

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

HAINES ALASKA

**HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK**

**PROJECT NO. NH-F-095-6(14) (71483)**

**GRADING, DRAINAGE, BRIDGE  
REPLACEMENT AND PAVING**

**INDEX OF SHEETS**

| SHEET NO. | DESCRIPTION                                     |
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THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

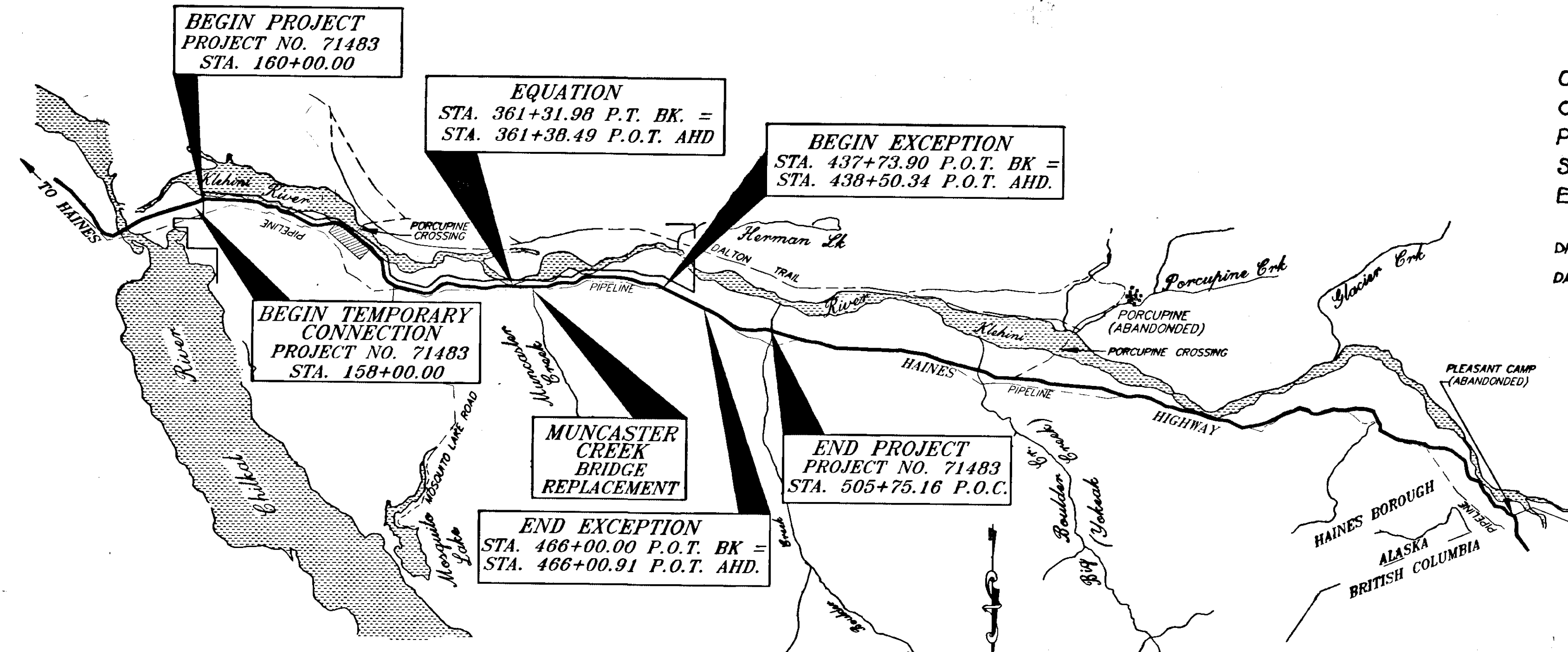
A-1, C-01.03, C-02.01, D-01.02, D-04.10, D-05.10,  
D-06.01, D-30.01, G-04.05S, G-04.06W, G-09.02S, G-09.03W,  
G-24.05S, G-24.05W, G-29.02W, G-45.01, G-46.00  
I-30.01, I-81.00, I-82.00, M-16.01, S-00.00, S05.00,  
S-20.00, S-30.01, T-20.00, T-21.02, T-22.02

**PROJECT SUMMARY**

|                         |   |                        |
|-------------------------|---|------------------------|
| PAVEMENT WIDTH          | = | 36'                    |
| LENGTH OF GRADING       | = | 31,941.64' = 6.050 MI. |
| LENGTH OF PAVING        | = | 31,941.64' = 6.050 MI. |
| LENGTH OF PROJECT       | = | 34,691.30' = 6.570 MI. |
| LENGTH OF EXCEPTION     | = | 2,749.66' = 0.515 MI.  |
| LENGTH TEMP. CONNECTION | = | 200.00' = 0.038 MI.    |
| LENGTH OF BRIDGE        | = | 60.00' = 0.014 MI.     |

**DESIGN DESIGNATION**

|           |   |       |
|-----------|---|-------|
| ADT 1997  | = | 324   |
| ADT 2017  | = | 436   |
| DHV (14%) | = | 53    |
| V         | = | 55    |
| %T        | = | 10    |
| E.A.L.'S  | = | 52500 |



**VICINITY MAP**

**AS - BUILT - PLANS**

CONTRACTOR: KIEWIT PACIFIC COMPANY  
ORIGINAL CONTRACT AMOUNT: \$9,917,800.00  
PROJECT ENGINEER: GREG BROWNING  
START DATE: OCTOBER 6, 1998  
END DATE: SEPTEMBER 30, 2000

DRAWN BY: E.C.KEMP  
DATE: APRIL 18, 2001

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN SECTION

APPROVED Date 7/21/98  
Regional Preconstruction Engineer

APPROVED Date 21 JUL 98  
Director, S.E. Region Design & Construction

|                 |              |                     |
|-----------------|--------------|---------------------|
| PROJECT NUMBER: | <b>71483</b> | ENGINEER'S SEAL<br> |
| DATE:           | <b>1998</b>  |                     |
| SHEET           | <b>A1 88</b> |                     |
| TOTAL SHEETS    |              |                     |

STA. 158+00.00 P.O.T.  
 BEGIN TEMPORARY CONNECTION  
 N 685173.39  
 E 574380.57

BEGIN PROJECT  
 STA. 160+00.00 P.O.T.

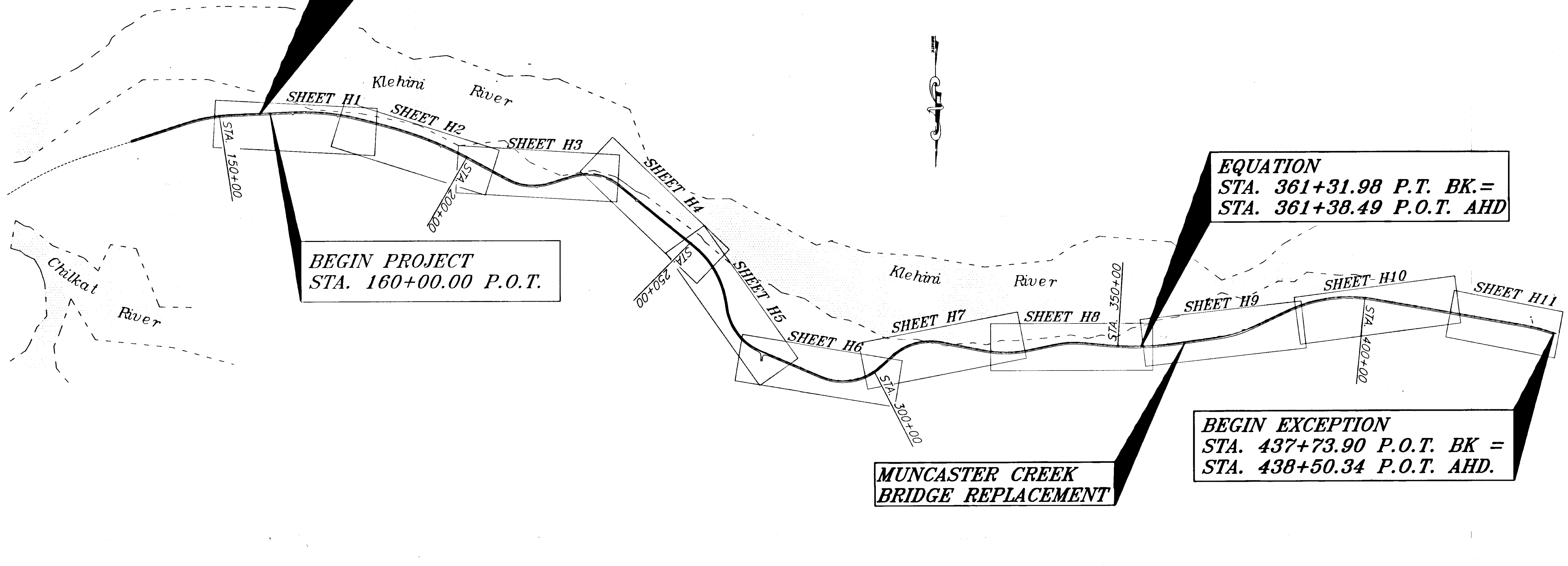
EQUATION  
 STA. 361+31.98 P.T. BK.=  
 STA. 361+38.49 P.O.T. AHD

BEGIN EXCEPTION  
 STA. 437+73.90 P.O.T. BK =  
 STA. 438+50.34 P.O.T. AHD.

MUNCASTER CREEK  
 BRIDGE REPLACEMENT

END EXCEPTION  
 466+00.00 P.O.T. BK =  
 STA. 466+00.91 P.O.T. AHD.

END PROJECT  
 STA. 505+75.16 P.O.C.  
 N 691752.84  
 E 542881.43



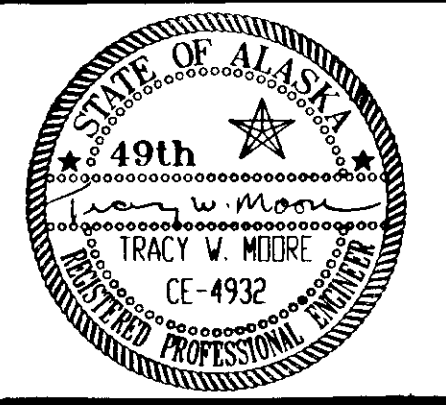
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|   |       |                        |
|---|-------|------------------------|
| PATH: P: \-LIB\STDHP: \HNS\67436\DR\LEGEND            |       |                        |
| PLOT: P: \-LIB\PLOT\PLTF.PCP(1000) OR PLOTH.PCP(2000) |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |
|   |       |                        |
| <b>RECORD OF REVISIONS</b>                            |       |                        |

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

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**LEGEND**

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET A2             |



| ADDITIONAL CONTROL POINTS |           |             |            |            |
|---------------------------|-----------|-------------|------------|------------|
| POINT                     | STATION   | OFFSET      | NORTHING   | EASTING    |
| USC&GS "FORK2"            | -         | -           | 687243.451 | 580265.307 |
| USC&GS "AZI FORK2"        | -         | -           | 686066.778 | 578296.732 |
| HH-76                     | 147+09.03 | 22.04' LT.  | 685220.448 | 575471.250 |
| HH-75A                    | 173.34.94 | 27.79' LT.  | 685154.184 | 572844.590 |
| HH-74                     | 180+26.09 | 5.33' RT.   | 685336.998 | 572175.901 |
| HH-73A                    | 187+00.66 | 34.08' LT.  | 685479.477 | 571514.254 |
| HH-72                     | 191+00.98 | 9.21' LT.   | 685479.477 | 571514.254 |
| HH-71                     | 198+81.43 | 12.78' RT.  | 685969.009 | 570438.222 |
| HH-70A                    | 209+42.32 | 20.43' LT.  | 686440.649 | 569488.513 |
| HH-69                     | 215+40.93 | 67.87' RT.  | 686635.349 | 568910.495 |
| HH-68A                    | 226+50.16 | 19.47' LT.  | 686331.350 | 567834.760 |
| HH-67                     | 234+89.67 | 19.03' LT.  | 686727.923 | 567099.461 |
| HH-66                     | 251+56.81 | 33.46' LT.  | 687771.775 | 565798.087 |
| HH-65                     | 259+24.93 | 56.87' LT.  | 688388.280 | 565317.059 |
| HH-64                     | 269+42.90 | 54.35' RT.  | 689407.117 | 565119.140 |
| HH-63A                    | 291+42.49 | 158.60' LT. | 690225.789 | 563126.385 |
| HH-62A                    | 299+22.61 | 79.14' RT.  | 690322.100 | 562363.663 |
| HH-61                     | 304+86.91 | 12.33' LT.  | 689886.225 | 561976.813 |
| HH-60                     | 310+26.57 | 14.81' LT.  | 689638.139 | 561496.248 |
| HH-59                     | 319+92.64 | 56.63' RT.  | 689798.071 | 560550.392 |
| HH-58                     | 325+19.83 | 23.19' LT.  | 689813.470 | 560018.294 |
| HH-57                     | 330+82.52 | 42.67' RT.  | 689874.761 | 559454.173 |
| HH-56                     | 342+21.53 | 36.41' RT.  | 68699.730  | 558337.634 |
| HH-55A                    | 356+80.43 | 1.18' LT.   | 689730.869 | 556887.448 |

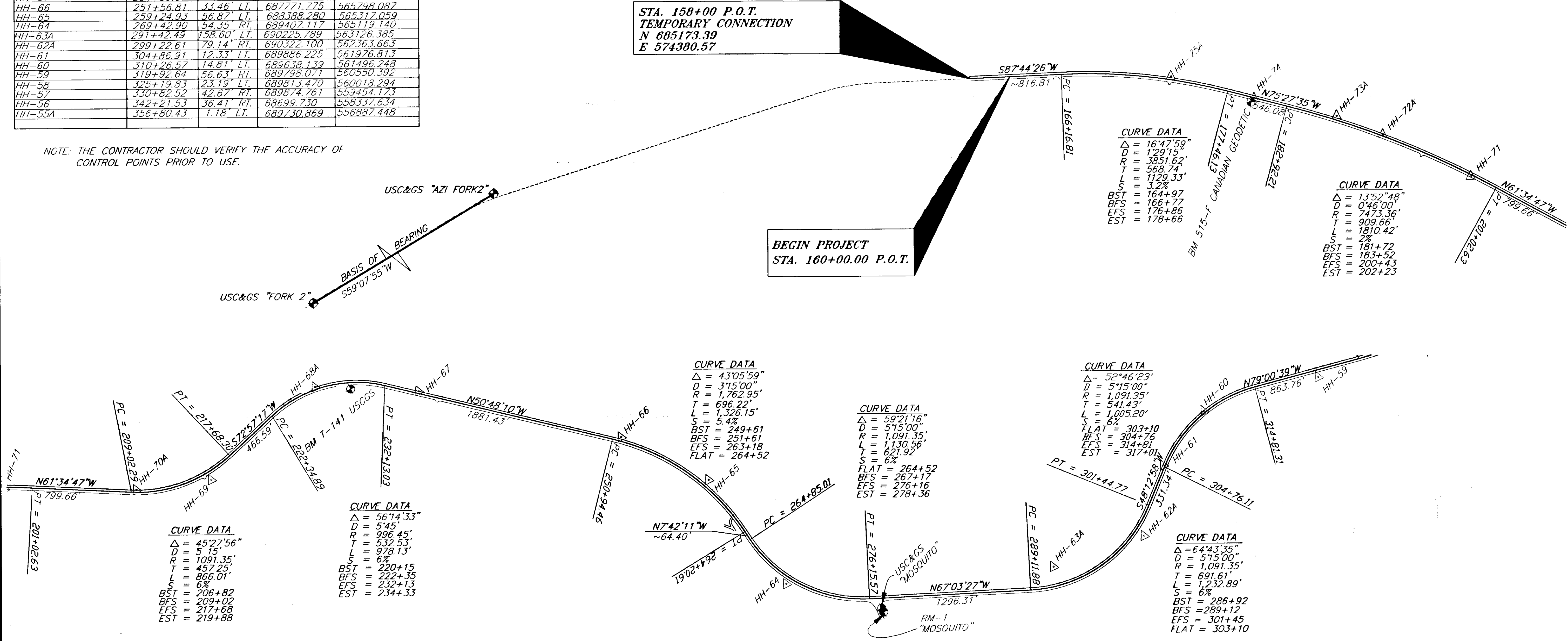
**HORIZONTAL CONTROL**  
 THE BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT IS THE BEARING OF S59°07'55"W FROM USC&GS MONUMENT "FORK2" TO USC&GS MONUMENT AZI FORK2.  
 THE BASIS OF COORDINATES FOR THIS PROJECT IS USC&GS MONUMENT "FORK2" WITH PROJECT COORDINATES OF N687243.451 E580265.307.

**VERTICAL CONTROL**  
 THE BASIS OF VERTICAL CONTROL FOR THIS PROJECT IS USC&GS "FORK2" WITH AN ELEVATION OF 129.91' MSL.

**LEGEND**  
 Δ HH-63A = CONTROL TRAVERSE (HH) POINT  
 ● = BENCH MARKS

STA. 158+00 P.O.T.  
 TEMPORARY CONNECTION  
 N 685173.39  
 E 574380.57

NOTE: THE CONTRACTOR SHOULD VERIFY THE ACCURACY OF CONTROL POINTS PRIOR TO USE.

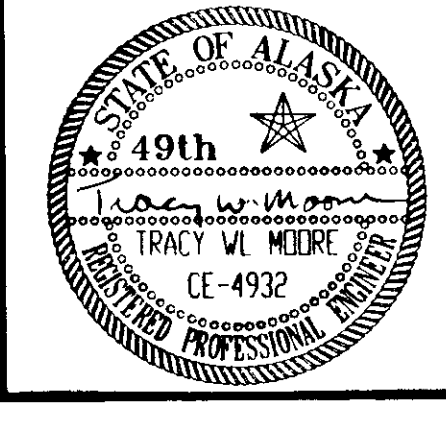


| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |

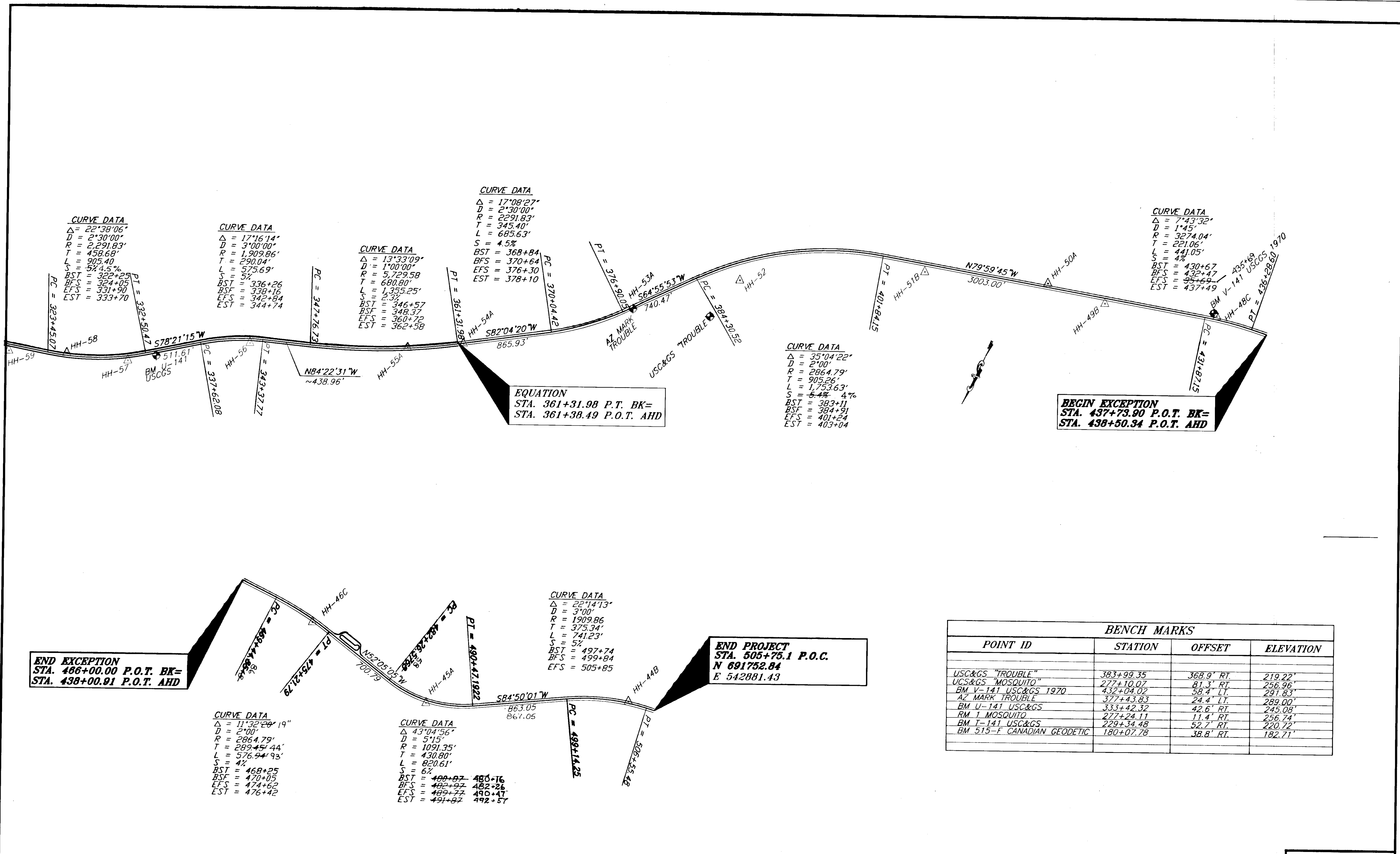
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**SURVEY CONTROL**

ALASKA  
 DESIGNED BY: C. HAKARI  
 DRAWN BY: W. HICKOK  
 CHECKED BY: T. MOORE  
 PROJECT NO. 71483  
 DATE: 1998  
 SHEET A3



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



| BENCH MARKS                |           |            |           |
|----------------------------|-----------|------------|-----------|
| POINT ID                   | STATION   | OFFSET     | ELEVATION |
| USC&GS "TROUBLE"           | 383+99.35 | 368.9' RT. | 219.22'   |
| USC&GS "MOSQUITO"          | 277+10.07 | 81.3' RT.  | 256.96'   |
| BM V-141 USC&GS 1970       | 432+04.02 | 58.4' LT.  | 291.83'   |
| AZ MARK TROUBLE            | 377+43.83 | 24.4' LT.  | 289.00'   |
| BM U-141 USC&GS            | 333+42.32 | 42.6' RT.  | 245.08'   |
| RM 1 MOSQUITO              | 277+24.11 | 11.4' RT.  | 256.74'   |
| BM T-141 USC&GS            | 229+34.48 | 52.7' RT.  | 220.72'   |
| BM 515-F CANADIAN GEODETIC | 180+07.78 | 38.8' RT.  | 182.71'   |

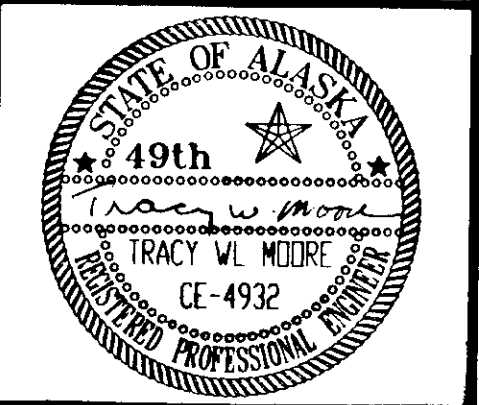
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| PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOTH.PCP(2) |       |                           |
| BY:   | DATE: | DESCRIPTION OF CHANGE:    |
| RECORD OF REVISIONS                               |       |                           |

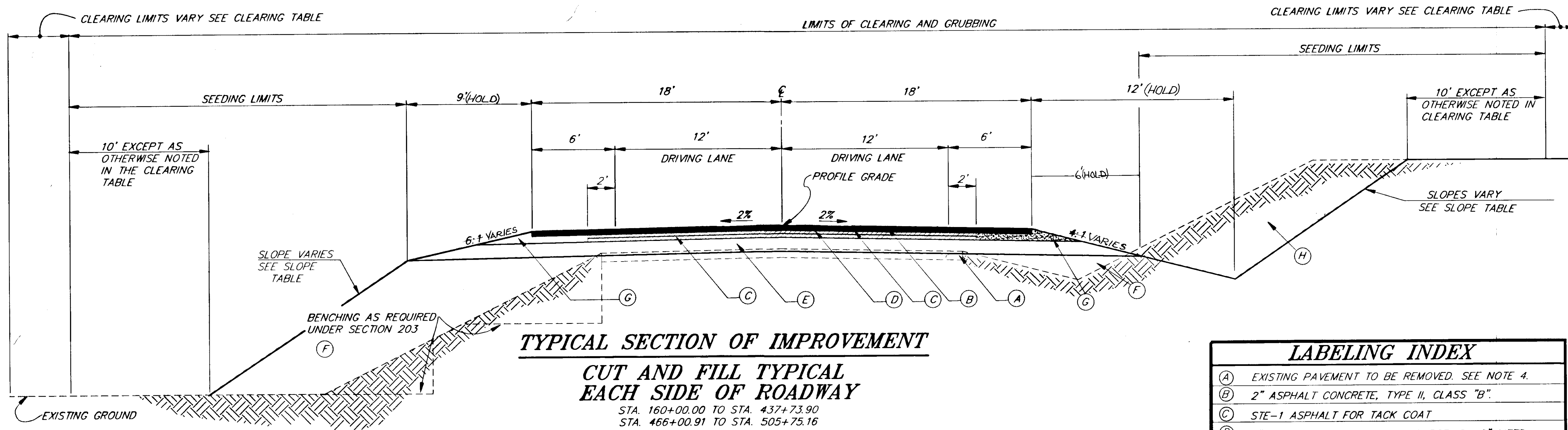
STATE OF ALASKA  
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HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**SURVEY CONTROL**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET<br>A4          |



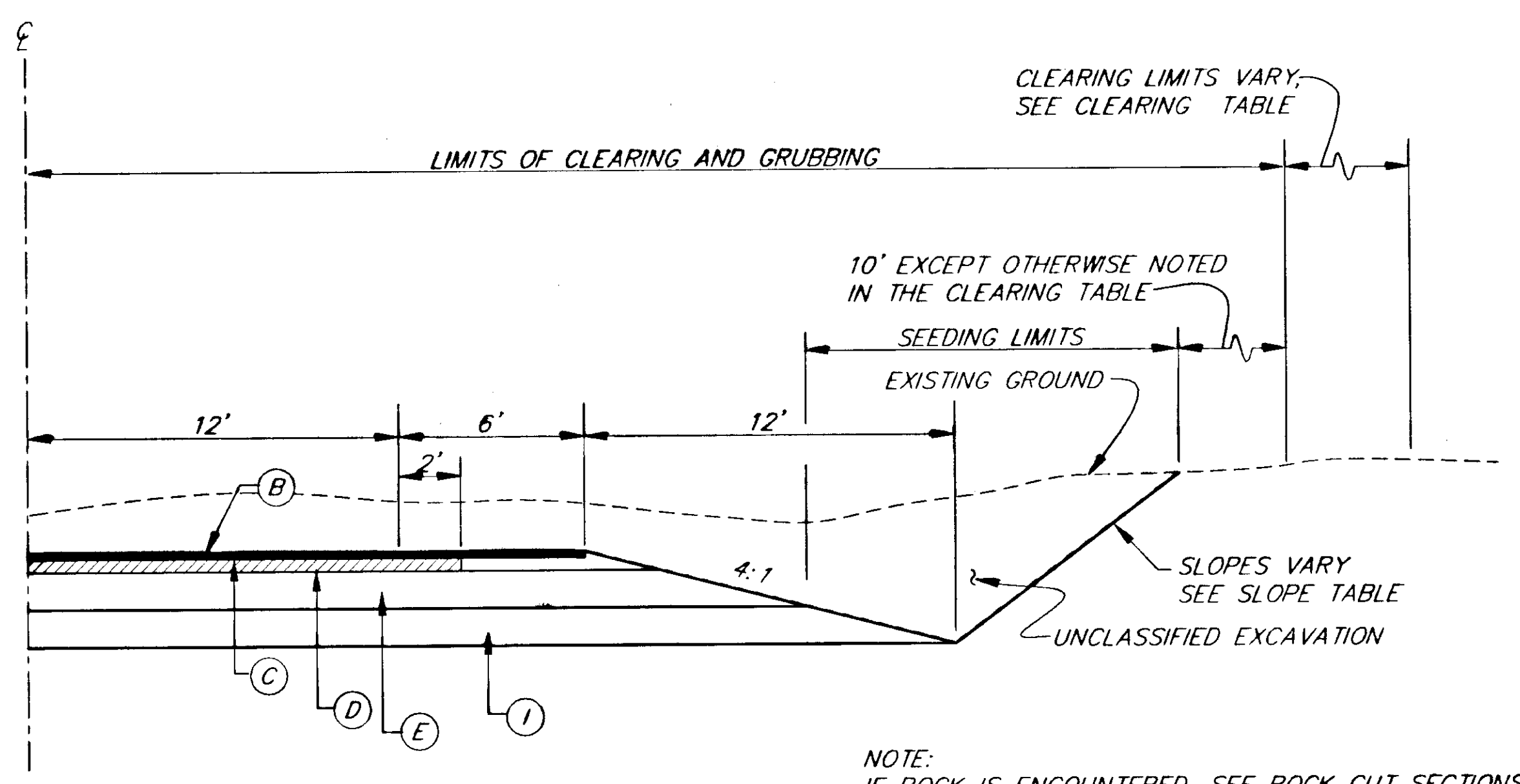


**TYPICAL SECTION OF IMPROVEMENT**

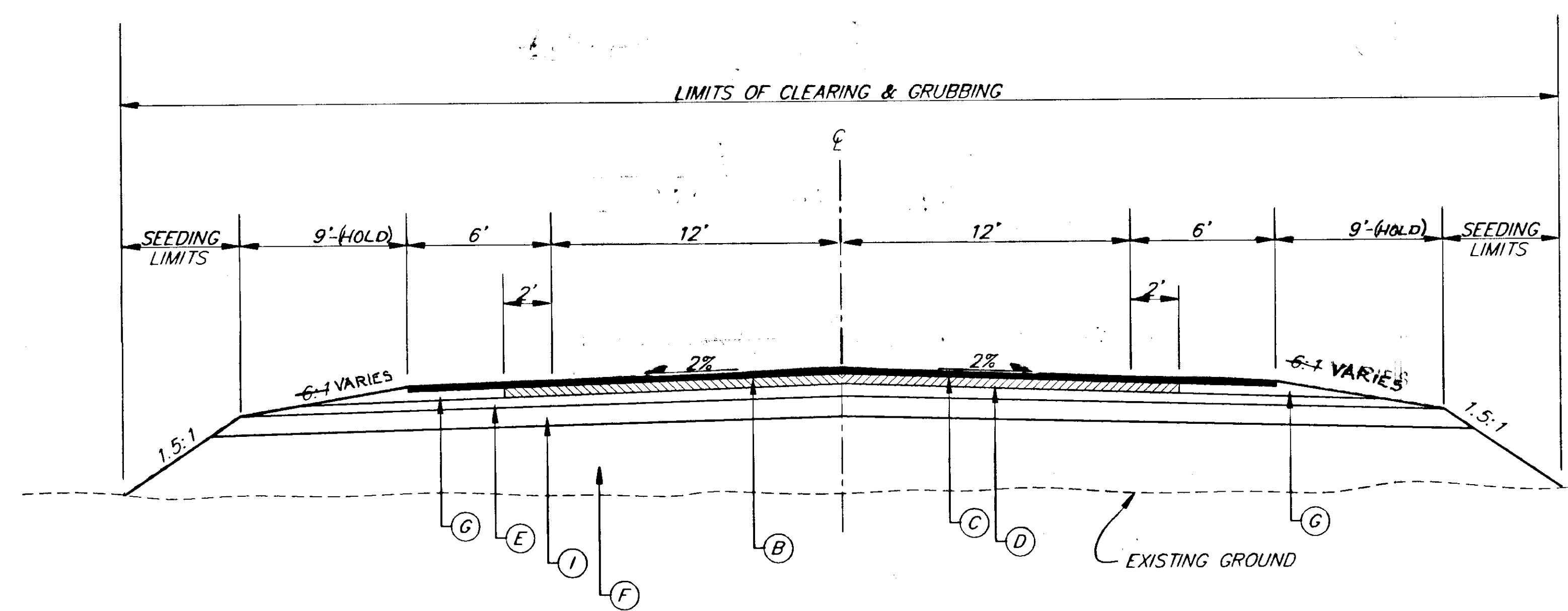
**CUT AND FILL TYPICAL EACH SIDE OF ROADWAY**

