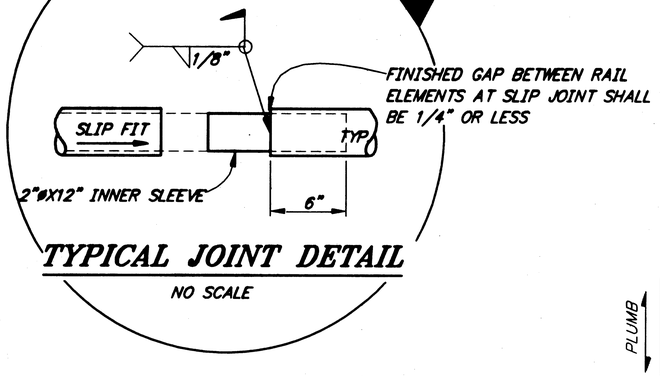
DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 67 OF 93

STATE OF ALASKA
49th
Dawn D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



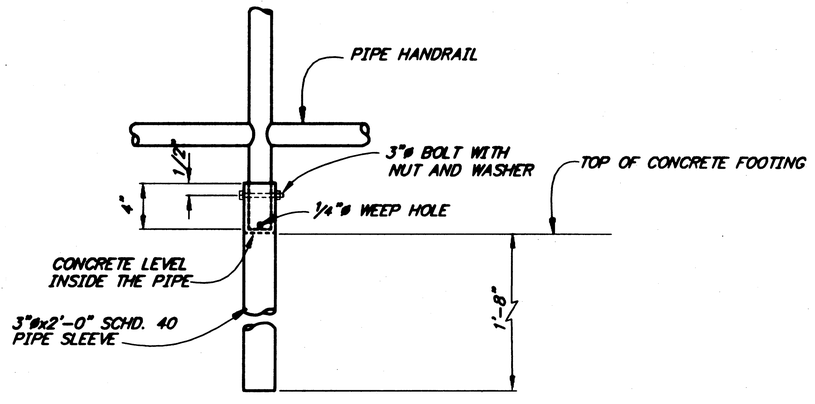
PEDESTRIAN RAILING DETAILS

NO SCALE

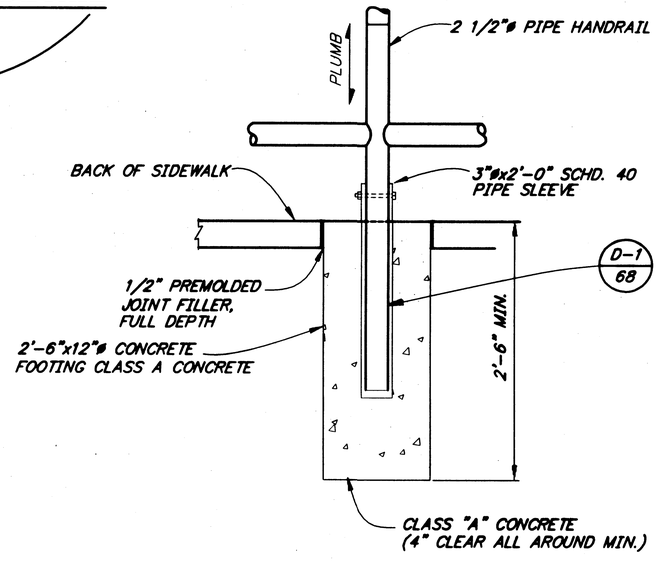


TYPICAL JOINT DETAIL

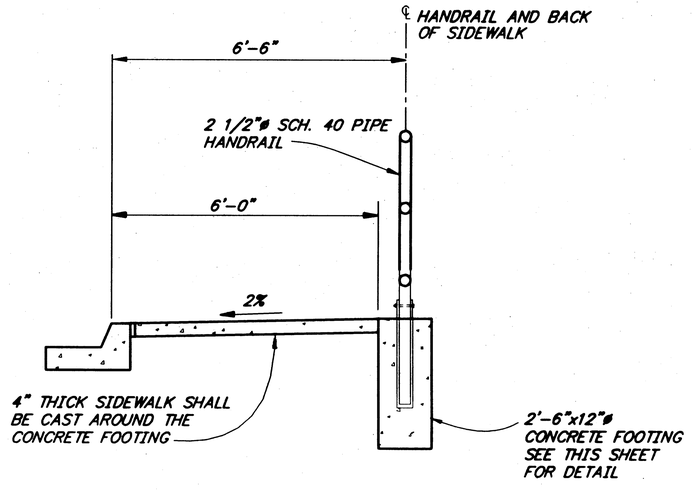
NO SCALE



PIPE SLEEVE DETAIL 1



CONCRETE FOOTING DETAIL A



SECTION A

NO SCALE

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH:	C:\KTN\71811\DR\-Det5	
PLOT:	FULL=1 or HALF=2	
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — *THIRD AVENUE EXTENSION* — ALASKA
STP-0904(1) ~ PROJECT No. 71811
PEDESTRIAN RAILING DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 68 OF 93

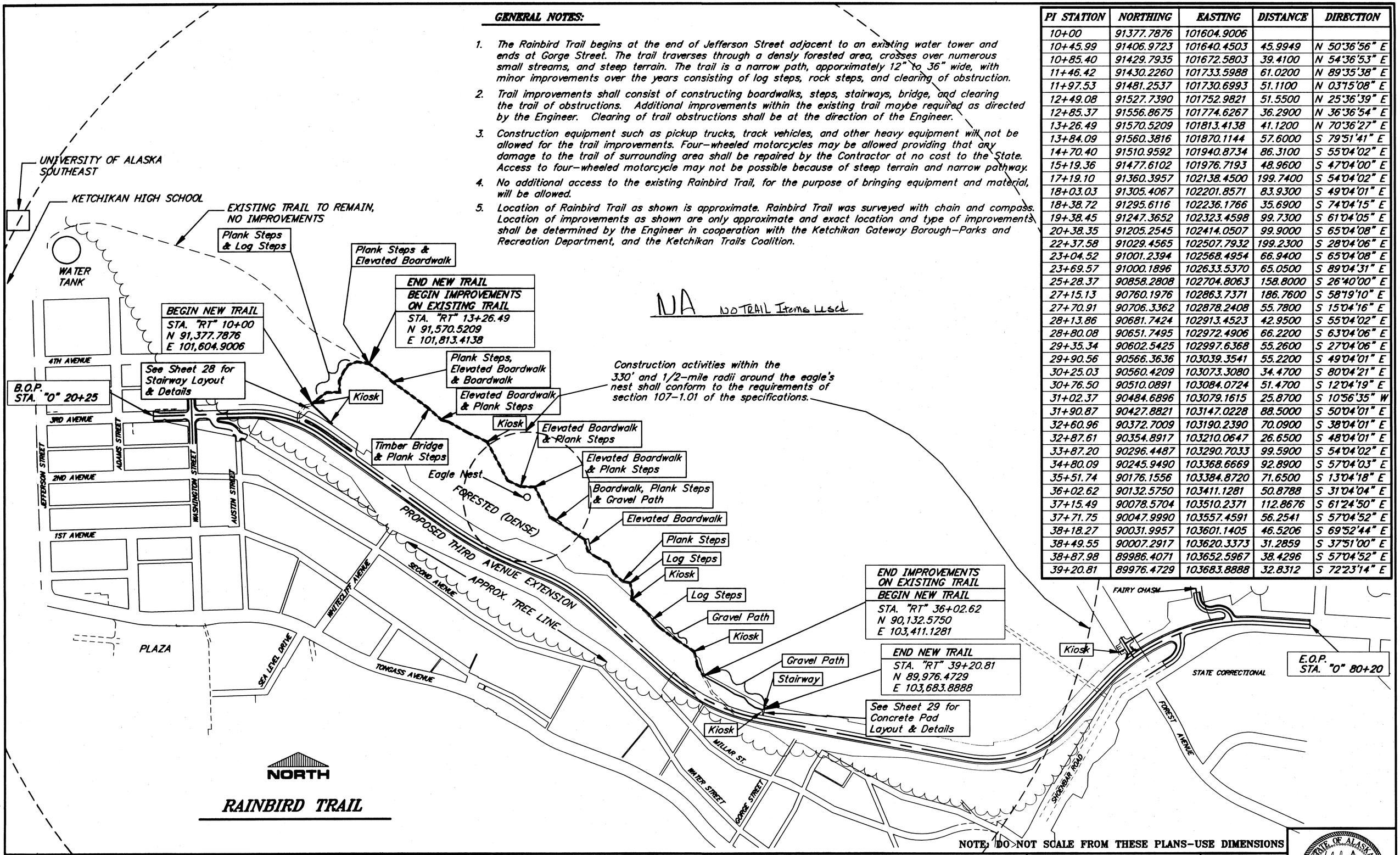
STATE OF ALASKA — 12911 — David D Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

GENERAL NOTES:

1. The Rainbird Trail begins at the end of Jefferson Street adjacent to an existing water tower and ends at Gorge Street. The trail traverses through a densly forested area, crosses over numerous small streams, and steep terrain. The trail is a narrow path, apporximately 12" to 36" wide, with minor improvements over the years consisting of log steps, rock steps, and clearing of obstruction.
2. Trail improvements shall consist of constructing boardwalks, steps, stairways, bridge, and clearing the trail of obstructions. Additional improvements within the existing trail maybe required as directed by the Engineer. Clearing of trail obstructions shall be at the direction of the Engineer.
3. Construction equipment such as pickup trucks, track vehicles, and other heavy equipment will not be allowed for the trail improvements. Four-wheeled motorcycles may be allowed providing that any damage to the trail of surrounding area shall be repaired by the Contractor at no cost to the State. Access to four-wheeled motorcycle may not be possible because of steep terrain and narrow pathway.
4. No additional access to the existing Rainbird Trail, for the purpose of bringing equipment and material, will be allowed.
5. Location of Rainbird Trail as shown is approximate. Rainbird Trail was surveyed with chain and compass. Location of improvements as shown are only approximate and exact location and type of improvements shall be determined by the Engineer in cooperation with the Ketchikan Gateway Borough-Parks and Recreation Department, and the Ketchikan Trails Coalition.

N/A NO TRAIL Items Used

PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
10+00	91377.7876	101604.9006		
10+45.99	91406.9723	101640.4503	45.9949	N 50°36'56" E
10+85.40	91429.7935	101672.5803	39.4100	N 54°36'53" E
11+46.42	91430.2260	101733.5988	61.0200	N 89°35'38" E
11+97.53	91481.2537	101730.6993	51.1100	N 03°15'08" E
12+49.08	91527.7390	101752.9821	51.5500	N 25°36'39" E
12+85.37	91556.8675	101774.6267	36.2900	N 36°36'54" E
13+26.49	91570.5209	101813.4138	41.1200	N 70°36'27" E
13+84.09	91560.3816	101870.1144	57.6000	S 79°51'41" E
14+70.40	91510.9592	101940.8734	86.3100	S 55°04'02" E
15+19.36	91477.6102	101976.7193	48.9600	S 47°04'00" E
17+19.10	91360.3957	102138.4500	199.7400	S 54°04'02" E
18+03.03	91305.4067	102201.8571	83.9300	S 49°04'01" E
18+38.72	91295.6116	102236.1766	35.6900	S 74°04'15" E
19+38.45	91247.3652	102323.4598	99.7300	S 61°04'05" E
20+38.35	91205.2545	102414.0507	99.9000	S 65°04'08" E
22+37.58	91029.4565	102507.7932	199.2300	S 28°04'06" E
23+04.52	91001.2394	102568.4954	66.9400	S 65°04'08" E
23+69.57	91000.1896	102633.5370	65.0500	S 89°04'31" E
25+28.37	90858.2808	102704.8063	158.8000	S 26°40'00" E
27+15.13	90760.1976	102863.7371	186.7600	S 58°19'10" E
27+70.91	90706.3362	102878.2408	55.7800	S 15°04'16" E
28+13.86	90681.7424	102913.4523	42.9500	S 55°04'02" E
28+80.08	90651.7495	102972.4906	66.2200	S 63°04'06" E
29+35.34	90602.5425	102997.6368	55.2600	S 27°04'06" E
29+90.56	90566.3636	103039.3541	55.2200	S 49°04'01" E
30+25.03	90560.4209	103073.3080	34.4700	S 80°04'21" E
30+76.50	90510.0891	103084.0724	51.4700	S 12°04'19" E
31+02.37	90484.6896	103079.1615	25.8700	S 10°56'35" W
31+90.87	90427.8821	103147.0228	88.5000	S 50°04'01" E
32+60.96	90372.7009	103190.2390	70.0900	S 38°04'01" E
32+87.61	90354.8917	103210.0647	26.6500	S 48°04'01" E
33+87.20	90296.4487	103290.7033	99.5900	S 54°04'02" E
34+80.09	90245.9490	103368.6669	92.8900	S 57°04'03" E
35+51.74	90176.1556	103384.8720	71.6500	S 13°04'18" E
36+02.62	90132.5750	103411.1281	50.8788	S 31°04'04" E
37+15.49	90078.5704	103510.2371	112.8676	S 61°24'50" E
37+71.75	90047.9990	103557.4591	56.2541	S 57°04'52" E
38+18.27	90031.9957	103601.1405	46.5206	S 69°52'44" E
38+49.55	90007.2917	103620.3373	31.2859	S 37°51'00" E
38+87.98	89986.4071	103652.5967	38.4296	S 57°04'52" E
39+20.81	89976.4729	103683.8888	32.8312	S 72°23'14" E



RAINBIRD TRAIL

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-RAINBIRD		
PLOT: FULL=1 or HALF=2		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

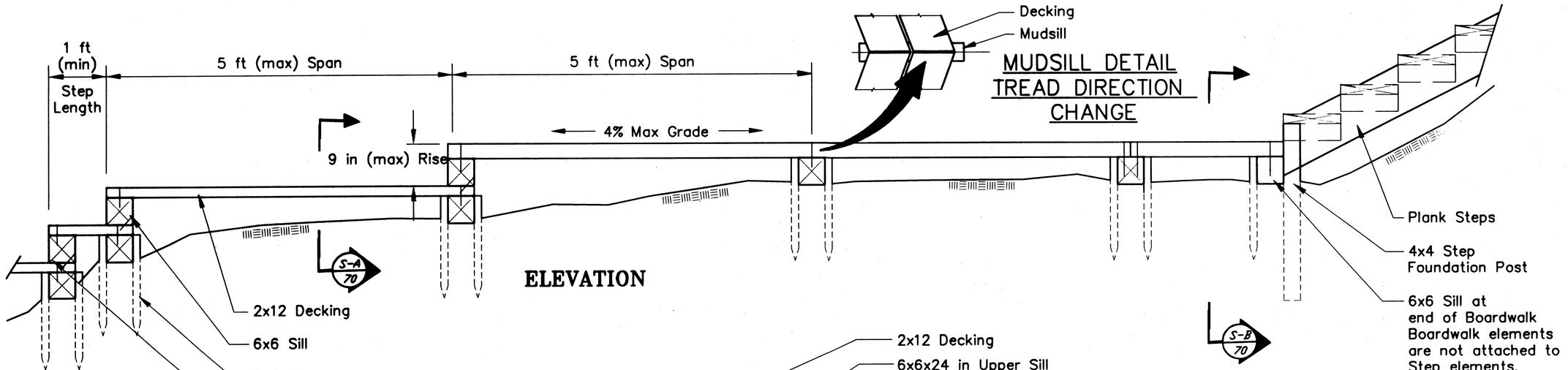
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

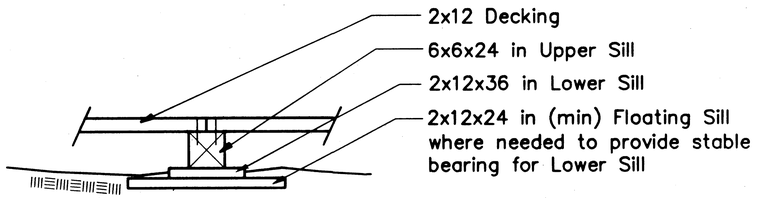
RAINBIRD TRAIL IMPROVEMENTS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 69 OF 93

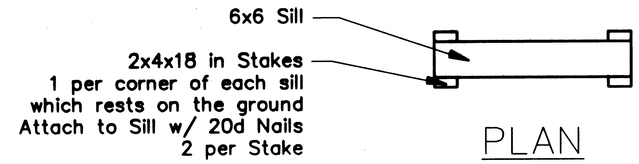
STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



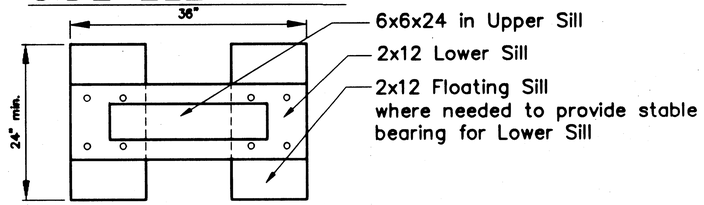
ELEVATION



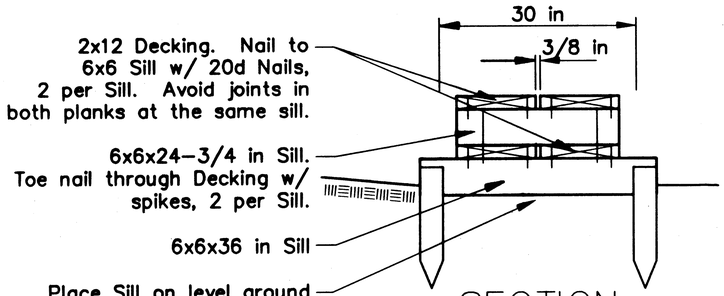
SIDE ELEVATION



PLAN



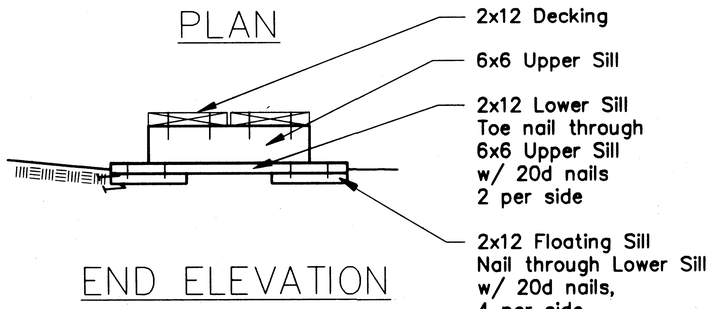
PLAN



SECTION

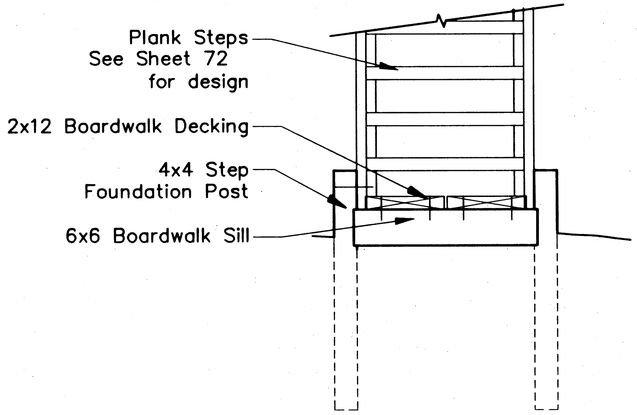
STEP & RUN MUD SILL

SECTION A



END ELEVATION

FLOATING SILL



STEP & RUN/PLANK STEP TRANSITION

SECTION B

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-Boardwalk2		
PLOT: FULL=12 or HALF=24		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

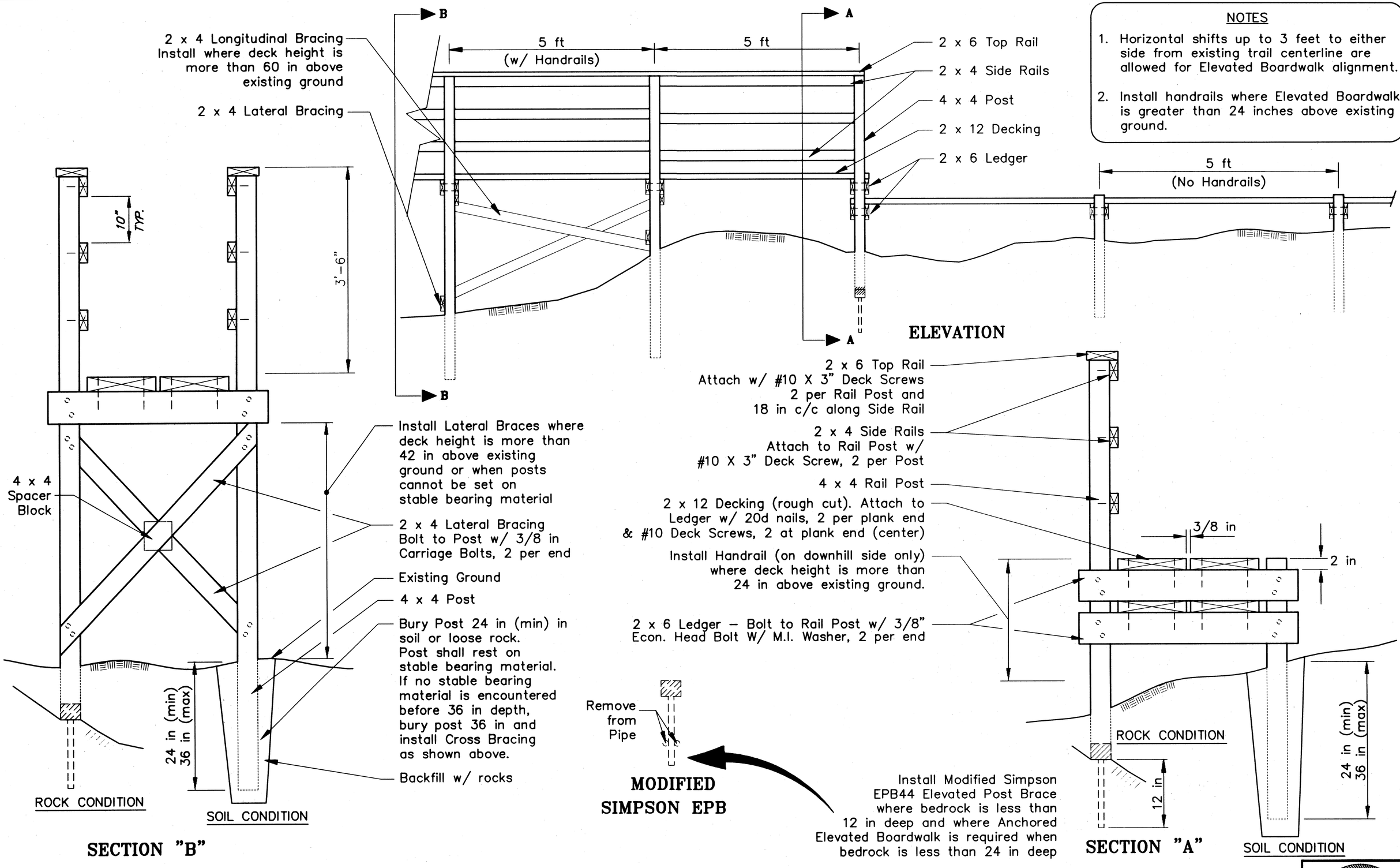
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1)~ PROJECT No. 71811

BOARDWALK

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 70 OF 93

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



NOTES

1. Horizontal shifts up to 3 feet to either side from existing trail centerline are allowed for Elevated Boardwalk alignment.
2. Install handrails where Elevated Boardwalk is greater than 24 inches above existing ground.