STA. 160+00.00 TO STA. 437+73.90  
 STA. 466+00.91 TO STA. 505+75.16

| LABELING INDEX |  |
|----------------|--|
| (A)            | EXISTING PAVEMENT TO BE REMOVED. SEE NOTE 4. |
| (B)            | 2" ASPHALT CONCRETE, TYPE II, CLASS "B".     |
| (C)            | STE-1 ASPHALT FOR TACK COAT                  |
| (D)            | 4" ASPHALT TREATED BASE COURSE, 2- 2" LIFTS. |
| (E)            | 12" SUBBASE GRADING "C"                      |
| (F)            | EMBANKMENT                                   |
| (G)            | CRUSHED AGGREGATE BASE COURSE                |
| (H)            | UNCLASSIFIED EXCAVATION                      |
| (I)            | 18" EMBANKMENT, TYPE "A"                     |



**CUT TYPICAL IN NEW CONSTRUCTION AREAS**



**FILL TYPICAL SECTION IN NEW CONSTRUCTION AREAS**

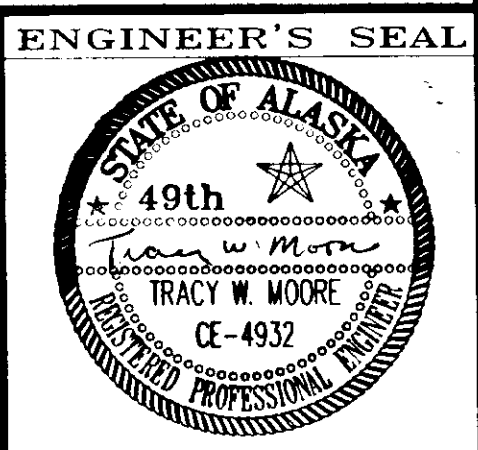
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|---------------------|-----------------------------|------------------------|
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| BY:                 | DATE:                       | DESCRIPTION OF CHANGE: |
|                     |                             |                        |

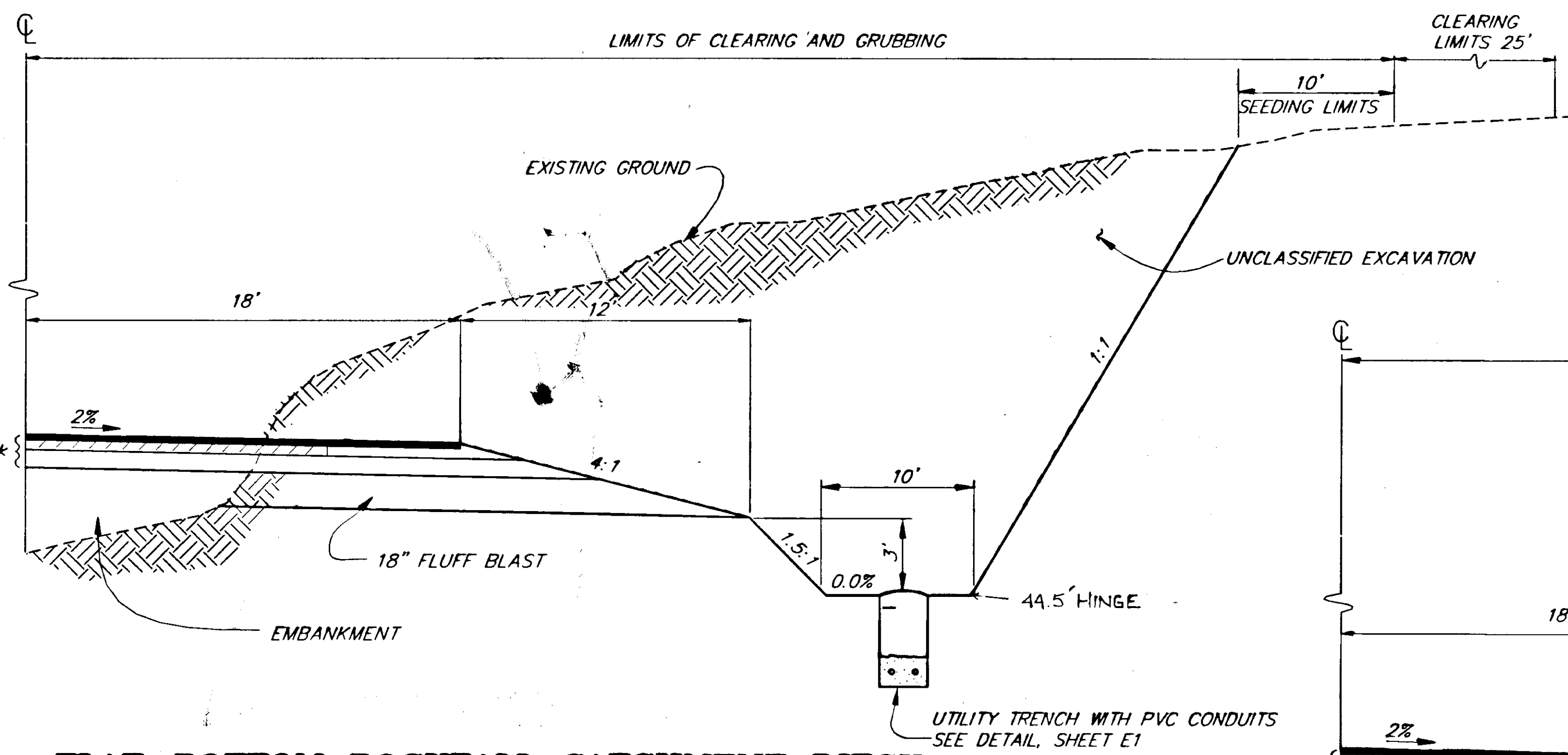
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 ALASKA  
**TYPICAL SECTION OF IMPROVEMENT**

|              |           |             |       |
|--------------|-----------|-------------|-------|
| DESIGNED BY: | C. HAKARI | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK | DATE:       | 1998  |
| CHECKED BY:  | T. MOORE  | SHEET       | B1    |

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

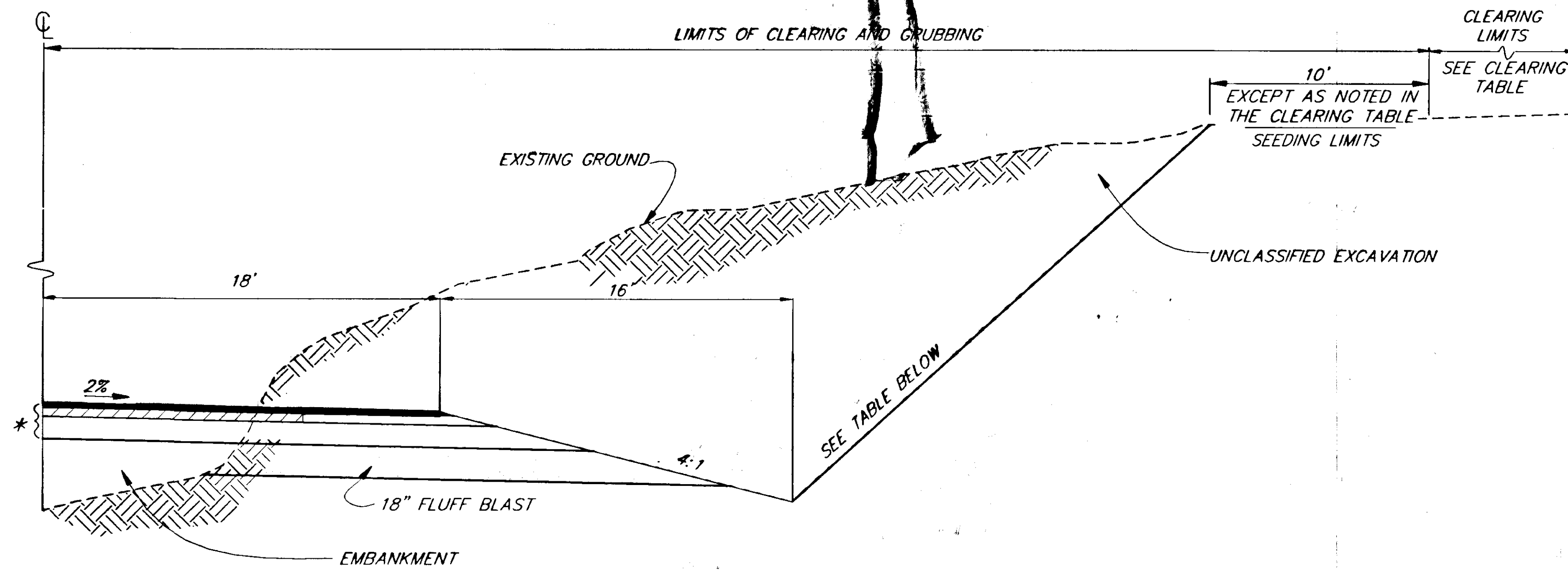




**FLAT-BOTTOM ROCKFALL CATCHMENT DITCH**

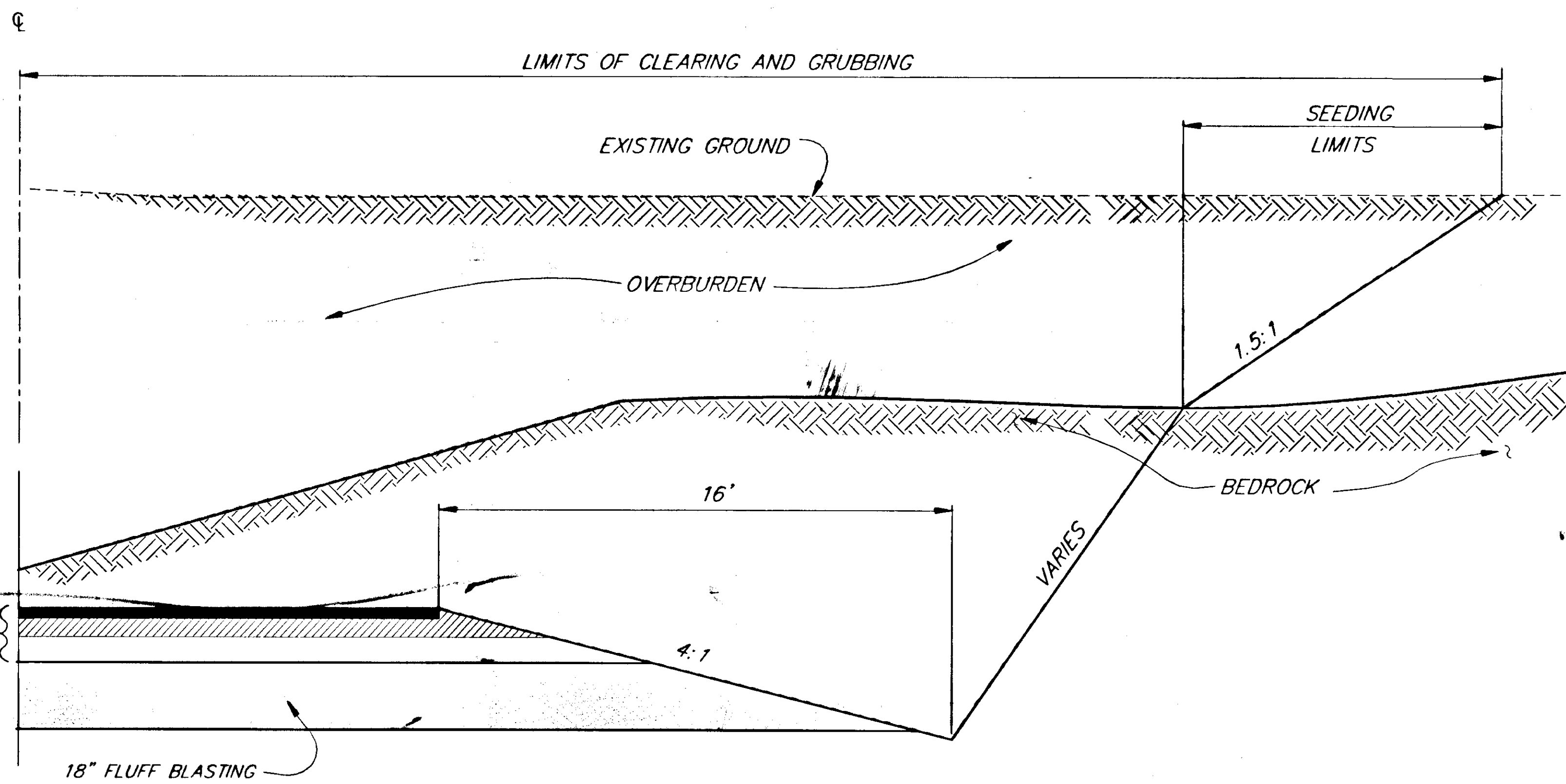
STA. 472+00, RT. TO STA. 475+00, RT.  
471+50 476+00

\* STRUCTURAL SECTION



**TYPICAL ROCKFALL CATCHMENT DITCH**

TYPICAL EACH SIDE OF ROADWAY



**FLUFF BLASTING AND ROCKCUT WITH OVERBURDEN TYPICAL**

| ROCKFALL DITCH BACKSLOPES |                  |
|---------------------------|------------------|
| STATION TO STATION        | DITCH BACK SLOPE |
| 173+75 TO 180+25          | 0.80:1           |
| 186+50 TO 191+00          | 0.75:1           |
| 198+75 TO 212+75          | 0.84:1 1.5:1     |
| 233+00 TO 236+25          | 0.75:1           |
| 237+50 TO 265+00 254+00   | 0.84:1 .85:1     |
| 254+50 TO 265+00          | 0.58:1 .85:1     |
| 289+25 TO 292+75          | 0.70:1 .75:1     |
| 303+00 TO 310+00          | 0.84:1 .75:1     |
| 325+50 TO 328+25          | 0.75:1           |
| 375+50 TO 379+00          | 0.70:1 .75:1     |
| 415+00 TO 418+00          | 0.50:1 .75:1     |
| 432+00 TO 433+00          | 0.70:1           |
| 471+00 TO 481+00          | 1.50:1           |

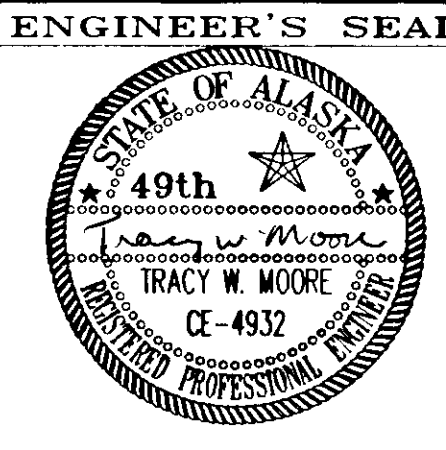
| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

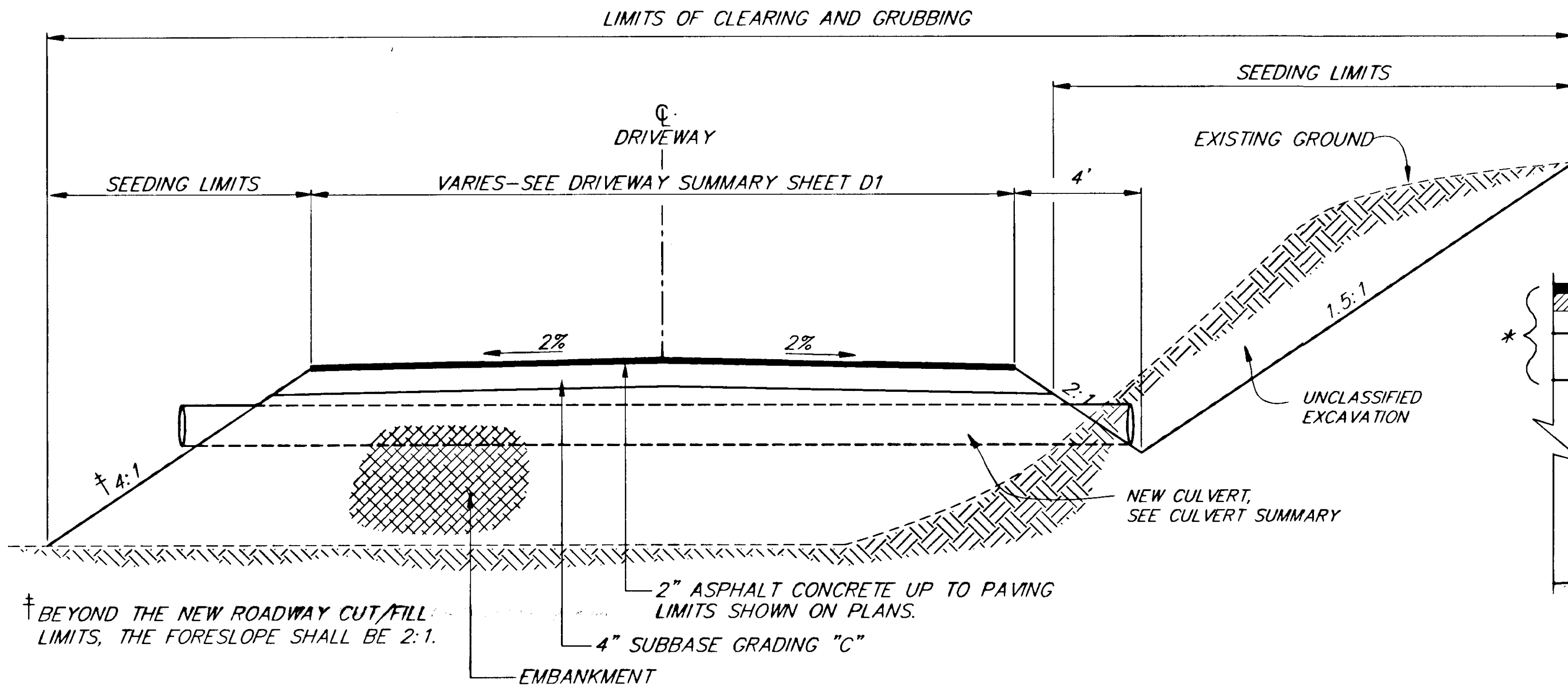
STATE OF ALASKA  
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SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**TYPICAL ROCK SECTIONS**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

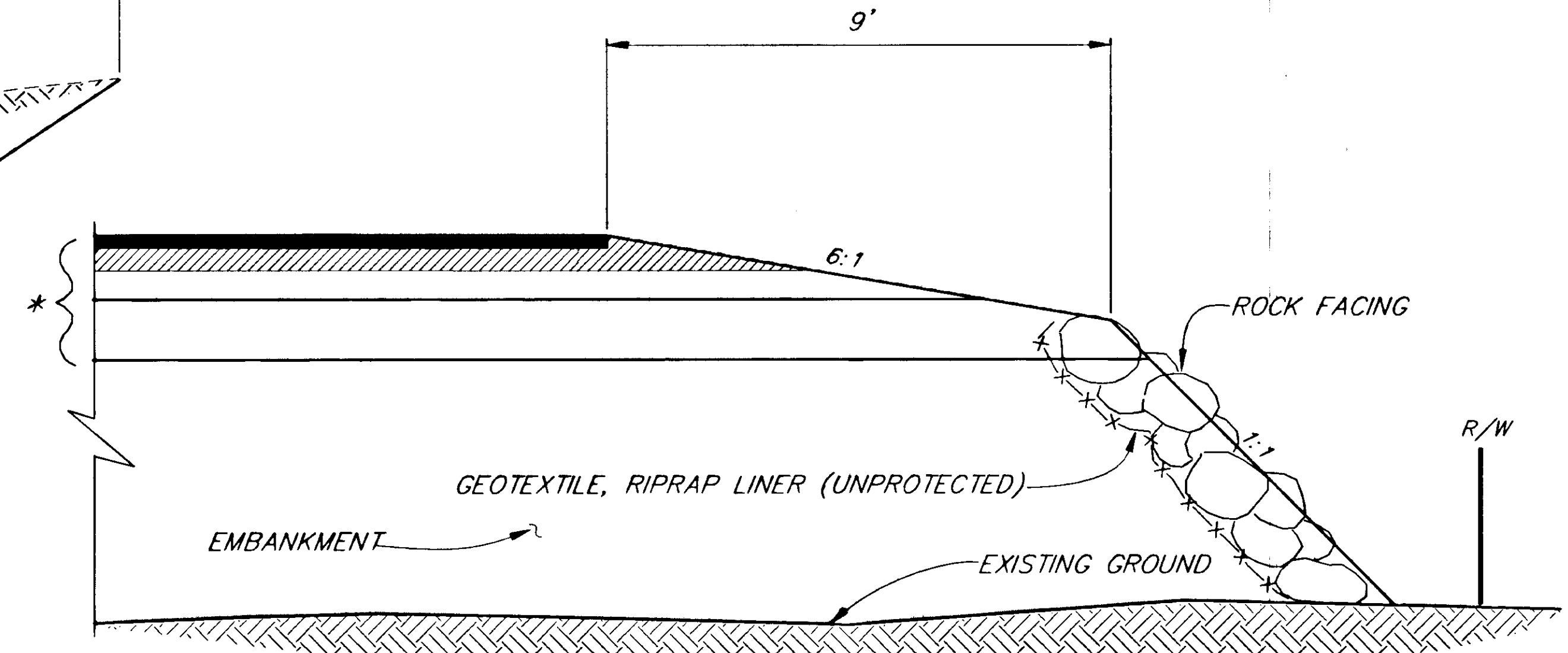
|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>C. ANDERSON  | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET B2             |





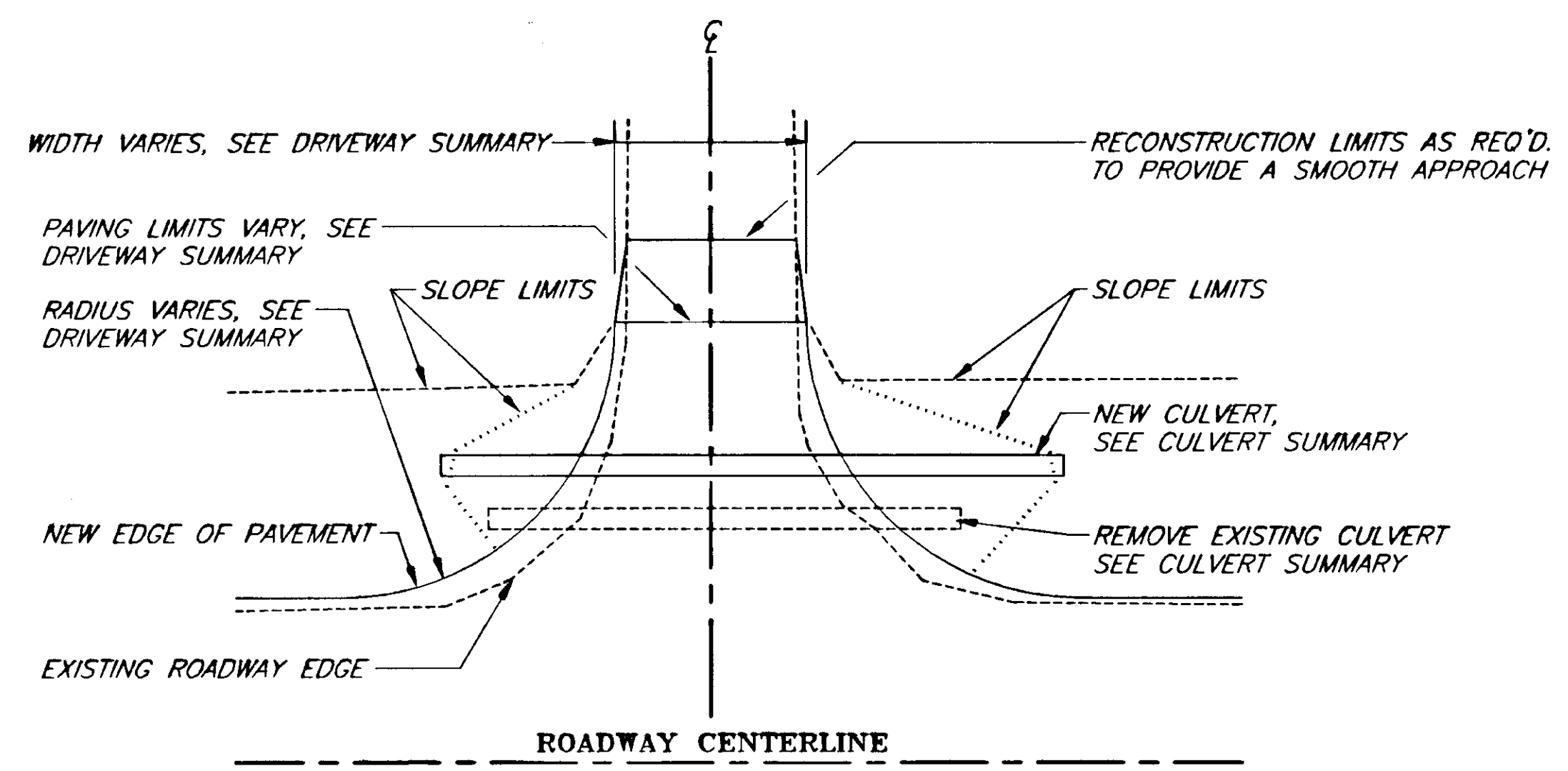
**DRIVEWAY TYPICAL SECTION**

\* STRUCTURAL SECTION



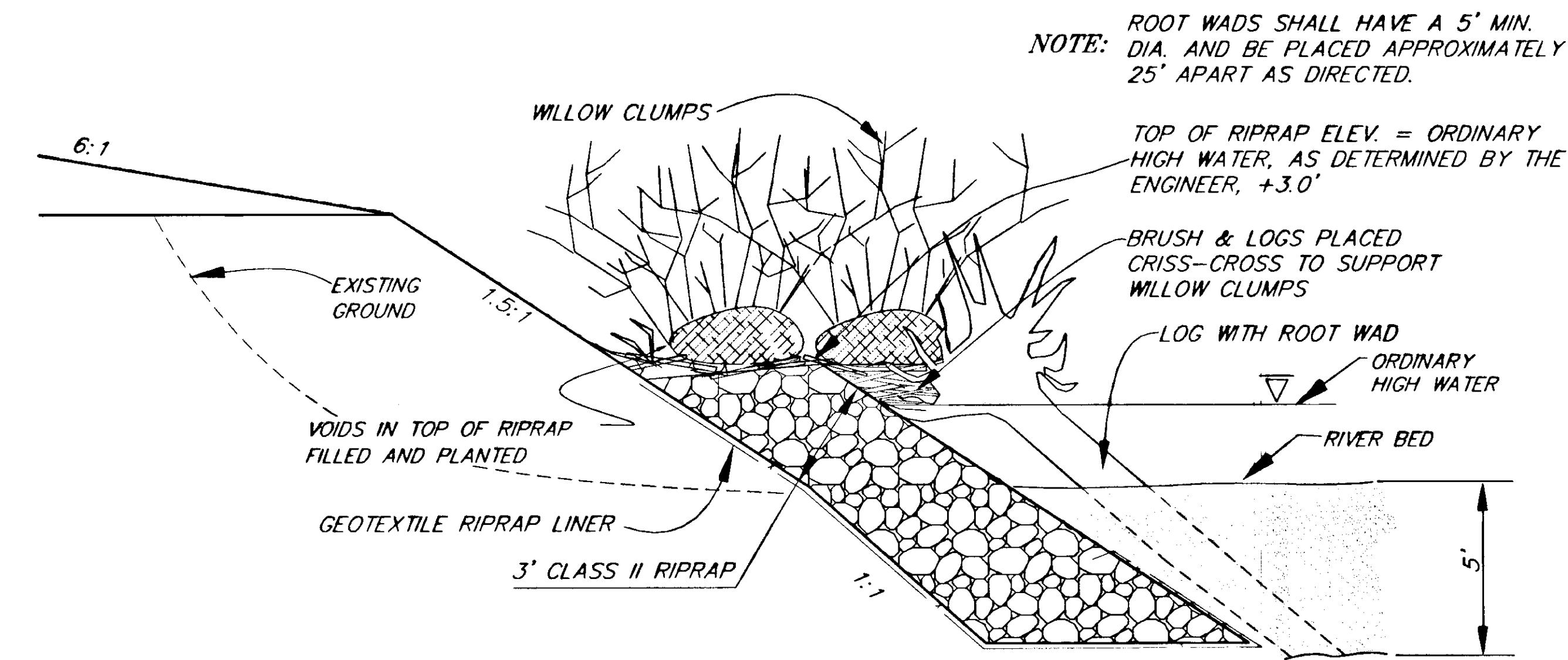
**ROCK FACING DETAIL**  
**STA. 369+00, RT. TO STA. 369+60, RT.**

NOTES:  
 ROCK FACING STONES SHALL HAVE A LEAST DIMENSION RANGING BETWEEN 18" AND 24".