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: Q:\KTN\71811\DR_BOARDWALK		
PLOT: FULL=12 or HALF=24		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

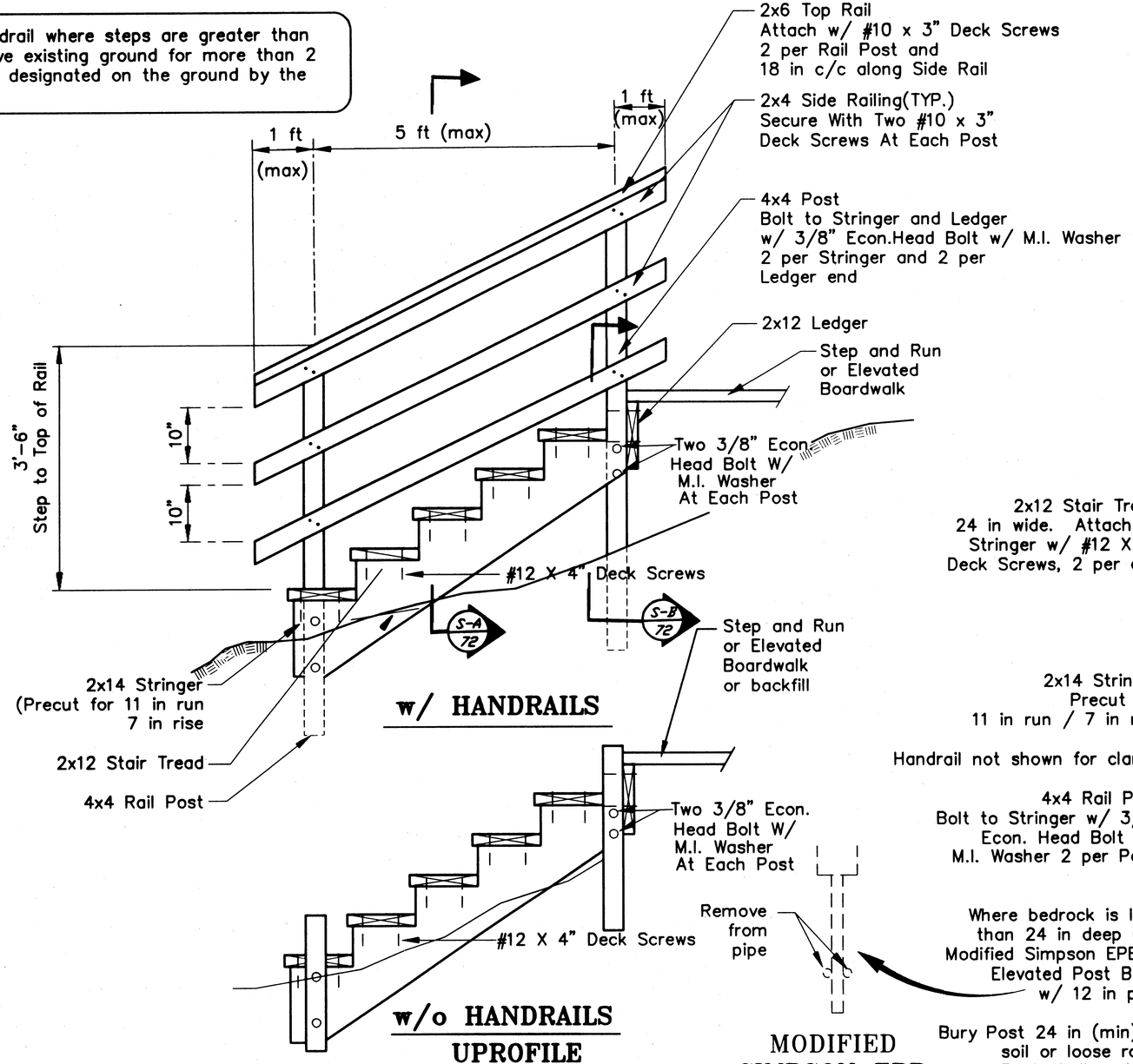
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

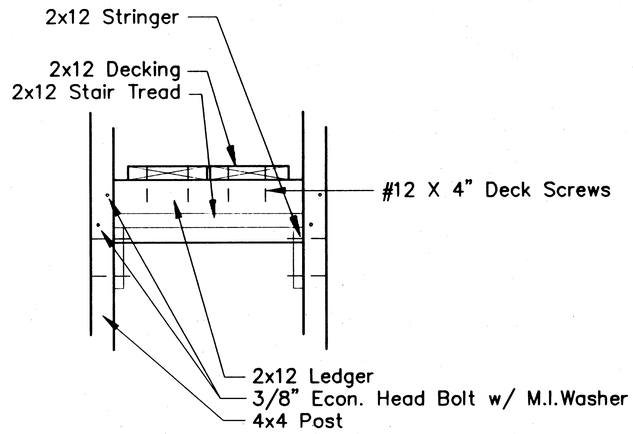
KETCHIKAN — *THIRD AVENUE EXTENSION* — ALASKA
STP-MG-0904(1)~ PROJECT No. 71811
ELEVATED BOARDWALK

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 71 OF 93

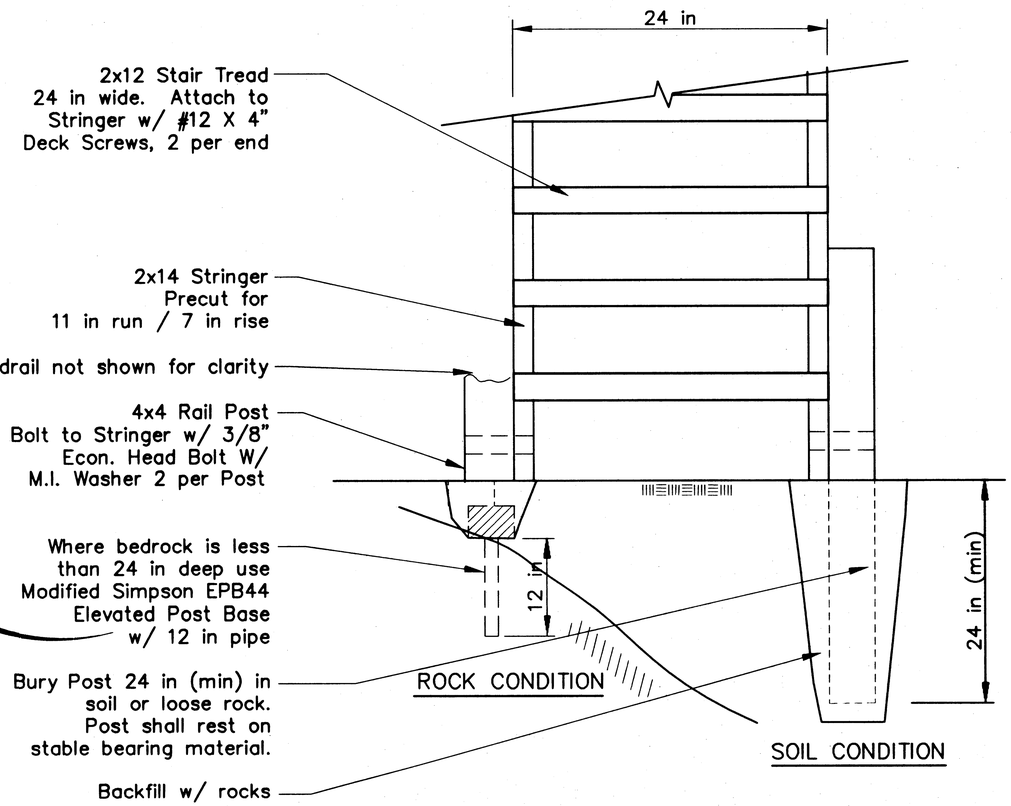
STATE OF ALASKA 49th David D. Saldivar CE-8307 REGISTERED PROFESSIONAL ENGINEER

Install handrail where steps are greater than 48 in above existing ground for more than 2 feet or as designated on the ground by the Engineer.





SECTION B



SECTION A

PLANK STEPS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-STAIRS		
PLOT: FULL=12 or HALF=24		
BY:	DATE:	DESCRIPTION OF CHANGE:

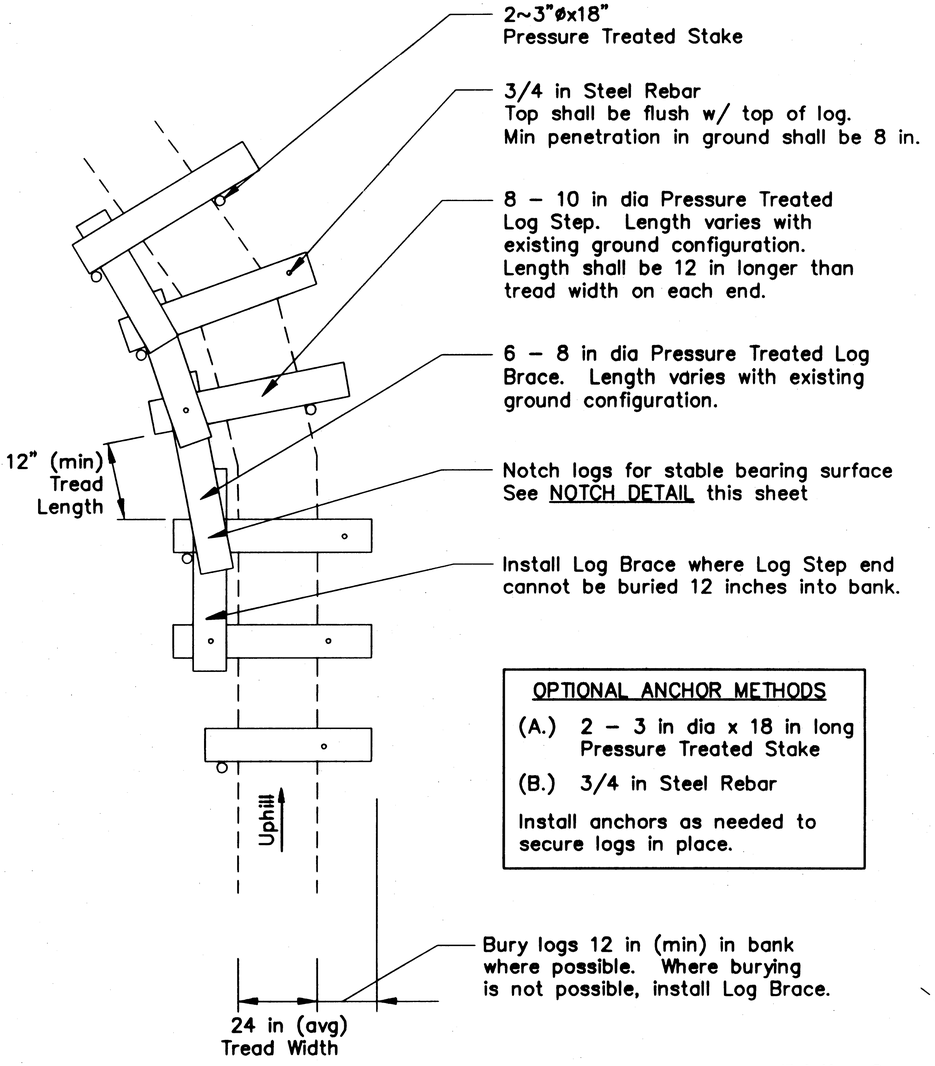
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1)~ PROJECT No. 71811
PLANK STEPS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 72 OF 93

STATE OF ALASKA — David D. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER



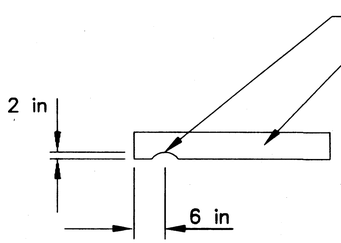
PLAN

OPTIONAL ANCHOR METHODS

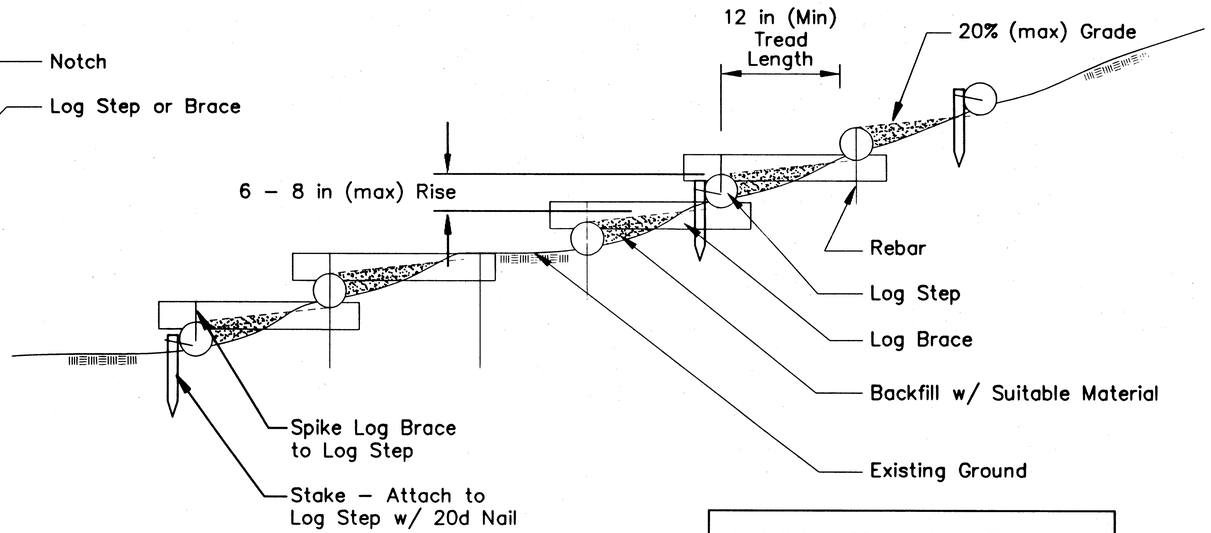
(A.) 2 – 3 in dia x 18 in long Pressure Treated Stake

(B.) 3/4 in Steel Rebar

Install anchors as needed to secure logs in place.

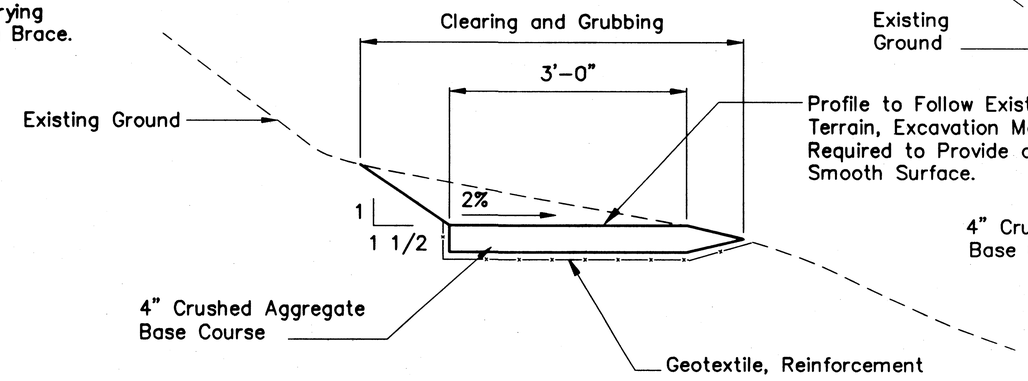


NOTCH DETAIL

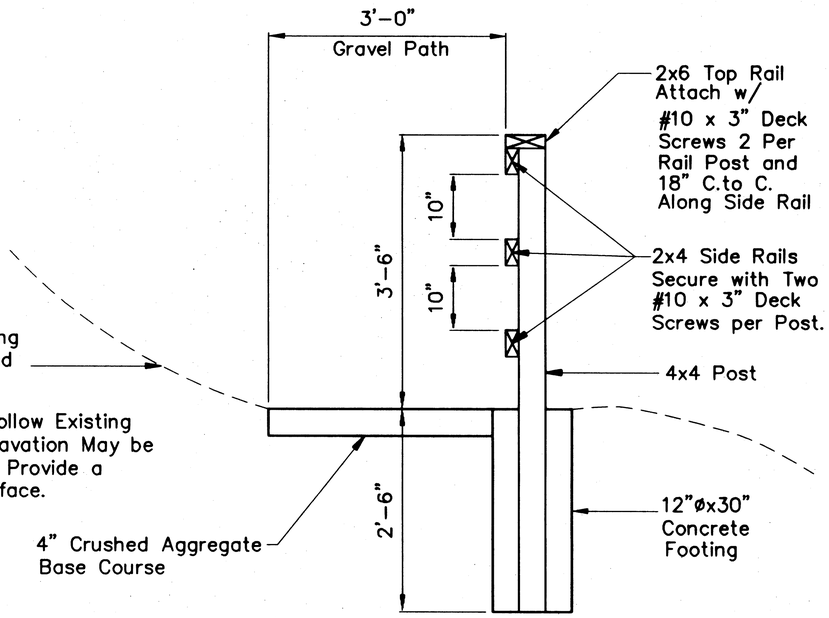


PROFILE

Install Log Steps where finish trail grade exceeds 30 percent on common material.



GRAVEL PATH



TIMBER RAILING

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: Q:\KTN\71811\DR_STEPRUN1		
PLOT: FULL=12 or HALF=24		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

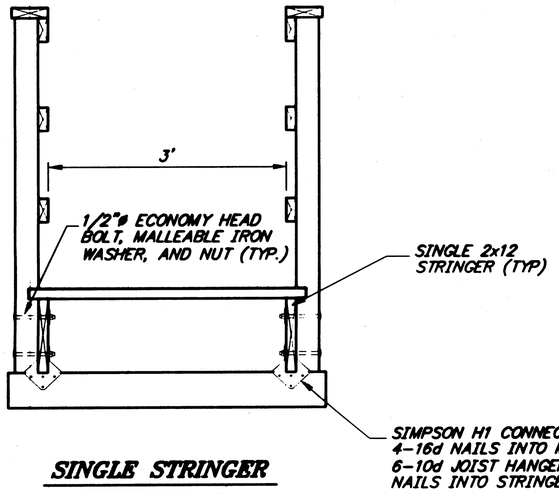
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

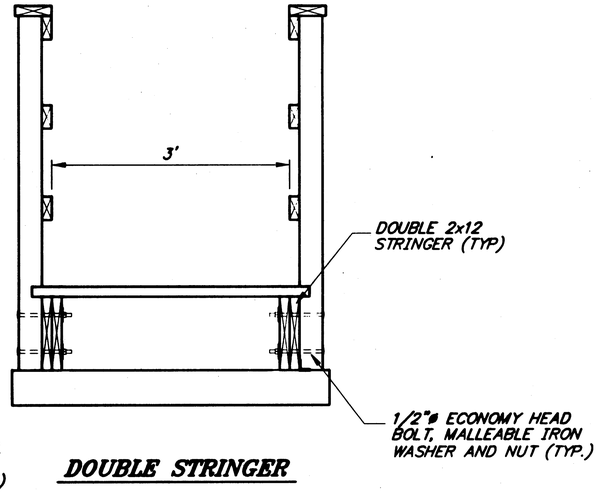
LOG STEPS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 73 OF 93

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



SINGLE STRINGER

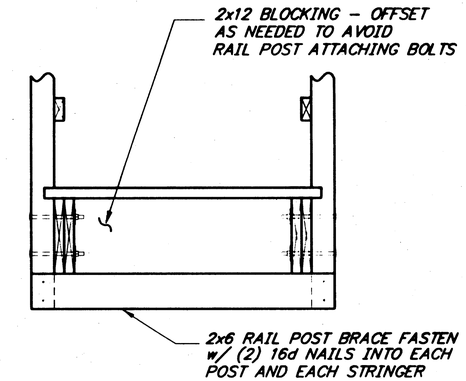


DOUBLE STRINGER

SPAN TABLE		
	SPAN	
	0' < ℓ ≤ 10'	10' < ℓ ≤ 16'
STRINGER LAYOUT	SINGLE 2"x12"	DOUBLE 2"x12"
BLOCKING	● MUDSILLS AND/OR PIER CAPS AND AT ALL RAIL POST ATTACHING POINTS	● MUDSILLS AND/OR PIER CAPS AND AT ALL RAIL POST ATTACHING POINTS

NOTES:

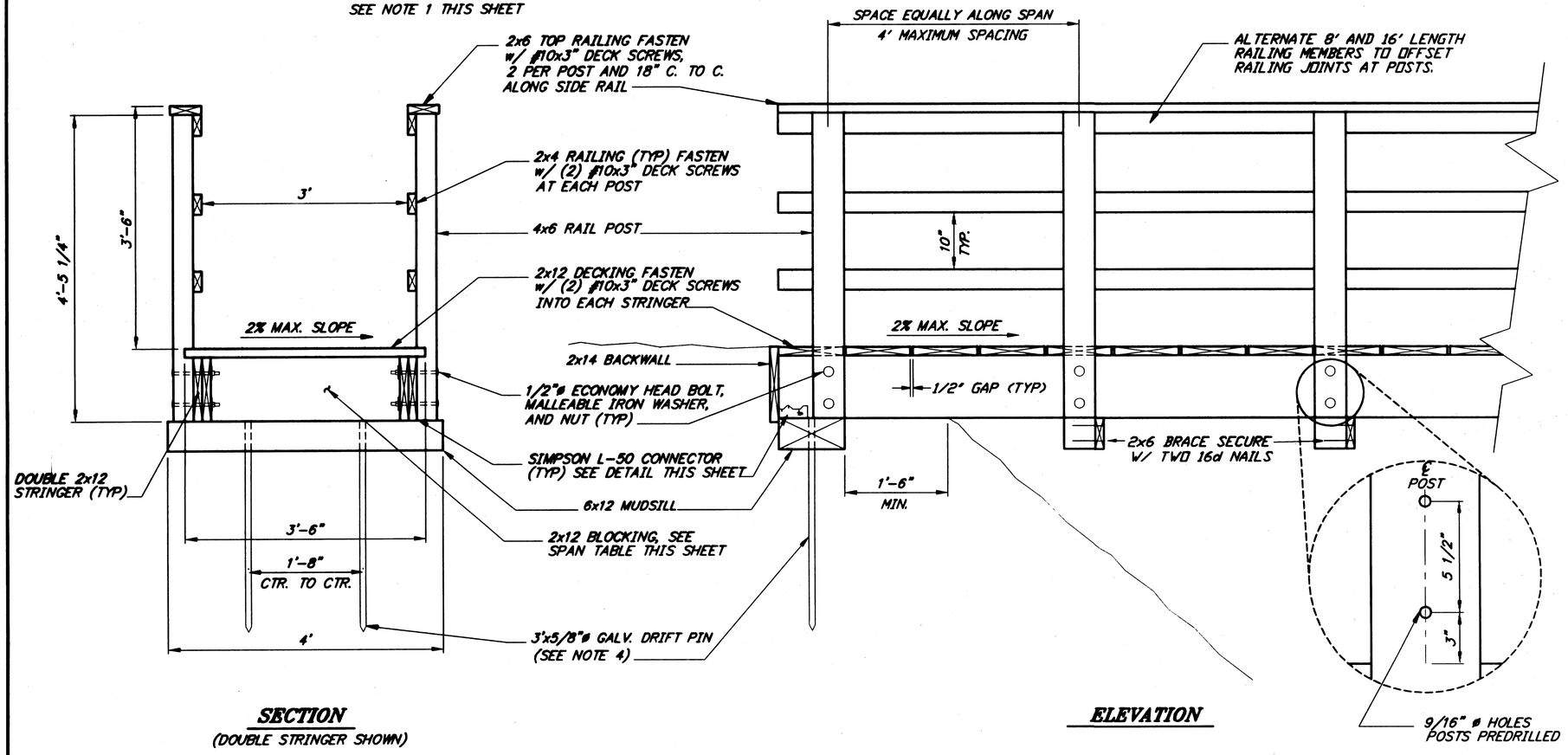
1. ALL DETAILS NOT SPECIFICALLY CALLED OUT IN THE ALTERNATIVE SECTIONS ARE THE SAME AS SHOWN IN THE TYPICAL BRIDGE CONSTRUCTION SECTION.
2. ALL STRINGERS ARE TO BE CONTINUOUS THROUGHOUT THE SPAN. MID-SPAN SPLICES ARE NOT TO BE USED.
3. SINGLE STRINGER BRIDGES USE L-50 CONNECTORS AT THE PIER CAPS AND H1 CONNECTORS AT THE MUDSILLS. ALL OTHER STRINGER CONFIGURATIONS USE L-50 CONNECTORS AT BOTH THE MUDSILLS AND PIER CAPS.
4. DRIFT PINS MAY BE CUT OFF IF DRIVEN TO REFUSAL PRIOR TO ACHIEVING FULL PENETRATION.