**PLAN**

**APPROACH DRIVEWAY & DETAIL**



**RIPRAP WITH VEGETATION/STRUCTURE TYPICAL**

STA. 180+00, LT. TO STA. 186+00, LT.  
 STA. 191+25, LT. TO STA. 198+00, LT.  
 STA. 341+00, LT. TO STA. 344+00, LT.

NOTE: ROOT WADS SHALL HAVE A 5' MIN. DIA. AND BE PLACED APPROXIMATELY 25' APART AS DIRECTED.

TOP OF RIPRAP ELEV. = ORDINARY HIGH WATER, AS DETERMINED BY THE ENGINEER, +3.0'

BRUSH & LOGS PLACED CRISS-CROSS TO SUPPORT WILLOW CLUMPS

LOG WITH ROOT WAD

ORDINARY HIGH WATER

RIVER BED

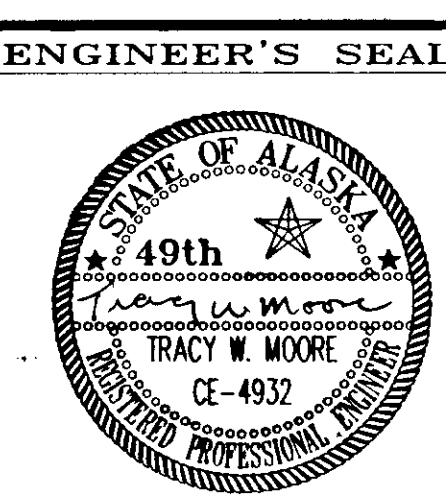
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

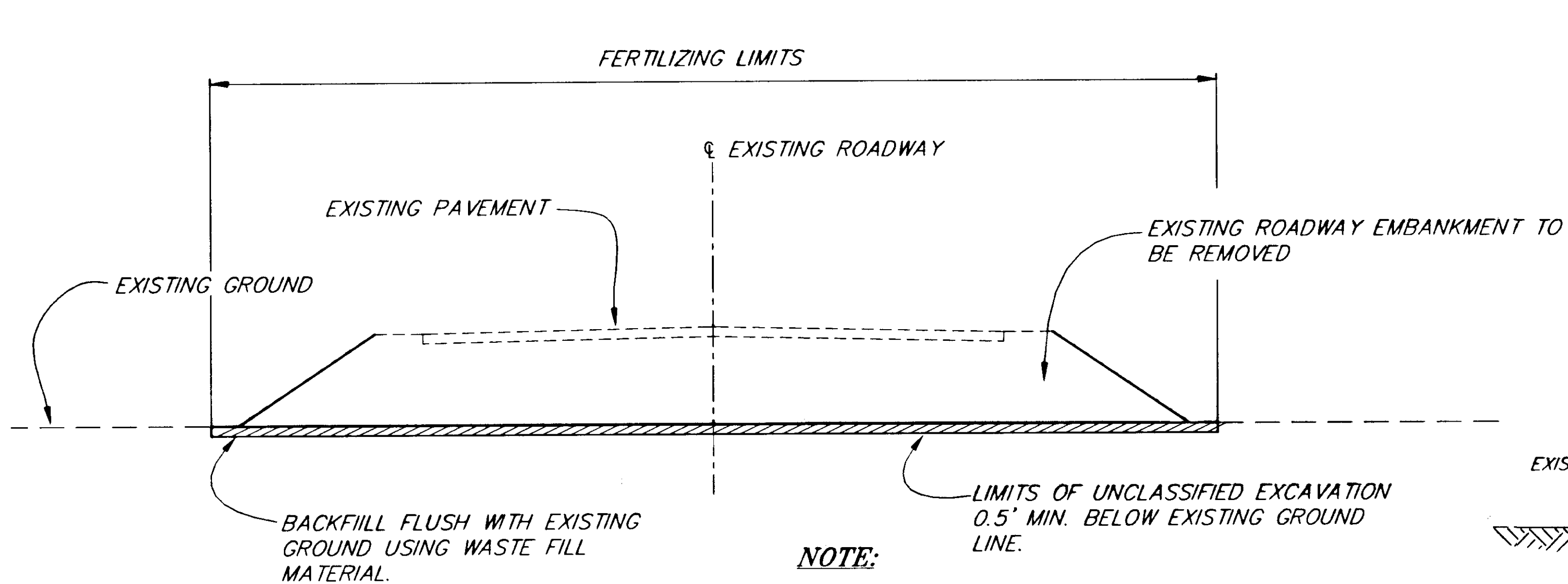
| PATH:                   | DATE: | DESCRIPTION OF CHANGE: |
|-------------------------|-------|------------------------|
| P: \HNS\67436\DR\ -typ2 | 1=1   |                        |
|                         |       |                        |
|                         |       |                        |
|                         |       |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**MISC. TYPICAL SECTIONS**

|              |             |             |       |
|--------------|-------------|-------------|-------|
| DESIGNED BY: | C. HAKARI   | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON | DATE:       | 1998  |
| CHECKED BY:  | T. MOORE    | SHEET       | B3    |

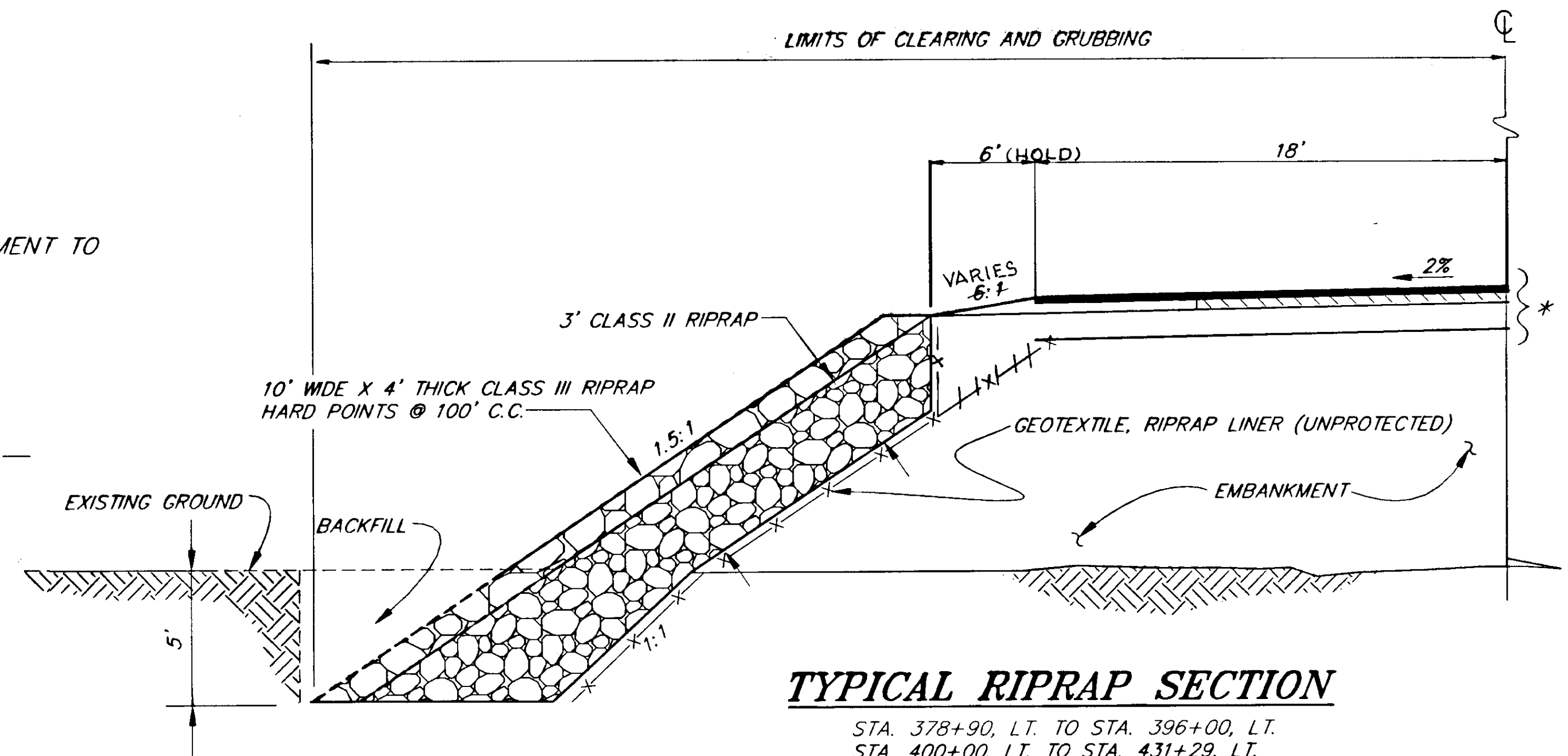




**NOTE:**  
SEE SECTION 646 OF THE SPECIFICATIONS FOR WETLANDS CREATION REQUIREMENTS.

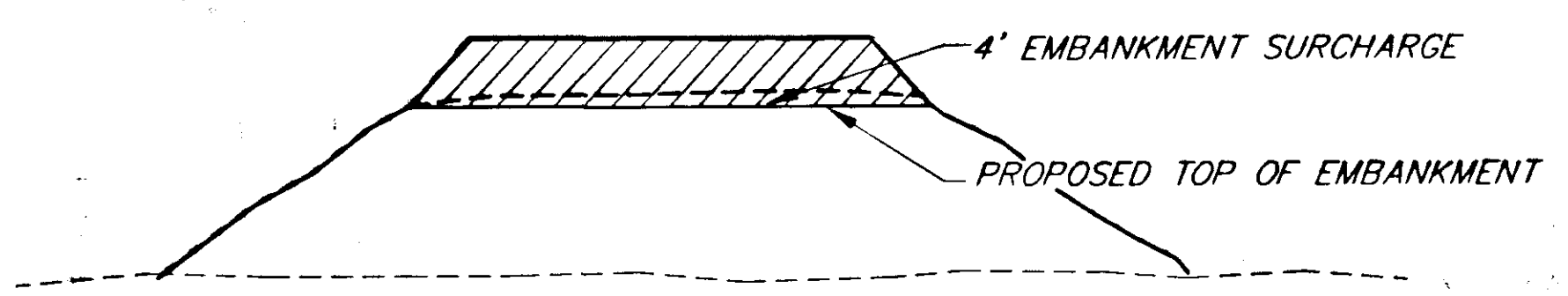
**WETLANDS CREATION AREA TYPICAL**

- STA. 216+75, RT. TO STA. 220+00, RT. (REQUIRES REMOVAL OF EXISTING ROADWAY EMBANKMENT)
- STA. 395+00, RT. TO STA. 399+00, RT. (OLD RIVER FLOOD PLAIN)
- STA. 396+00, RT. TO STA. 414+00, RT. (REQUIRES REMOVAL OF EXISTING ROADWAY EMBANKMENT)
- STA. 419+00, RT. TO STA. 428+00, RT. (REQUIRES REMOVAL OF EXISTING ROADWAY EMBANKMENT)
- STA. 413+30 LT., TO STA. 414+20 LT. (STREAM CHANNEL FILL)



**TYPICAL RIPRAP SECTION**

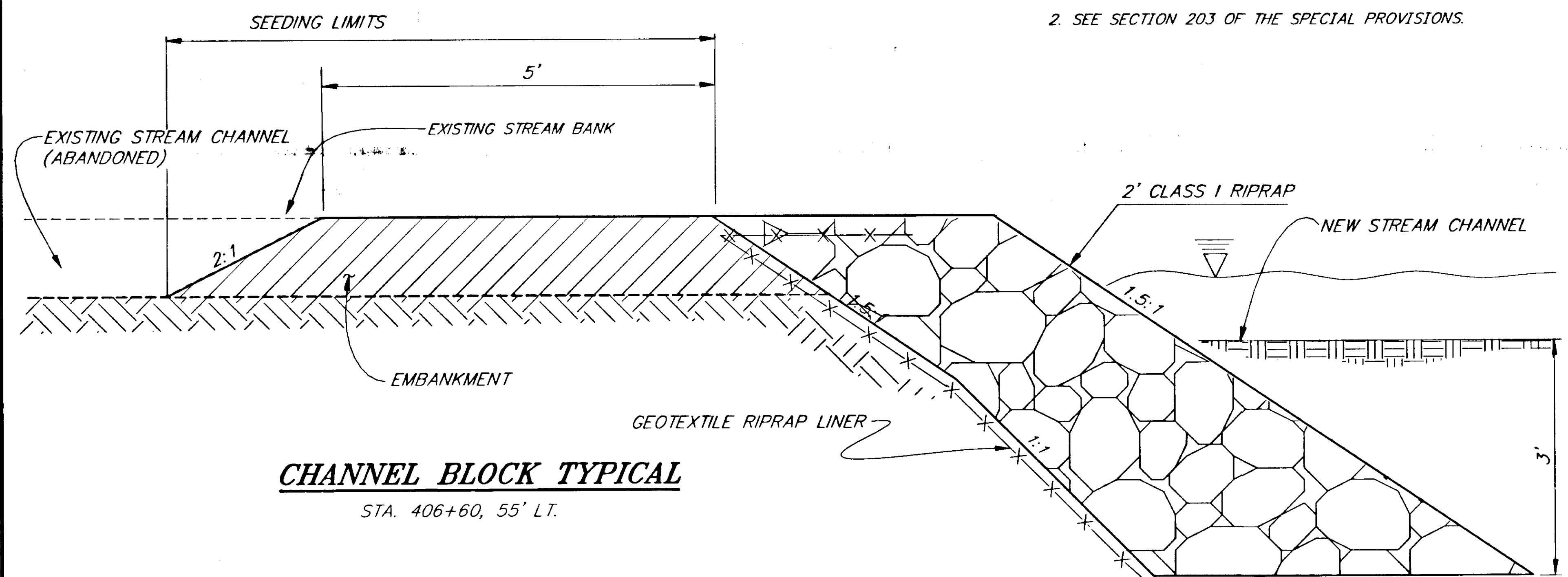
STA. 378+90, LT. TO STA. 396+00, LT.  
STA. 400+00, LT. TO STA. 431+29, LT.



**SURCHARGE DETAIL**

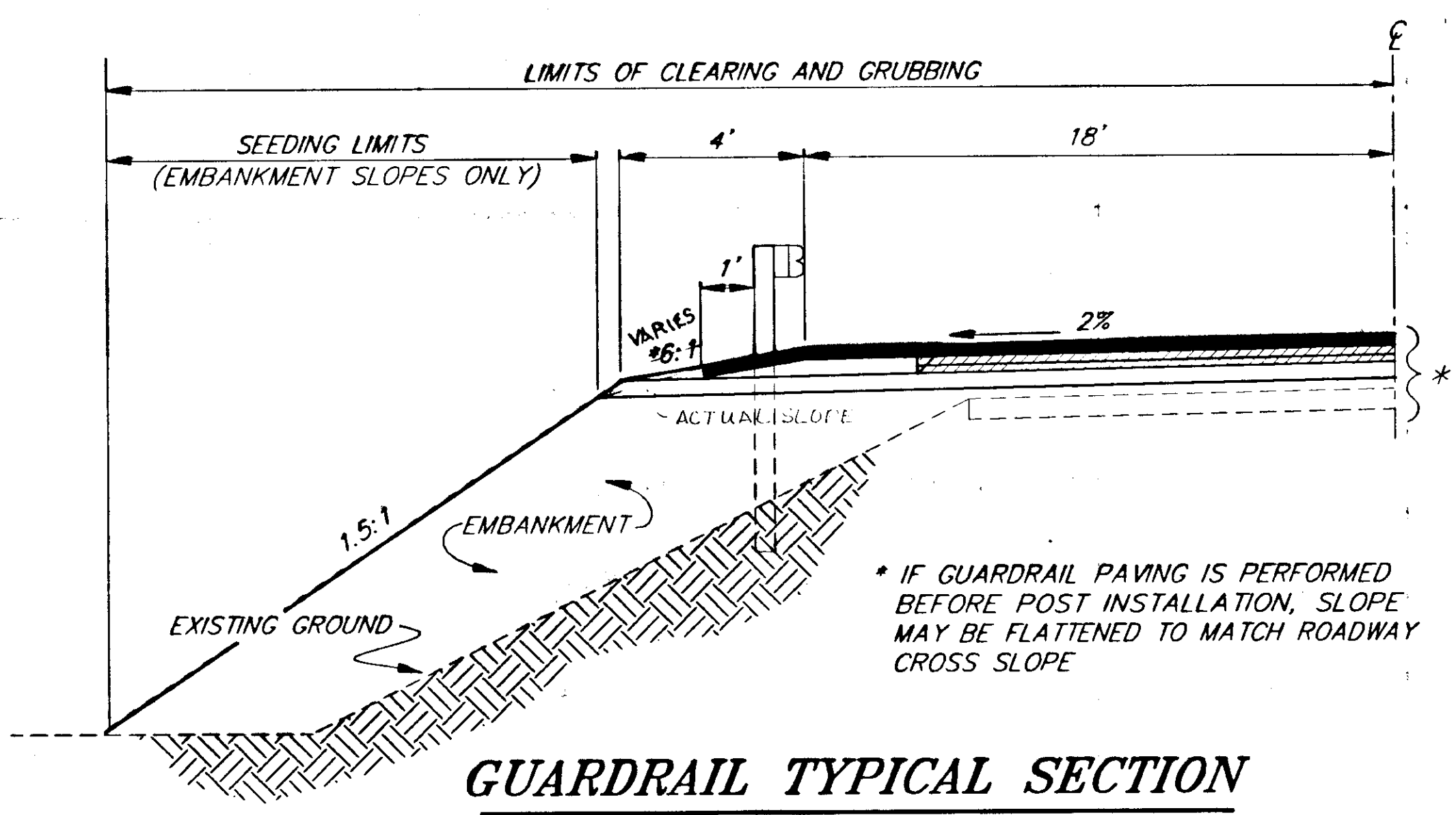
- NOTES: STA. 214+00 TO STA. 223+00
1. SURCHARGE TO BE LEFT IN PLACE FOR A PERIOD OF AT LEAST 120 DAYS.
  2. SEE SECTION 203 OF THE SPECIAL PROVISIONS.

\* STRUCTURAL SECTION



**CHANNEL BLOCK TYPICAL**

STA. 406+60, 55' LT.



**GUARDRAIL TYPICAL SECTION**

SEE GUARDRAIL SUMMARY, SHEET D1 FOR LOCATIONS & E-3

\* IF GUARDRAIL PAVING IS PERFORMED BEFORE POST INSTALLATION, SLOPE MAY BE FLATTENED TO MATCH ROADWAY CROSS SLOPE

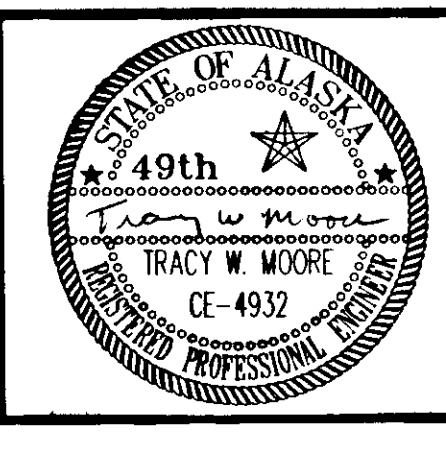
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

|   |       |                        |
|---|-------|------------------------|
| PATH: P:\HNS\67436\DR\TYP2 1=1 (1=2 HALFSIZE) |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |
|   |       |                        |
| <b>RECORD OF REVISIONS</b>                    |       |                        |

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

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**MISC. TYPICAL SECTIONS**

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>C. ANDERSON  | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | <b>SHEET B4</b>      |





### GENERAL NOTES

1. VERTICAL AND HORIZONTAL ALIGNMENTS SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS.
2. PIPE LENGTHS AND LOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO ADJUSTMENTS.
3. THE SUPERELEVATION SHALL BE REVOLVED ABOUT THE CENTERLINE. THE RATE OF SUPERELEVATION AND OTHER SUPERELEVATION DETAILS ARE SHOWN ON THE PLAN AND PROFILE SHEETS.
4. THE EXISTING ASPHALT IS APPROXIMATELY 26 FEET WIDE AND IS BETWEEN 3 AND 5 INCHES THICK. ALL REMOVED PAVEMENT SHALL BE EITHER STOCKPILED AT THE APPROVED STOCKPILE AREA NORTH OF BIG BOULDER CREEK, AND/OR CRUSHED FOR USE IN ASPHALT TREATED BASE IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS.
5. SAWCUT THE EXISTING PAVEMENT AT STA. 158+00.00, STA. 437+73.90, STA. 466+00.91, AND STA. 505+75.16 TO PROVIDE A SMOOTH MATCH JOINT. SEE MATCH JOINT DETAILS, SHEET E1.
6. BETWEEN STA. 214+00 AND STA. 223+000, AND BETWEEN STA. 310+00 AND STA. 351+00, SHOT ROCK EMBANKMENT SHALL BE PLACED TO AN ELEVATION EQUAL TO THE ORDINARY HIGH WATER ELEVATION, AS DETERMINED BY THE ENGINEER, PLUS 3.0'.

#### SLOPE TABLE

| LEFT      |        | RIGHT              |           |
|-----------|--------|--------------------|-----------|
| BACKSLOPE | FILL   | STATION TO STATION | BACKSLOPE |
|           | 1.5:1  | 160+00 TO 161+00   | 1.5:1     |
|           | 1.5:1  | 162+00 TO 173+00   | 1.5:1     |
|           | 1.5:1  | 174+00             | 0.80:1    |
| 1.5:1     |        | 175+00 TO 180+00   | 0.80:1    |
|           | 1.5:1  | 181+00 TO 182+00   | 1.5:1     |
|           | 1.5:1  | 183+00 TO 184+00   | 1.5:1     |
|           | 1.5:1  | 185+00 TO 186+00   | 1.5:1     |
| 2:1       |        | 187+00 TO 191+00   | 0.75:1    |
|           | 1.5:1  | 192+00             | 1.5:1     |
|           | 1.5:1  | 193+00 TO 198+00   | 1.5:1     |
|           | 1.5:1  | 199+00 TO 201+00   | 1.5:1     |
| 1.5:1     |        | 202+00             | 0.84:1    |
|           | 1.5:1  | 203+00 TO 204+00   | 0.84:1    |
|           | 1.5:1  | 205+00 TO 212+00   | 0.84:1    |
|           | 1.5:1  | 213+00 TO 225+00   | 1.5:1     |
| 1.5:1     |        | 226+00 TO 227+00   | 0.75:1    |
|           | 1.25:1 | 228+00 TO 230+00   | 0.75:1    |
|           | 1.5:1  | 231+00 TO 233+00   | 1.5:1     |
|           | 1.5:1  | 234+00 TO 236+00   | 0.75:1    |
| 1.5:1     |        | 237+00             | 1.5:1     |
| 1.5:1     |        | 238+00 TO 250+00   | 0.84:1    |
| 1.5:1     |        | 251+00 TO 255+00   | 0.58:1    |
|           | 1.5:1  | 256+00             | 0.58:1    |
| WARP      | ±±     | 257+00             | 0.58:1    |
|           | 1.5:1  | 258+00 TO 263+00   | 0.58:1    |
| 1.5:1     | 1.25:1 | 264+00             | 1.5:1     |
| 1.5:1     | 1.25:1 | 265+00             | 0.58:1    |
| 1.5:1     | 1.25:1 | 266+00 TO 267+00   | 6:1       |
| 1.5:1     | 1.25:1 | 268+00             | 1.5:1     |
|           | 1.5:1  | 269+00 TO 273+00   | 1.5:1     |
|           | 1.5:1  | 274+00 TO 289+00   | 1.5:1     |
| 4:1       |        | 291+00 TO 293+00   | 0.75:1    |
|           | 3:1    | 294+00             | 0.75:1    |
|           | 1.5:1  | 295+00 TO 296+00   | 1.5:1     |
|           | 1.5:1  | 297+00 TO 298+00   | 1.5:1     |
|           | 1.5:1  | 299+00 TO 303+00   | 1.5:1     |
| 1.5:1     |        | 304+00 TO 307+00   | 1.5:1     |
|           | 1.5:1  | 308+00 TO 309+00   | 1.5:1     |
|           | 1.5:1  | 310+00 TO 324+00   | 1.5:1     |
| 1.5:1     |        | 325+00             | 1.5:1     |
| 1.5:1     |        | 326+00 TO 328+00   | 0.75:1    |
|           | 1.5:1  | 329+00 TO 330+00   | 1.5:1     |
|           | 1.5:1  | 331+00 TO 353+00   | 1.5:1     |

#### SLOPE TABLE

| LEFT      |       | RIGHT               |                                       |
|-----------|-------|---------------------|---------------------------------------|
| BACKSLOPE | FILL  | STATION TO STATION  | BACKSLOPE                             |
|           | 1.5:1 | 354+00              | 1.5:1                                 |
| 1.5:1     |       | 355+00 TO 356+00    | 1.5:1                                 |
| DAYLIGHT  |       | 357+00 TO 363+00    | 1.5:1                                 |
|           | 1.5:1 | 363+50 TO 368+50    | 1.5:1                                 |
|           | 1.5:1 | 369+00 TO 369+60    | 1:1                                   |
|           | 1.5:1 | 370+00 TO 373+00    | 1.5:1                                 |
|           |       |                     | SEE ROCK FACING DETAIL, SHEET B3      |
| 4:1       |       | 373+50 TO 375+50    | 1.5:1                                 |
| 4:1       |       | 376+00 TO 378+00    | SEE ROCK W/OVERBURDEN DETAIL SHEET B2 |
|           | 1.5:1 | 378+50 TO 379+75    | 1.5:1                                 |
|           | 1.5:1 | 379+50 TO 415+00    | 1.5:1                                 |
|           | 1.5:1 | 415+50 TO 418+50    | SEE ROCK FALL DITCH DETAIL SHEET B2   |
|           | 1.5:1 | 419+00 TO 431+00    | 3:1                                   |
|           | 6:1   | 431+25 TO 434+25    | SEE ROCK FALL DITCH DETAIL SHEET B2   |
|           | 6:1   | 434+50 TO 437+73.90 | 6:1                                   |
|           |       | EXCEPTION AREA      |                                       |
|           | 6:1   | 466+00.91 TO 467+00 | 6:1                                   |
| 1.5:1     |       | 467+50 TO 469+50    | 1.5:1                                 |
|           | 1.5:1 | 470+00              | 1.5:1                                 |
| 1.5:1     |       | 471+00              | 1.5:1                                 |
| DAYLIGHT  |       | 472+00 TO 476+50    | SEE ROCK FALL DITCH DETAIL SHEET B2   |
| DAYLIGHT  |       | 477+00 TO 480+50    | 1.5:1                                 |
|           | 1.5:1 | 481+00 TO 481+50    | 1.5:1                                 |
|           | 1.5:1 | 482+00 TO 505+75    | 1.5:1                                 |

#### CLEARING TABLE

| LEFT - BEYOND GRUBBING LIMITS               | STATION TO STATION | RIGHT - BEYOND GRUBBING LIMITS              |
|---|--------------------|---|
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 160+00 TO 174+00   | 25'   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 174+00 TO 180+00   | 0   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 180+00 TO 214+00   | 25'   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 214+00 TO 225+00   | NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS |
| 0   | 225+00 TO 234+00   | 25'   |
| 25'   | 234+00 TO 258+00   | 25'   |
| 0   | 258+00 TO 264+00   | 0   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 264+00 TO 272+00   | 0   |
| 0   | 272+00 TO 289+00   | 0   |
| 25'   | 289+00 TO 294+00   | 25'   |
| 0   | 294+00 TO 295+00   | 0   |
| 0   | 295+00 TO 296+50   | NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS |
| 0   | 296+50 TO 299+00   | 0   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 299+00 TO 304+00   | 0   |
| 0   | 304+00 TO 307+00   | 0   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 307+00 TO 324+00   | 0   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 324+00 TO 329+00   | 25'   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 329+00 TO 353+00   | 0   |
| 25'   | 353+00 TO 359+50   | 25'   |
| 25'   | 359+50 TO 363+00   | 0   |
| 0   | 363+00 TO 367+50   | 0   |
| 0   | 367+50 TO 372+75   | NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS |
| 25'   | 372+75 TO 377+50   | 25'   |
| 25'   | 377+50 TO 378+50   | NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 378+50 TO 410+00   | NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 410+00 TO 436+25   | 25'   |
|   | EXCEPTION          |   |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 466+00 TO 471+00   | 25'   |
| 0   | 471+00 TO 481+00   | 25'   |
| 25'   | 481+00 TO 489+50   | NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS |
| NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS | 489+50 TO 506+00   | NO CLEARING OR GRUBBING BEYOND SLOPE LIMITS |

|                     |                            |                        |
|---------------------|----------------------------|------------------------|
| PATH:               | P:\HNS\67436\DR\ -TYP2 1=4 |                        |
| BY:                 | DATE:                      | DESCRIPTION OF CHANGE: |
| RECORD OF REVISIONS |                            |                        |

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

HAINES

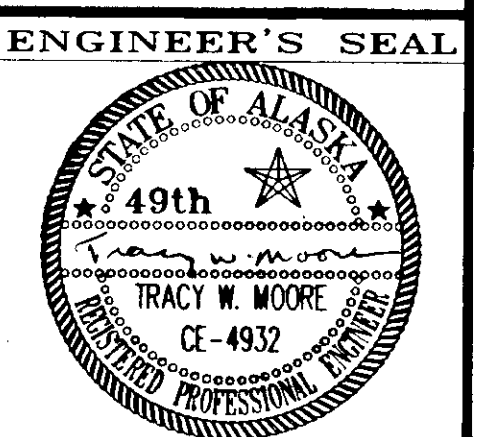
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**SLOPE AND CLEARING TABLES**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ALASKA