RAIL POST BRACE DETAIL

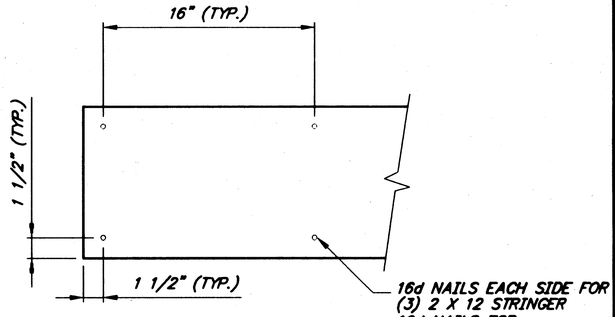
ALTERNATIVE SECTIONS

SEE NOTE 1 THIS SHEET

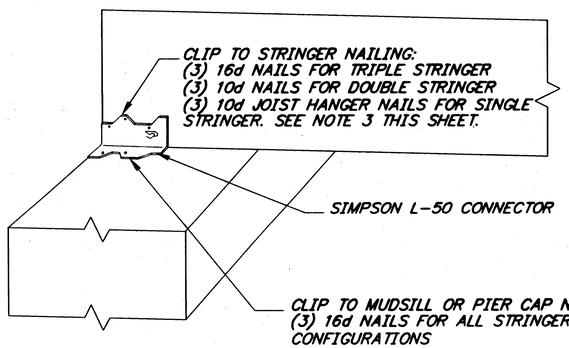


SECTION
(DOUBLE STRINGER SHOWN)

ELEVATION



BUILT UP STRINGER NAILING PATTERN



STRINGER TO MUDSILL OR PIERCAP CONNECTION DETAIL

TYPICAL BRIDGE CONSTRUCTION

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: Q:\KTN\71811\DR\-BRIDGE2
PLOT: FULL=12 or HALF=24

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

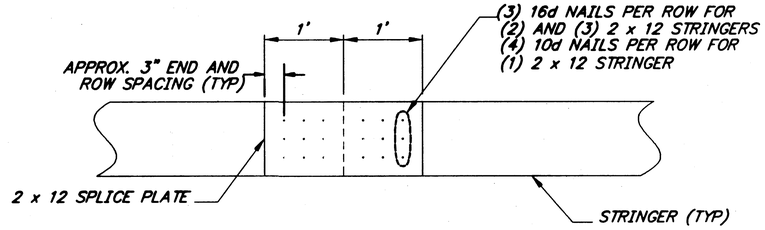
KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
TIMBER BRIDGE

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 74 OF 93

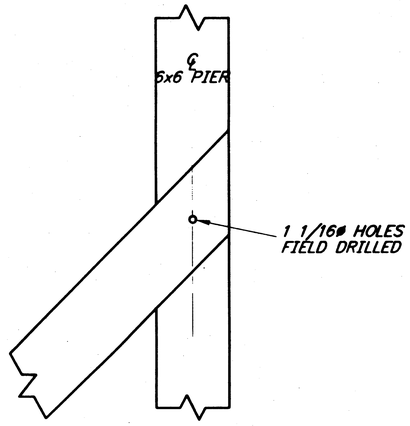
STATE OF ALASKA — 49th — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

NOTES:

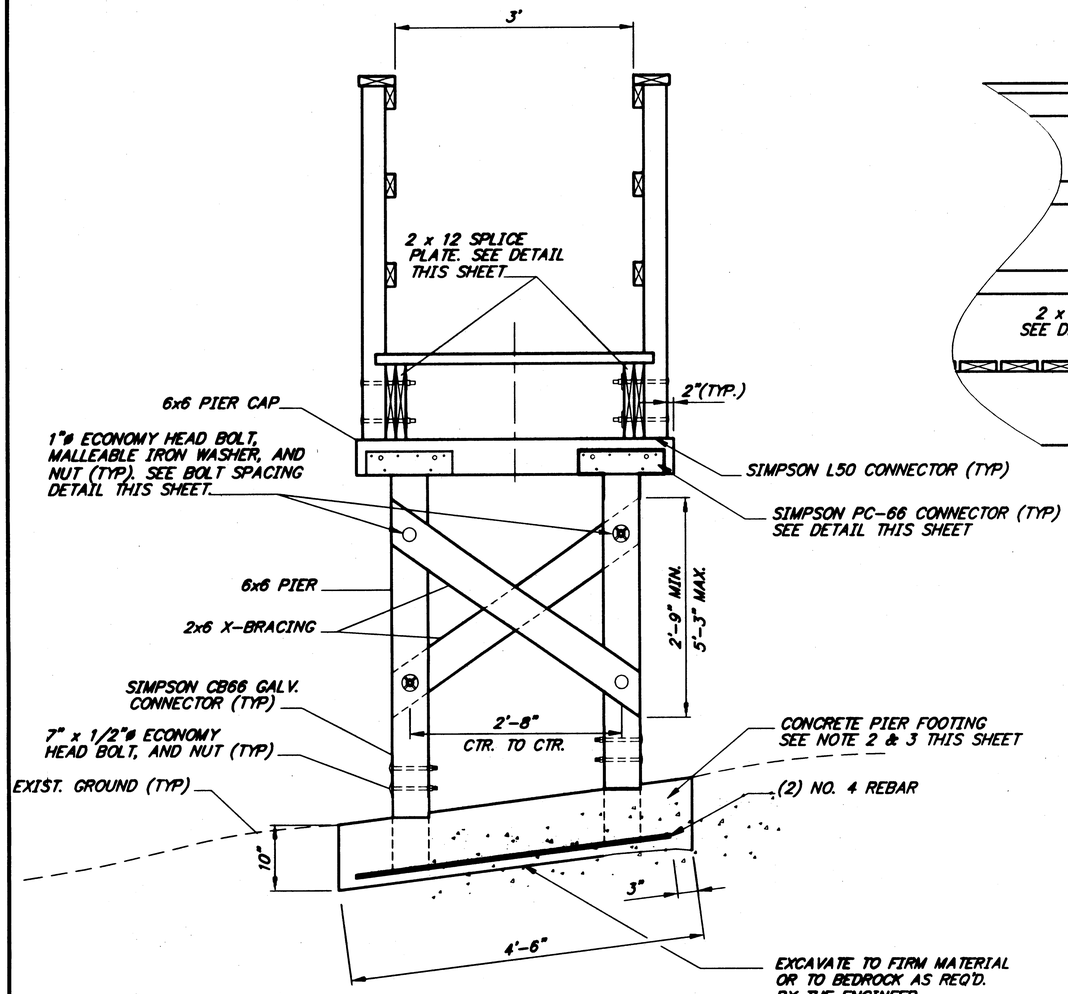
1. FOR PIERS OVER 8' TALL USE 2 PAIRS OF X-BRACING. ALLOW 2' OF VERTICAL SPACING BETWEEN BRACING PAIRS.
2. CONCRETE SHALL BE FIELD MIXED FROM DRY READY MIX CONCRETE. EACH PIER FOOTING WILL REQUIRE APPROXIMATELY (10) 60 LB. BAGS OF READY MIX CONCRETE.
3. CONCRETE SHALL NOT BE ALLOWED INTO THE STREAM DURING PLACEMENT. CONCRETE WORKING TOOLS SHALL NOT BE RINSED DIRECTLY IN STREAMS.



SPLICE PLATE DETAIL

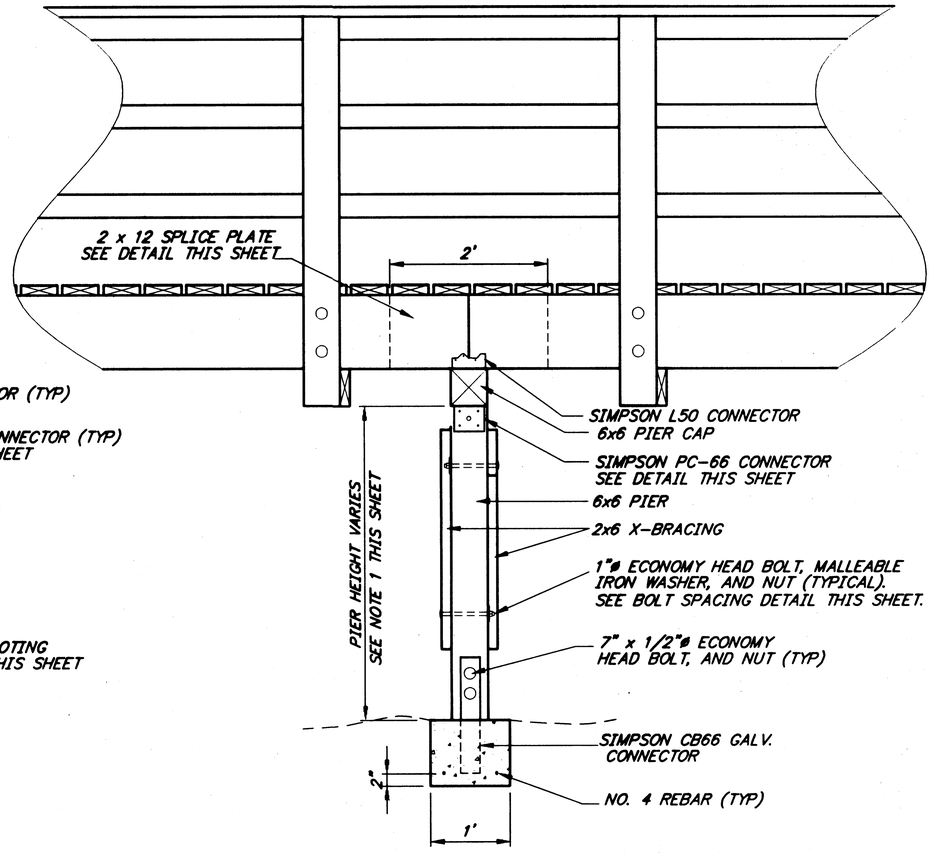


X-BRACING BOLT SPACING DETAIL



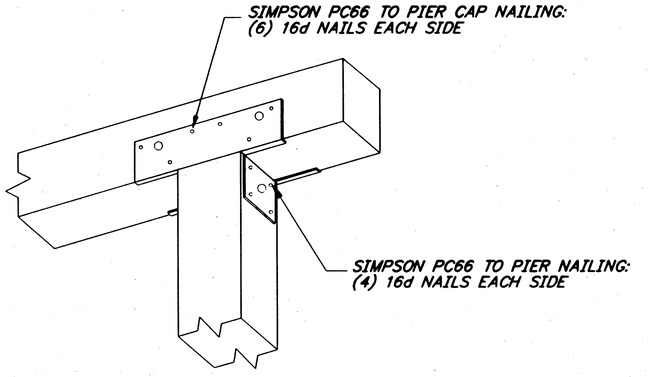
SECTION

(TRIPLE STRINGER SHOWN)



ELEVATION

TYPICAL PIER CONSTRUCTION



PIER CAP CONNECTION DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-BRIDGE1		
PLOT: FULL=12 or HALF=24		
BY:	DATE:	DESCRIPTION OF CHANGE:

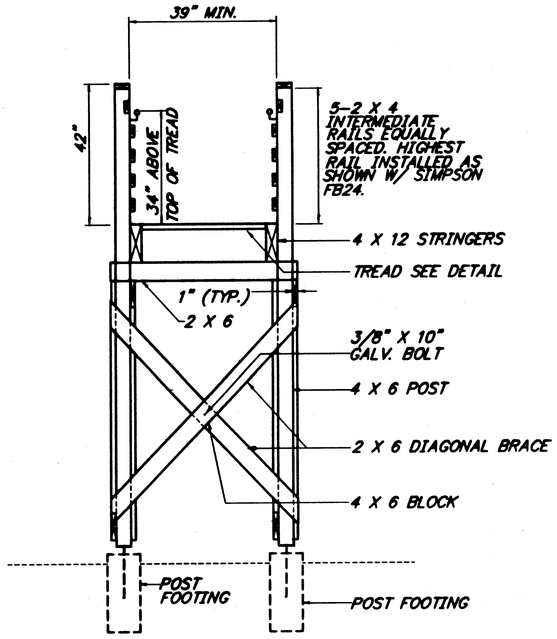
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

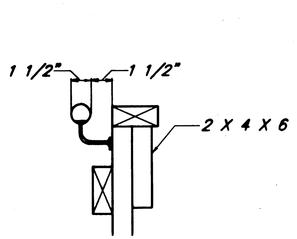
KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
PIER DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 75 OF 93

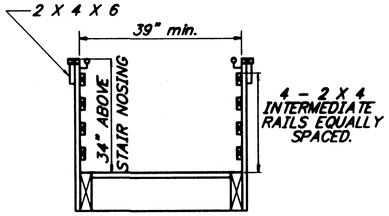
STATE OF ALASKA — DAVID M. SALDIVAR — CE 8507 — REGISTERED PROFESSIONAL ENGINEER



LANDING SECTION



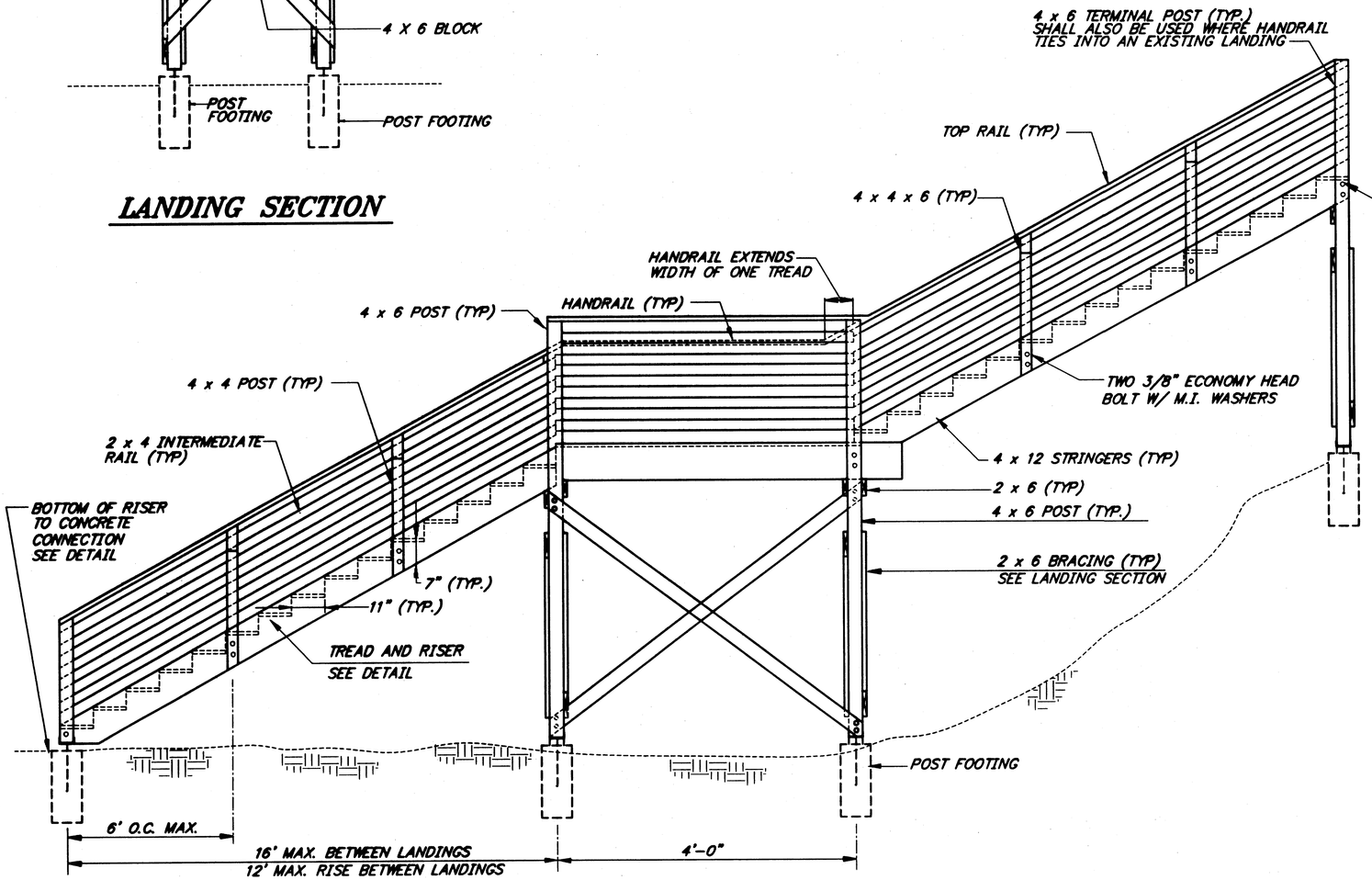
HANDRAIL DETAIL



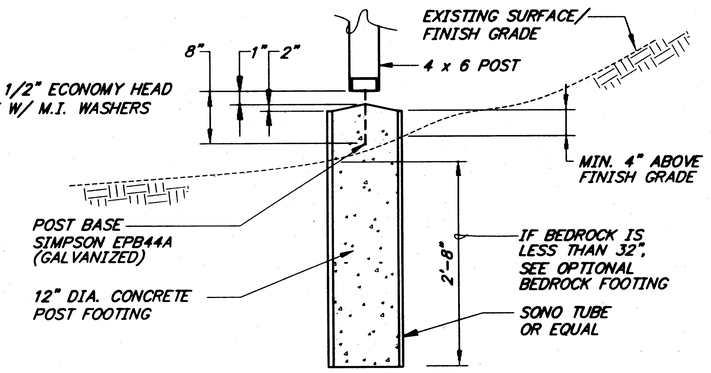
STAIRWAY SECTION

NOTES:

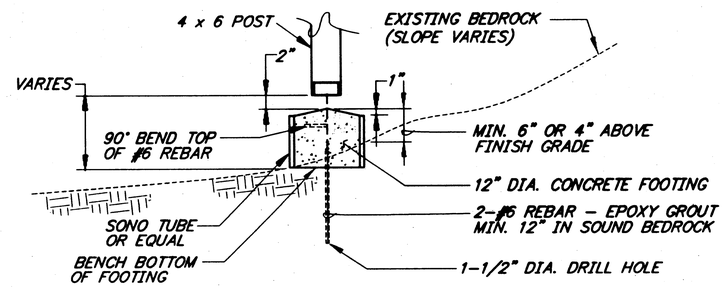
1. STAIRWAY AND LANDING TREAD SHALL BE STEEL GRATING 1" X 3/16" BEARING BARS AND 1/4" CROSS BARS, RYERSON 19W4, OR EQUAL.
2. POST BASES SHALL BE GALVANIZED, SIMPSON EPB 44A OR EQUAL
3. DIAGONAL BRACING TO INTERIOR SUPPORT 1/2" X 6" LAG SCREWS (2) EACH
   TREADS TO STRINGERS 3/8" X 3" LAG SCREWS (2) EACH SIDE
   4 X 6 POST TO STRINGER 1/2" X 8" BOLTS (2) EACH
   4 X 6 TO POST BASE Simpson Strong Tie, Co. EPB44A
   ALL OTHER CONNECTIONS SHALL BE MADE WITH GALVANIZED FASTENINGS IN ACCORDANCE WITH THE UNIFORM BUILDING CODE. WASHERS SHALL BE USED ON ALL BOLTS NOT BEARING ON METAL.
4. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A-153.
5. ALL WOOD SHALL BE PRESSURE TREATED CONFORMING TO SECTION 506.
6. FOOTINGS SHALL BE ON UNDISTURBED EARTH AND A MINIMUM OF 32" BELOW THE SURFACE, EXCEPT BEDROCK FOOTINGS.
7. STEEL TUBE RAILING SHALL BE HOT-DIP GALVANIZED AND CONFORM TO ASTM-A-53-GRADE B. ALL JOINTS SHALL BE MADE WITH CONCEALED BUTT JOINT CONNECTORS, OR WELDED AND REGALVANIZED IN CONFORMANCE WITH AASHTO M 36.
8. DIAGONAL CROSS BRACING NOT REQUIRED IF POST HEIGHTS IS LESS THAN 4-FEET. DIAGONAL CROSS BRACING IS REQUIRED IF POST HEIGHT IS BETWEEN 4 AND 8 FEET. TWO DIAGONAL CROSS BRACING REQUIRED IF POST HEIGHT IS OVER 8-FEET.



TYPICAL STAIRWAY PROFILE



STAIRWAY POST FOOTING



OPTIONAL BEDROCK FOOTING

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-STAIR1		
PLOT: FULL=2 or HALF=4		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

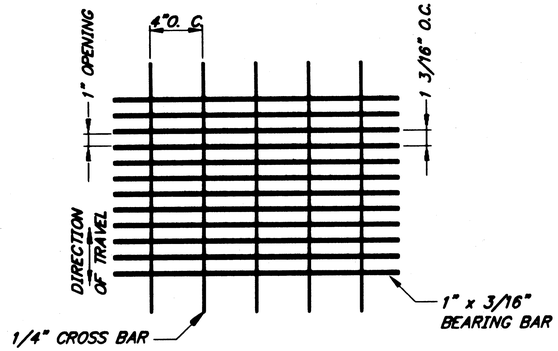
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

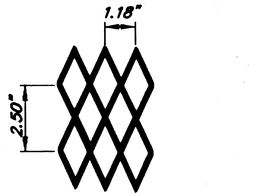
STAIRWAY DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 76 OF 93

STATE OF ALASKA — 49th — David D Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

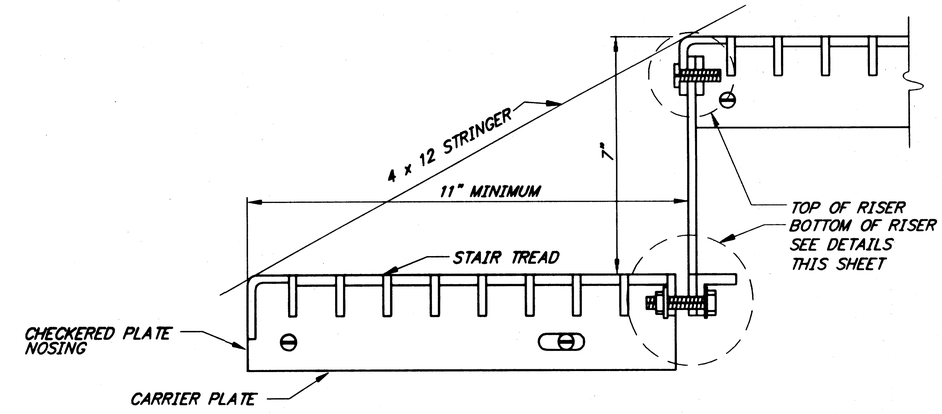


STAIR TREAD

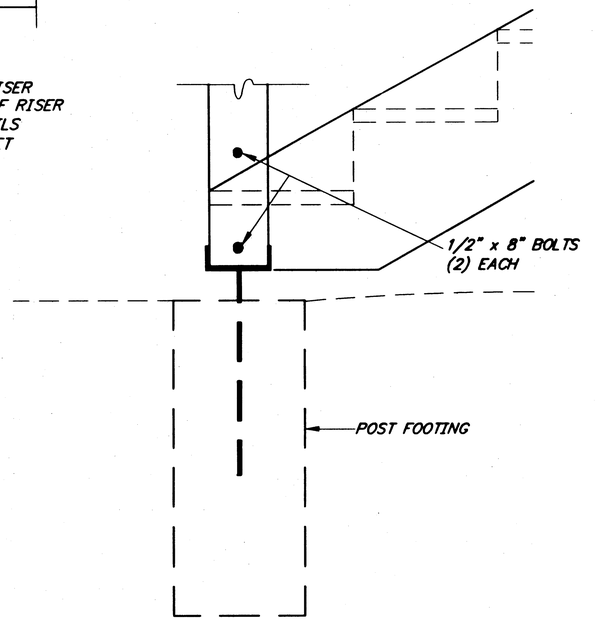


McNICHOLS 1-1/2 #10 S OR EQUAL

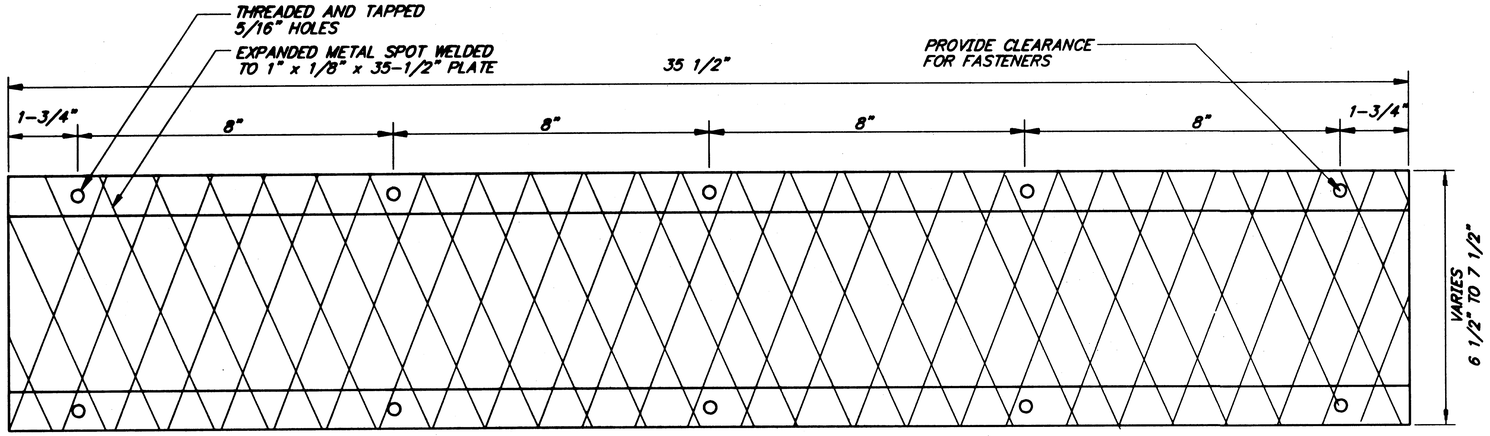
EXPANDED METAL RISER



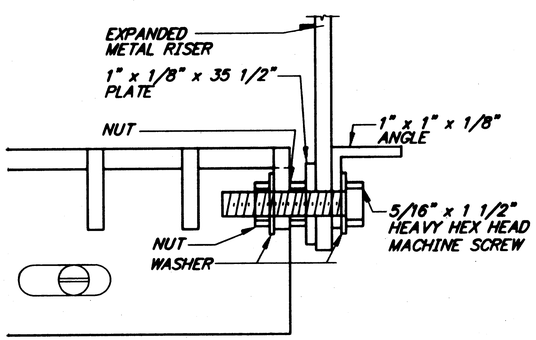
TREAD AND RISER PROFILE



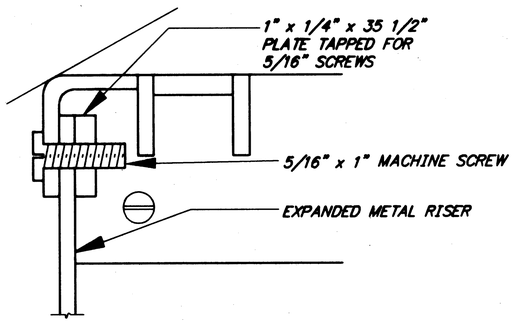
BOTTOM OF STAIRWAY PROFILE



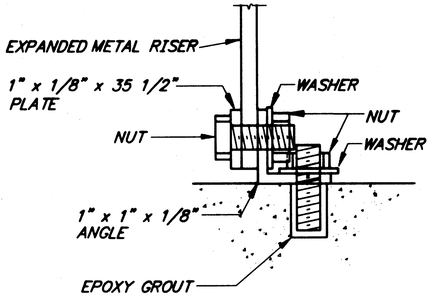
ADJUSTABLE HEIGHT RISER



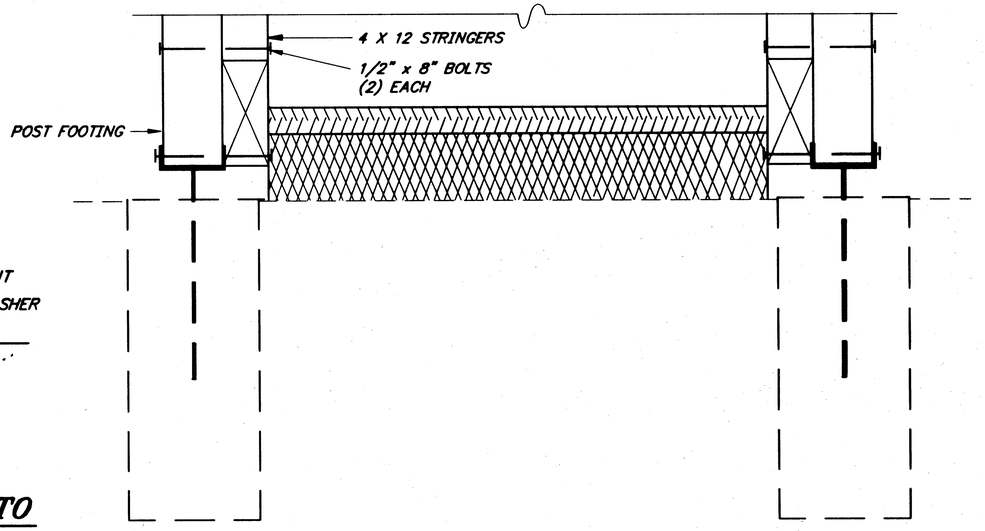
TYPICAL BOTTOM OF RISER



TYPICAL TOP OF RISER



BOTTOM RISER TO CONCRETE CONNECTION



BOTTOM OF STAIRWAY SECTION

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-STAIR2		
PLOT: FULL=2 or HALF=4		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