DESIGNED BY:  
C. HAKARI  
DRAWN BY:  
W. HICKOK  
CHECKED BY:  
T. MOORE

PROJECT NO.  
71483  
DATE:  
1998  
SHEET B5



# ESTIMATE OF QUANTITIES

| ITEM NO.   | PAY ITEM   | UNIT | QUANT.     |
|------------|--|------|------------|
| 120(1)     | DBE ADJUSTMENT   | CS   | ALL REQ'D. |
| 201(1A)    | CLEARING   | ACRE | -12        |
| 201(3A)    | CLEARING AND GRUBBING  | ACRE | -41        |
| 201(6)     | SELECTIVE TREE REMOVAL                                       | EACH | -100       |
| 202(1)     | REMOVAL OF STRUCTURES AND OBSTRUCTIONS                       | LS   | ALL REQ'D. |
| 202(2)     | REMOVAL OF PAVEMENT  | SY   | -92,200    |
| 202(4)     | REMOVAL OF CULVERT PIPE                                      | LF   | -939       |
| 202(10)    | SINGLE MAILBOX INSTALLATION                                  | EACH | -4         |
| 203(3)     | UNCLASSIFIED EXCAVATION                                      | CY   | -511,700   |
| 203(9)     | OBLITERATION OF ROADWAY                                      | STA  | -35        |
| 203(11)    | EMBANKMENT   | CY   | -506,700   |
| 203(12)    | CONTROLLED BLASTING  | SY   | -63,000    |
| 203(14)    | ROCK DOWELS  | EACH | -30        |
| 203(15)    | ROCK SLOPE DRAIN HOLES                                       | EACH | -430       |
| 203(16)    | ROCK BOLTS   | LF   | -200       |
| 203(17)    | PRE-BLAST SURVEYS  | EACH | -4         |
| 301(1)     | CRUSHED AGGREGATE BASE COURSE                                | TON  | -11,400    |
| 304(2)     | SUBBASE, GRADING "C" DELETED CO # 2                          | CY   | -60,200    |
| 306(1)     | ASPHALT TREATED BASE COURSE                                  | TON  | -24,400    |
| 401(1)     | ASPHALT CONCRETE, TYPE II CLASS B                            | TON  | -16,900    |
| 401(2)     | ASPHALT CEMENT, PG 52-28                                     | TON  | -1014      |
| 402(2)     | STE-1 ASPHALT FOR TACK COAT                                  | TON  | -58        |
| 501(1)     | CLASS "A" CONCRETE   | LS   | ALL REQ'D. |
| 502(1)     | PRESTRESSED CONCRETE STRUCTURAL MEMBERS (57'-10 1/2" BULB-7) | EACH | 6          |
| 503(2)     | EPOXY COATED REINFORCING STEEL                               | LS   | ALL REQ'D. |
| 505(12)    | TAPERED STEEL PILES, FURNISHED DELETED CO #1                 | LF   | -636       |
| 505(13)    | TAPERED STEEL PILES, DRIVEN DELETED CO #1                    | EACH | -12        |
| 507(1)     | METAL BRIDGE RAILING   | LF   | 120        |
| 508(1)     | MEMBRANE WATERPROOFING                                       | LS   | ALL REQ'D. |
| 509(1)     | HEADWALLS  | LS   | ALL REQ'D. |
| 510(1)     | ROCK FACING  | SF   | 800        |
| 603(17)    | 14'-11" x 11'-2" ELLIPSE PIPE                                | LF   | 180        |
| 603(17-18) | 18 INCH PIPE   | LF   | -400       |
| 603(17-24) | 24 INCH PIPE   | LF   | -1,100     |
| 603(17-36) | 36 INCH PIPE   | LF   | -422       |
| 603(17-48) | 48 INCH PIPE   | LF   | -162       |
| 603(17-60) | 60 INCH PIPE   | LF   | -206       |
| 603(25)    | ROAD DRAIN   | SY   | -100       |
| 603(26)    | SPRING INTERCEPTOR   | SY   | -100       |
| 606(1)     | W-BEAM GUARDRAIL   | LF   | -20,475    |
| 606(2)     | THREE BEAM GUARDRAIL   | LF   | 75         |
| 606(5)     | REMOVAL AND DISPOSAL OF GUARDRAIL                            | LF   | -9,791     |
| 606(10)    | SLOTTED RAIL TERMINAL (SRT-350)                              | EACH | 28         |
| 611(1A)    | RIPRAP, CLASS I  | CY   | -200       |
| 611(1B)    | RIPRAP, CLASS II   | CY   | -24,000    |
| 611(1C)    | RIPRAP, CLASS III  | CY   | -2,300     |
| 614(1)     | SURVEY MONUMENTS   | EACH | 33         |
| 614(2)     | MONUMENT CASES   | EACH | 33         |

# ESTIMATE OF QUANTITIES

| ITEM NO. | PAY ITEM                                     | UNIT       | QUANT.     |
|----------|--|------------|------------|
| 615(1)   | STANDARD SIGNS                               | SF         | 3648       |
| 615(2)   | REMOVE & RELOCATE EXISTING SIGNS             | EACH       | 6          |
| 618(1)   | SEEDING                                      | ACRE       | 41,368     |
| 618(3)   | WATER FOR SEEDING                            | M. GAL     | 0          |
| 618(5)   | WETLANDS FERTILIZATION                       | ACRE       | 1.97       |
| 631(2)   | GEOTEXTILE, RIPRAP LINER (UNPROTECTED)       | SY         | 21,583     |
| 639(1)   | RESIDENCE DRIVEWAYS                          | EACH       | 36         |
| 640(1)   | MOBILIZATION AND DEMOBILIZATION              | LS         | ALL REQ'D. |
| 641(1)   | EROSION AND POLLUTION CONTROL ADMINISTRATION | LS         | ALL REQ'D. |
| 641(2)   | EROSION AND POLLUTION CONTROL                | CS         | ALL REQ'D. |
| 641(3)   | SILT FENCE                                   | LF         | 430        |
| 641(4)   | TEMPORARY CHECK DAM                          | EACH       | 38         |
| 641(5)   | SETTLING POOL                                | EACH       | 4          |
| 641(6)   | PRELIMINARY SEEDING                          | ACRE       | 2,926      |
| 641(7)   | SEDIMENT FILTER                              | EACH       | 24.0       |
| 642(1)   | CONSTRUCTION SURVEYING                       | LS         | ALL REQ'D. |
| 642(2)   | THREE PERSON SURVEY PARTY                    | HR         | 48.02      |
| 642(5)   | LAND BOUNDARY MONUMENT                       | EACH       | 3          |
| 643(2)   | TRAFFIC MAINTENANCE                          | LS         | ALL REQ'D. |
| 643(3)   | PERMANENT CONSTRUCTION SIGNS                 | LS         | ALL REQ'D. |
| 643(23)  | TRAFFIC PRICE ADJUSTMENT                     | CS         | ALL REQ'D. |
| 643(24)  | TEMPORARY BRIDGE                             | LS         | ALL REQ'D. |
| 643(27)  | TRAFFIC CONTROL DEVICES                      | CS         | ALL REQ'D. |
| 643(29)  | NEWSPAPER ADVERTISEMENTS                     | CS         | ALL REQ'D. |
| 644(2)   | FIELD LABORATORY                             | LS         | ALL REQ'D. |
| 644(6)   | ENGINEERING TRANSPORTATION                   | LS         | ALL REQ'D. |
| 645(1)   | TRAINING PROGRAM, 3-TRAINEES/APPRENTICES     | LABOR/HOUR | 1,500      |
| 646(1)   | STREAM CHANNEL CONSTRUCTION                  | CY         | 29,858.2   |
| 646(2)   | CHANNEL TREATMENT, TYPE "H"                  | EACH       | 13         |
| 646(3)   | CHANNEL TREATMENT, TYPE "I"                  | EACH       | 3          |
| 646(4)   | BRUSH CLUMPS                                 | EACH       | 290        |
| 646(5)   | ROOT WADS                                    | EACH       | 65         |
| 646(6)   | CHANNEL TREATMENT LOG WITH ROOT WAD          | EACH       | 44         |
| 646(7)   | CHANNEL TREATMENT LOG WITHOUT ROOT WAD       | EACH       | 32         |
| 646(8)   | WETLANDS CREATION                            | ACRE       | 2.78       |
| 646(9)   | WILLOW CUTTINGS                              | EACH       | 1,469      |
| 670(1)   | PAINTED TRAFFIC MARKINGS                     | LS         | ALL REQ'D. |
| 670(8)   | RECESSED PAVEMENT MARKERS DELETED C.O. # 7   | EACH       | -600       |
| 680(1)   | UTILITY CONDUIT INSTALLATION                 | LS         | ALL REQ'D. |

### NEW ITEMS ESTABLISHED BY CHANGE ORDER

|         |   |      |          |
|---------|---|------|----------|
| 203(18) | BUTTRESS EMBANKMENT CO # 7                | LS   | 1        |
| 203(19) | WEDGE FAILURE CO # 7                      | LS   | 1        |
| 301(3)  | CRUSHED AGGREGATE PRICE ADJUSTMENT CO # 4 | LS   | 1        |
| 304(4)  | SUBBASE GRADING, "B-2" CO # 2             | CY   | 56,094.4 |
| 401(3)  | ASPHALT PRICE ADJUSTMENT CO # 4           | LS   | 1        |
| 505(14) | STEEL PILES FURNISHED AND DRIVEN CO # 1   | LS   | 1        |
| 507(5)  | BRIDGE RAIL THICKNESS CHANGE CO # 3       | LS   | 1        |
| 606(11) | STOCKPILED GUARDRAIL COMPONENTS CO # 3    | LS   | 1        |
| 622(15) | ROADSIDE PARK CO # 5                      | LS   | 1        |
| 646(10) | WETLAND SOIL @ BOP CO # 6                 | CYVM | 3,450    |
| 646(11) | WETLAND SOIL @ EOP CO # 6                 | CY   | 11,399   |
| 646(12) | WETLAND EXCAVATION CO # 6                 | CY   | 11,399   |

# BASIS OF ESTIMATE

| ITEM                               | ITEM NO. | ESTIMATING FACTOR                                  |
|------------------------------------|----------|--|
| CRUSHED AGGREGATE BASE COURSE      | 301(1)   | 2.18 TONS/CUBIC YARD                               |
| SUBBASE GRADING "C"                | 304(2)   | 2.18 TONS/CUBIC YARD                               |
| ASPHALT TREATED BASE COURSE        | 306(1)   | 123 LBS./SQ. YD./ IN. OF DEPTH                     |
| ASPHALT CONCRETE, TYPE II, CLASS B | 401(1)   | 123 LBS./SQ. YD./ IN. OF DEPTH                     |
| ASPHALT, CEMENT GRADING 52-28      | 401(2)   | 6% OF ITEM NO. 401(1). SEE NOTE 1.                 |
| STE-1 ASPHALT FOR TACK COAT        | 402(2)   | 0.19 GAL PER SQ. YD.: 240 GAL./TON @ 60' F.<br>.05 |

NOTE 1: ASPHALT CEMENT, PG 52-28 FOR ITEM 306(1) IS INCIDENTAL TO ITEM 306(1). ASSUME AN ESTIMATING FACTOR OF 4.0% OF ITEM 306(1).

| DATE | DESCRIPTION OF CHANGE |
|------|-----------------------|
|      |                       |
|      |                       |
|      |                       |

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

HAINES

HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**ESTIMATE OF QUANTITIES**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ALASKA

DESIGNED BY: C. HAKARI  
DRAWN BY: W. HICKOK  
CHECKED BY: T.W. MOORE

PROJECT NO. 71483  
DATE: 1998  
SHEET C1

ENGINEER'S SEAL



| CENTERLINE MONUMENT SUMMARY |                 |          |
|-----------------------------|-----------------|----------|
| STATION                     | MONUMENT & CASE | REMARKS  |
| 166+16.81 PC                | X               |          |
| 177+46.13 PT                | X               |          |
| 182+92.21 PC                | X               |          |
| 201+02.63 PT                | X               |          |
| 209+02.29 PC                | X               |          |
| 217+68.30 PT                | X               |          |
| 222+34.89 PC                | X               |          |
| 232+13.03 PT                | X               |          |
| 250+94.46 PC                | X               |          |
| 264+20.61 PT                | X               |          |
| 264+85.01 PC                | X               |          |
| 276+15.57 PT                | X               |          |
| 289+11.88 PC                | X               |          |
| 301+44.77 PT                | X               |          |
| 304+76.11 PC                | X               |          |
| 314+81.31 PT                | X               |          |
| 323+45.07 PC                | X               |          |
| 332+50.47 PT                | X               |          |
| 337+62.08 PC                | X               |          |
| 343+37.77 PT                | X               |          |
| 347+76.73 PC                | X               |          |
| 361+31.98 PT. BK =          | X               | EQUATION |
| 361+38.49 POT AHD           | X               |          |
| 370+04.42 PC                | X               |          |
| 376+90.05 PT                | X               |          |
| 384+30.52 PC                | X               |          |
| 401+84.15 PT                | X               |          |
| 431+87.15 PC                | X               |          |
| 436+28.60 PT                | X               |          |
| 469+44.85 PC                | X               |          |
| 475+21.79 PT                | X               |          |
| 482+26.58 PC                | X               |          |
| 490+47.19 PT                | X               |          |
| 499+14.25 PC                | X               |          |

NOTES:

- MONUMENTS AND CASES ARE DETAILED ON STD. DWG M-16.01.
- TOPS OF THE MONUMENT CASES SHALL BE SET IN CONCRETE AS DETAILED ON SHT. E1.

| GUARDRAIL INSTALLATION SUMMARY |        |    |        |            |                      |         |
|--------------------------------|--------|----|--------|------------|----------------------|---------|
| *STATION TO STATION            | OFFSET |    | W-BEAM | THRIE BEAM | SRT-350 END SECTIONS | REMARKS |
|                                | LT     | RT |        |            |                      |         |
| 179+75 TO 185+75               |        |    |        |            |                      |         |
| 190+63 TO 198+63               |        |    |        |            |                      |         |
| 214+00 TO 224+87.5             |        |    |        |            |                      |         |
| RENO/PEER DR.                  |        |    |        |            |                      |         |
| TURNOUT                        |        |    |        |            |                      |         |
| 226+00 TO 246+12.5             |        |    |        |            |                      |         |
| 254+50 TO 261+75               |        |    |        |            |                      |         |
| 262+25 TO 272+00               |        |    |        |            |                      |         |
| 298+50 TO 323+62.5             |        |    |        |            |                      |         |
| 327+50 TO 354+25               |        |    |        |            |                      |         |
| 362+89 TO 363+45               |        |    |        |            |                      |         |
| 363+10 TO 363+66               |        |    |        |            |                      |         |
| 364+05 TO 364+62               |        |    |        |            |                      |         |
| 364+26 TO 364+82               |        |    |        |            |                      |         |
| DELETED                        |        |    |        |            |                      |         |
| DELETED                        |        |    |        |            |                      |         |
| DELETED                        |        |    |        |            |                      |         |
| 505+16.5 TO 505+53.8           |        |    |        |            |                      |         |
| 485+90 TO 499+02.5             |        |    |        |            |                      |         |
| 488+50 TO 504+25               |        |    |        |            |                      |         |
| 506+74                         |        |    |        |            |                      |         |
| 506+74                         |        |    |        |            |                      |         |
| 499+60 TO 505+53.8             |        |    |        |            |                      |         |
| MARQUARDT DR.                  |        |    |        |            |                      |         |
| TOTALS                         |        |    |        |            |                      |         |

\* INCLUDES END SECTIONS AND THRIE BEAM. 14,681.25

| REMOVAL AND DISPOSAL OF GUARDRAIL |        |   |
|-----------------------------------|--------|---|
| STATION                           | LENGTH | REMARKS   |
| 175+48 LT. TO 185+36 RT.          | 988'   |   |
| 188+76 LT. TO 194+63 RT.          | 587'   |   |
| 223+82 RT. TO 269+16 RT.          | 4,534' |   |
| 304+93 LT. TO 319+88 RT.          | 1,495' |   |
| 340+81 RT. TO 347+53 LT.          | 672'   |   |
| 362+85 RT. TO 363+62 RT.          | 77'    | MUNCASTER CR. BRIDGE                              |
| 363+32 LT. TO 363+82 LT.          | 50'    | MUNCASTER CR. BRIDGE                              |
| 364+00 RT. TO 364+38 RT.          | 38'    | MUNCASTER CR. BRIDGE                              |
| 364+21 LT. TO 364+98 LT.          | 77'    | MUNCASTER CR. BRIDGE                              |
| 381+69 RT. TO 384+89 RT.          | 320'   |   |
| 387+86 RT. TO 391+42 RT.          | 356'   |   |
| 414+80 LT. TO 419+27 RT.          | 447'   |   |
| 505+50 LT.                        | 37.5'  | LITTLE BOULDER CREEK BRIDGE, EXISTING END SECTION |
| 505+50 RT.                        | 37.5'  | LITTLE BOULDER CREEK BRIDGE, EXISTING END SECTION |
| 506+74 LT.                        | 37.5'  | LITTLE BOULDER CREEK BRIDGE, EXISTING END SECTION |
| 506+74 RT.                        | 37.5'  | LITTLE BOULDER CREEK BRIDGE, EXISTING END SECTION |

| REMOVAL OF STRUCTURES AND OBSTRUCTIONS |        |    |             |         |
|--|--------|----|-------------|---------|
| STATION                                | OFFSET |    | DESCRIPTION | REMARKS |
|  | LT     | RT |             |         |
| 363+90                                 |        |    |             |         |
| 353+00 TO 360+00                       |        |    |             |         |
| 373+00 TO 378+00                       |        |    |             |         |
| 470+00 TO 477+00                       |        |    |             |         |

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 DESIGN & CONSTRUCTION

HAINES

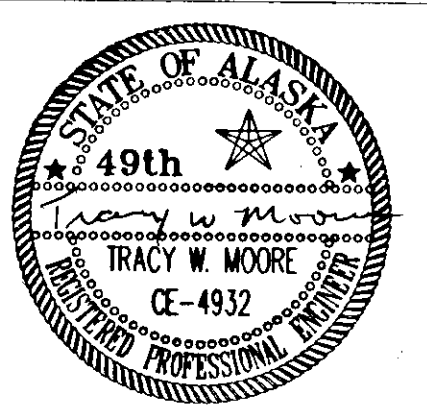
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
ESTIMATE OF QUANTITIES & SUMMARY TABLES

ALASKA

DESIGNED BY: C. HAKARI  
DRAWN BY: W. HICKOK  
CHECKED BY: T.W. MOORE

PROJECT NO. 71483  
DATE: 1998  
SHEET D1

ENGINEER'S SEAL



### CULVERT SUMMARY

| PIPE # | STATION  | OFFSET  | ELLIPSE PIPE |            |     |     |           |        | APPROX. INLET INVERT | APPROX. OUTLET INVERT             | REMARKS |
|--------|----------|---------|--------------|------------|-----|-----|-----------|--------|----------------------|-----------------------------------|---------|
|        |          |         | 18"          | 24"        | 30" | 36" | 48"       | 60"    |                      |                                   |         |
| 1      | 164+46   | 50' RT. |              | 35'        |     |     |           |        |                      | DRIVEWAY CHANGE OF SIZE TO 18"    |         |
| 2      | 173+31   | 34' RT. | 46'          | 35'        |     |     |           | 162.5  | 161.9                | DRIVEWAY CHANGE OF SIZE TO 18"    |         |
| 3      | 186+28   | ℄       |              |            |     |     |           | 172.3  | 171.9                | FISH PASSAGE CULVERT              |         |
| 4      | 194+28   | 34' RT. |              | 45'        |     |     |           |        |                      | DRIVEWAY DELETED                  |         |
| 5      | 196+17   | ℄       |              | 45' 7/8    |     |     |           | 178.1  | 177.8                |                                   |         |
| 6      | 215+03.5 | 34' RT. |              | 70' 8 1/4  |     |     |           | 186.5  | 184.4                |                                   |         |
| 7      | 216+20   | ℄       |              |            |     |     | 90' 1/2   | 177.00 | 175.0                | FISH PASSAGE CULVERT, SEE DETAILS |         |
| 8      | 229+38   | ℄       |              | 60' 6 1/4  |     |     |           | 214.0  | 211.0                | SPILLWAY                          |         |
| 9      | 236+50   | 30' RT. | 60' 9 1/4    |            |     |     |           | 241.5  | 240.0                | DRIVEWAY                          |         |
| 10     | 262+73   | 34' RT. | 32' 8 1/8    |            |     |     |           | 256.7  | 256.4                | DRIVEWAY                          |         |
| 11     | 263+93   | ℄       |              | 80' 7/6    |     |     |           | 253.0  | 246.3                | SPILLWAY                          |         |
| 12     | 270+00   | ℄       |              | 64' 6 1/2  |     |     |           | 253.9  | 250.1                | SPILLWAY                          |         |
| 13     | 276+80   | 38' RT. |              | 73' 10 1/2 |     |     |           | 255.0  | 254.0                | MOSQUITO LAKE RD. INTERSECTION    |         |
| 14     | 325+40   | ℄       |              |            |     |     | 77' 6 1/4 | 237.7  | 231.7                |                                   |         |
| 15     | 336+75   | ℄       |              |            |     |     | 84' 8 1/6 | 235.5  | 232.0                |                                   |         |
| 16     | 351+55   | ℄       |              | 70' 8 1/2  |     |     |           | 292.0  | 290.0                | SPILLWAY                          |         |
| 17     | 370+59   | 46' RT. | 50'          | 60'        |     |     |           | 275.2  | 274.8                | DRIVEWAY CHANGE OF SIZE TO 18"    |         |
| 18     | 371+99   | ℄       |              |            |     |     | 108' 1/2  | 260.7  | 259.1                | SEE DETAILS SHEET F1              |         |
| 19     | 379+10   | ℄       |              |            |     |     | 180'      | 247.7  | 246.3                | FISH PASSAGE CULVERT, SEE DETAILS |         |
| 20     | 406+27   | ℄       |              |            |     |     | 98'       | 271.0  | 270.5                | FISH PASSAGE CULVERT, SEE DETAILS |         |
| 21     | 425+00   | ℄       |              | 80' 8 1/6  |     |     |           | 285.0  | 282.0                |                                   |         |
| 22     | 431+15   | ℄       |              |            |     |     | 72' 8 1/2 | 291.0  | 287.5                | REPLACES TWIN PIPES               |         |
| 23     | 467+00   | ℄       |              | 80' 8 1/6  |     |     |           | 314.0  | 313.0                |                                   |         |
| 24     | 476+22   | 48' LT. | 45' 4 1/4    |            |     |     |           | 340.3  | 339.0                | SCENIC VIEWPOINT                  |         |
| 25     | 481+97   | ℄       |              | 66'        |     |     |           | 357.0  | 353.0                | SPILLWAY                          |         |
| 26     | 484+97   | ℄       |              | 72' 7 1/4  |     |     |           | 366.0  | 363.6                |                                   |         |
| 27     | 487+00   | 35' RT. | 50' 14 1/6   |            |     |     |           | 370.6  | 369.4                | DRIVEWAY                          |         |
| 28     | 487+82   | ℄       |              | 64' 6 1/2  |     |     |           | 372.4  | 370.0                | SPILLWAY                          |         |
| 29     | 490+35   | ℄       |              |            |     |     | 164' 1/4  | 359.0  | 350.0                |                                   |         |
|        | 215+04   | 34' RT. |              | 12         |     |     |           |        |                      | ADDITIONAL DRAINAGE               |         |
|        | 235+40   | RT      |              | 40         |     |     |           |        |                      | DRIVEWAY                          |         |
|        | 204+38   | ℄       |              |            | 68  |     |           |        |                      | SECOND PIPE FOR SUBX FLOW         |         |
|        | 274+40   | ℄       |              |            | 80  |     |           |        |                      |                                   |         |
|        | 295+90   | RT      |              |            | 64  |     |           |        |                      |                                   |         |
|        | 332+00   | ℄       |              |            | 82  |     |           |        |                      |                                   |         |

### CULVERT REMOVAL SUMMARY

| STATION | LENGTH  |
|---------|---------|
| 183+60  | 62' 0"  |
| 196+30  | 60'     |
| 216+30  | 50' 0"  |
| 263+90  | 76'     |
| 292+00  | 42' 0"  |
| 320+30  | 70'     |
| 325+30  | 78' 80" |
| 351+60  | 76' 52" |
| 371+98  | 87' 88" |
| 419+61  | 54' 0"  |
| 431+11  | 53' 55" |
| 431+16  | 52' 55" |
| 481+98  | 51' 54" |
| 487+89  | 45' 0"  |
| 490+05  | 83' 0"  |
| 332+00  | 40'     |

### RESIDENTIAL DRIVEWAY SUMMARY

| STATION    | OFFSET |    | RADIUS |     | WIDTH | REMARKS                  |
|------------|--------|----|--------|-----|-------|--------------------------|
|            | LT     | RT | LT     | RT  |       |                          |
| "A" 164+46 |        | X  | 20'    | 20' | 14'   |                          |
| "B" 173+30 |        | X  | 20'    | 20' | 14'   |                          |
| "C" 195+25 |        | X  | 20'    | 20' | 14'   |                          |
| "D" 215+04 |        | X  | 20'    | 20' | 14'   |                          |
| "E" 225+50 | X      |    | 37'    | 65' | 22'   | Porcupine Rd.            |
| "F" 229+64 |        | X  | 10'    | 10' | 14'   |                          |
| "G" 236+50 |        | X  | 20'    | 15' | 14'   |                          |
| "H" 262+70 |        | X  | 20'    | 10' | 14'   |                          |
| "I" 276+80 |        | X  | 4'     | 4'  | 26'   | Mosquito Lake Rd.        |
| "J" 356+80 | X      |    | 20'    | 20' | 14'   |                          |
| "K" 370+59 | X      |    | 20'    | 20' | 14'   |                          |
| "L" 370+59 | *      | X  | 20'    | 20' | 14'   |                          |
| "M" 431+70 |        | X  | 20'    | 10' | 14'   |                          |
| "N" 487+00 | X      |    | 20'    | 20' | 14'   |                          |
| "O" 358+23 |        | X  | 25'    | 15' | 14'   |                          |
| "P" 364+80 |        | X  | 20'    | 20' | 14'   |                          |
| "Q" 183+22 |        | X  | 20'    | 20' | 20'   |                          |
| "R" 211+21 |        | X  | 10'    | 10' | 14'   | 2 Mailboxes, Single Post |

| STATION | OFFSET |    | RADIUS |    | WIDTH | REMARKS              |
|---------|--------|----|--------|----|-------|----------------------|
|         | LT     | RT | LT     | RT |       |                      |
| 168+75  | X      |    |        |    |       | SPORTSMANS ACCESS    |
| 195+15  |        | X  |        |    |       | HOTCH                |
| 211+00  | X      |    |        |    |       | RENO                 |
| 222+00  |        | X  |        |    |       | GILLIAM              |
| 225+00  | X      |    |        |    |       | BRIDGE SOUTHSIDE     |
| 235+50  |        | X  |        |    |       | GILLIAM              |
| 253+00  | X      |    |        |    |       | TURN OUT #1          |
| 260+00  | X      |    |        |    |       | PAHL                 |
| 262+75  |        | X  |        |    |       | HOLBERG              |
| 271+00  |        | X  |        |    |       | BREWINGTON           |
| 272+00  |        | X  |        |    |       | BREWINGTON           |
| 276+60  |        | X  |        |    |       | BREWINGTON           |
| 276+60  |        | X  |        |    |       | BALLFIELD            |
| 300+10  |        | X  |        |    |       | MULTIOWNERS          |
| 366+50  |        | X  |        |    |       | CHARTIER             |
| 476+00  | X      |    |        |    |       | TURN OUT #2          |
| 499+50  | X      |    |        |    |       | UNIVERSITY OF ALASKA |
| 505+00  |        | X  |        |    |       | GILLIAM              |

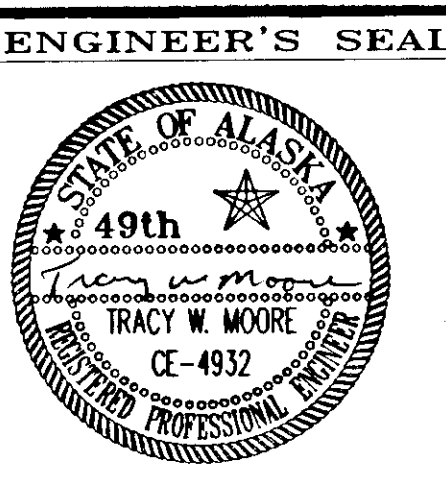
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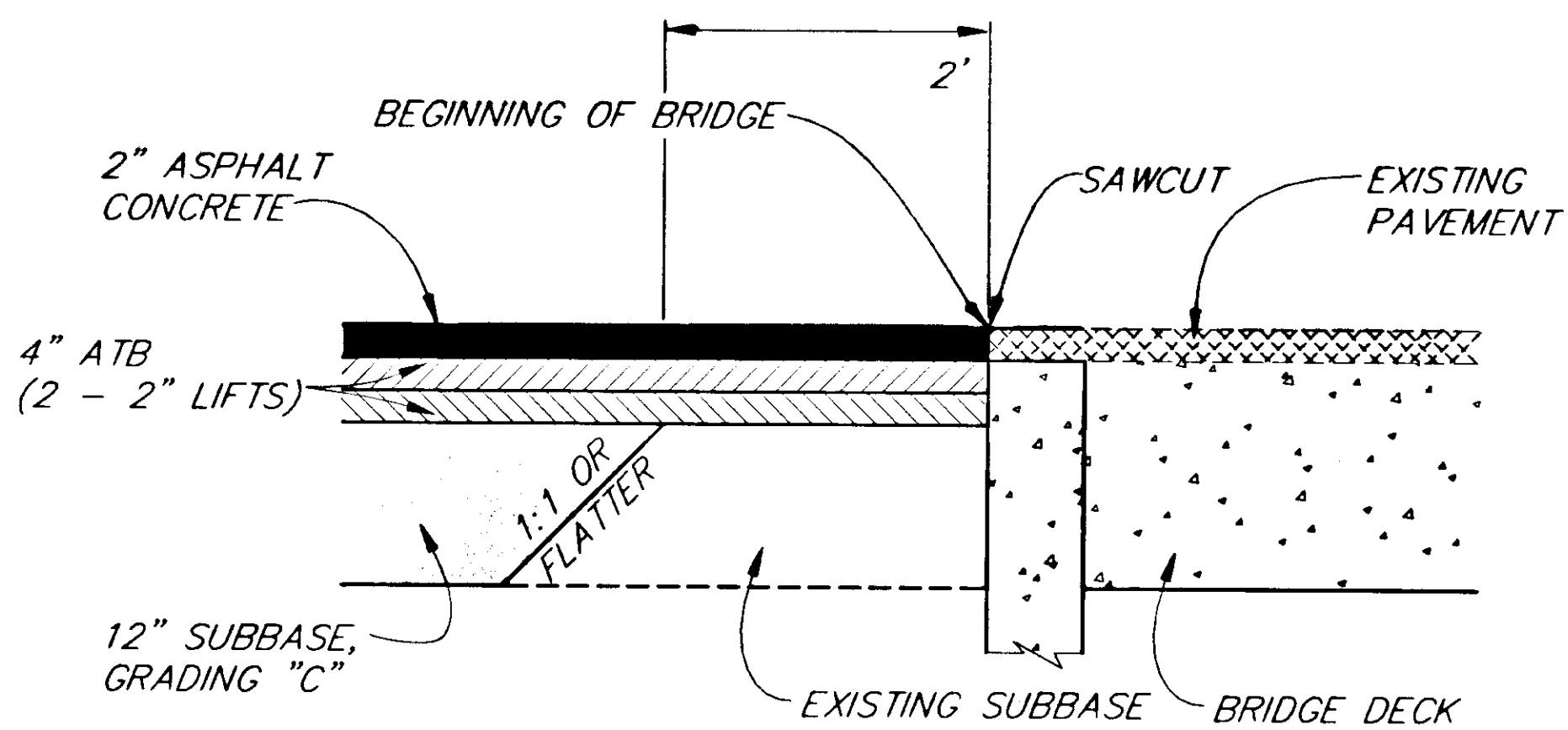
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. MH-F-095-6(14) - 71483  
**SUMMARY TABLES**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

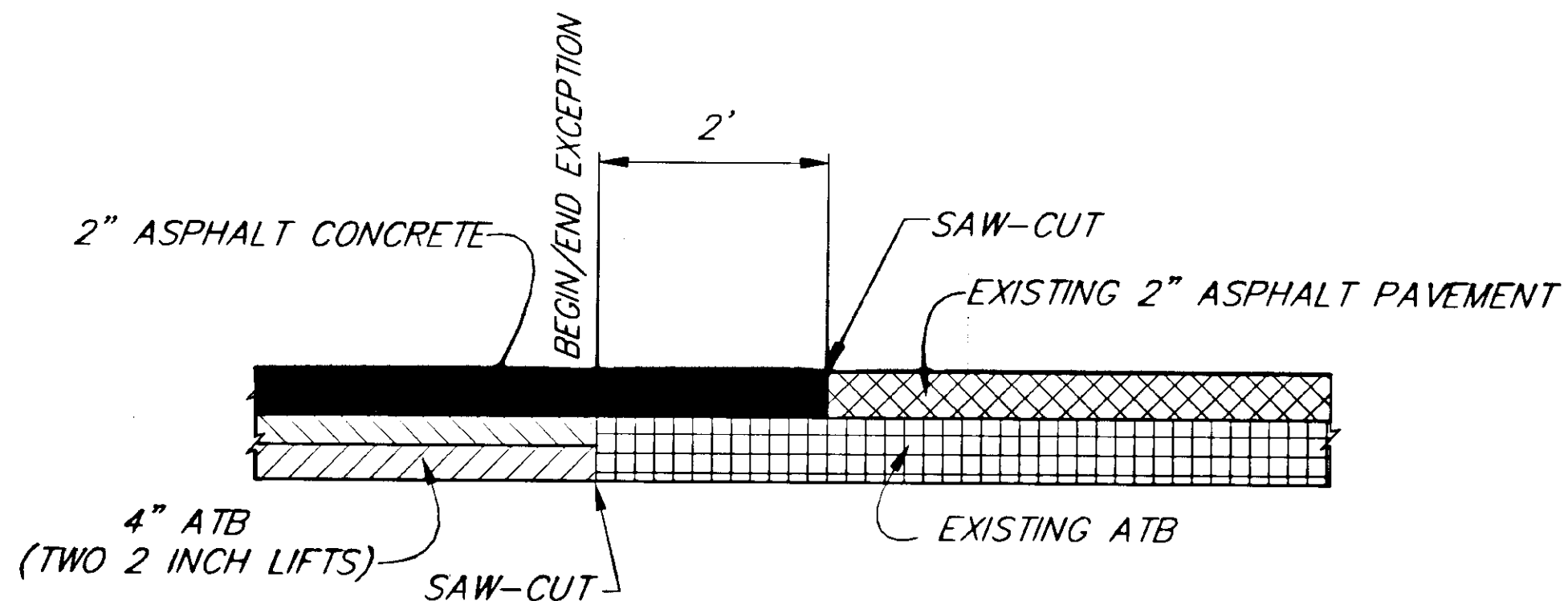
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| DESIGNED BY: C. HAKARI | PROJECT NO. 71483 |
| DRAWN BY: W. HICKOK    | DATE: 1998        |
| CHECKED BY: T.W. MOORE | SHEET D2          |





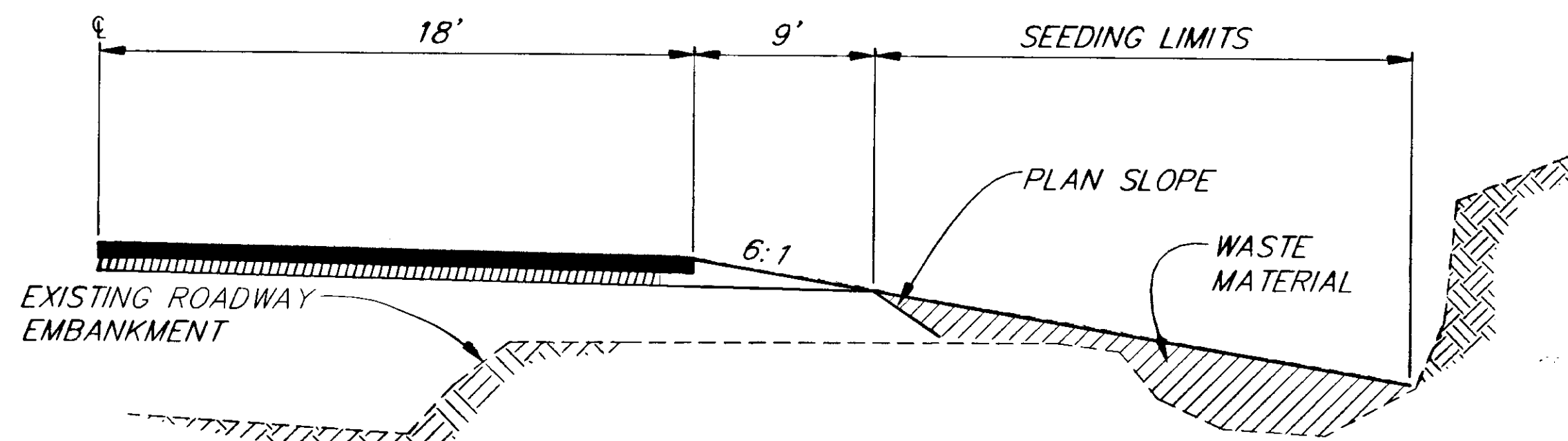
**PAVEMENT MATCH JOINT DETAIL**

**STA. 505+75.16**



**PAVEMENT MATCH JOINT DETAIL**

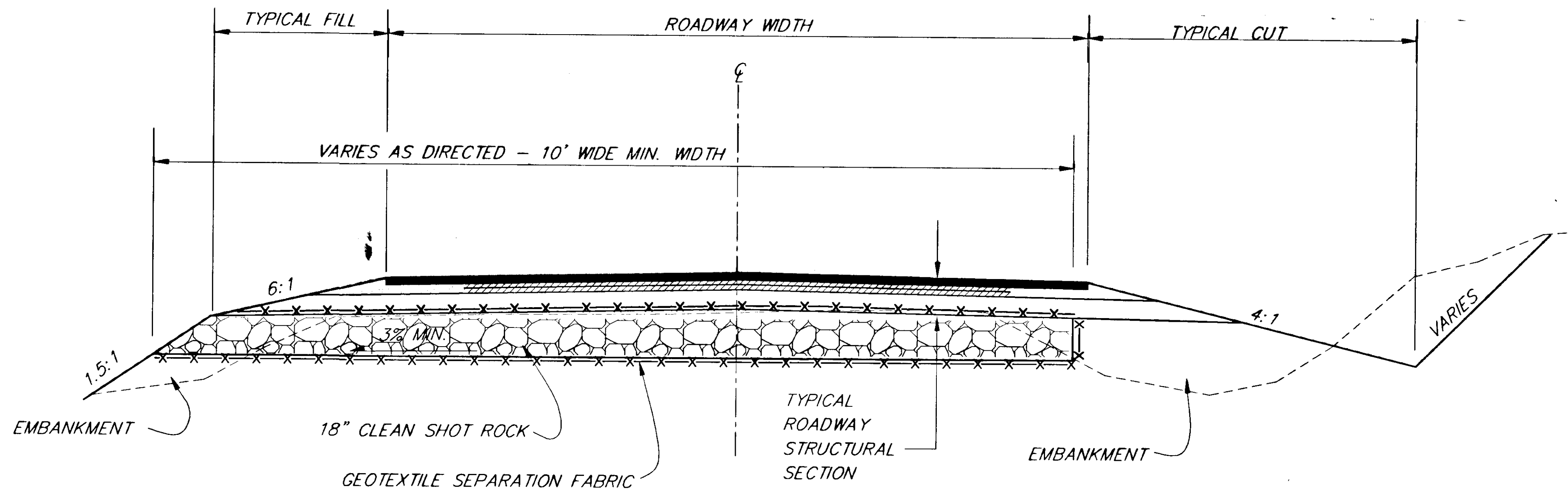
**STA. 437+73.90 & STA. 466+00.91**



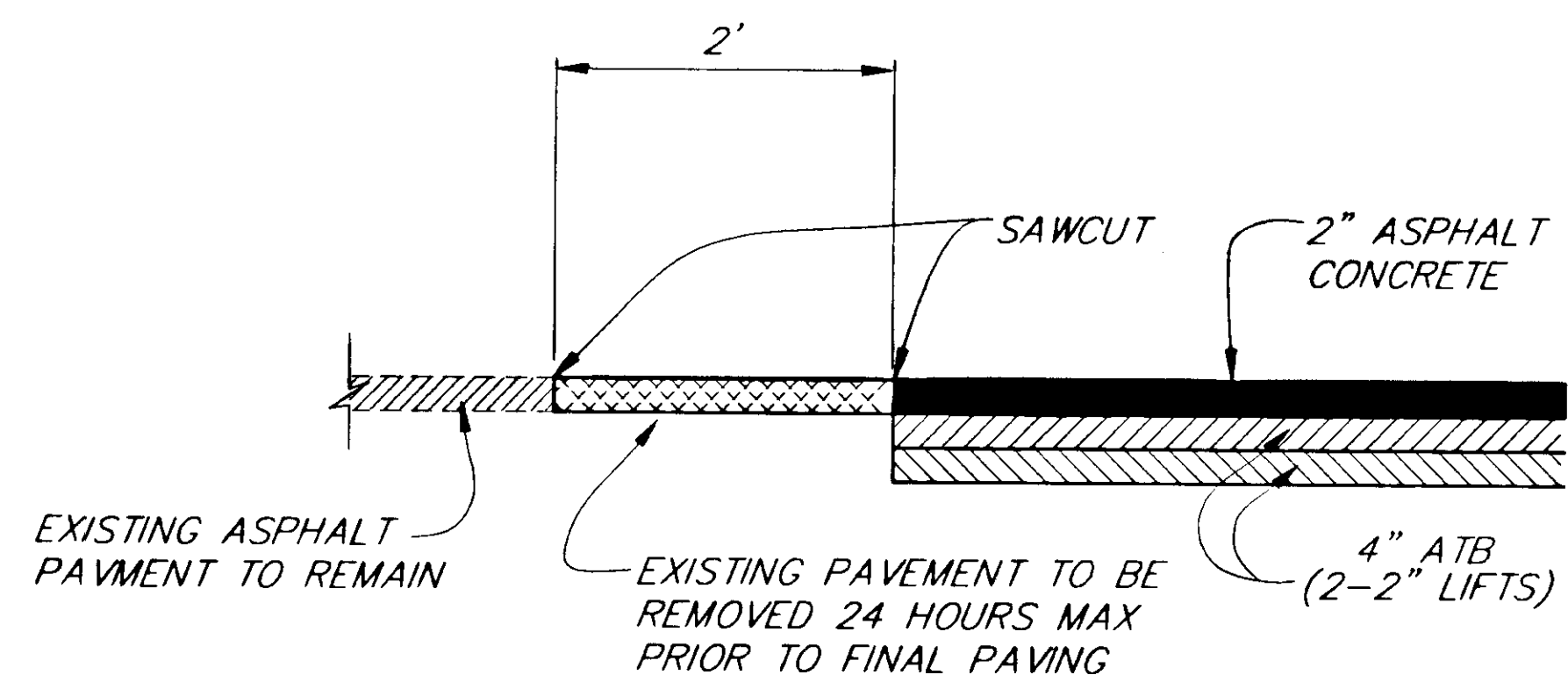
**WASTE DISPOSAL DETAIL**

**NOTES:**

- OPTIONAL WASTE DISPOSAL AREAS SHALL BE BETWEEN STA. 312+00, RT. AND STA. 322+00, RT., BETWEEN STA. 330+00, RT. AND STA. 341+00, RT. AND BETWEEN STA. 419+00, RT. AND STA. 430+00, RT., OR AS APPROVED BY THE ENGINEER. WASTE MATERIALS MAY ALSO BE PLACED OVER SHOT ROCK FILLS WHEN APPROVED BY THE ENGINEER.
- A MAJORITY OF THE WOODY DEBRIS SHALL BE BURNED IN APPROVED SITES WITHIN THE RIGHT-OF-WAY.
- TREES REMOVED ON EASEMENTS AND PERMIT AREAS OUTSIDE OF THE RIGHT OF WAY SHALL BE STOCKPILED FOR USE BY THE OWNER OF THE PROPERTY WHO GRANTED THE PERMIT/EASEMENT.
- ROADWAY OBLITERATION WILL NOT BE PAID FOR IN AREAS WHERE THE EXISTING ROADWAY IS COVERED WITH WASTE MATERIAL AS DETAILED ABOVE. EXISTING ASPHALT PAVEMENT SHALL BE REMOVED IN ACCORDANCE WITH SECTION 203 OF THE SPECIFICATIONS.

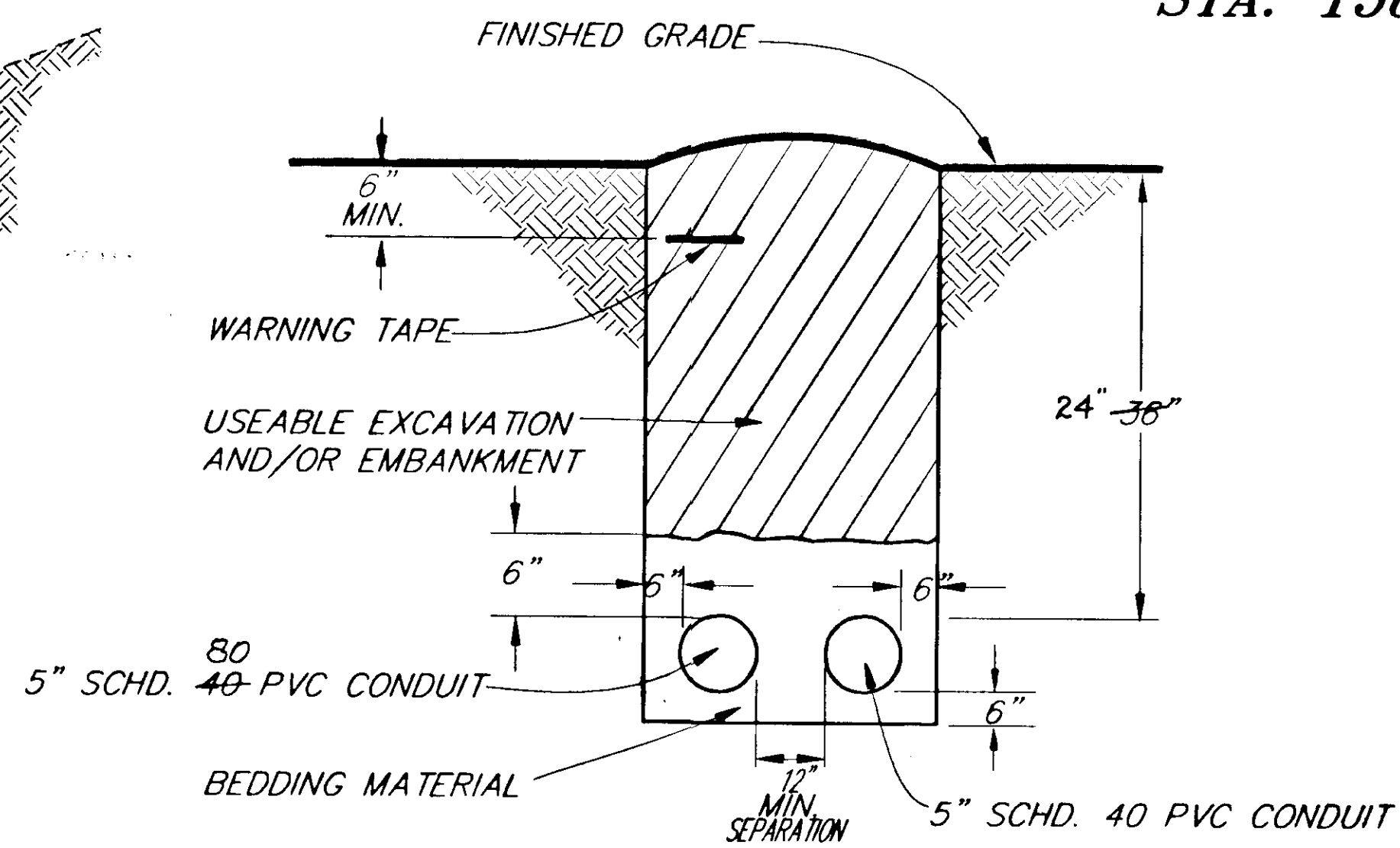


**ROAD DRAIN DETAIL**



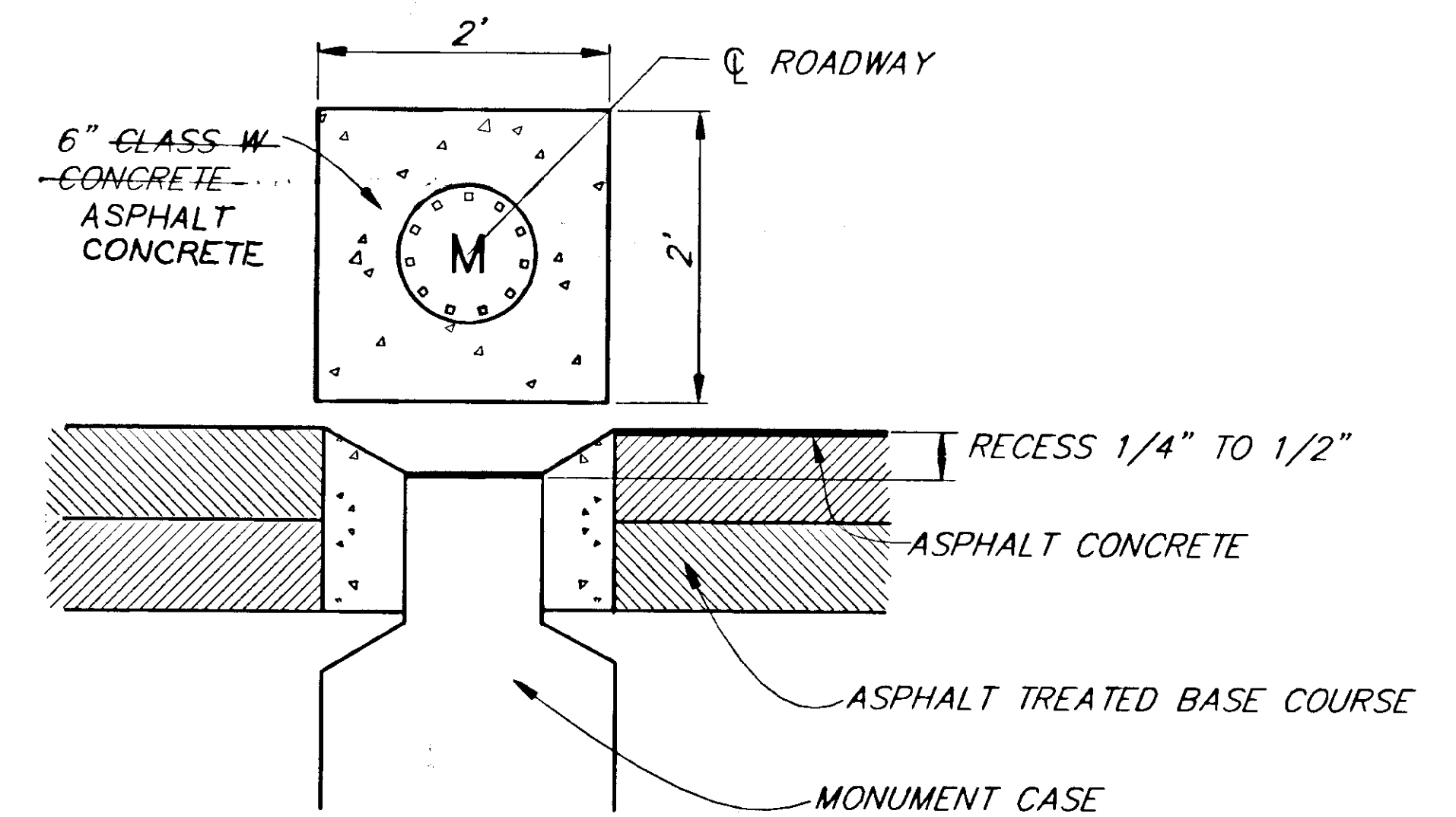
**PAVEMENT MATCH JOINT DETAIL**

**STA. 158+00**



**TYP. TRENCH AND CONDUIT INSTALLATION DETAIL**

**STA. 468+00, RT TO 477+20, RT**  
469 477+16



**MONUMENT ENCASEMENT DETAIL**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|---------------------|-------|------------------------|
| RECORD OF REVISIONS |       |                        |

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

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NH-F-095-6(14) - 71483  
MISCELLANEOUS DETAILS

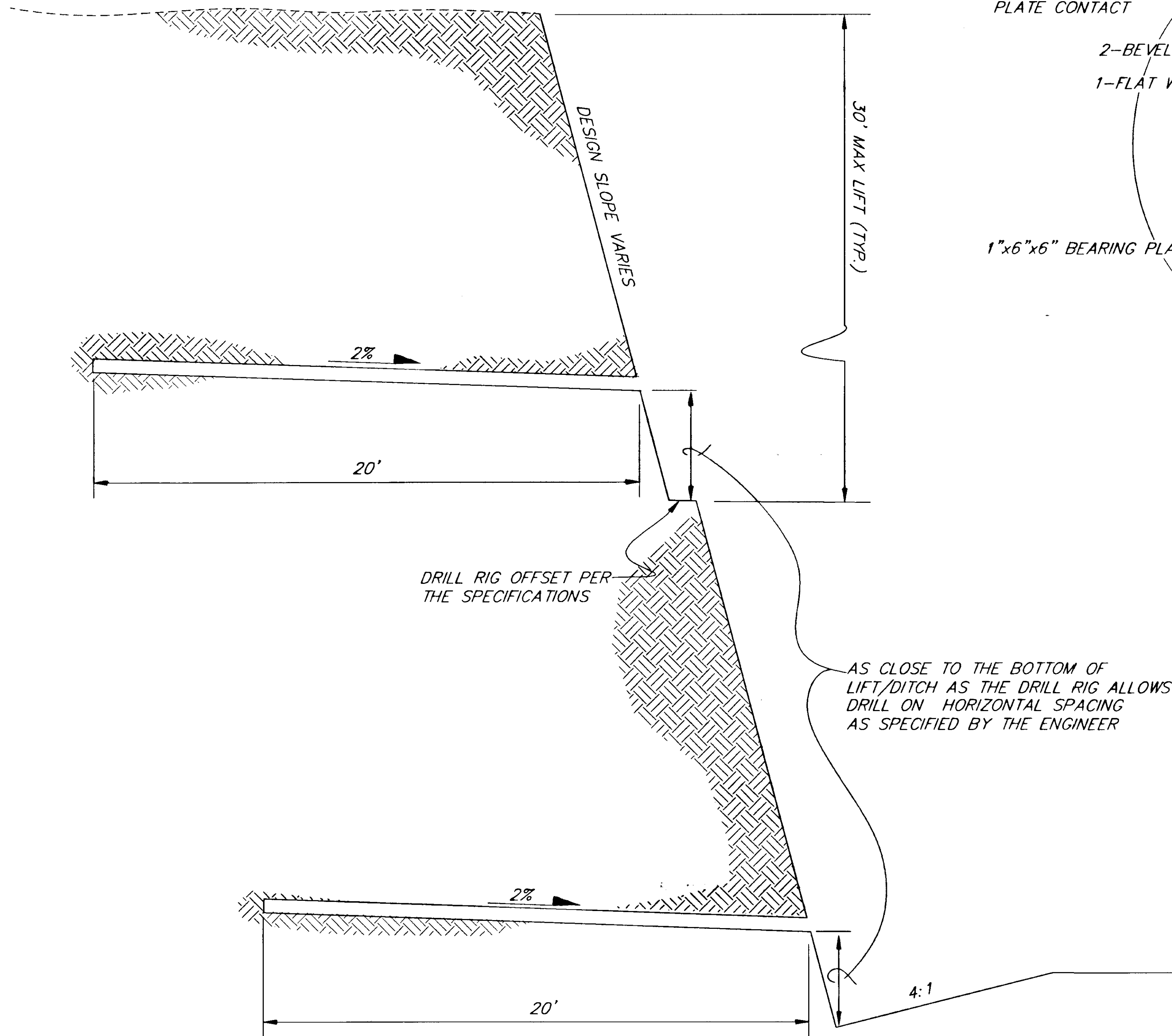
ALASKA

DESIGNED BY: C. HAKARI  
DRAWN BY: C. ANDERSON  
CHECKED BY: T. MOORE

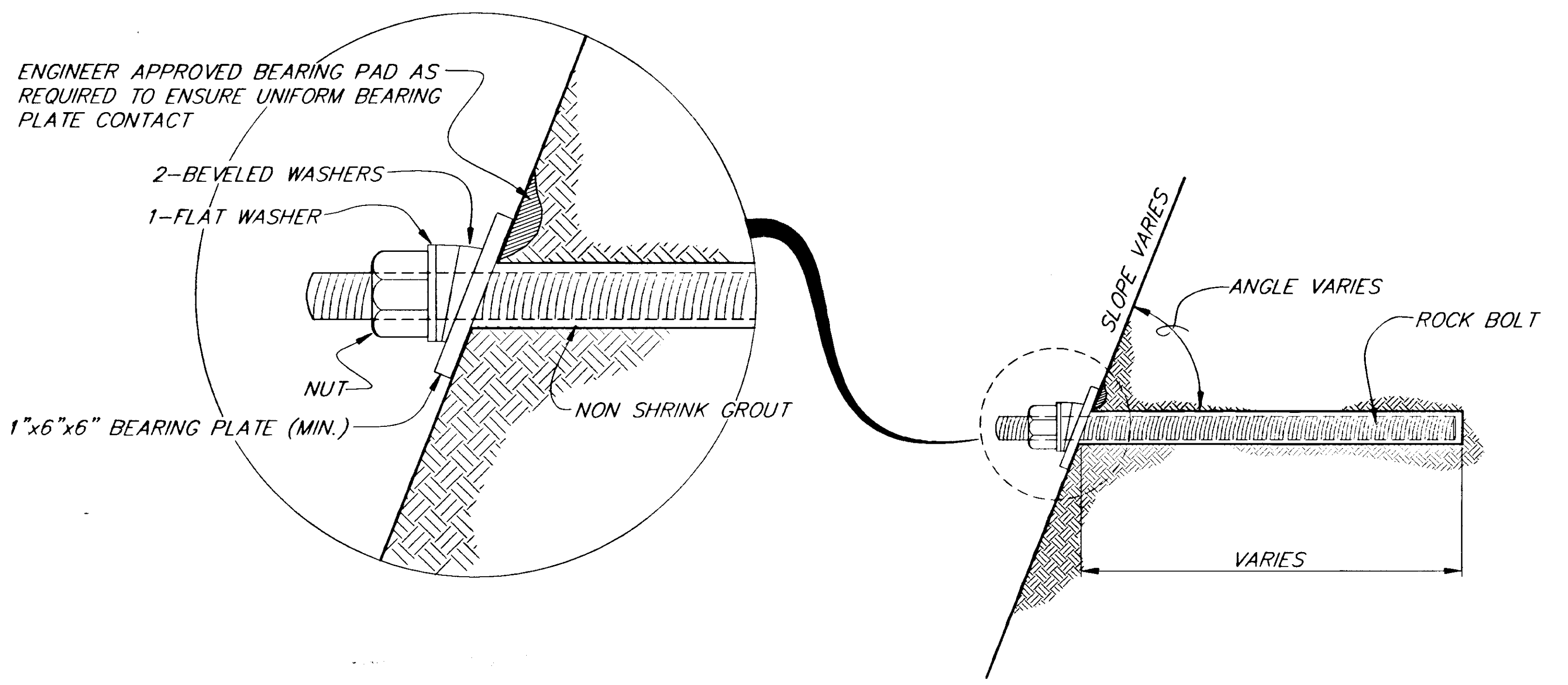
PROJECT NO. 71483  
DATE: 1998  
SHEET E1