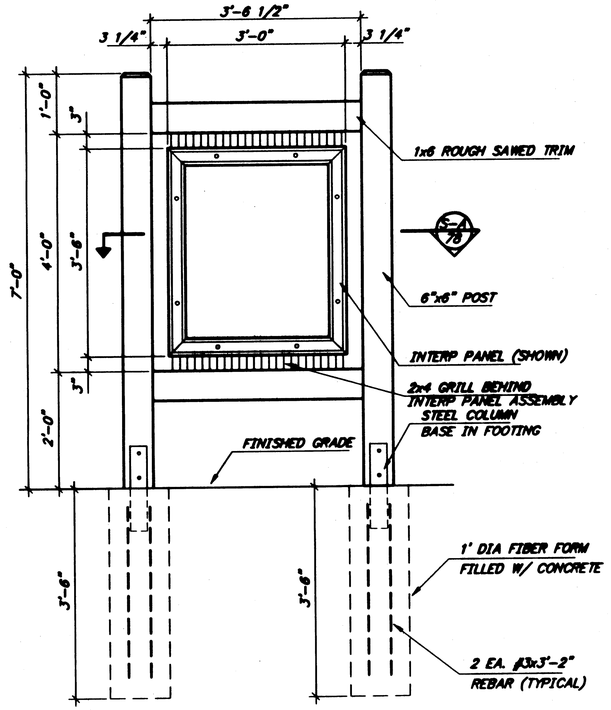
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811

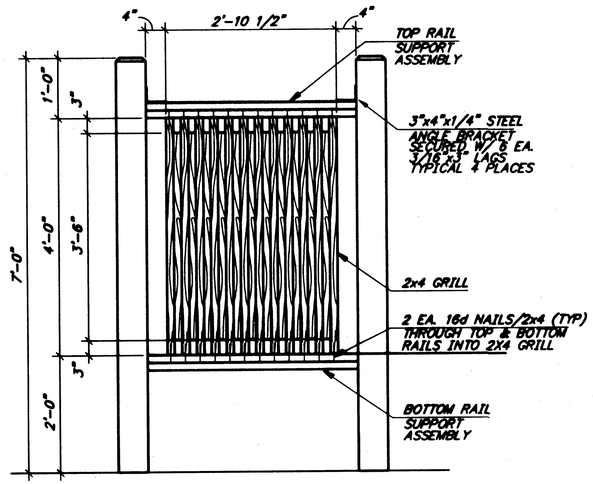
STAIRWAY DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 77 OF 93

STATE OF ALASKA — David B. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER

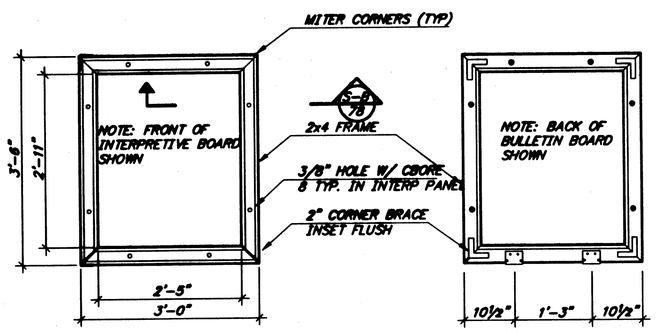


FULL DETAIL

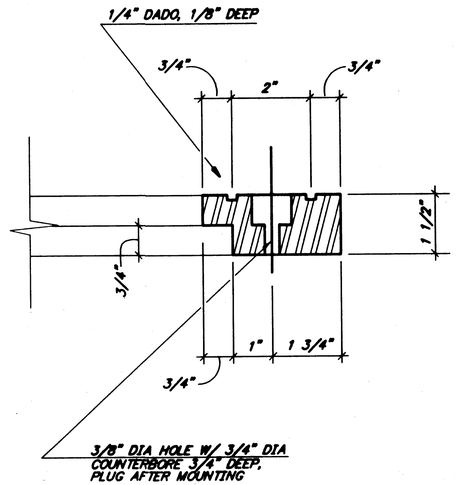


SIGN PANEL & TRIM NOT SHOWN

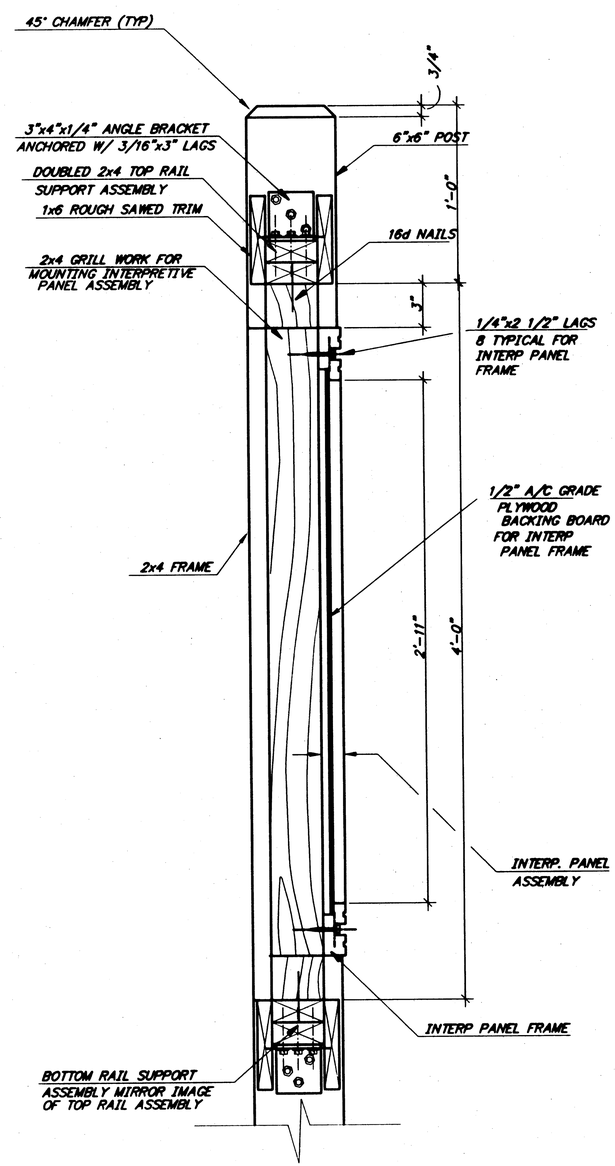
SIGN SUPPORT AND FOUNDATION DETAIL (3 REQUIRED) (1)



INTERPRETIVE PANEL FRAME DETAIL (A)



SECTION (B)



SECTION (A)

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: Q:\KTN\71811\DR\–Kiosk		
PLOT: FULL=1 or HALF=2		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP–MG–0904(1) ~ PROJECT No. 71811

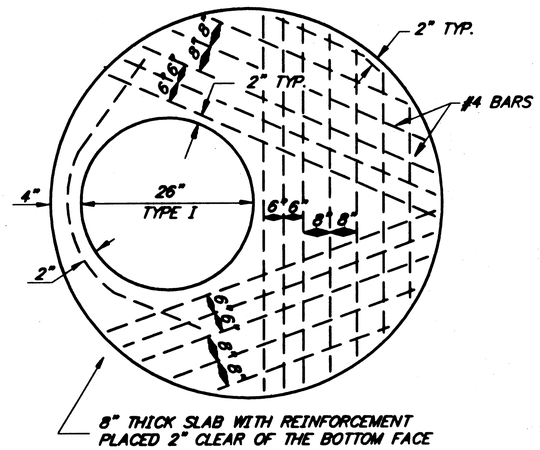
KIOSK DETAIL

DESIGNED BY: D. Saldivar	71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 78 OF 93

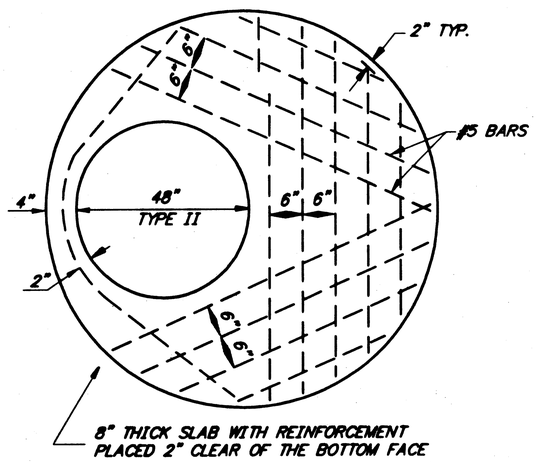
STATE OF ALASKA — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

MANHOLE NOTES

1. REFER TO A.S.T.M. DESIGNATION C-478 FOR DESIGN REQUIREMENTS.
2. MINIMUM STEEL REQUIRED FOR BARREL AS PER A.S.T.M. C-478-69 SHALL BE EMBEDDED IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE
3. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAXIMUM FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF CONE.
4. ALL PIPES TO EXTEND 2" INTO MANHOLE.
5. BLOCKOUTS TO BE FORMED.
6. STORM DRAIN MANHOLE SHALL BE 48" INSIDE DIAMETER FOR TYPE I AND 84" FOR TYPE II.
7. SPECIAL BEDDING RIPRAP, CLASS I (NO ROUND ROCK) REQUIRED FOR ALL MANHOLES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SPECIAL BEDDING IS NOT REQUIRED, USE 24" MINIMUM DEPTH OF 1" MINUS WASHED ROCK. EXISTING SOILS OR OTHER GRANULAR MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER AND COMPACTED TO 95% OF MAXIMUM DENSITY.



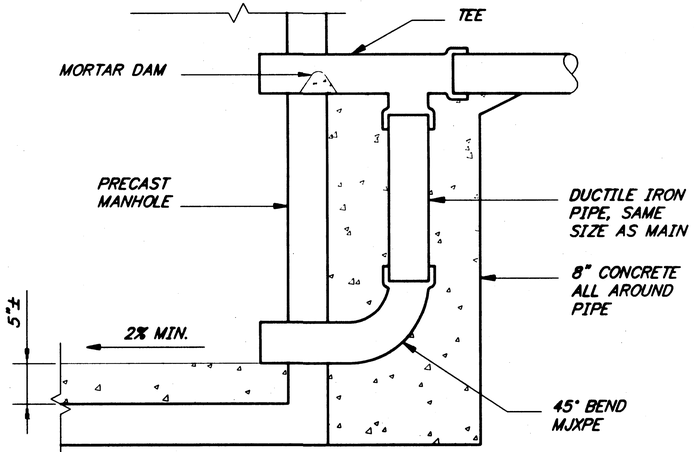
TYPE I MANHOLES



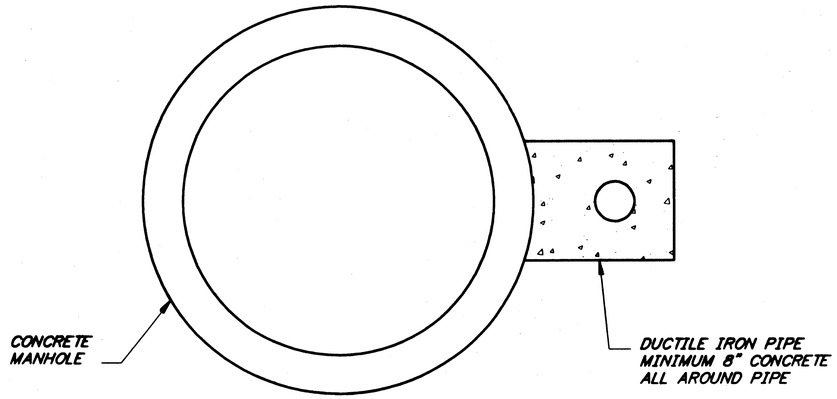
TYPE II MANHOLES

PRECAST CONCRETE REDUCING SLAB (1)

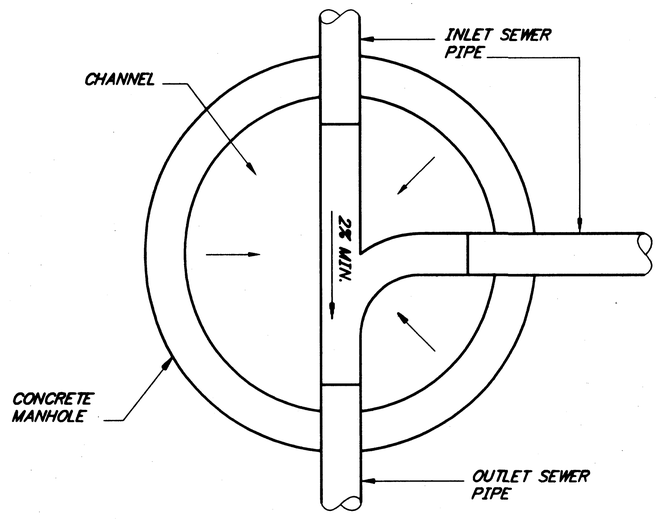
N.T.S.



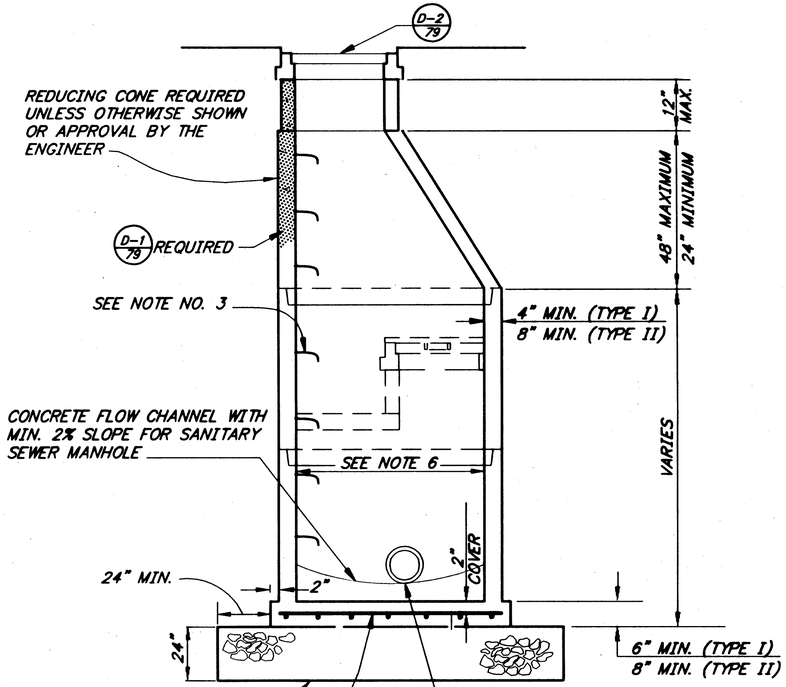
SECTION-MANHOLE DROP



PLAN-MANHOLE DROP



PLAN-BASE FLOW CHANNELS

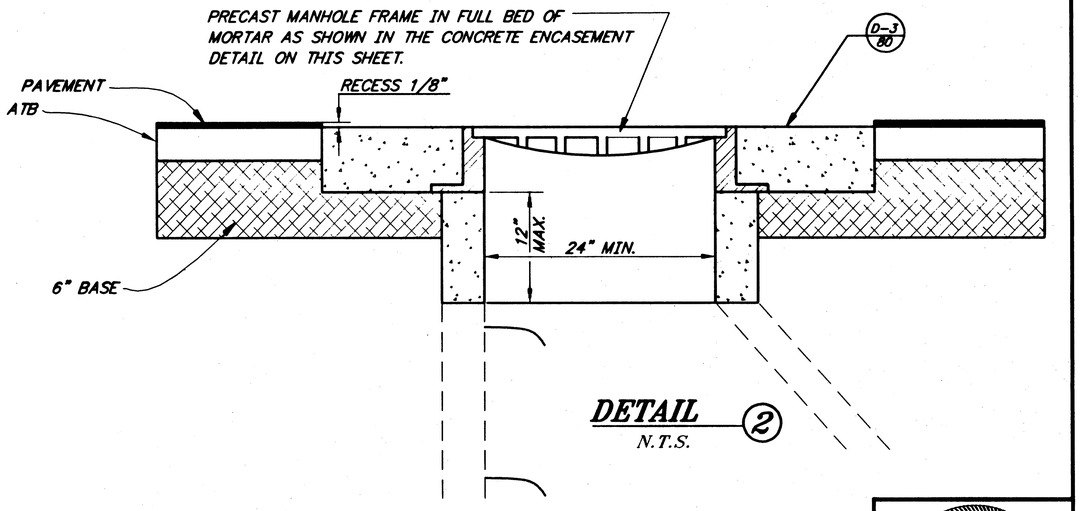


TYPE I: #4 REBAR @ 12" O.C. BOTH WAYS.

TYPE II: #5 REBAR @ 6" O.C. BOTH WAYS

CONCRETE MANHOLE DETAIL (4)

N.T.S.



DETAIL (2)

N.T.S.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-Drain
PLOT: FULL=1 or HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

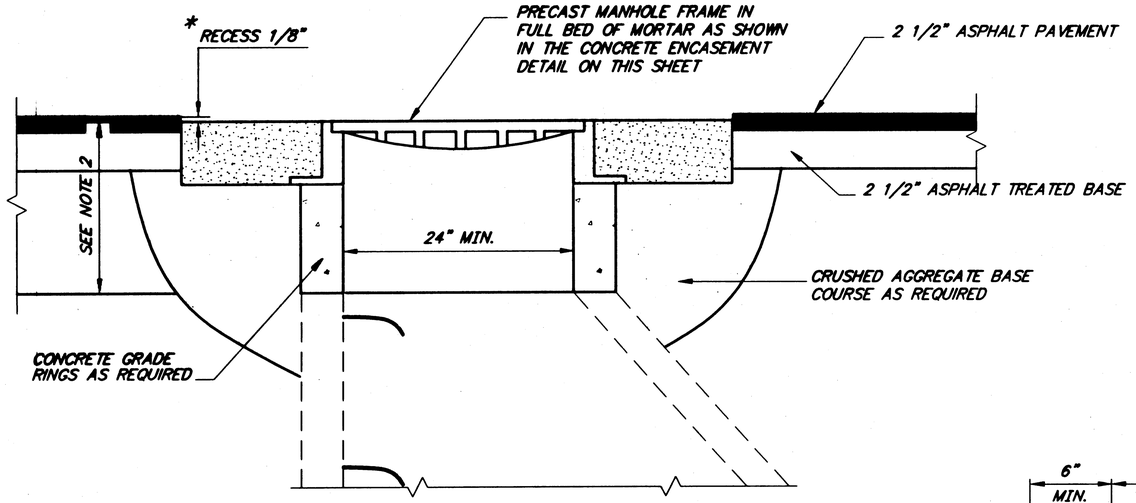
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

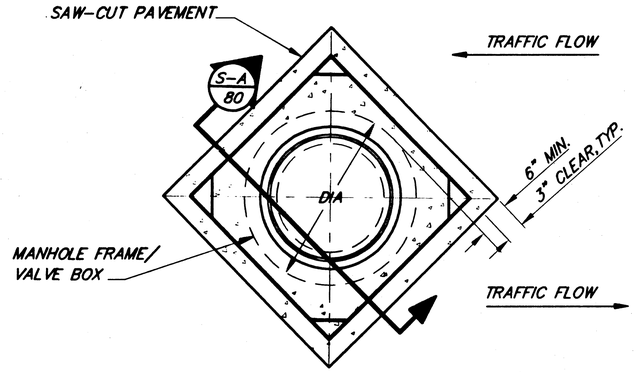
MANHOLE DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 79 OF 93

STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



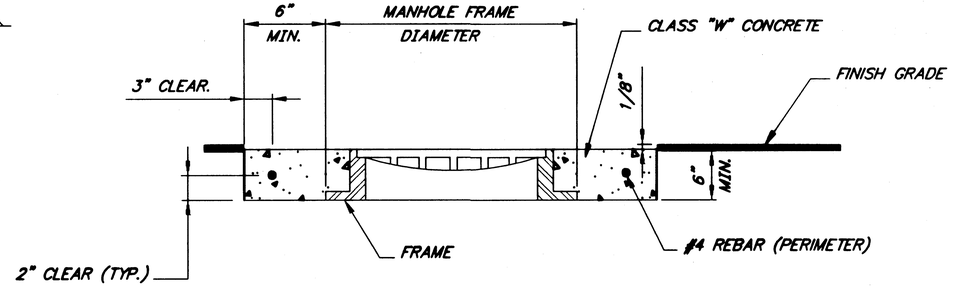
ADJUST STORM/SEWER MANHOLE (1)

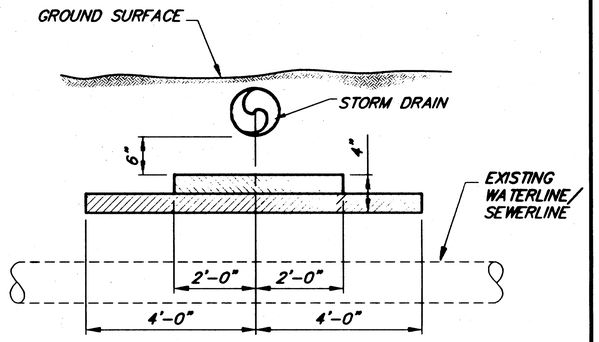


CONCRETE ENCASEMENT DETAIL (3)

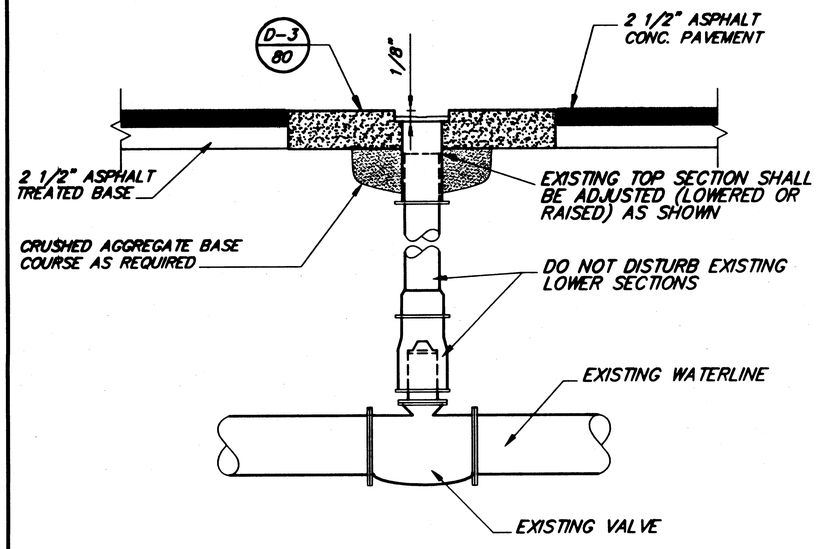
MANHOLE ADJUSTMENT NOTES:

1. MANHOLE ADJUSTMENT SHALL BE MADE WITH GRADE RINGS NOT EXCEEDING 12" TOTAL HEIGHT BETWEEN BOTTOM OF MANHOLE FRAME AND TOP OF MANHOLE CONE.
2. NEW STEP(S) AS DETAILED IN STD. DRAWINGS D-20.02 SHALL BE INSTALLED ON THE EXISTING MANHOLE IF THE FIRST STEP EXCEED 36" FROM THE TOP OF MANHOLE FRAME, FOR MANHOLE RECONSTRUCTION/ADJUSTMENT.
3. ANY RECONSTRUCTED OR ADJUSTED MANHOLES MUST CONFORM TO STANDARD DIMENSIONS.
4. CONCRETE ENCASEMENT IS NOT REQUIRED IF MANHOLE, INLETS OR VALVE BOX IS LOCATED IN THE SIDEWALK.