ENGINEER'S SEAL

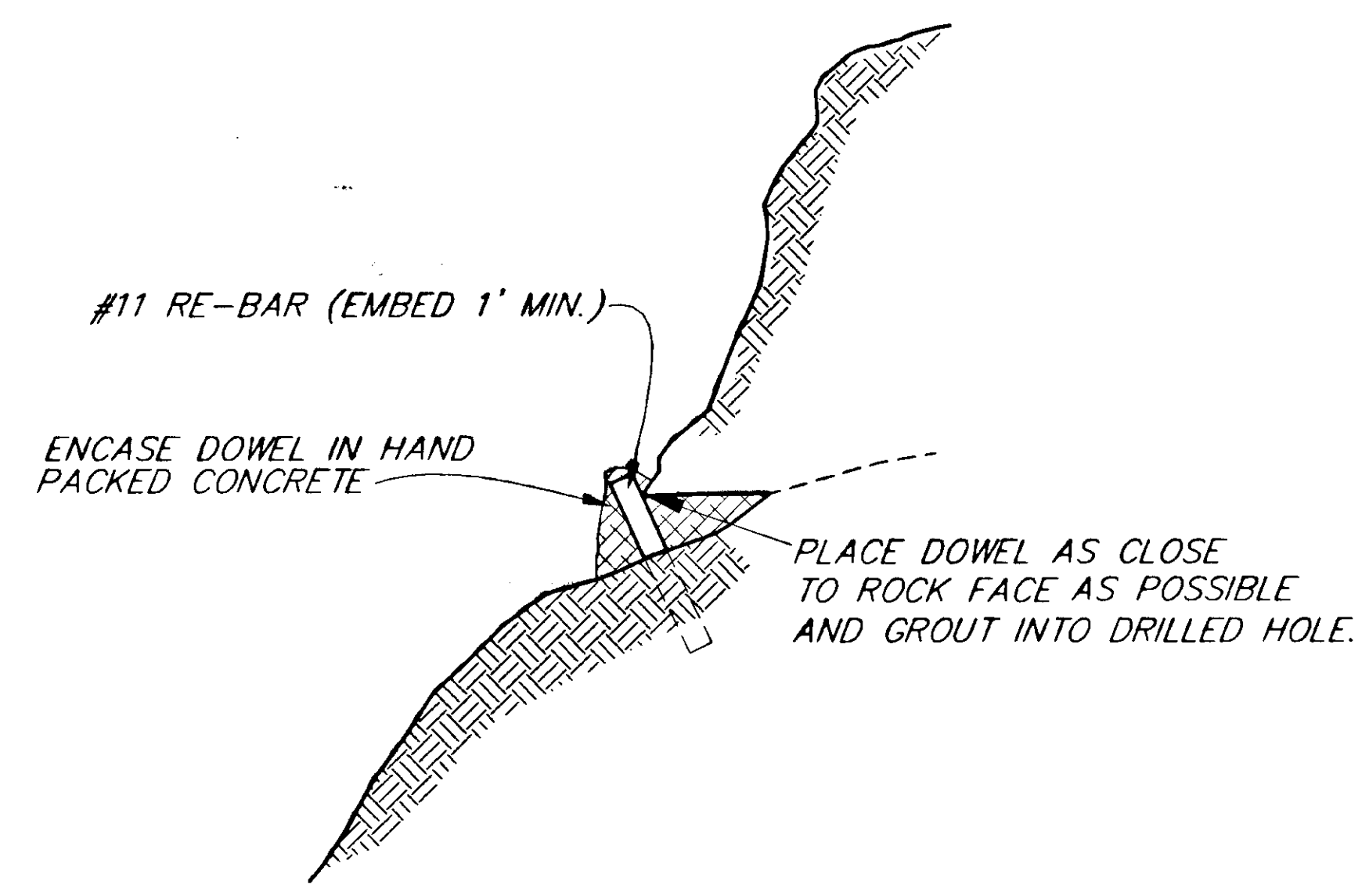




**ROCK SLOPE DRAIN HOLE DETAIL**



**ROCK BOLT DETAIL**



**ROCK DOWEL TYPICAL**

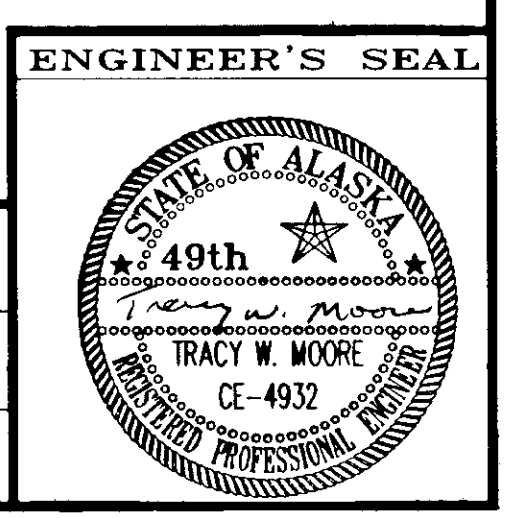
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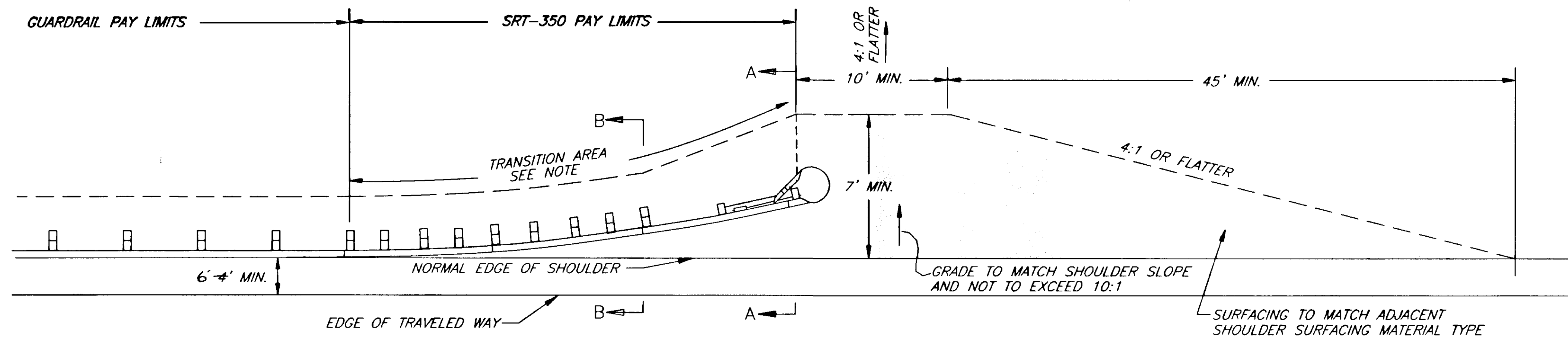
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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 ALASKA  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**SLOPE STABILIZATION DETAILS**

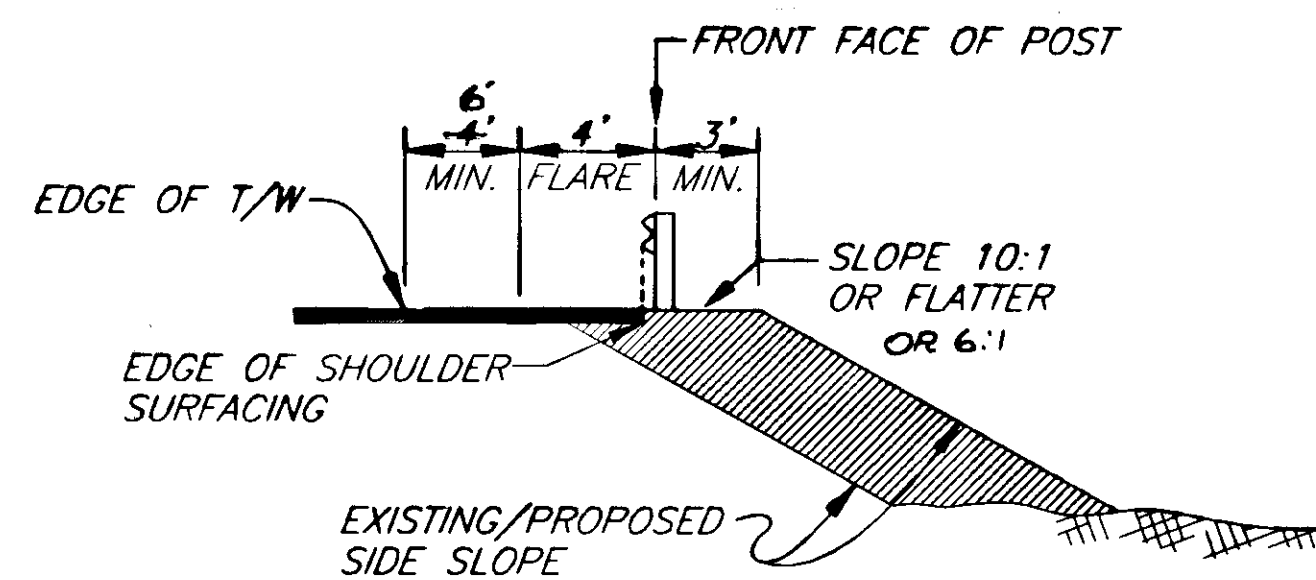
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| DESIGNED BY: | C. HAKARI | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK | DATE:       | 1998  |
| CHECKED BY:  | T. MOORE  | SHEET E2    |       |



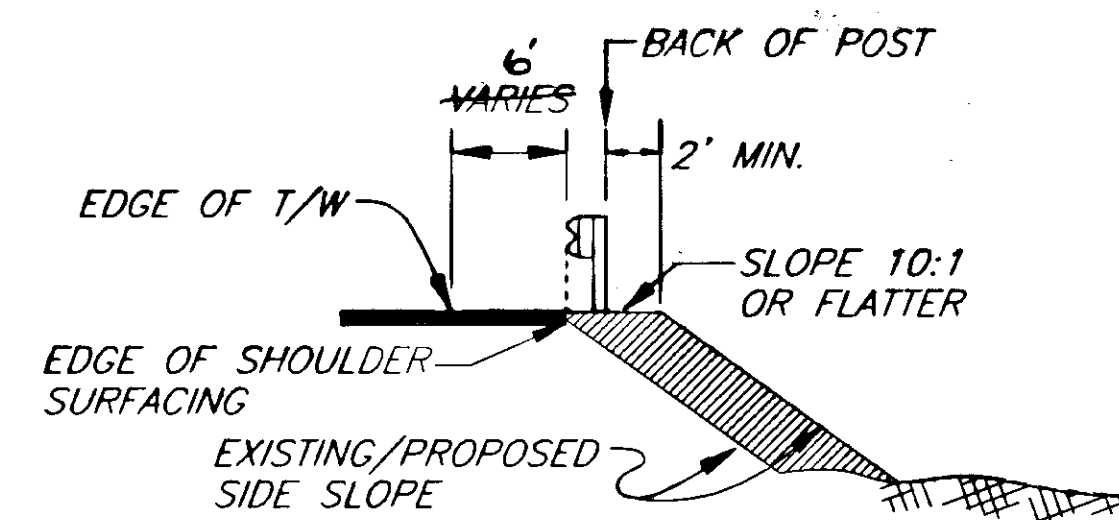


NOTE:  
 1. TRANSITION FROM 4:1 OR FLATTER SLOPE TO MATCH  
 TYPICAL SLOPE AT THE BEGINNING OF GUARDRAIL PAY LIMIT

**SRT-350 INSTALLATION WIDEING DETAILS**



**SECTION A-A**



**SECTION B-B**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                                |       |                        |
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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES

HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**GUARDRAIL FLAIR DETAILS**

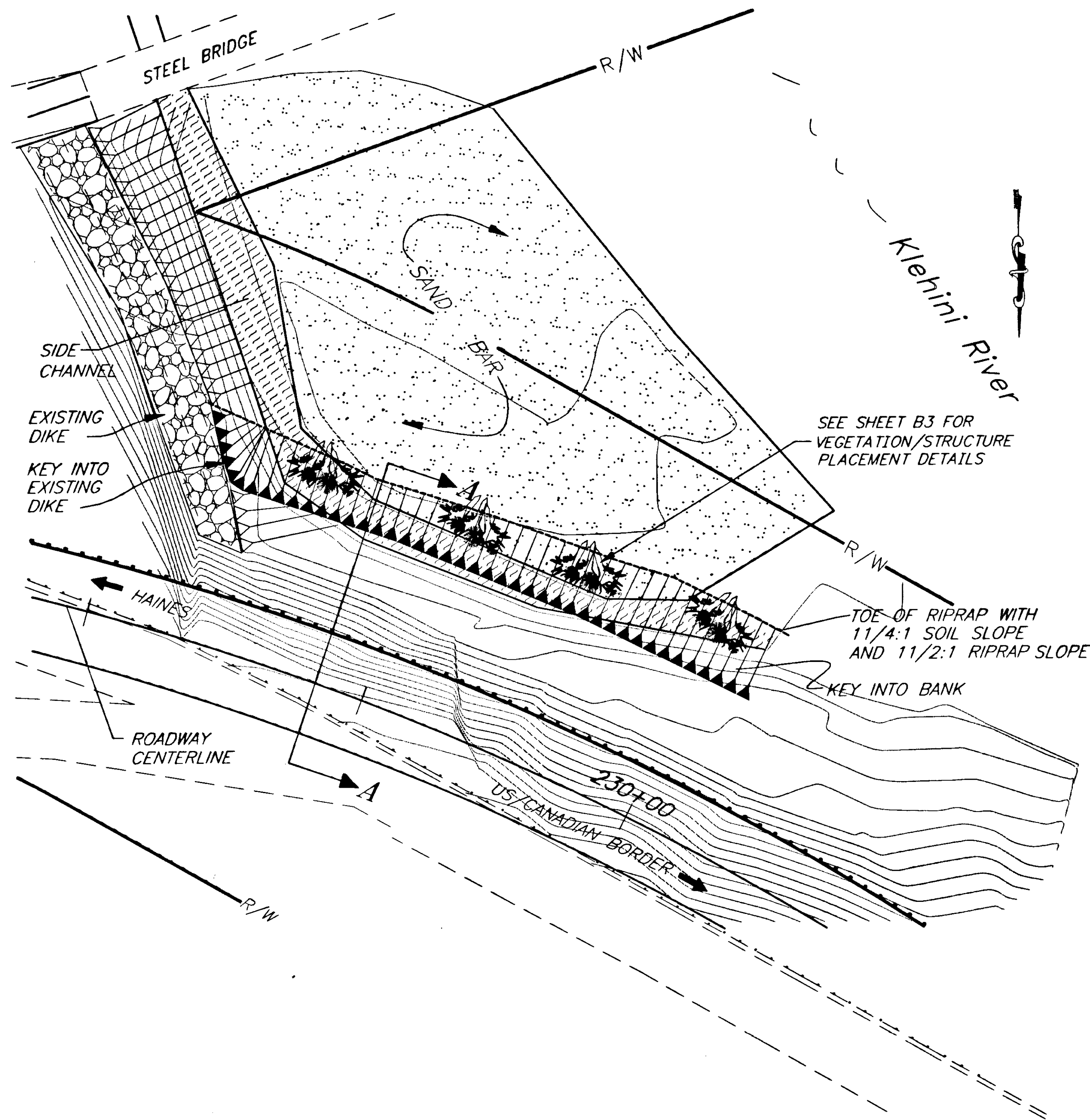
ALASKA

DESIGNED BY: C. HAKARI  
 DRAWN BY: C. ANDERSON  
 CHECKED BY: T.W. MOORE

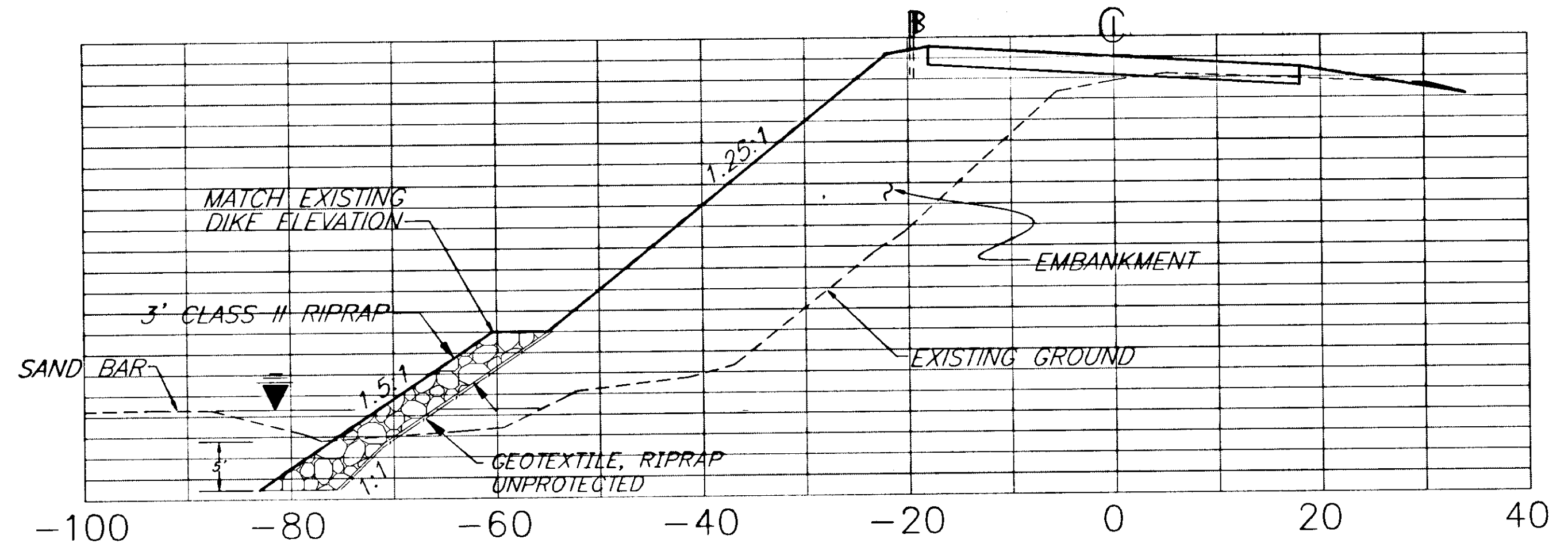
PROJECT NO. 71483  
 DATE: 1998  
 SHEET E3

ENGINEER'S SEAL





PLAN VIEW



NOTE: REQUIRED VEGETATION/STRUCTURE NOT SHOWN FOR CLARITY. SEE TYPICAL SECTIONS.

SECTION A-A

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

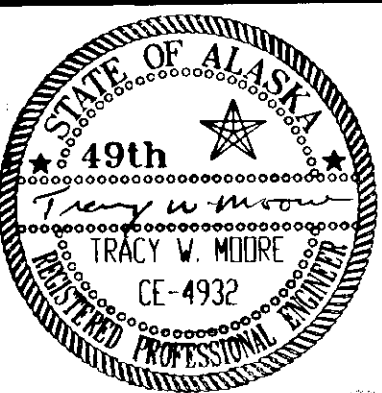
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| BY:   | DATE: | DESCRIPTION OF CHANGE: |
| RECORD OF REVISIONS                                   |       |                        |

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

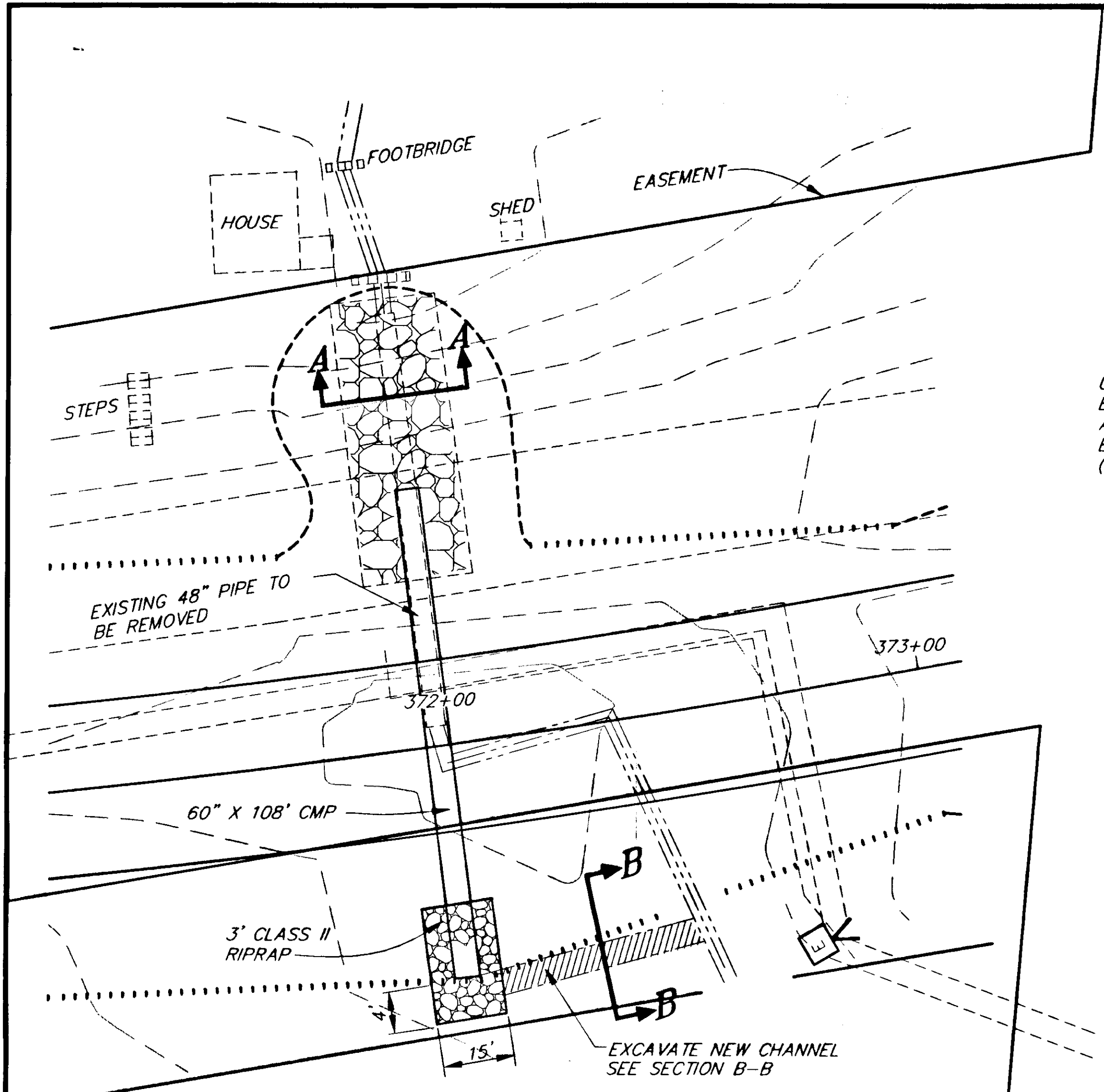
HAINES

HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) 71483  
 ALASKA  
**RIPRAP EXTENSION PLANS AND DETAILS**

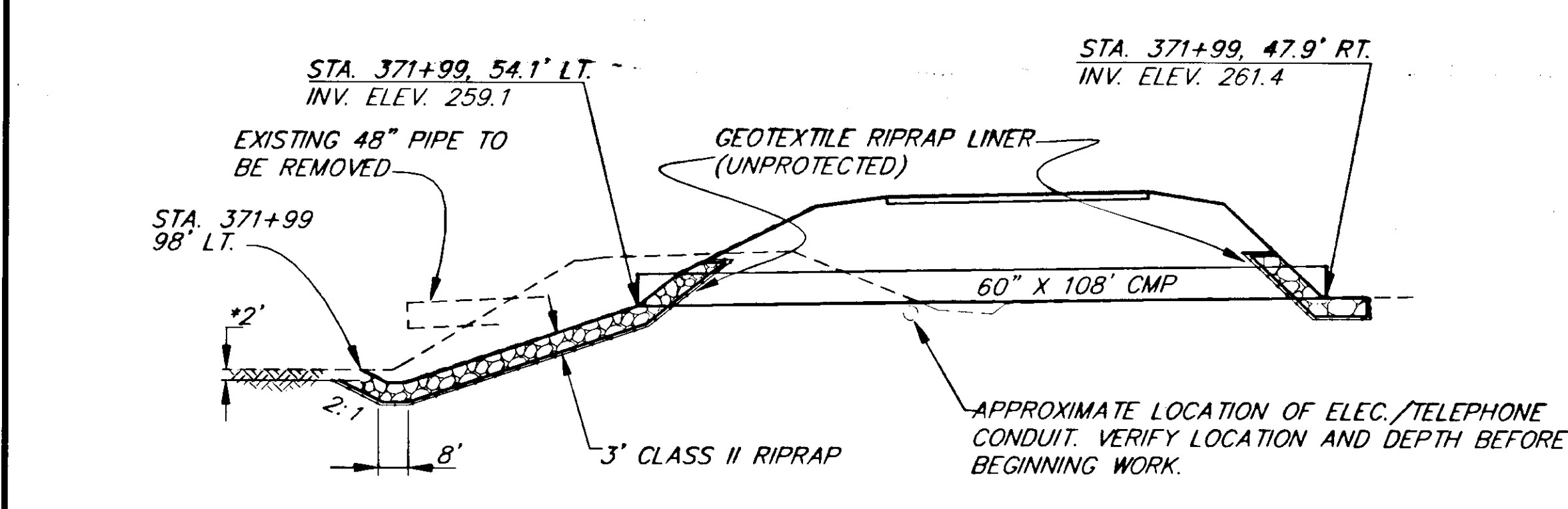
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|--------------|------------|-------------|-------|
| DESIGNED BY: | C. HAKARI  | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK  | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE | SHEET       | E4    |



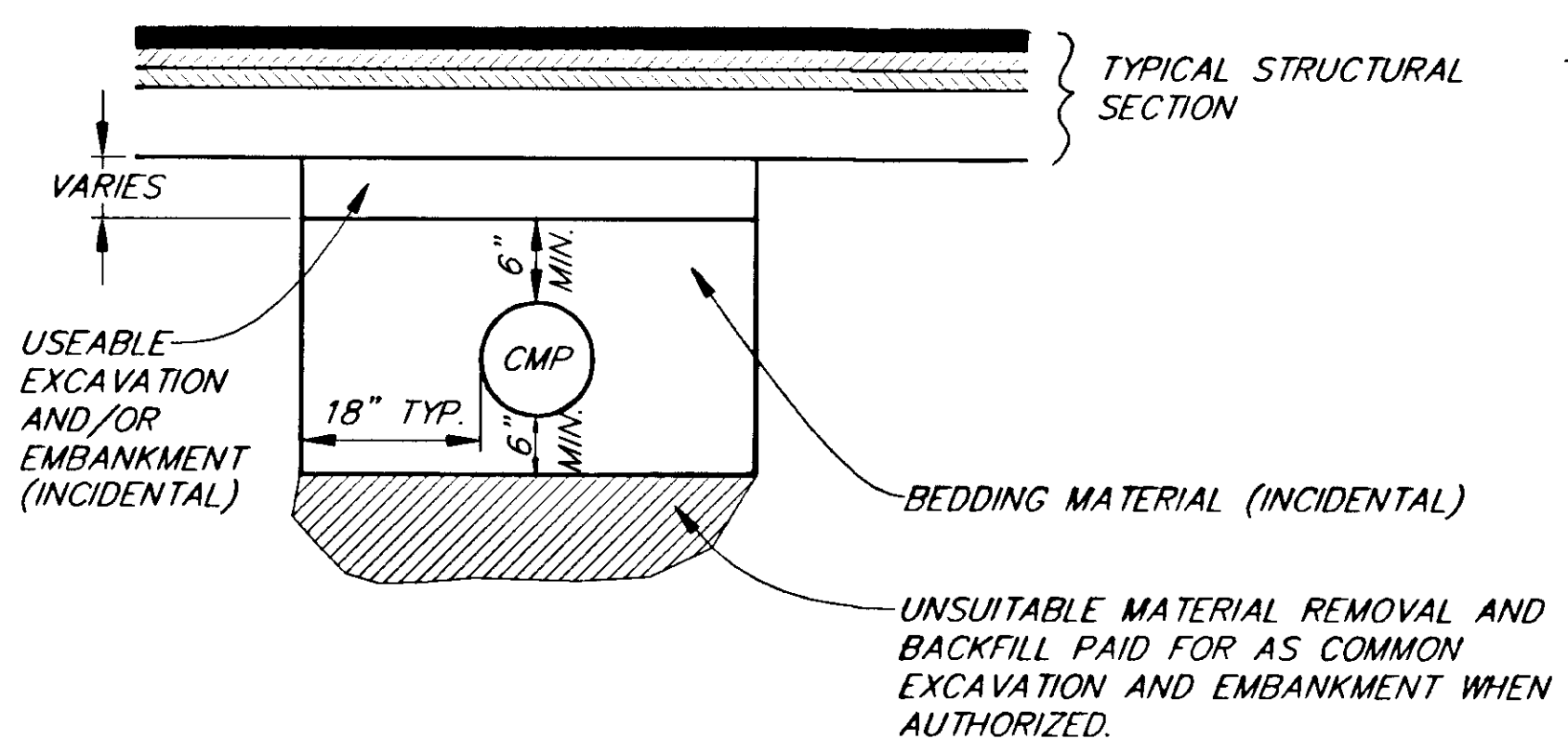




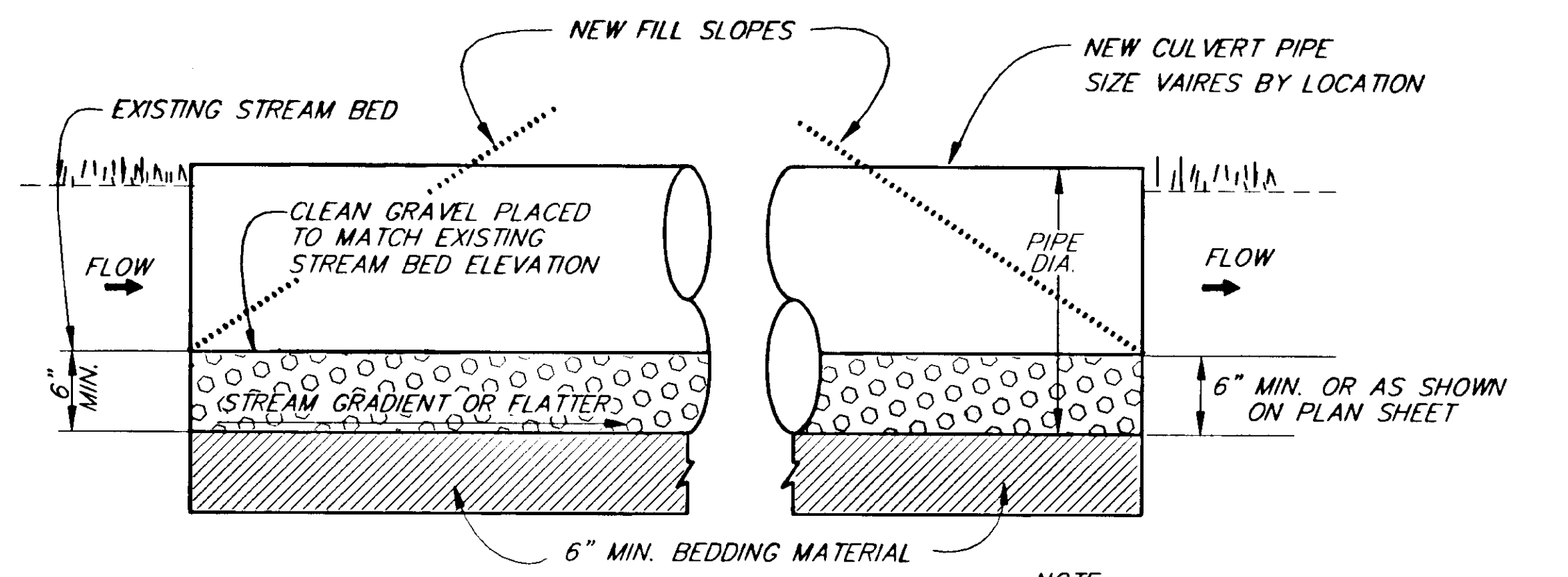
**CULVERT PIPE DETAIL  
STA. 371+99  
PLAN**



**CULVERT PIPE DETAIL  
STA. 371+99  
PROFILE**

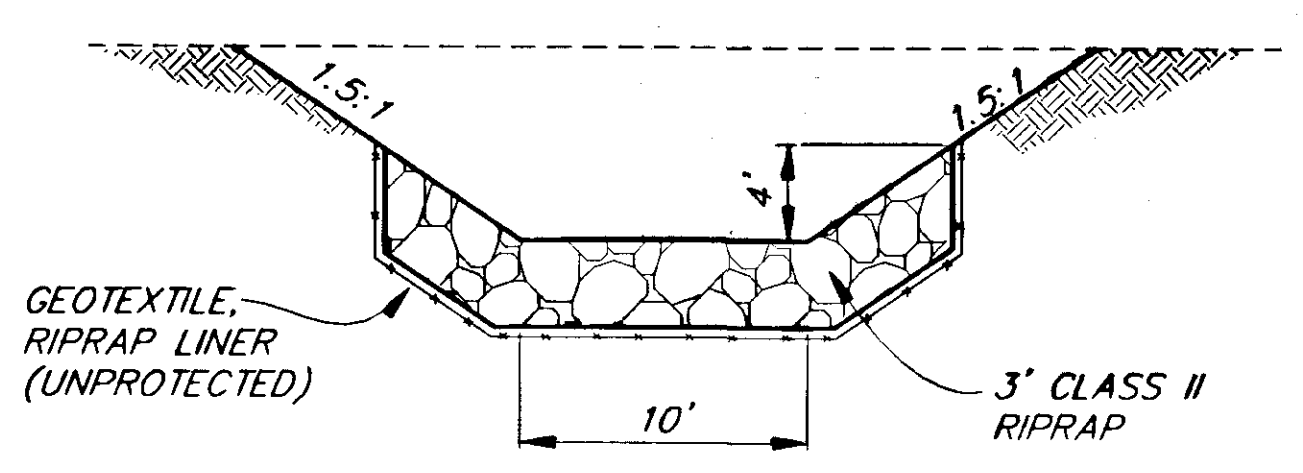


**TYPICAL PIPE TRENCHING  
AND BEDDING DETAIL**

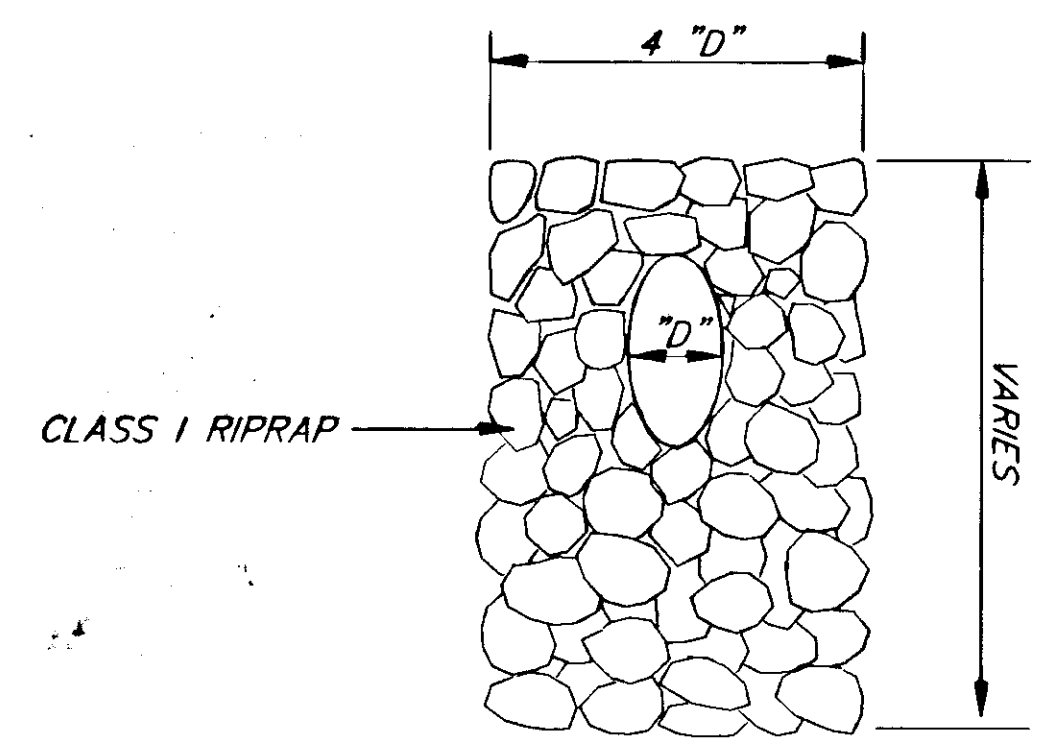


**TYPICAL FISH PASSAGE  
CULVERT INSTALLATION**

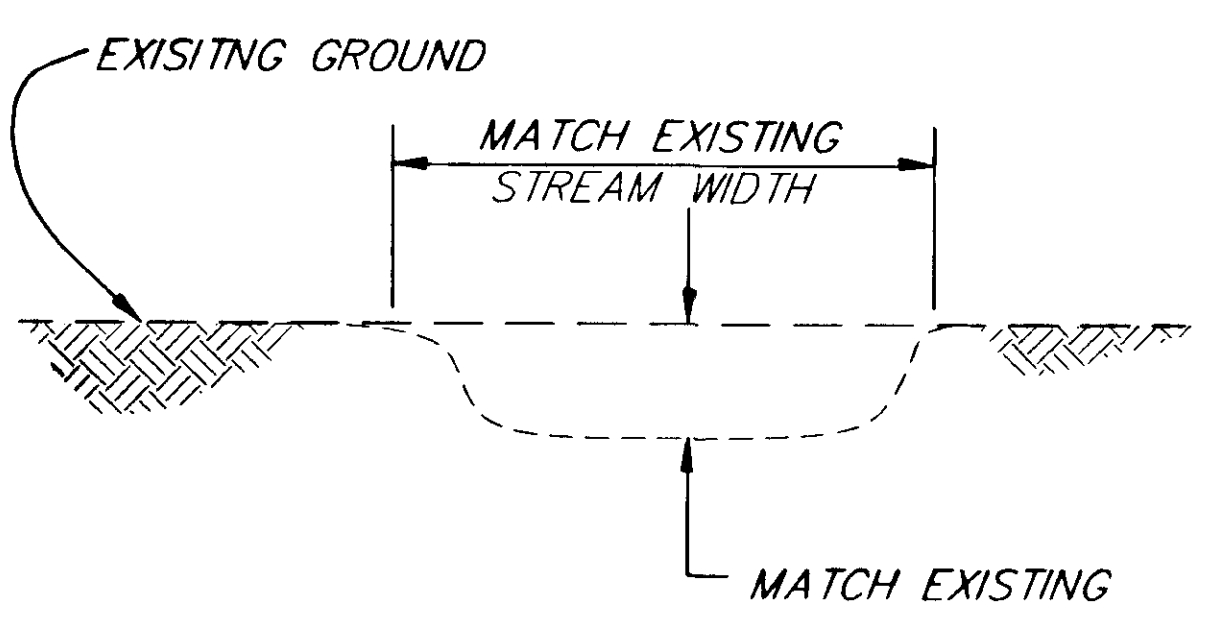
NOTE:  
WHEN PIPE FILL DEPTH IS GREATER  
THAN 3' THE BOTTOM 2/3 OF PIPE  
FILL SHALL BE CLASS I RIPRAP



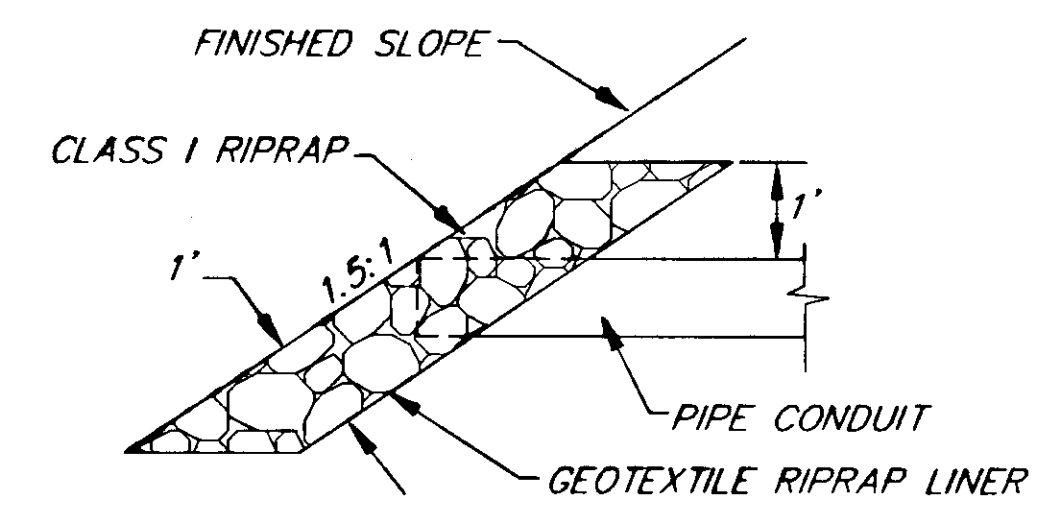
**SECTION A-A  
CHANNEL LINING DETAIL**



**FRONT VIEW**



**SECTION B-B**



**SPILLWAY SECTION**

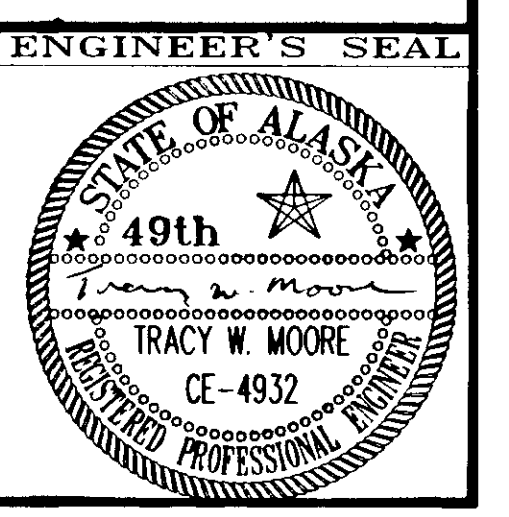
**SPILLWAY DETAILS**

| NO. | DATE | DESCRIPTION OF CHANGE |
|-----|------|-----------------------|
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|     |      |                       |
|     |      |                       |

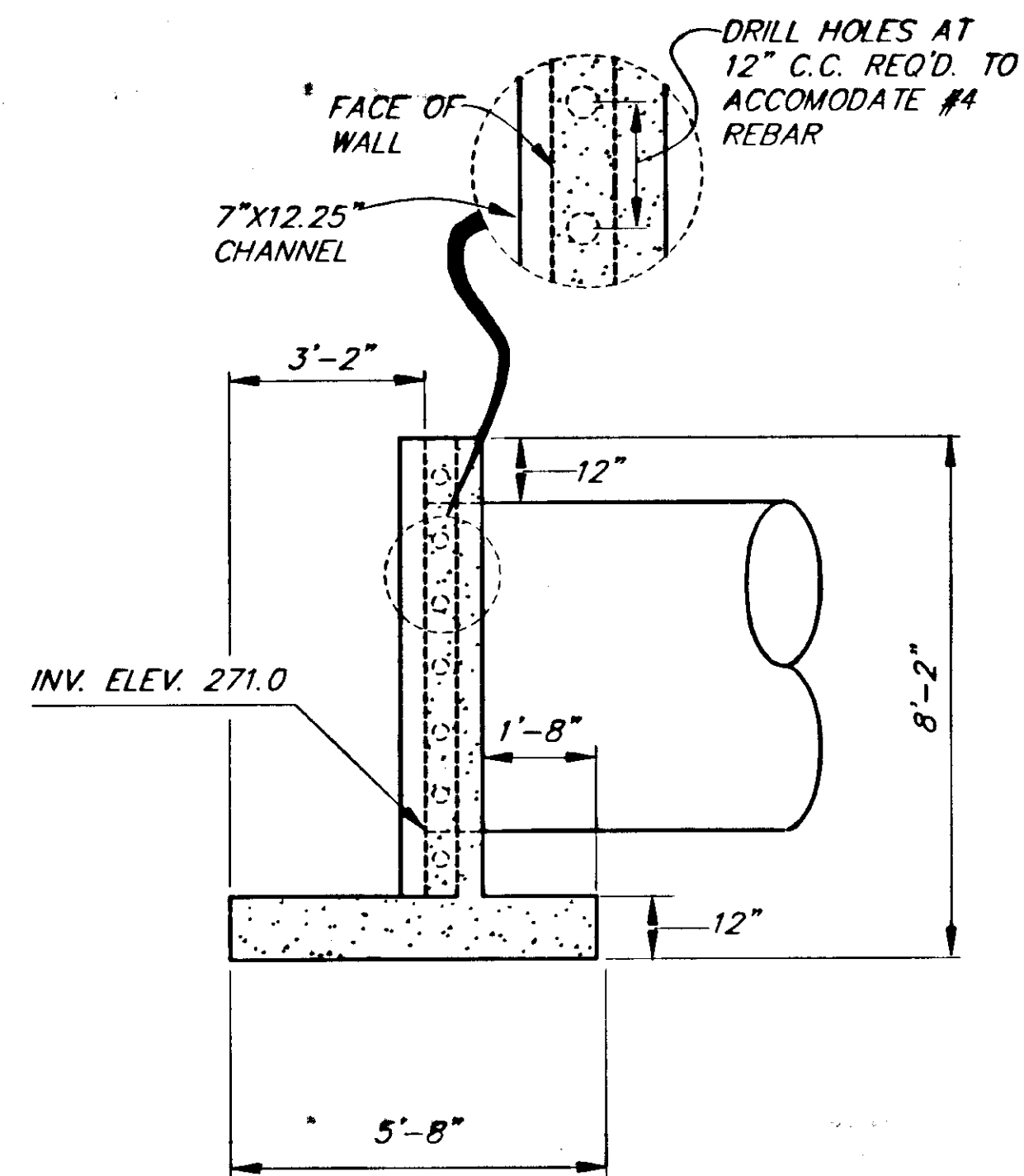
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**DRAINAGE DETAILS**

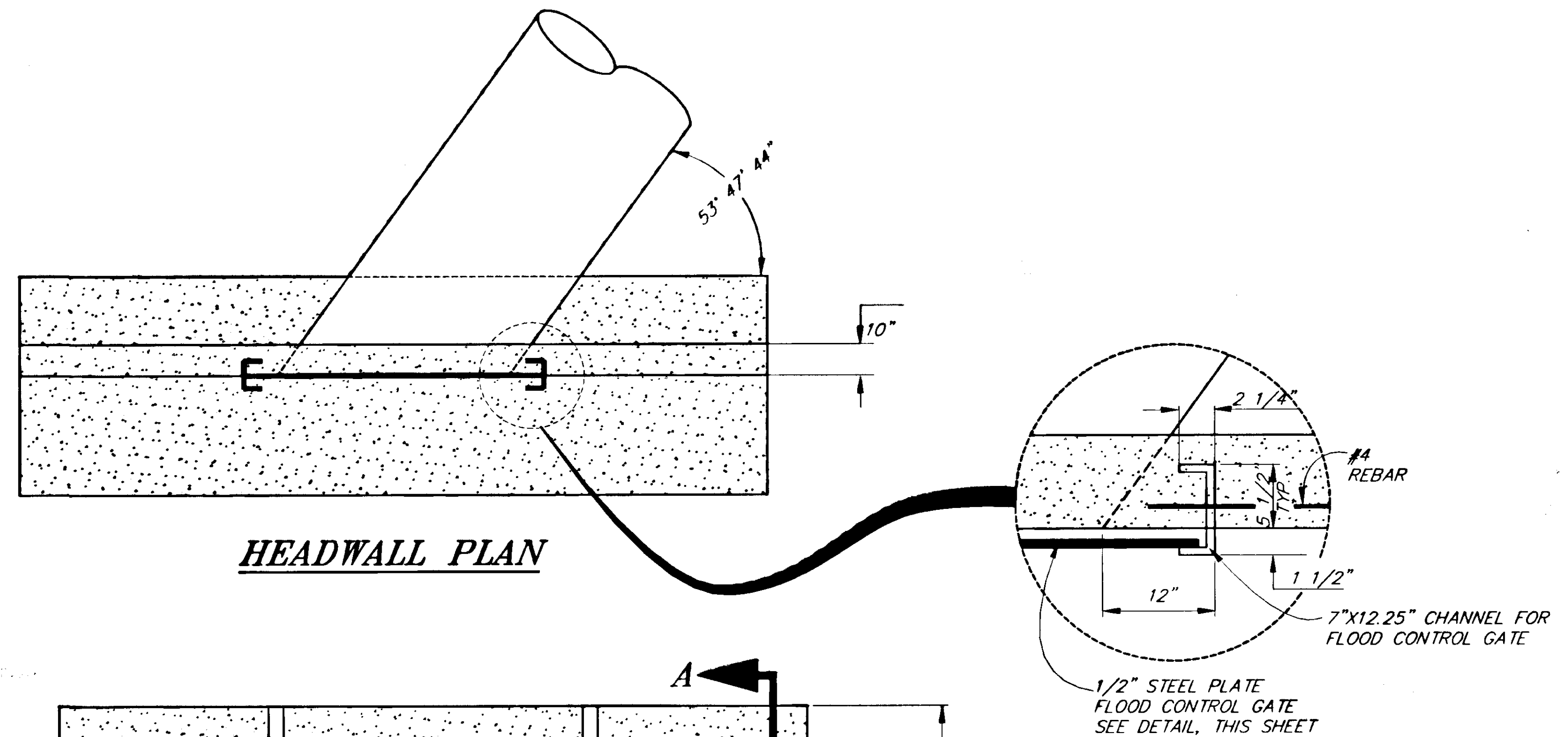
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|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET F1             |



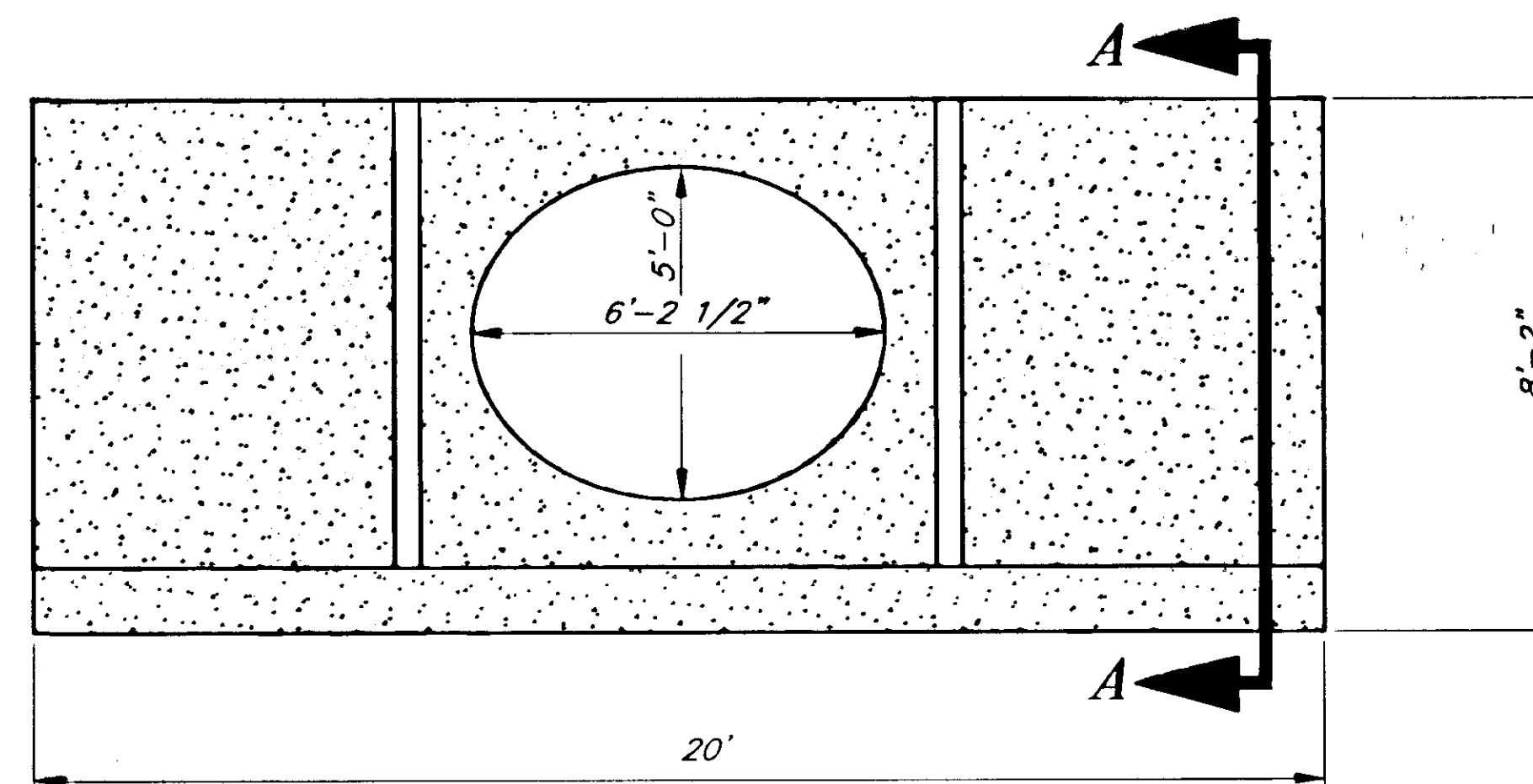
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



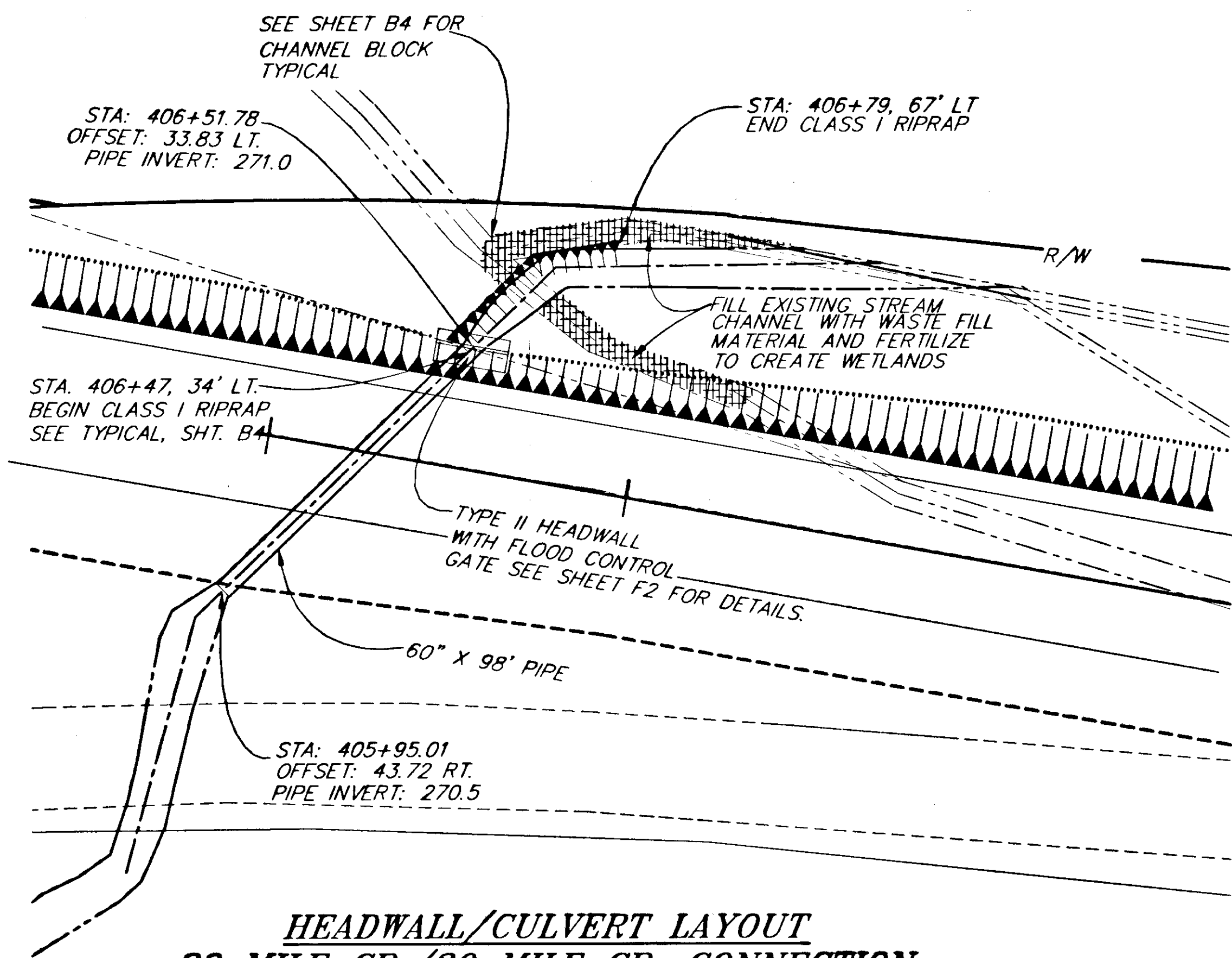
**SECTION A-A**



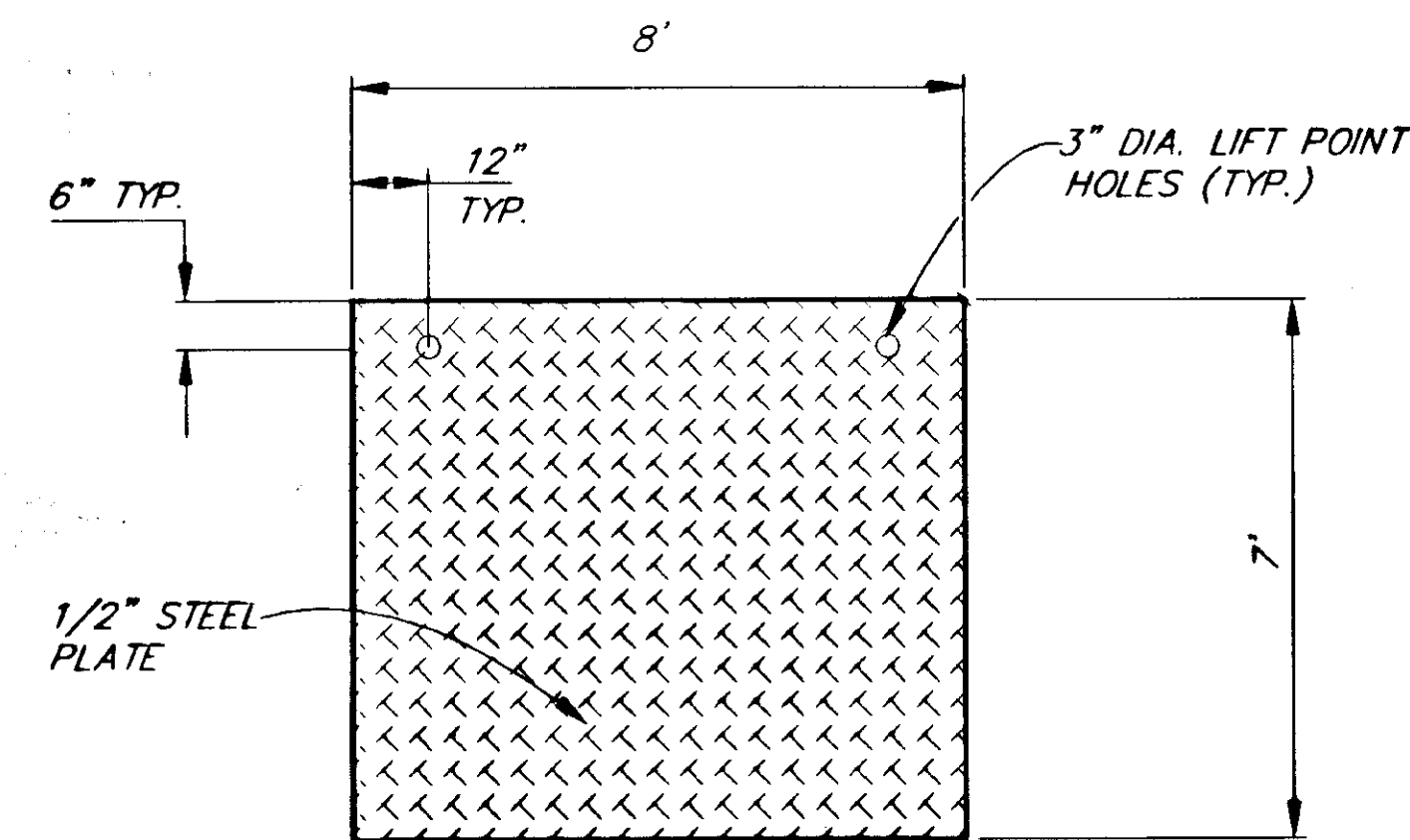
**HEADWALL PLAN**



**HEADWALL ELEVATION**



**HEADWALL/CULVERT LAYOUT  
29 MILE CR./30 MILE CR. CONNECTION**



**FLOOD CONTROL GATE DETAIL**

**NOTES:**

1. REINFORCING STEEL NOT SHOWN FOR CLARITY. SEE STD. DWG. D-30.01 FOR REINFORCEMENT STEEL PLACEMENT IN HEADWALL TYPE II.
2. THE FLOOD CONTROL GATE SHALL BE STORED AT THE D.O.T./P.F. MAINTENANCE YARD IN HAINES, ALASKA. THE FLOOD CONTROL GATE SHALL BE FIELD TESTED FOR FIT PRIOR TO BEING PLACED IN STORAGE.
3. FIELD VERIFY ALL MEASUREMENTS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| RECORD OF REVISIONS             |       |                        |
|---------------------------------|-------|------------------------|
| BY:                             | DATE: | DESCRIPTION OF CHANGE: |
| PATH: P:\HNS\67436\DR\TYP4 1=10 |       |                        |
|                                 |       |                        |