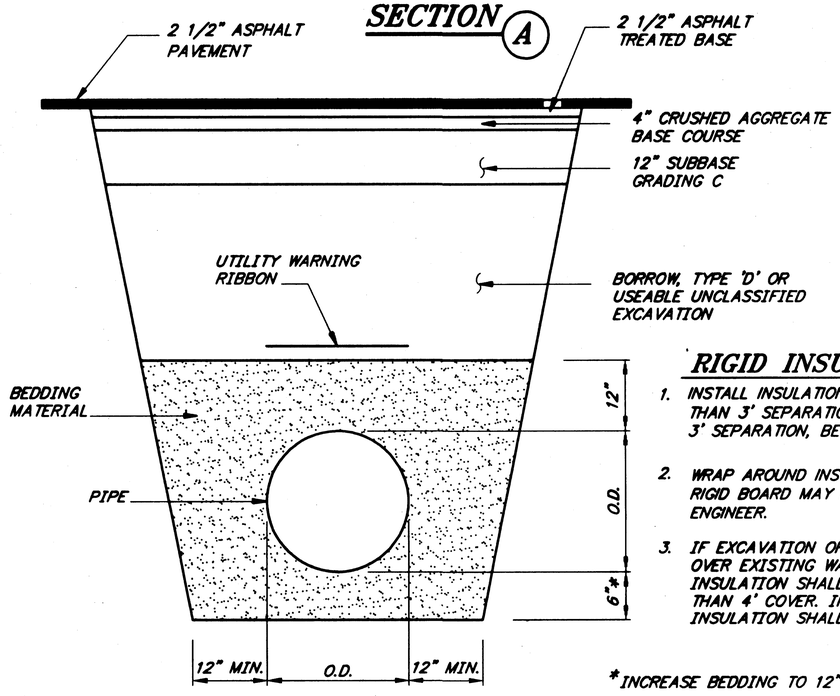




SECTION (N.T.S.)



VALVE BOX ADJUSTMENT DETAIL (2)



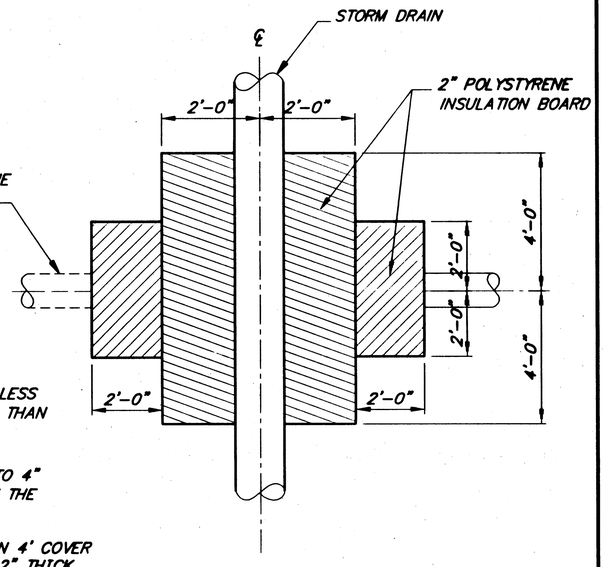
TRENCH DETAIL

(CULVERTS, STORM DRAIN, & UTILITIES)

RIGID INSULATION NOTES:

1. INSTALL INSULATION AS SHOWN, FOR SEWER LINE IF LESS THAN 3' SEPARATION, AND FOR WATER LINE IF LESS THAN 3' SEPARATION, BETWEEN STORM DRAIN AND LINE.
2. WRAP AROUND INSULATION WITH R-FACTOR EQUAL TO 4" RIGID BOARD MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
3. IF EXCAVATION OR DITCHING RESULT IN LESS THAN 4' COVER OVER EXISTING WATER OR SEWER LINE, 4' WIDE x 2" THICK INSULATION SHALL BE INSTALLED OVER THE AREA WITH LESS THAN 4' COVER. IF COVER IS LESS THAN 2'-6", 4" THICK INSULATION SHALL BE INSTALLED.

*INCREASE BEDDING TO 12" UNDER THE 120" PIPE.



PLAN
N.T.S.

RIGID INSULATION

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	Q:\KTN\71811\DR\-Det1	
PLOT:	FULL=1 or HALF=2	
BY:	DATE:	DESCRIPTION OF CHANGE:

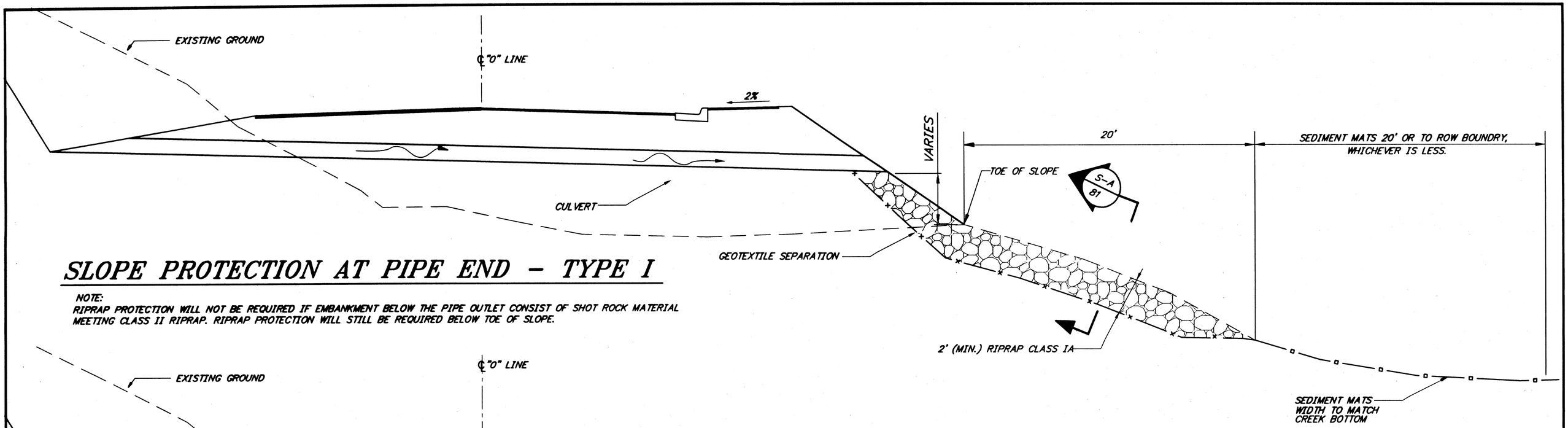
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811
MANHOLE & VALVE BOX ADJUSTMENT

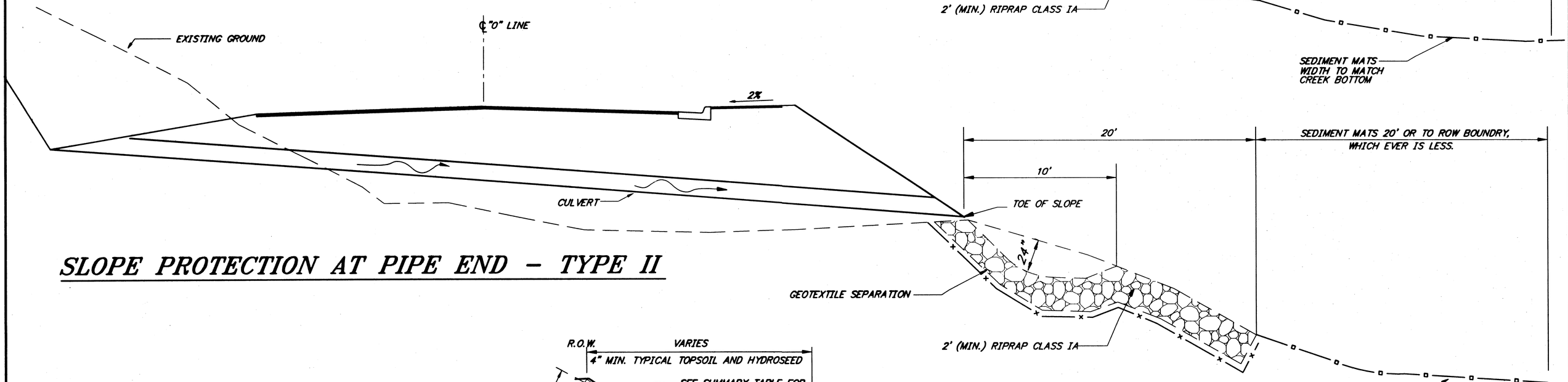
DESIGNED BY: D. Saldivar	71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 80 OF 93

STATE OF ALASKA — 49th — David D Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

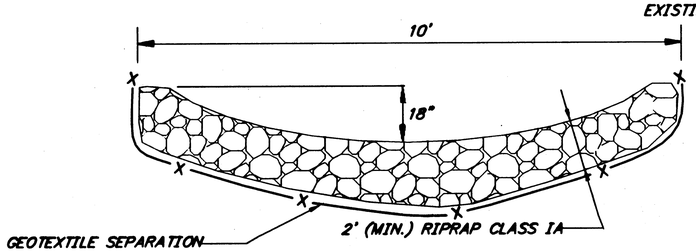


SLOPE PROTECTION AT PIPE END - TYPE I

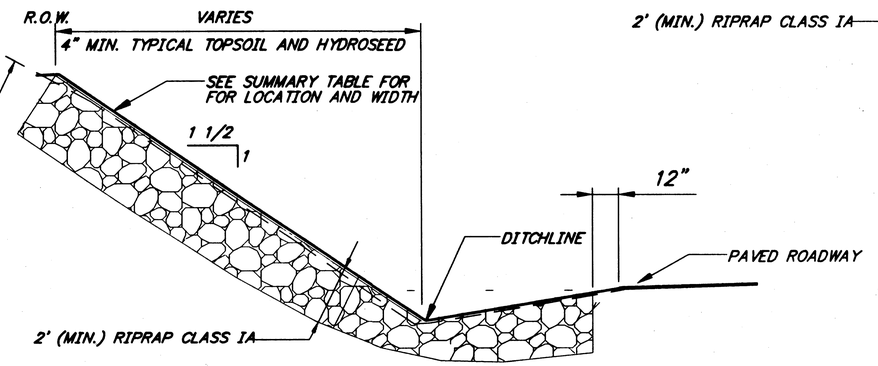
NOTE:
RIPRAP PROTECTION WILL NOT BE REQUIRED IF EMBANKMENT BELOW THE PIPE OUTLET CONSIST OF SHOT ROCK MATERIAL MEETING CLASS II RIPRAP. RIPRAP PROTECTION WILL STILL BE REQUIRED BELOW TOE OF SLOPE.



SLOPE PROTECTION AT PIPE END - TYPE II



SECTION A



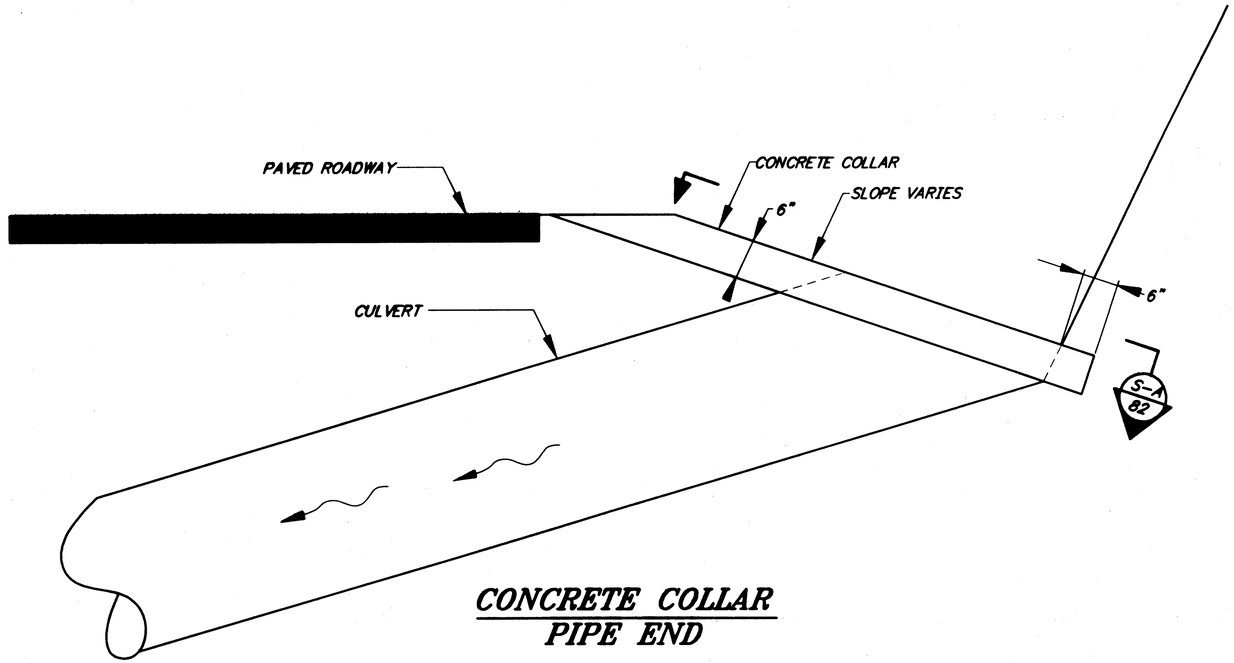
SLOPE STABILIZATION

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

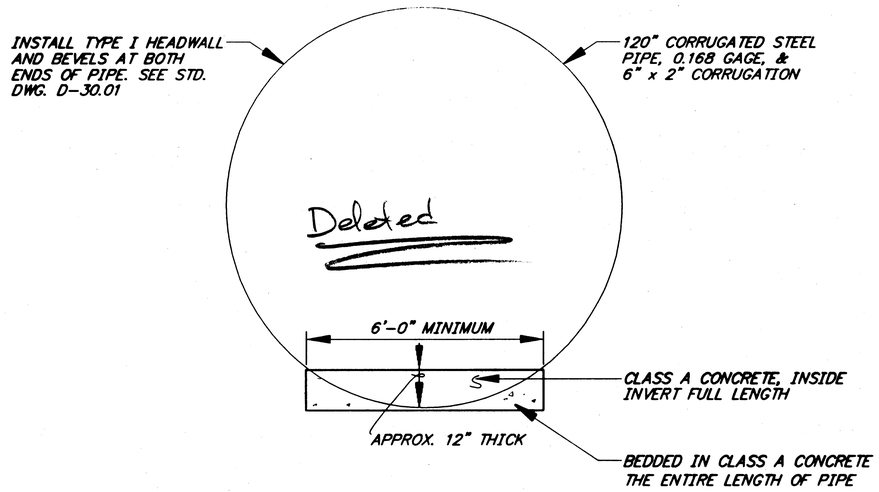
PATH: [PlotStamp Eval] G:\Ktn\71811\Dr\-culv1.dwg Wed, 22/Dec/99 11:38am	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA STP-MG-0904(1) ~ PROJECT No. 71811 SLOPE PROTECTION DETAIL
PLOT: FULL=3 or HALF=6		
BY: / DATE: / DESCRIPTION OF CHANGE:		
RECORD OF REVISIONS		

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 81 OF 93

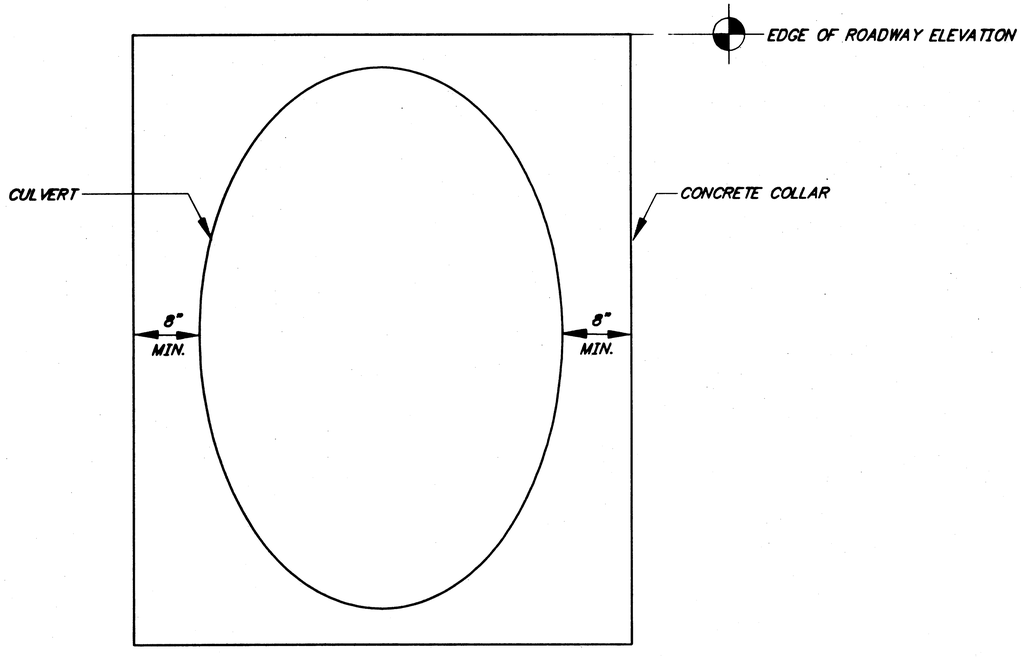
STATE OF ALASKA — David D Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER



CONCRETE COLLAR
PIPE END



120-INCH PIPE CULVERT



SECTION A

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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PLOT: FULL=2 or HALF=4		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

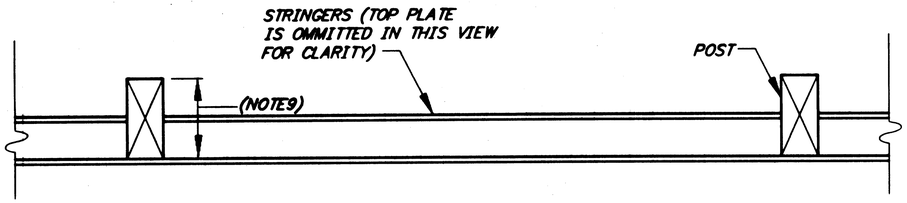
KETCHIKAN ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

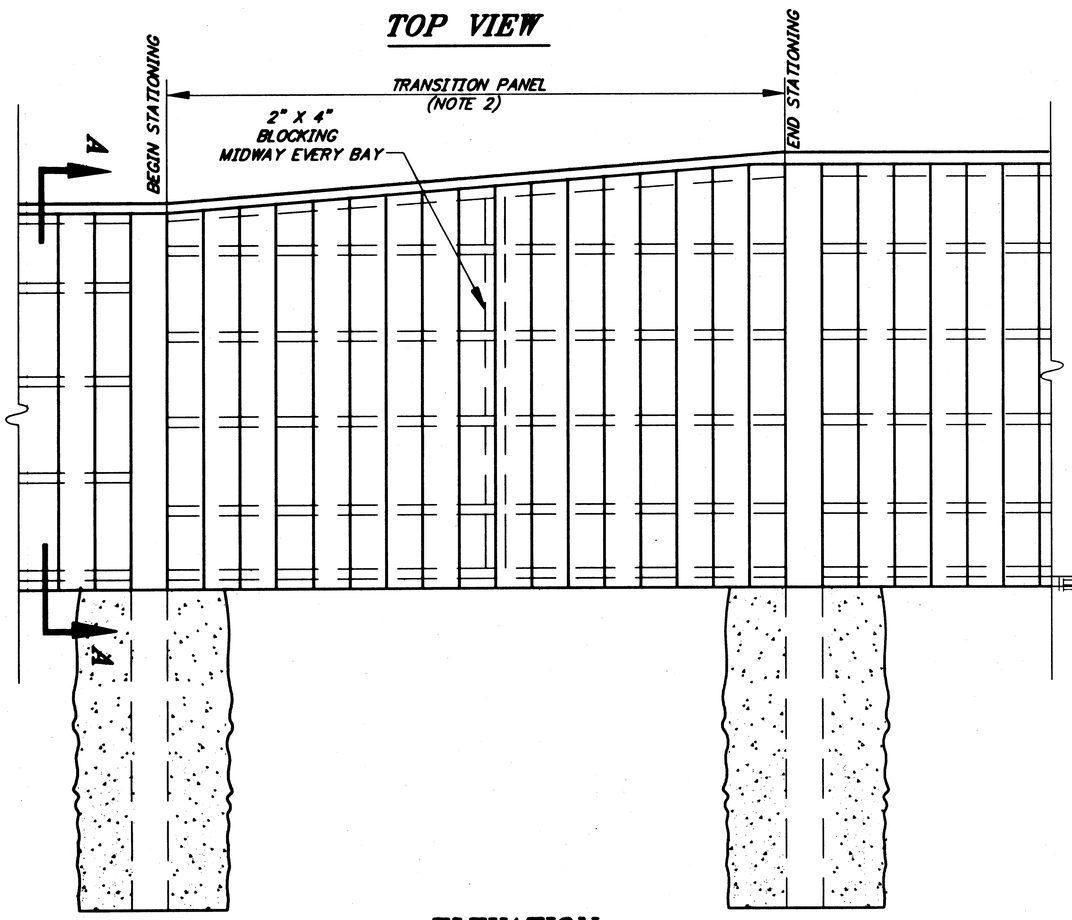
DRAINAGE DETAILS

DESIGNED BY:	PROJECT NO.
D. Saldivar	71811
DRAWN BY:	DATE:
B. Bennett	July, 1999
CHECKED BY:	SHEET 82 OF 93
D. Saldivar	

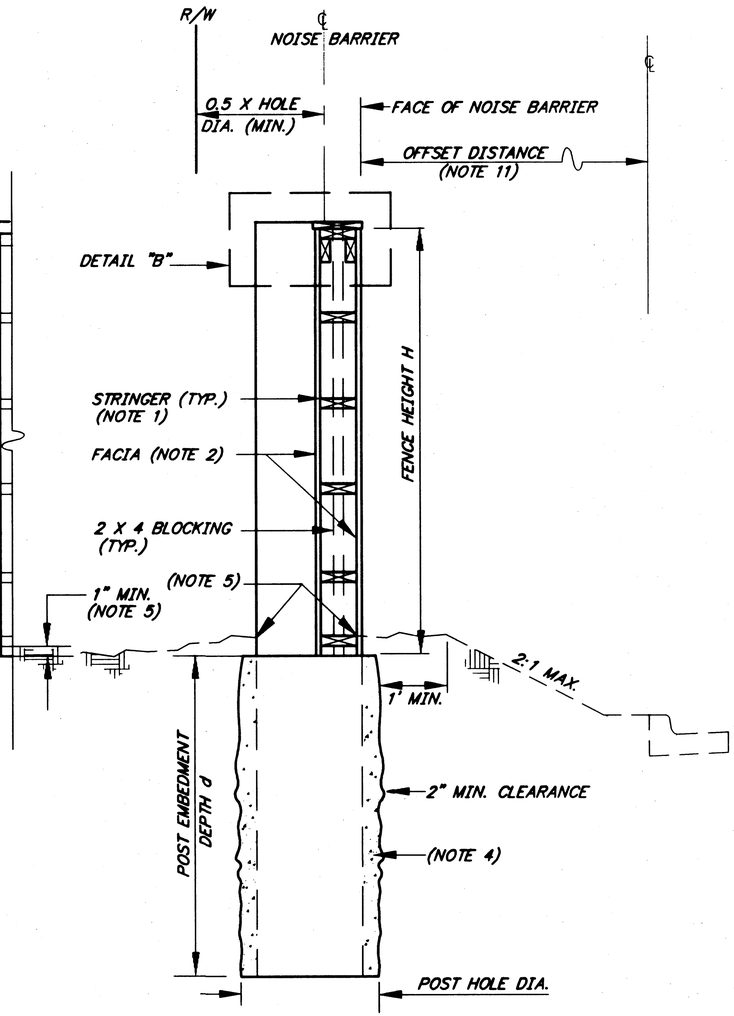
STATE OF ALASKA
19th
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



TOP VIEW



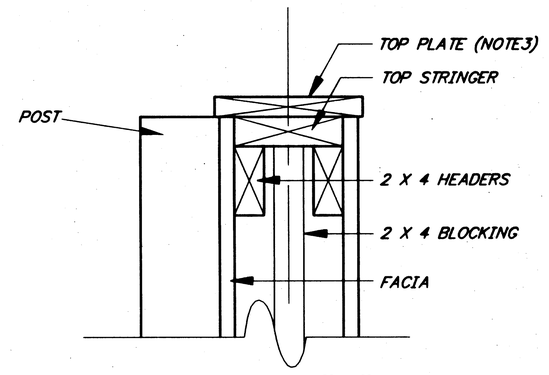
ELEVATION



SECTION A-A END VIEW

NOISE BARRIER FENCE NOTES

1. ATTACH STRINGERS TO POST USING 18 GAGE FRAMING ANCHORS AT EACH END AND 10d NAILS. STRINGERS SHALL BE EVENLY SPACED AND CENTERED ON POST.
2. VERTICAL FACIA BOARDS SHALL BE 1-INCH X 6-INCH (NOMINAL) CEDAR WITH SHIPLAPPED EDGES. FASTEN TO EACH STRINGER USING 2-10d NAILS.
3. TOP PLATES SHALL BE 1-INCH (NOMINAL) CEDAR. WIDTH SHALL BE 2-INCHES GREATER THAN STRINGER. FASTEN USING 2-10d NAILS AT 24-INCH O.C.
4. CLASS W CONCRETE USED FOR FILLING POST HOLES SHALL BE INCLUDED IN THE PRICE PAID FOR THE FENCE.
5. GRADE THE GROUND AT THE BASE OF THE WALL PANELS SUCH THAT ALL FACIA BOARDS ARE BURIED A MINIMUM OF 1-INCH.
6. LOCATE UTILITIES PRIOR TO POST EXCAVATION.
7. STAKE RIGHT OF WAY AND FENCE LINES FOR INSPECTION BY THE ENGINEER PRIOR TO BEGINNING FENCE CONSTRUCTION.
8. GRADING OF LUMBER AS STATED IN TIMBER CONSTRUCTION MANUAL, 2ND EDITION AMERICAN INSTITUTE OF TIMBER CONSTRUCTION FOR DOUGLAS FIR-LARCH. POSTS SHALL BE GRADED DENSE NO. 1. STRINGERS SHALL BE GRADED NO. 2.
9. INSTALL POSTS WITH LARGE DIMENSION PERPENDICULAR TO FACE OF WALL.
10. INSTALL POSTS AT ALL ANGLE POINTS.
11. REFER TO NOISE BARRIER FENCE SUMMARY TABLE FOR STATION, OFFSET HEIGHT, AND APPLICABLE DESIGN LOADING (B1 OR B2) DATA.
12. TRANSITION PANEL STRINGERS AND POST REQUIREMENTS SHALL BE THOSE OF THE HIGHER FENCE.
13. ALL POSTS AND STRINGERS SHALL BE TREATED IN ACCORDANCE WITH SECTION 714, PRESERVATIVES AND PRESERVATIVE TREATMENT PROCESSES FOR WOOD MATERIALS.
14. FOR 12-FOOT POST SPACING, INSTALL 2-INCH X 4-INCH HEADER BOARDS TO TOP AS SHOWN IN DETAIL "B. USE 16d 12-INCH O.C. CONNECT ENDS OF 2 X 4 HEADER BOARDS TO POST USING 18 GAGE FRAMING ANCHORS AND 10d NAILS.
15. ALL NAILS AND ANCHOR PLATES SHALL BE GALVANIZED



DETAIL"B"

(NOTE 14)

NA

NOISE BARRIER FENCE SCHEDULE (B1 DESIGN LOADING NOTE 11)

POST (NOTE 8)					STRINGER (NOTE 8)	
FENCE HEIGHT (FT)	SIZE (IN X IN)	SPACING (FT)	EMBEDMENT DEPTH d (FT)	HOLE DIAMETER (IN)	NO. REQ'D	SIZE (IN X IN)
6	4 X 6	8	8	14	4	2 X 4
8	4 X 8	8	8	14	4	2 X 4
10	4 X 12	12	8	24	5	2 X 6
12	4 X 14	12	10	20	6	2 X 6
14	6 X 14	12	10	22	7	2 X 6

NOISE BARRIER FENCE SCHEDULE (B2 DESIGN LOADING NOTE 11)

POST (NOTE 8)					STRINGER (NOTE 8)	
FENCE HEIGHT (FT)	SIZE (IN X IN)	SPACING (FT)	EMBEDMENT DEPTH d (FT)	HOLE DIAMETER (IN)	NO. REQ'D	SIZE (IN X IN)
6	4 X 8	8	8	16	4	2 X 4
8	4 X 12	12	10	20	5	2 X 6
10	6 X 12	12	10	22	6	2 X 6
12	6 X 14	12	10	26	7	2 X 6
14	6 X 16	12	10	30	8	2 X 6

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: [PlotStamp Eval] Q:\Ktn\71811\Dr\-noise.dwg Wed, 22/Dec/99 11:38am
PLOT: FULL=1 or HALF=2

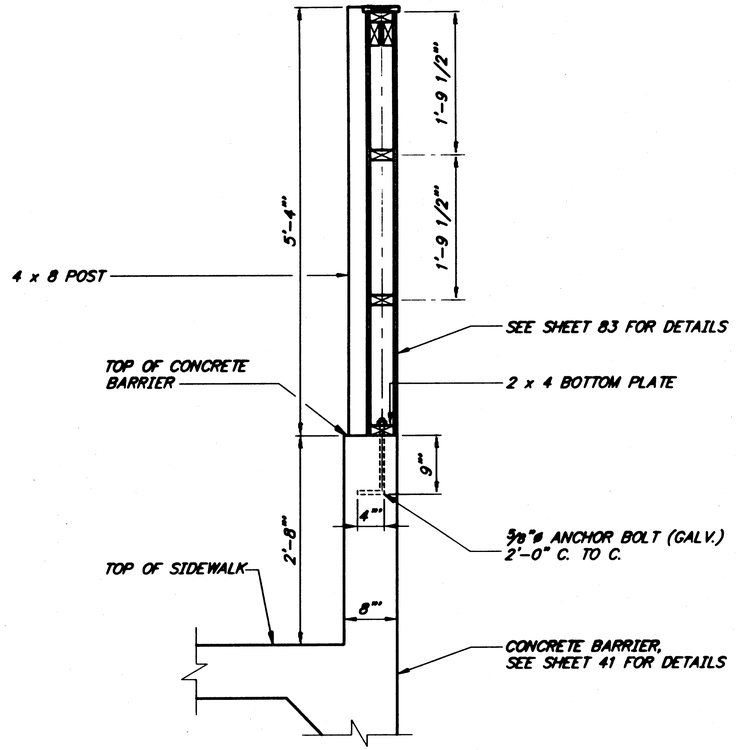
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — THIRD AVENUE EXTENSION — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811

NOISE BARRIER DETAILS

DESIGNED BY: D. Saldivar	PROJECT NO. 71811
DRAWN BY: K. KLEMMETSON	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 83 OF 93

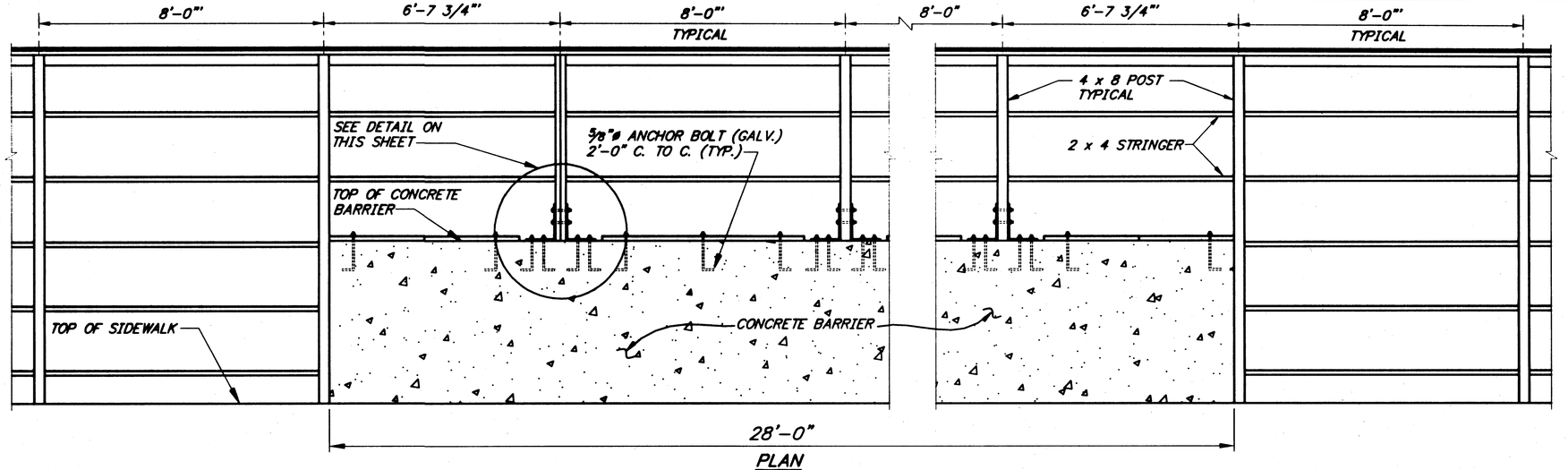
STATE OF ALASKA — 191 — David D. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER



SIDE VIEW

NOISE BARRIER ABOVE CONCRETE BARRIER

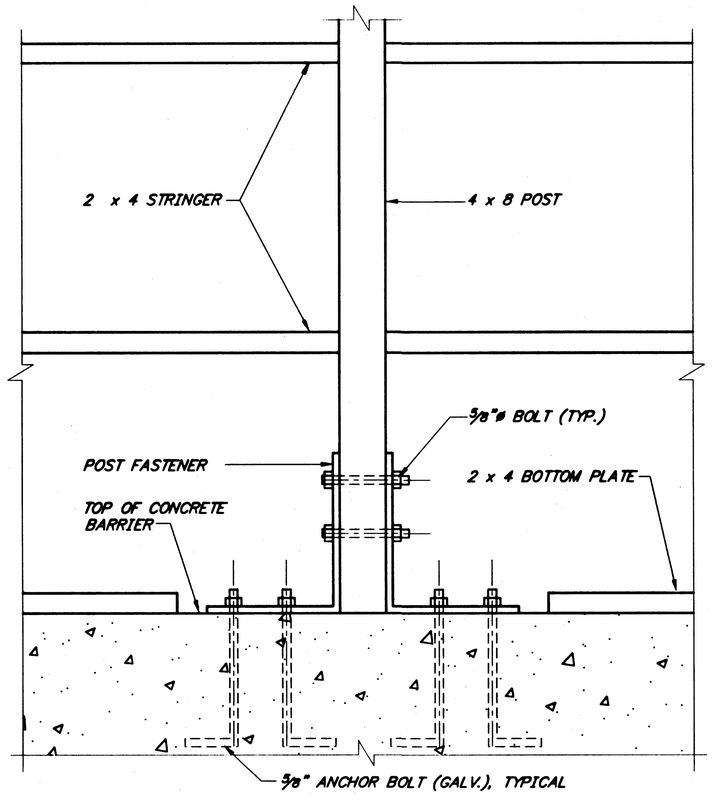
STA. "0" 24+50, RT., TO STA. "0" 25+75, RT.



PLAN

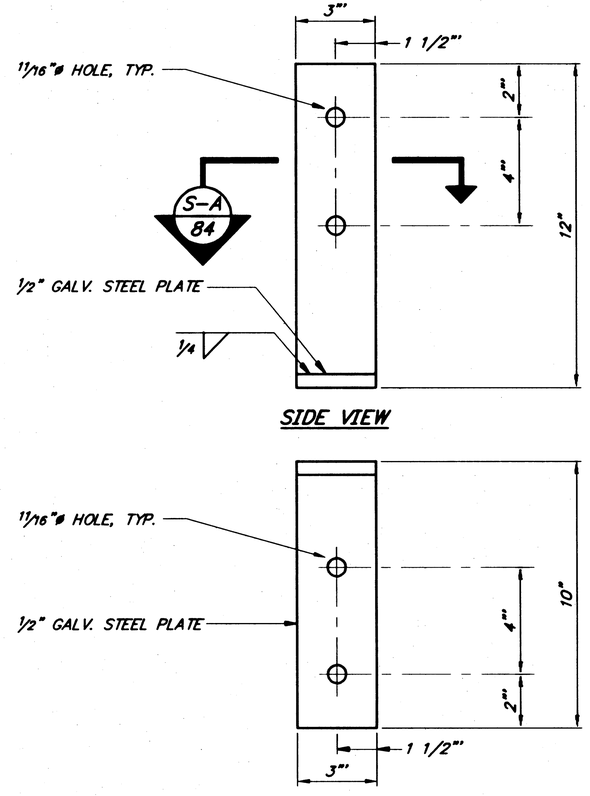
POST LAYOUT

STA. "0" 24+50, RT., TO STA. "0" 25+75, RT.



FRONT VIEW

POST CONNECTION



SIDE VIEW

SECTION VIEW (A)

POST FASTENER

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: Q:\KTN\71811\DR\-Det3		
PLOT: FULL=16 or HALF=32		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

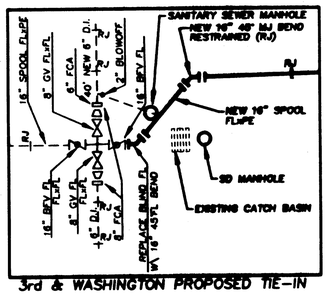
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

NOISE BARRIER DETAILS

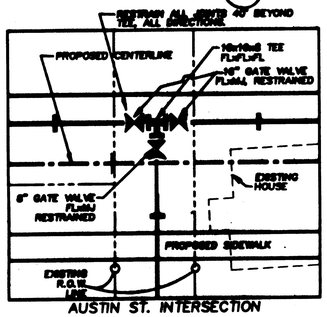
DESIGNED BY: E. Ellis/V. Judd	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: Sept. 1999
CHECKED BY: E. Ellis	SHEET 84 OF 93

STATE OF ALASKA 49th David D. Saldivar CE-8307 REGISTERED PROFESSIONAL ENGINEER



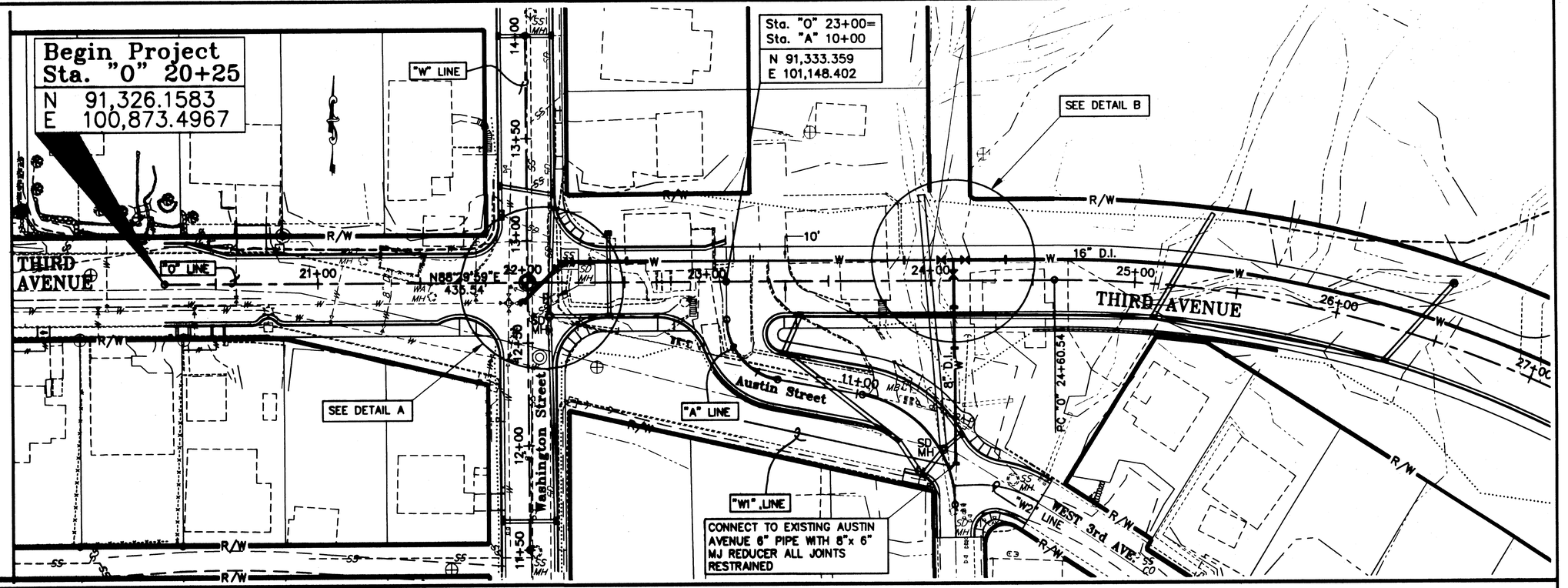
3rd & WASHINGTON PROPOSED TIE-IN

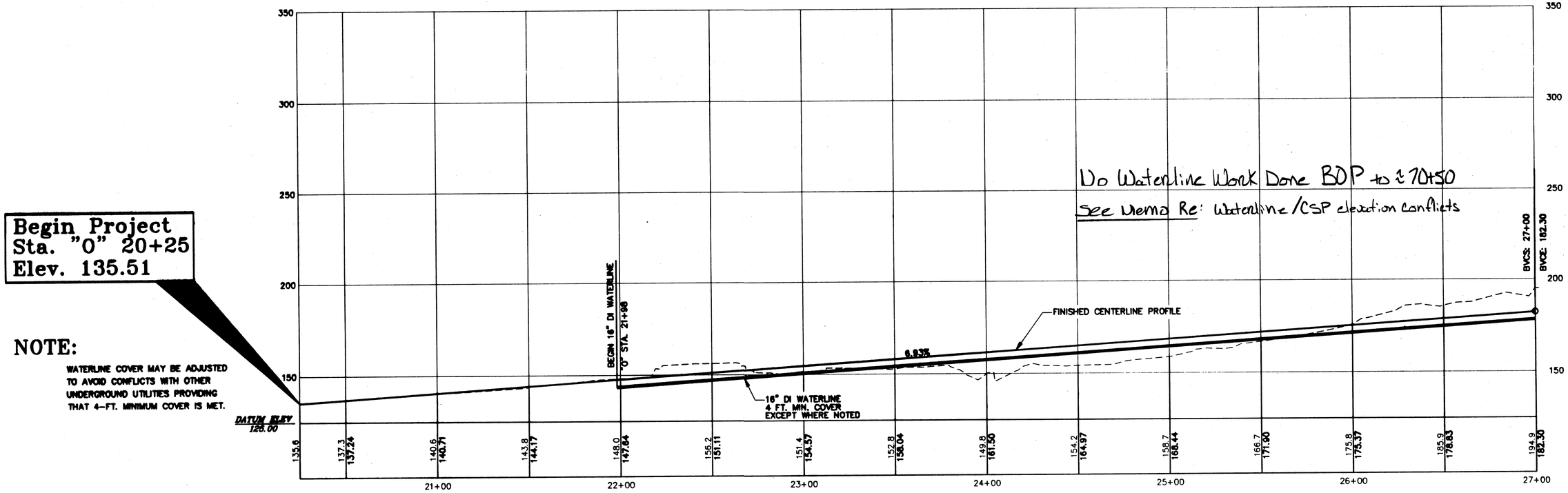
DETAIL (A)



AUSTIN ST. INTERSECTION

DETAIL (B)





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BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — *THIRD AVENUE EXTENSION* — ALASKA

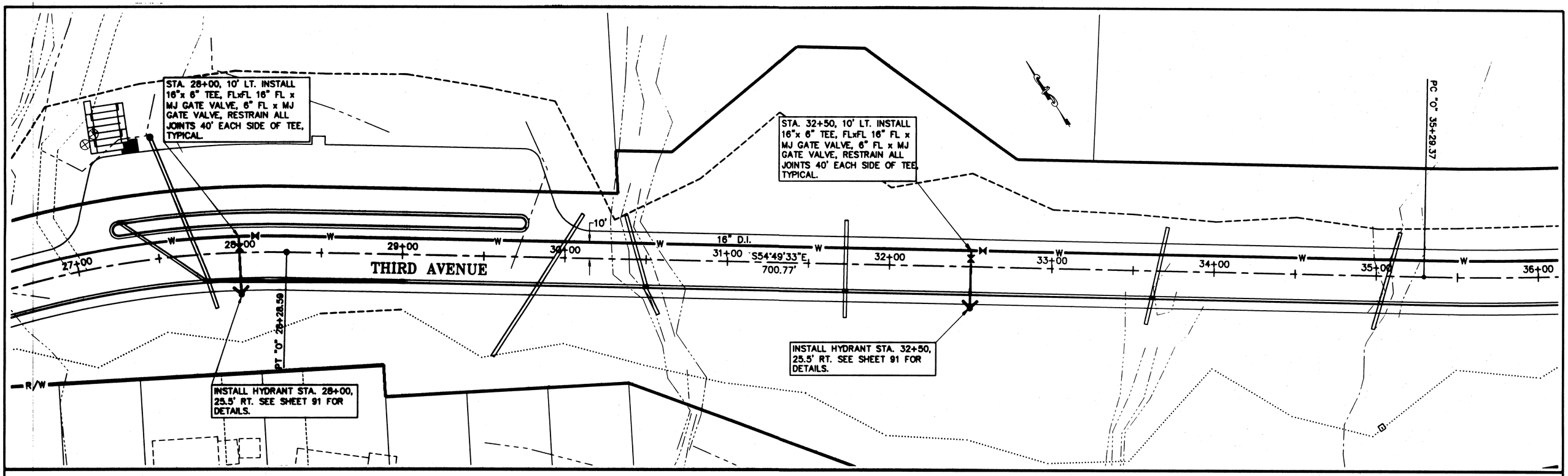
STP-MG-0904(1) ~ PROJECT No. 71811

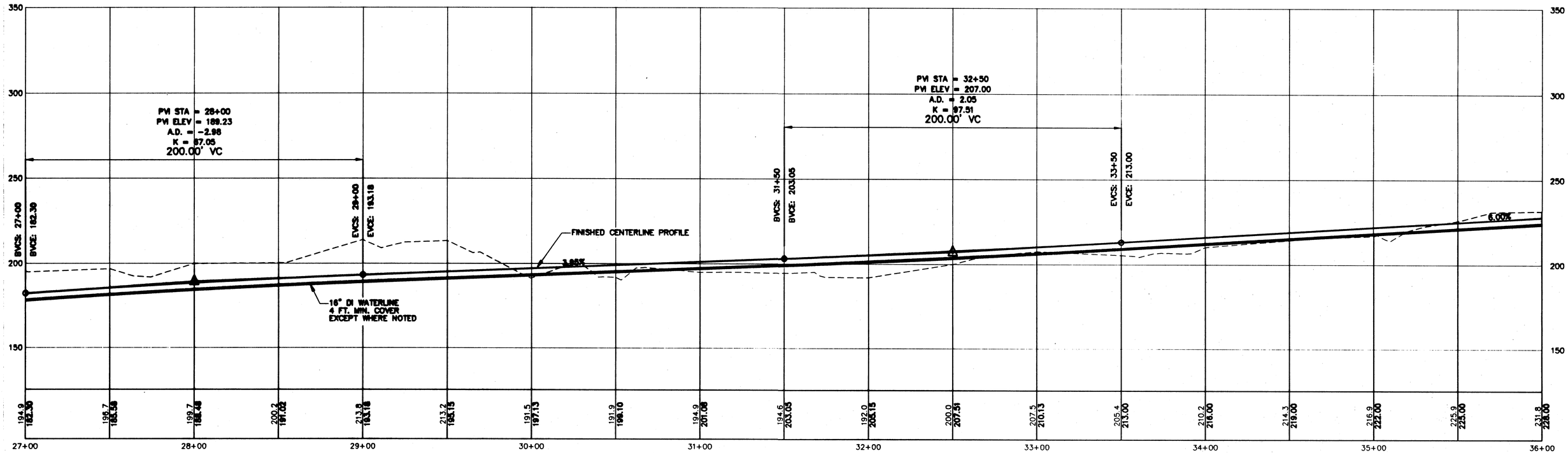
WATERLINE

B.O.P. STA. 20+50 TO STA. 27+00

DESIGNED BY: G. LYBRAND	PROJECT NO. 71811
DRAWN BY: T. SANDE	DATE: July, 1999
CHECKED BY: G. LYBRAND	SHEET 85 OF 93

STATE OF ALASKA 49th GEORGE LYBRAND CE-5044 REGISTERED PROFESSIONAL ENGINEER





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BY:	DATE:	DESCRIPTION OF CHANGE:

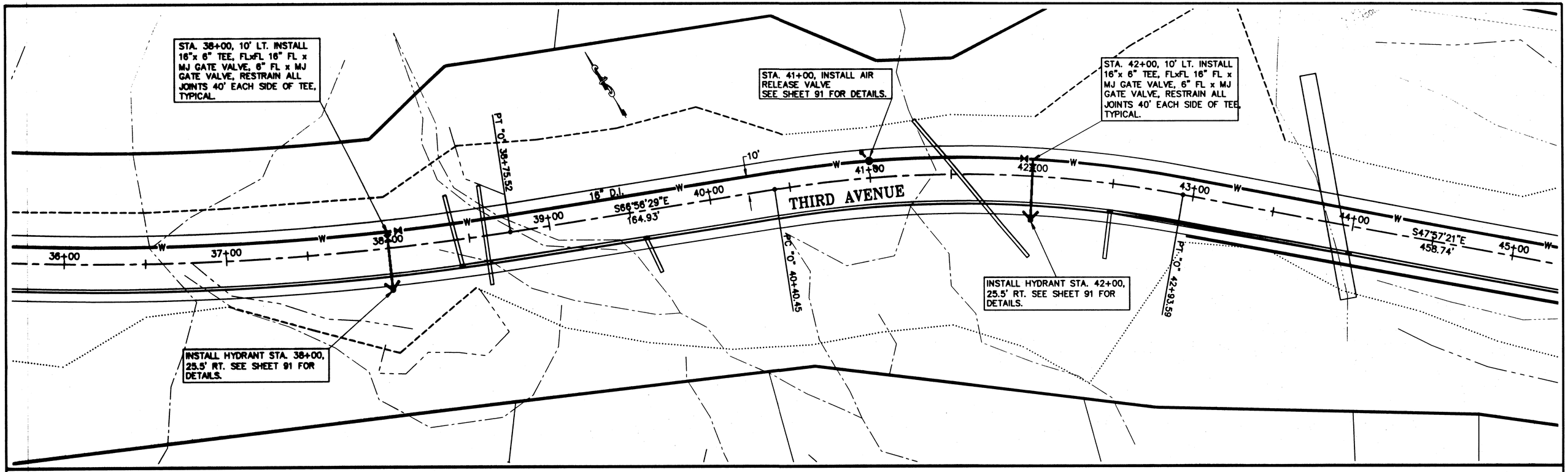
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

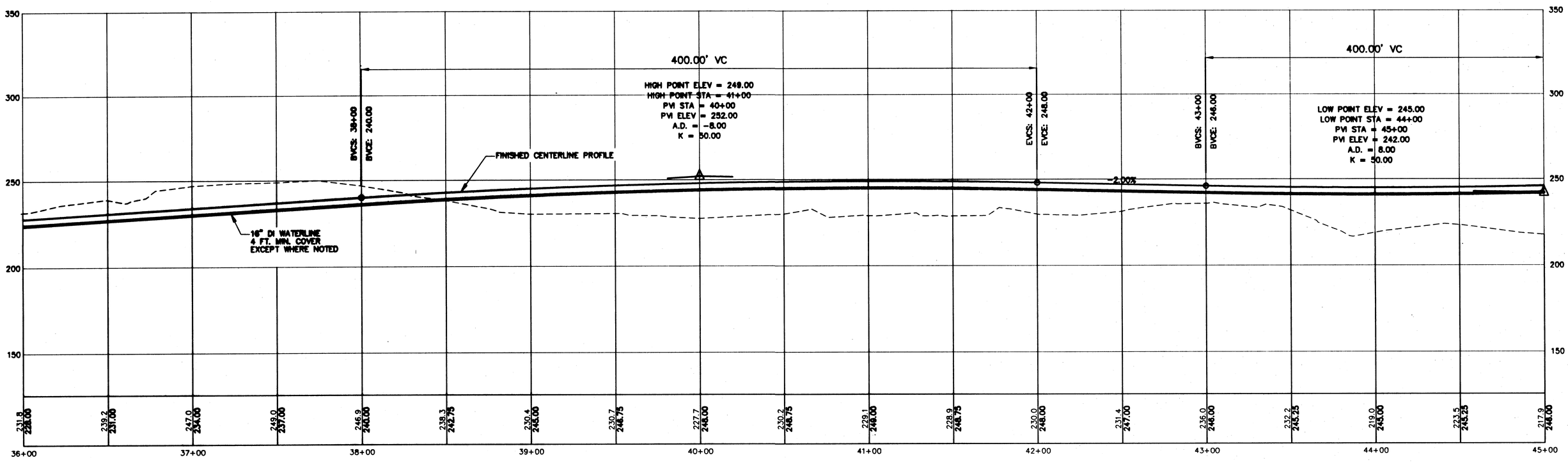
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
WATERLINE
STA. 27+00 TO STA. 36+00

DESIGNED BY: G. LYBRAND	PROJECT NO. 71811
DRAWN BY: T. SANDE	DATE: July, 1999
CHECKED BY: G. LYBRAND	SHEET 86 OF 93

STATE OF ALASKA 49th GEORGE LYBRAND CE-5044 REGISTERED PROFESSIONAL ENGINEER





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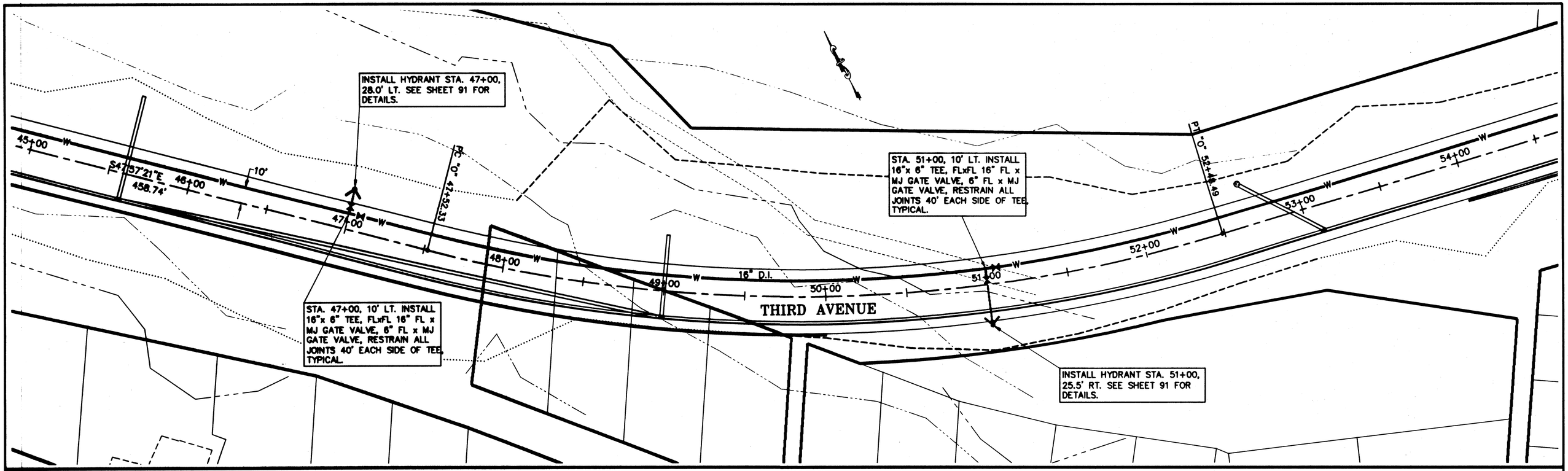
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

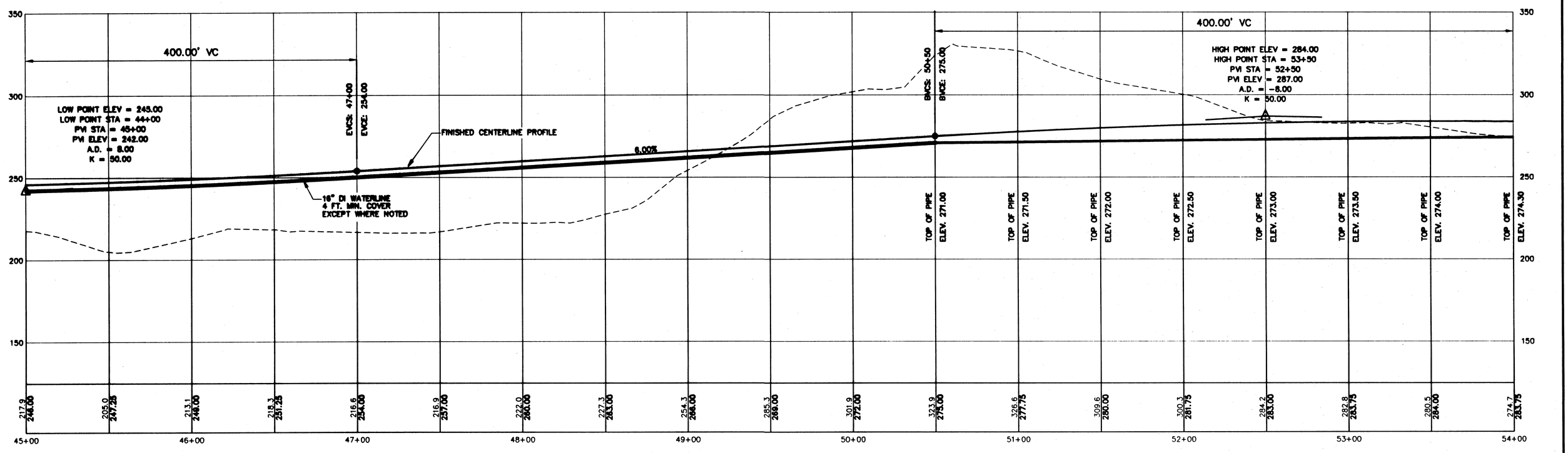
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
WATERLINE
STA. 36+00 TO STA. 45+00

DESIGNED BY: G. LYBRAND	PROJECT NO. 71811
DRAWN BY: T. SANDE	DATE: July, 1999
CHECKED BY: G. LYBRAND	SHEET 87 OF 93

STATE OF ALASKA 49th
GEORGE LYBRAND
CE-5044
REGISTERED PROFESSIONAL ENGINEER





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BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

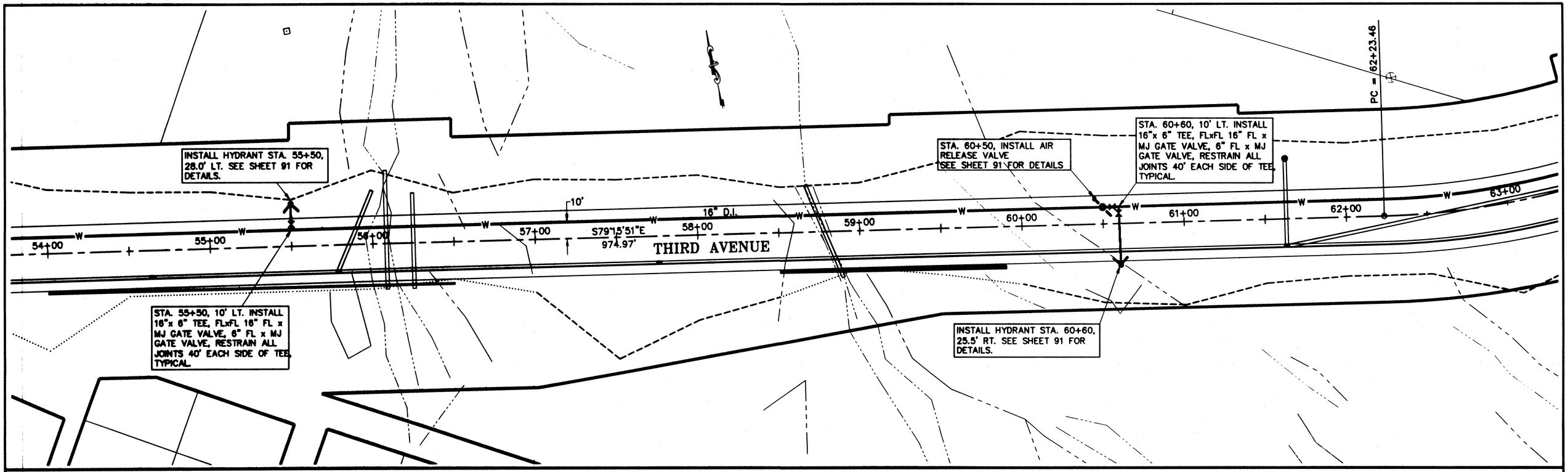
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

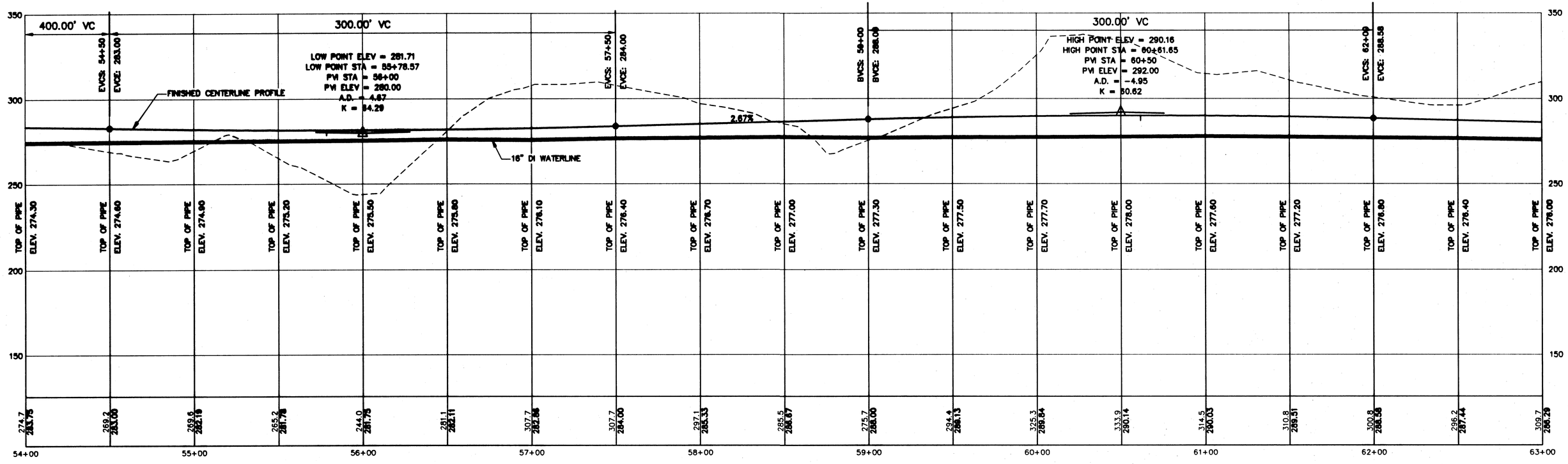
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811
WATERLINE
STA. 45+00 TO STA. 54+00

DESIGNED BY: G. LYBRAND	PROJECT NO. 71811
DRAWN BY: T. SANDE	DATE: July, 1999
CHECKED BY: G. LYBRAND	SHEET 88 OF 93

STATE OF ALASKA 49th
GEORGE LYBRAND
CE-5044
REGISTERED PROFESSIONAL ENGINEER





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BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN

THIRD AVENUE EXTENSION

STP-MG-0904(1) ~ PROJECT No. 71811

WATERLINE

STA. 54+00 TO STA. 63+00

ALASKA

DESIGNED BY: G. LYBRAND	PROJECT NO. 71811
DRAWN BY: T. SANDE	DATE: July, 1999
CHECKED BY: G. LYBRAND	SHEET 89 OF 93

STATE OF ALASKA
49th
GEORGE J. LYBRAND
CE-5044
REGISTERED PROFESSIONAL ENGINEER

45° BEND 16" MJ x FL & 16" FL x FL GATE VALVE

SEE DETAIL C

CONNECT TO EXISTING 30" WITH RESTRAINED JOINT SLEEVE

EXISTING PIPE TO BE ABANDONED

ALL RESTRAINED JOINTS

10"x10" TEE FL

REMOVE EXISTING 8" VALVE AND 8"x10" REDUCER & REPLACE WITH 10" VALVE MJxMJ RESTRAINED JOINT

NEW 10" RESTRAINED

MIN. 30'x12" PIPE RESTRAINED

10" GATE VALVE FL x FL

10"x12" REDUCER FL x MJ

10" GATE VALVE FL x FL

PIPE TO BE ABANDONED

CONNECT TO EXISTING 8" VALVE WITH 8"x10" REDUCER

PIPE TO BE ABANDONED

FOREST AVE.

NEW 10"

STA. 65+00, 10' LT. INSTALL 16"x 6" TEE, FLxFL 16" FL x MJ GATE VALVE, 6" FL x MJ GATE VALVE, RESTRAIN ALL JOINTS 40' EACH SIDE OF TEE, TYPICAL.

63+00

64+00

65+00

66+00

67+00

68+00

69+00

16" D.I.

10'

THIRD AVENUE

PT = 67+26.33

INSTALL HYDRANT STA. 65+00, 25.5' RT. SEE SHEET 91 FOR DETAILS.

10" FL/CP ADT WITH PINA

10" GATE VALVE FL x MJ

22½° MJ x FL RESTRAINED

10" SPOOL FL x FL

10" FL/CP ADT WITH PINA

NEW 10 X 10 X 10 FL x FL

EXISTING 10" RESTRAINED JOINT 40' ALL SIDES OF TEE

10"

Moved to 69+75, 35' Lt per KPU

EXISTING 10" DI & TELEMETER CABLE

90° MJ x MJ

INSTALL HYDRANT STA. 70+10 25.5' LT. SEE SHEET 91 FOR DETAILS N.A.

10" MJ x MJ 22 1/2°

ALL JOINTS RESTRAINED

10" DI

New Alignment per KPU 2.37' Lt.

ALL JOINTS RESTRAINED

70+00

10" DI

71+00 END

PC = 69+96.77

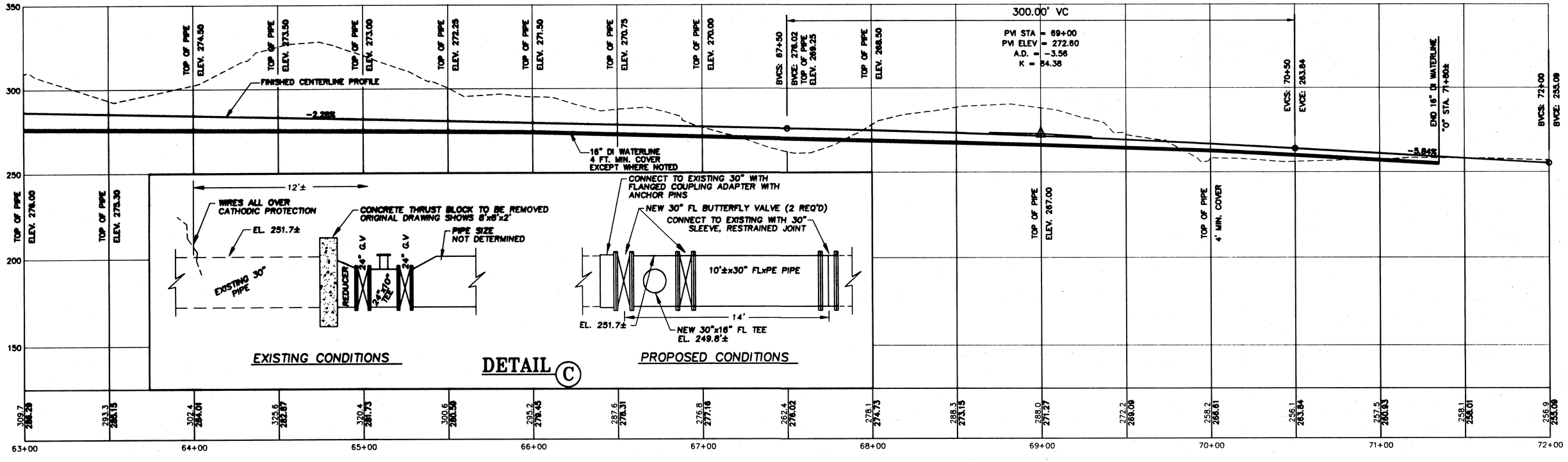
16" MJ x MJ 22 1/2° RESTRAINED

WAT MH

SS MH

HENDERSON PIPE

PT "S" 11+



EXISTING CONDITIONS

DETAIL (C)

PROPOSED CONDITIONS

PATH:	[PlotStamp Eval] G:\Vtn\71811\Dr_ppwater.dwg Fri, 21/May/99 10:50am		
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BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN

THIRD AVENUE EXTENSION

STP-MG-0904(1) ~ PROJECT No. 71811

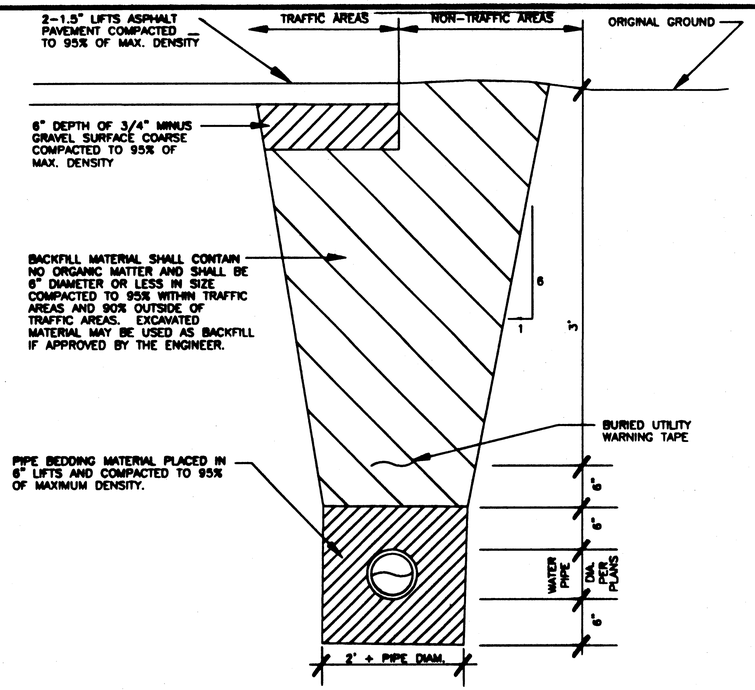
WATERLINE

STA. 63+00 TO STA. 72+50

ALASKA

DESIGNED BY: G. LYBRAND	PROJECT NO. 71811
DRAWN BY: T. SANDE	DATE: July, 1999
CHECKED BY: G. LYBRAND	SHEET 90 OF 93

STATE OF ALASKA 19th GEORGE LYBRAND CE-5044 REGISTERED PROFESSIONAL ENGINEER

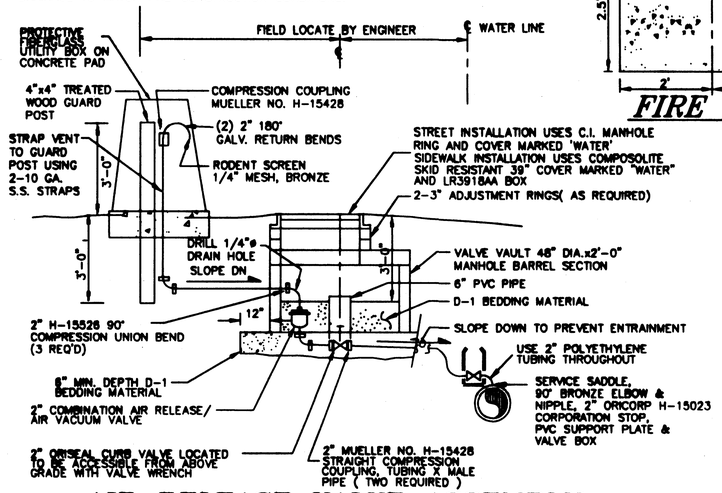


TYPICAL TRENCH SECTION

NOT TO SCALE

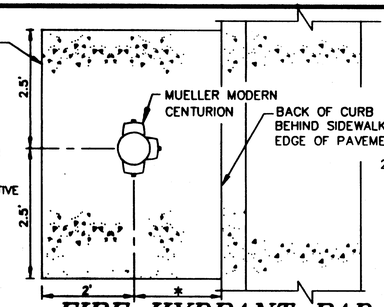
NOTES:

1. BACKFILL MATERIAL SHALL BE PLACED IN 12" MAXIMUM LIFTS.
2. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATION ONLY FOR IMPORTED BACKFILL GRAVEL AND RESURFACING REQUIREMENTS.
3. IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, ENGINEER MAY DIRECT THE CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.
4. THE DITCH LINE, IF ONE EXISTS, SHALL BE RESHAPED IN SUCH A MANNER TO ALLOW POSITIVE DRAINAGE TO MATCH PRE-CONSTRUCTION CONDITIONS.



AIR RELEASE VALVE ASSEMBLY

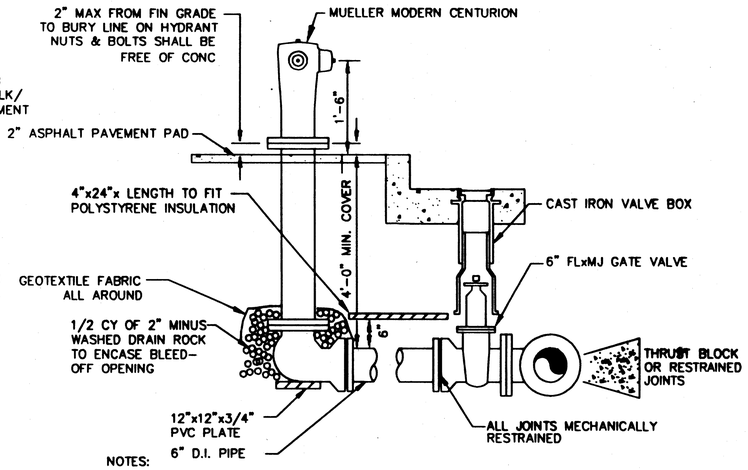
N.T.S.



FIRE HYDRANT PAD

NOT TO SCALE

* VARIES, SEE PLAN FOR OFFSET DISTANCE

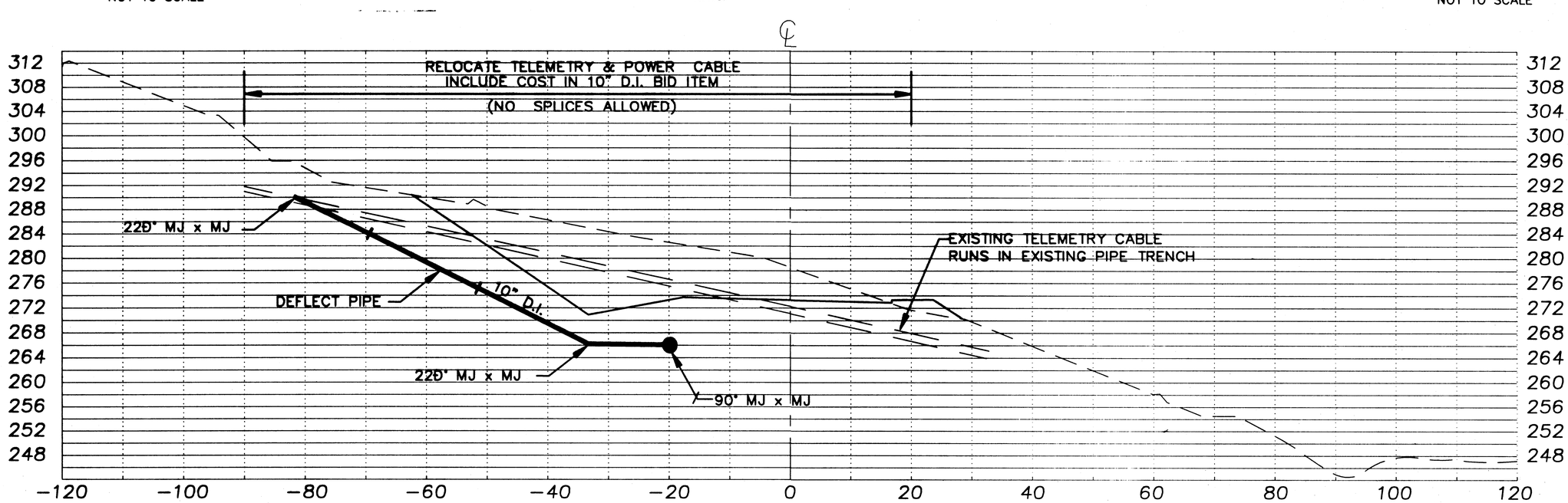


NOTES:

1. ALL BOLT THREADS TO BE GREASED PRIOR TO INSTALLATION.
2. MECHANICAL JOINT RESTRAINT BETWEEN VALVE AND HYDRANT
3. HYDRANT PAINT SHALL BE ONE OF THE FOLLOWING PER WATER DIVISION:
   7738-HUNTER GREEN (RUSTOLEUM)
   7745-SUNSET YELLOW (RUSTOLEUM)
   334-INTERNATIONAL ORANGE (INTERLUX)
4. NUTS AND BOLTS SHALL BE FREE OF CONCRETE.
5. HYDRANT ASSEMBLY SHALL RECEIVE 3 LAYERS ON 6 MIL POLYETHYLENE SHEETING.
6. GUARD POSTS SHALL BE 6" DUCTILE IRON PIPE FILLED WITH CONCRETE. PAINT WITH 2 COATS ON RUSTOLEUM NO. 7743.
7. GUARD POSTS SHALL BE LOCATED TO ALLOW UNRESTRICTED ACCESS TO PUMPER AND HOSE CONNECTIONS.

TYPICAL BURIED FIRE HYDRANT

NOT TO SCALE



SECTION 69+50

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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PLOT: FULL=1 or HALF=2		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

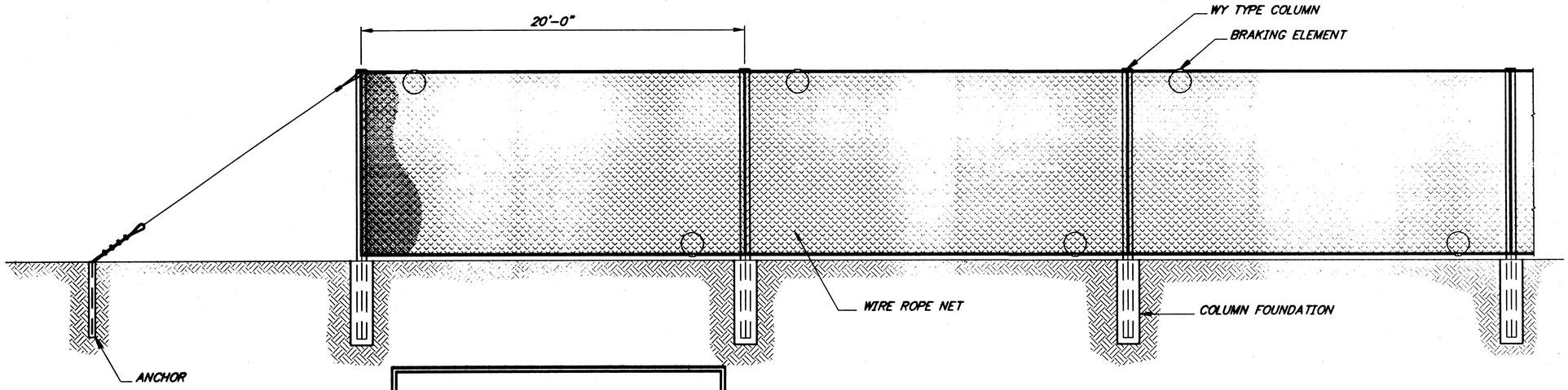
KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

WATERLINE DETAILS

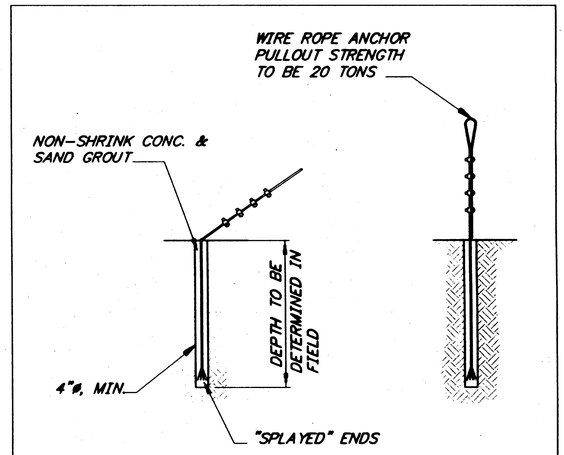
DESIGNED BY: D. Saldivar	71811
DRAWN BY: T. Sande, R.S.	DATE: July, 1999
CHECKED BY: D. Saldivar	SHEET 91 OF 93

STATE OF ALASKA 49th GEORGE LYBRAND CE-5044 REGISTERED PROFESSIONAL ENGINEER

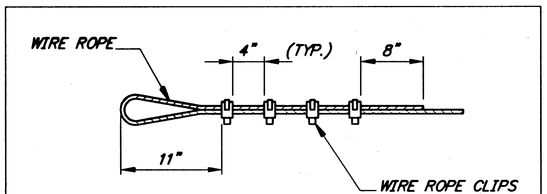


TYPICAL LAYOUT

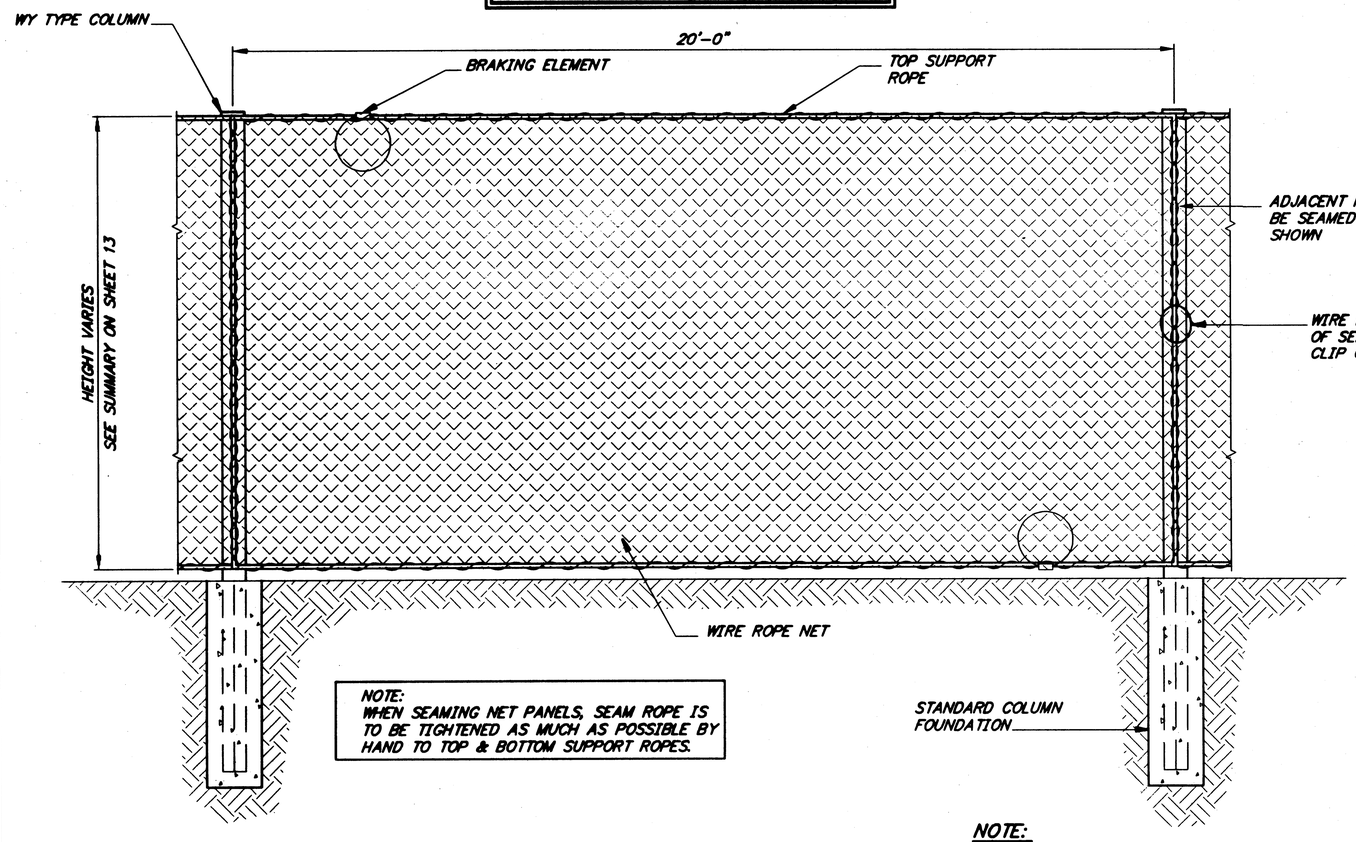
FOR INFORMATION USE ONLY



ANCHOR DETAIL

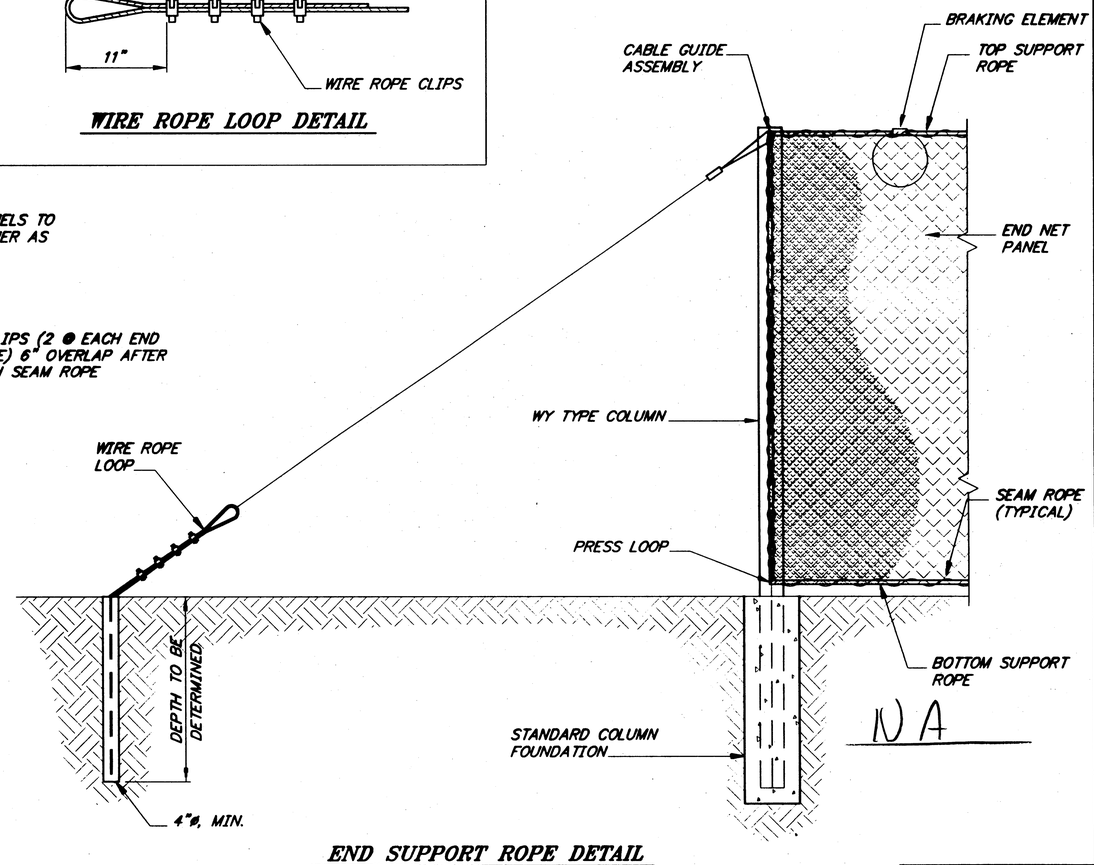


WIRE ROPE LOOP DETAIL



SEAMING DETAIL

NOTE:
DIFFERENT TYPE OF FOUNDATION, OTHER THAN ROCK, MAY BE ENCOUNTERED.



END SUPPORT ROPE DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: [PlotStamp Eval] Q:\Ktn\71811\Dr\RockFence.dwg Wed, 22/Dec/99 11:39am
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — *THIRD AVENUE EXTENSION* — ALASKA
STP-MG-0904(1) ~ PROJECT No. 71811

PERMANENT ROCK CATCHMENT BARRIER

DESIGNED BY: D. SALDIVAR	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: C. MORROW	SHEET 92 OF 93

STATE OF ALASKA — 49th — David D. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER

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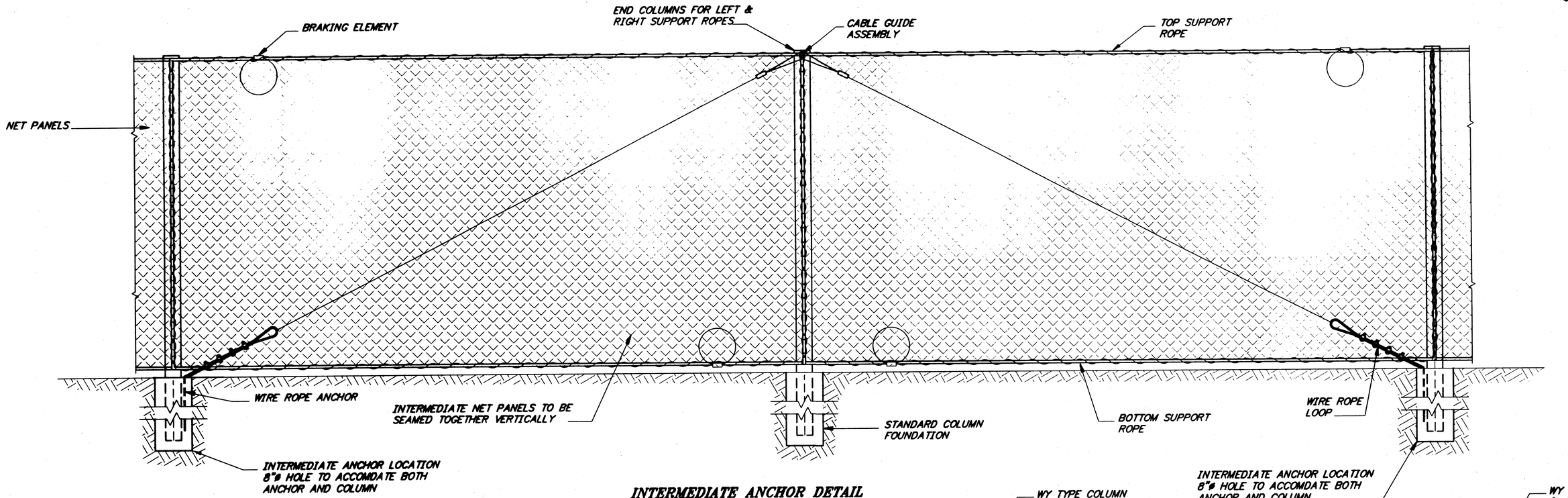
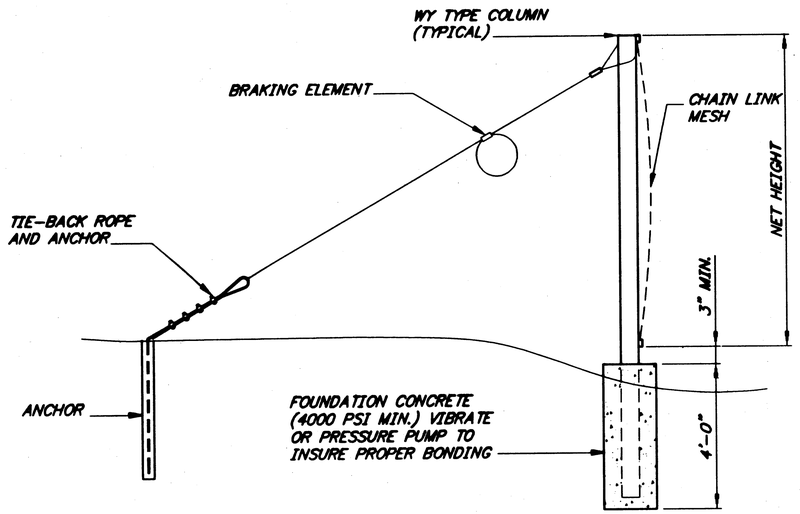
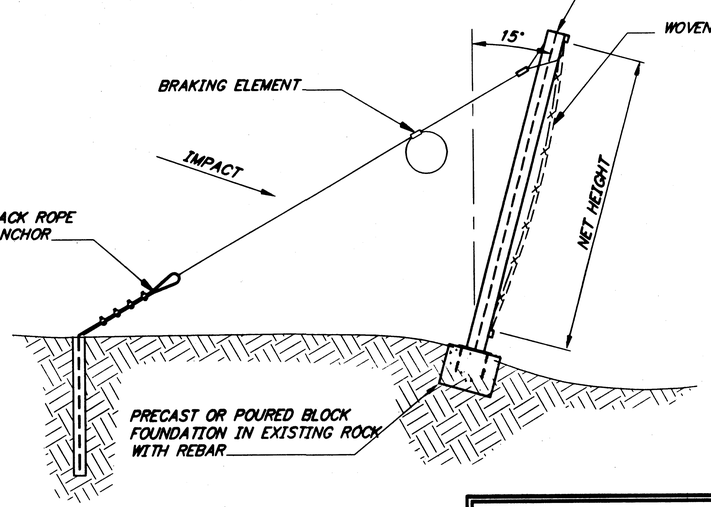


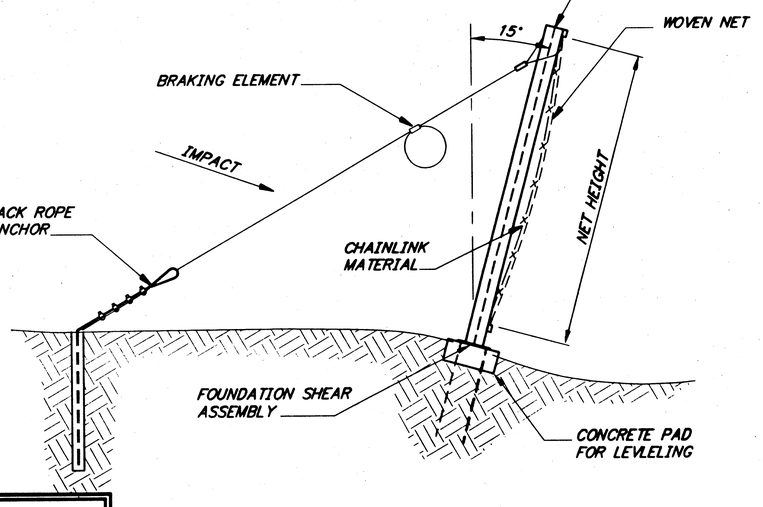
INTERMEDIATE ANCHOR DETAIL



ALTERNATE FOUNDATION 1



ALTERNATE FOUNDATION 2
(ANGLED COLUMN W/BLOCK FOUNDATION)



ALTERNATE FOUNDATION 3
(ANGLED COLUMN W/ROCKBOLT FOUNDATION)

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NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

RECORD OF REVISIONS		
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN — ALASKA

THIRD AVENUE EXTENSION
STP-MG-0904(1) ~ PROJECT No. 71811

PERMANENT ROCK CATCHMENT BARRIER

DESIGNED BY: D. SALDIVAR	PROJECT NO. 71811
DRAWN BY: B. Bennett	DATE: July, 1999
CHECKED BY: C. MORROW	SHEET 93 OF 93

STATE OF ALASKA — 49th — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

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