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

HAINES

HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) 71483  
**BANK PROTECTION RIPRAP PLANS  
HEADWALL/FLOOD GATE DETAILS**

ALASKA

DESIGNED BY: C. HAKARI  
DRAWN BY: W. HICKOK  
CHECKED BY: T.W. MOORE

PROJECT NO. 71483  
DATE: 1998  
SHEET F2

ENGINEER'S SEAL



### CONSTRUCTION SIGNS

| CODE     | LEGEND   | SIZE               | QUANT. |
|----------|--|--------------------|--------|
| CW1-4L   |  | 48"X48"            | 1      |
| CW1-4R   |  | 48"X48"            | 1      |
| CW8-3B   | PAVEMENT BREAK                                   | 48"X48"            | 4      |
| CW13-1   | 20 M.P.H.  | 24"X24"            | 2      |
| CW20-2F  | DETOUR AHEAD                                     | 48"X48"            | 2      |
| CW20-4E  | ONE LANE ROAD 1500 FEET                          | 48"X48"            | 4      |
| CW20-7A  | FLAGGER SYMBOL WITH SUPPLEMENTAL PLATE - 500 FT. | 48"X48"<br>24"X18" | 4      |
| CW21-4F  | ROAD WORK AHEAD                                  | 48"X48"            | 4      |
| CW5-1    | ROAD NARROWS                                     | 48"X48"            | 2      |
| CW22-1   | BLASTING ZONE 1000 FT                            | 48"X48"            | 2      |
| CW22-2   | TURN OFF TWO-WAY RADIO                           | 42"X36"            | 2      |
| CW22-3   | END BLASTING ZONE                                | 42"X36"            | 2      |
| R11-2    | ROAD CLOSED                                      | 30"X48"            | 2      |
| M4-10L   |  | 18"X48"            | 1      |
| M4-10R   |  | 18"X24"            | 1      |
| OM-3L(R) | OBJECT MARKER                                    | 12"X36"            | 4      |

### PERMANENT CONSTRUCTION SIGNS

| CODE    | LEGEND                 | SIZE    | QUANT. |
|---------|------------------------|---------|--------|
| G20-1   | ROAD WORK NEXT 8 MILES | 60"X24" | 2      |
| G20-2A  | END ROAD WORK          | 48"X24" | 4      |
| CW21-4F | ROAD WORK AHEAD        | 48"X48" | 4      |
| CW1-7   |                        | 48"X24" | 2      |

#### FORMULAS FOR L (TAPER LENGTH)

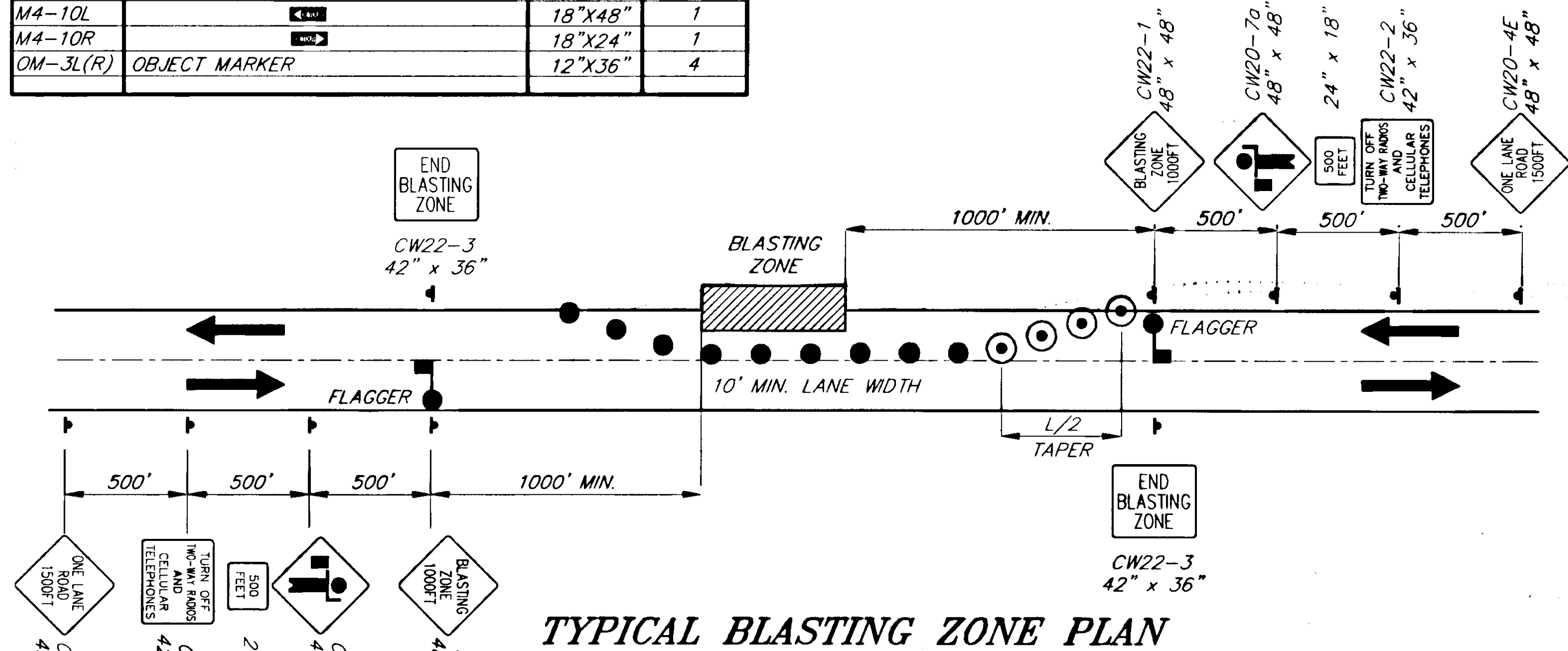
40 MPH OR LESS  $L = \frac{W \times S^2}{60}$  WHERE W = WIDTH OF OFFSET  
 S = POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

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

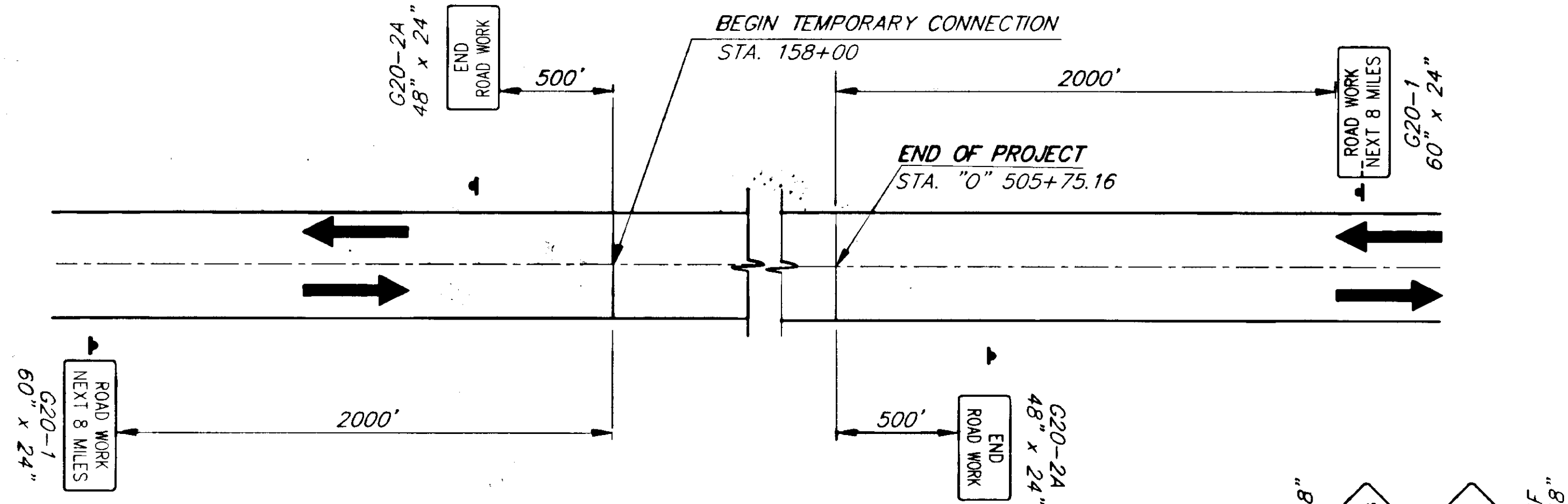
DRUM OR CONE SPACING..... = S (IN FEET)

### TRAFFIC CONTROL NOTES

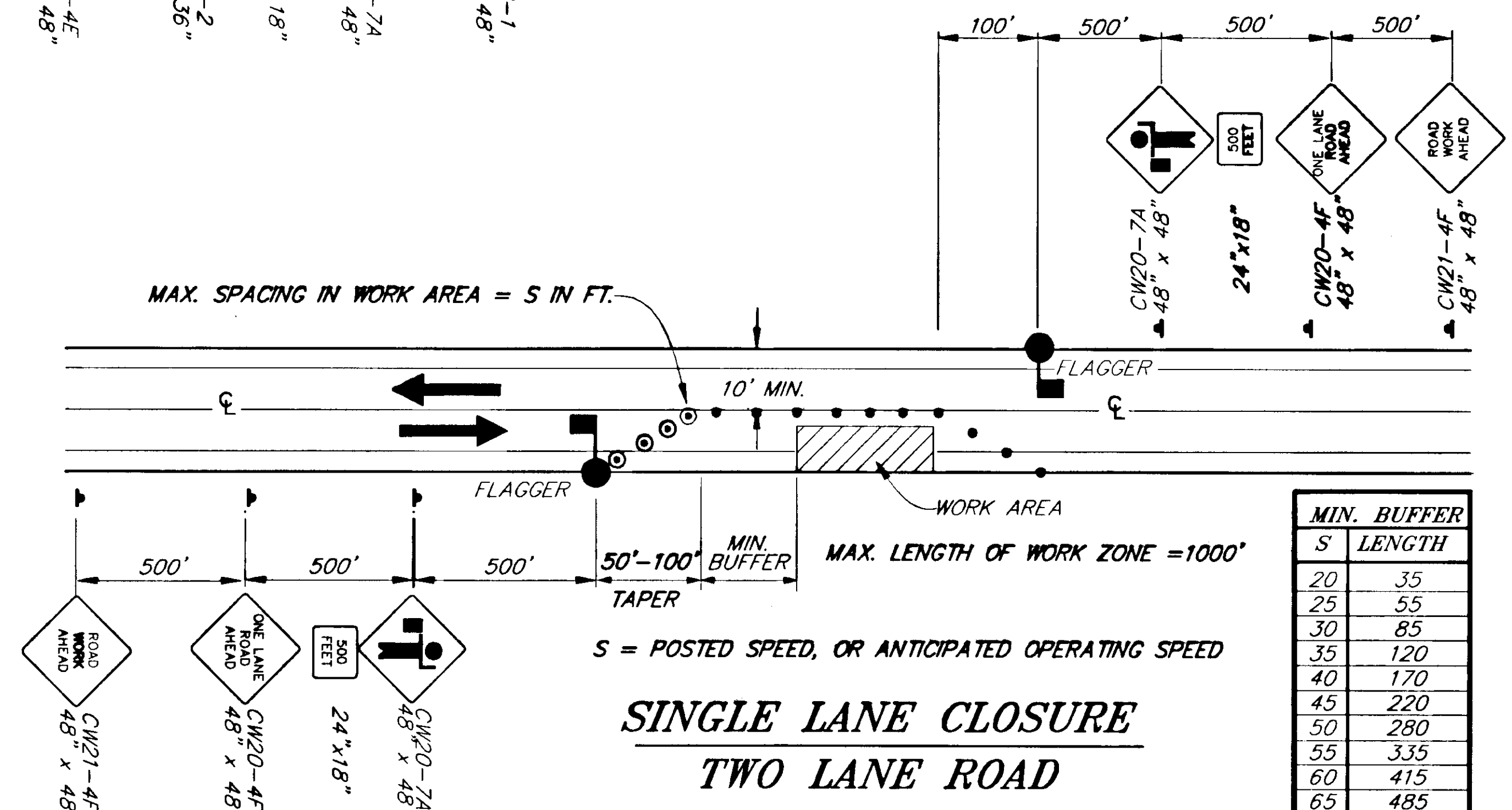
1. A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
2. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
3. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
4. DRIVEWAYS MAY BE CLOSED DURING ACTUAL WORK ON A GIVEN DRIVEWAY, PROVIDED THAT THE CLOSURE DOES NOT EXCEED 8 HOURS AND THE AFFECTED RESIDENTS HAVE BEEN GIVEN 24 HOURS NOTICE OF THE CLOSURE.
5. THE MAXIMUM LENGTH OF A ONE LANE, TWO-WAY WORK AREA SHALL BE 2500 FT. THE MINIMUM SEPARATION BETWEEN ONE LANE WORK AREAS SHALL BE 2000 FT.
6. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.09 OF THE SPECIFICATIONS.
7. FLOOD LIGHTS SHALL BE PROVIDED FOR FLAGGER STATIONS DURING NIGHT OPERATIONS.
8. A SINGLE FLAGGER MAY BE APPROVED BY THE ENGINEER IF THE ENTIRE WORK AREA IS VISIBLE FROM THE FLAGGER STATION.
9. THE CONSTRUCTION SIGN SUMMARY SHOWN IN THESE PLANS IS TO BE USED FOR COST ESTIMATING ONLY. ADDED SIGNS MAY BE REQUIRED BY THE ENGINEER.
10. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
11. THE CONTRACTOR SHOULD BE AWARE OF AND ACCOUNT FOR, IN HIS CONSTRUCTION PLAN, THE HIGHER TRAFFIC VOLUMES ASSOCIATED WITH THE ARRIVAL AND DEPARTURE OF FERRIES AT THE ALASKA MARINE HIGHWAY TERMINAL IN HAINES.
12. CHANNELIZATION DEVICES, IF USED AT NIGHT, SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.



TYPICAL BLASTING ZONE PLAN



ROADWAY ENCROACHMENT

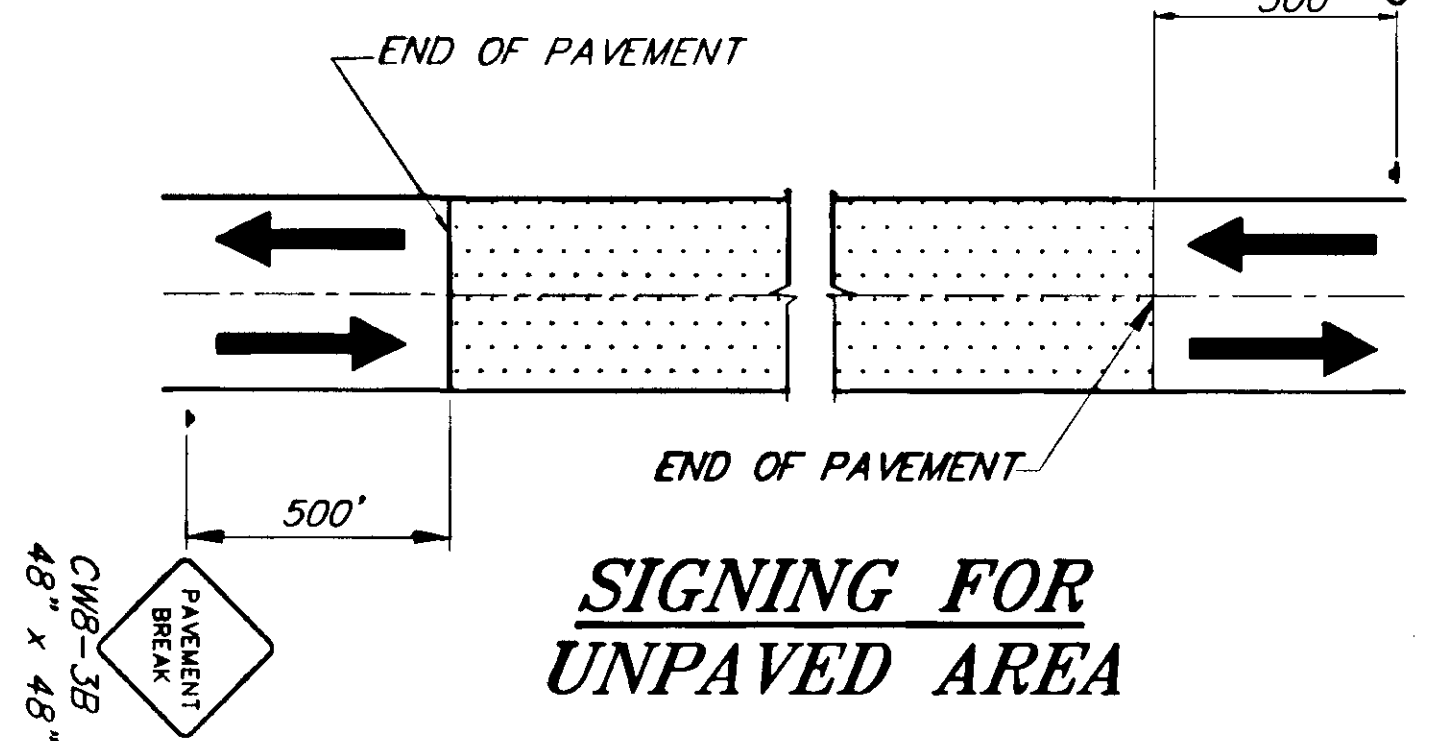


SINGLE LANE CLOSURE TWO LANE ROAD

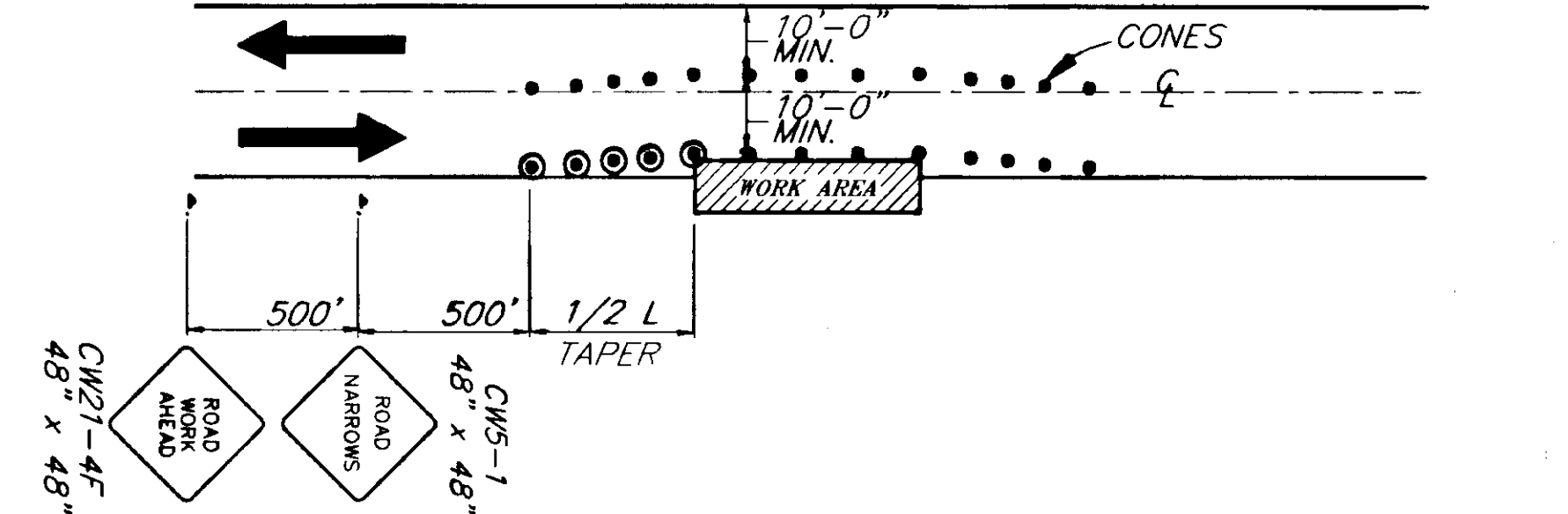
| S  | MIN. BUFFER LENGTH |
|----|--------------------|
| 20 | 35                 |
| 25 | 55                 |
| 30 | 85                 |
| 35 | 120                |
| 40 | 170                |
| 45 | 220                |
| 50 | 280                |
| 55 | 335                |
| 60 | 415                |
| 65 | 485                |

LEGEND

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



SIGNING FOR UNPAVED AREA



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 MAY BE DELETED.

RECORD OF REVISIONS

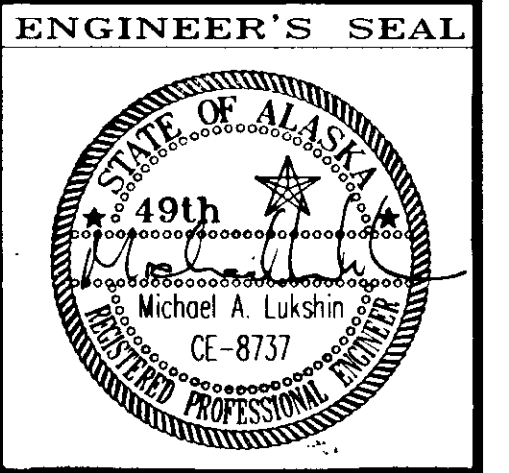
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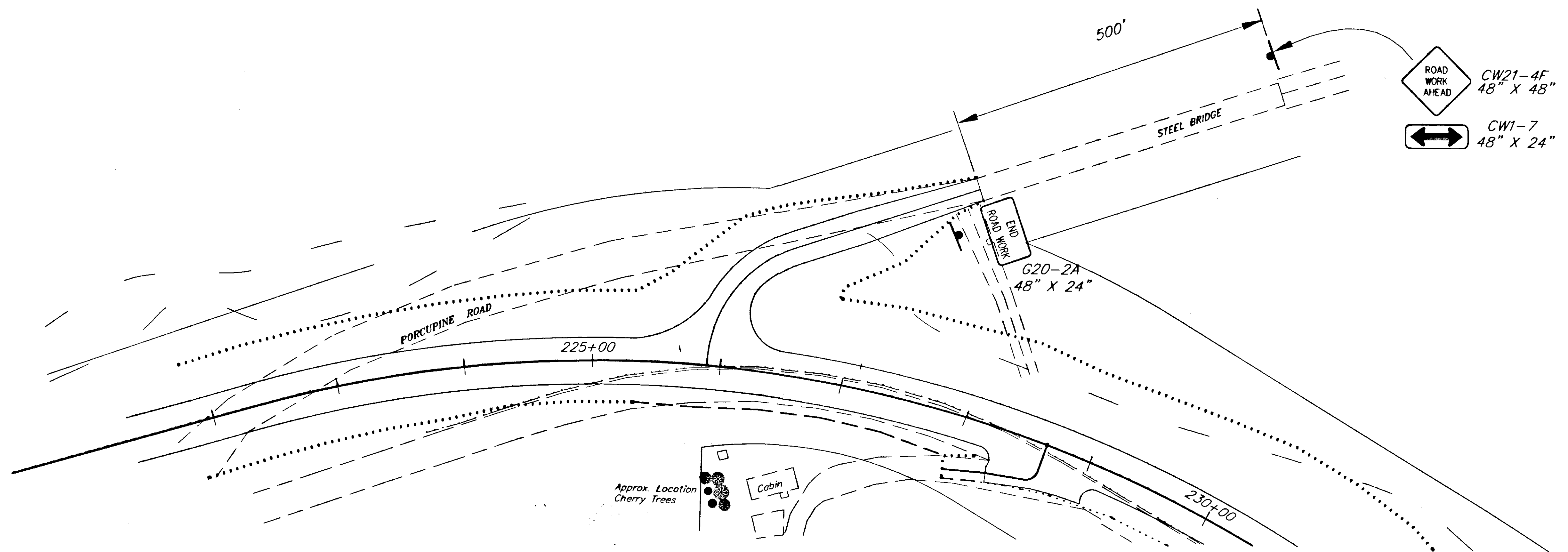
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**TRAFFIC CONTROL PLAN**

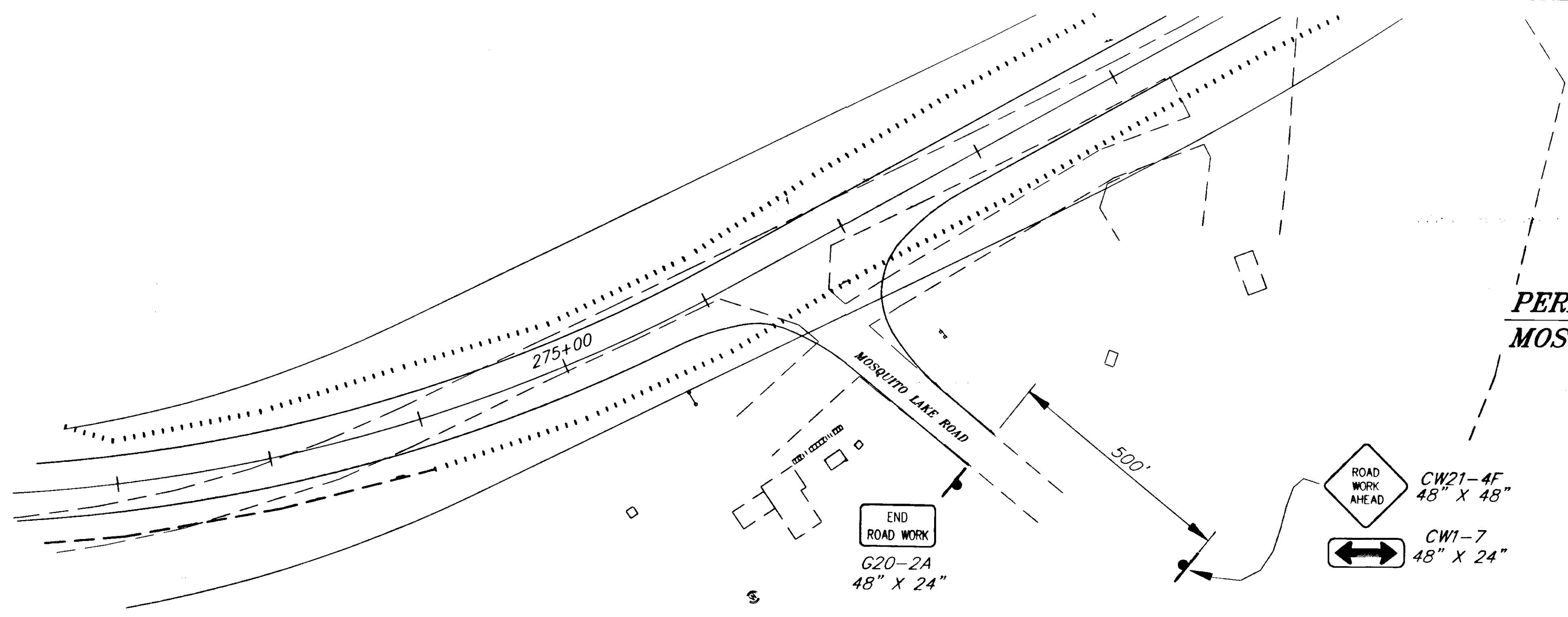
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>C. ANDERSON  | DATE:<br>1998        |
| CHECKED BY:<br>M. LUKSHIN | SHEET<br>G1          |





**PERMANENT CONSTRUCTION SIGNING  
PORCUPINE ROAD INTERSECTION**



**PERMANENT CONSTRUCTION SIGNING  
MOSQUITO LAKE ROAD INTERSECTION**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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| BY:                             | DATE: | DESCRIPTION OF CHANGE: |
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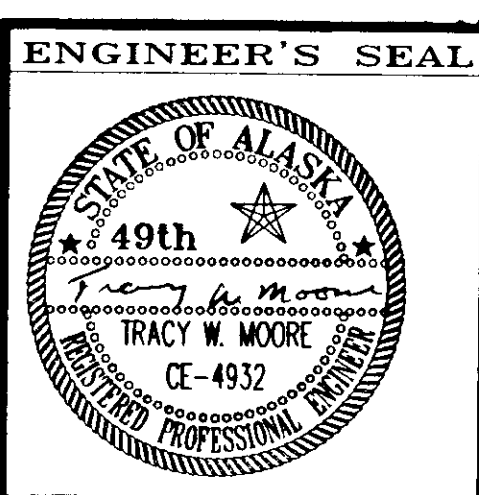
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

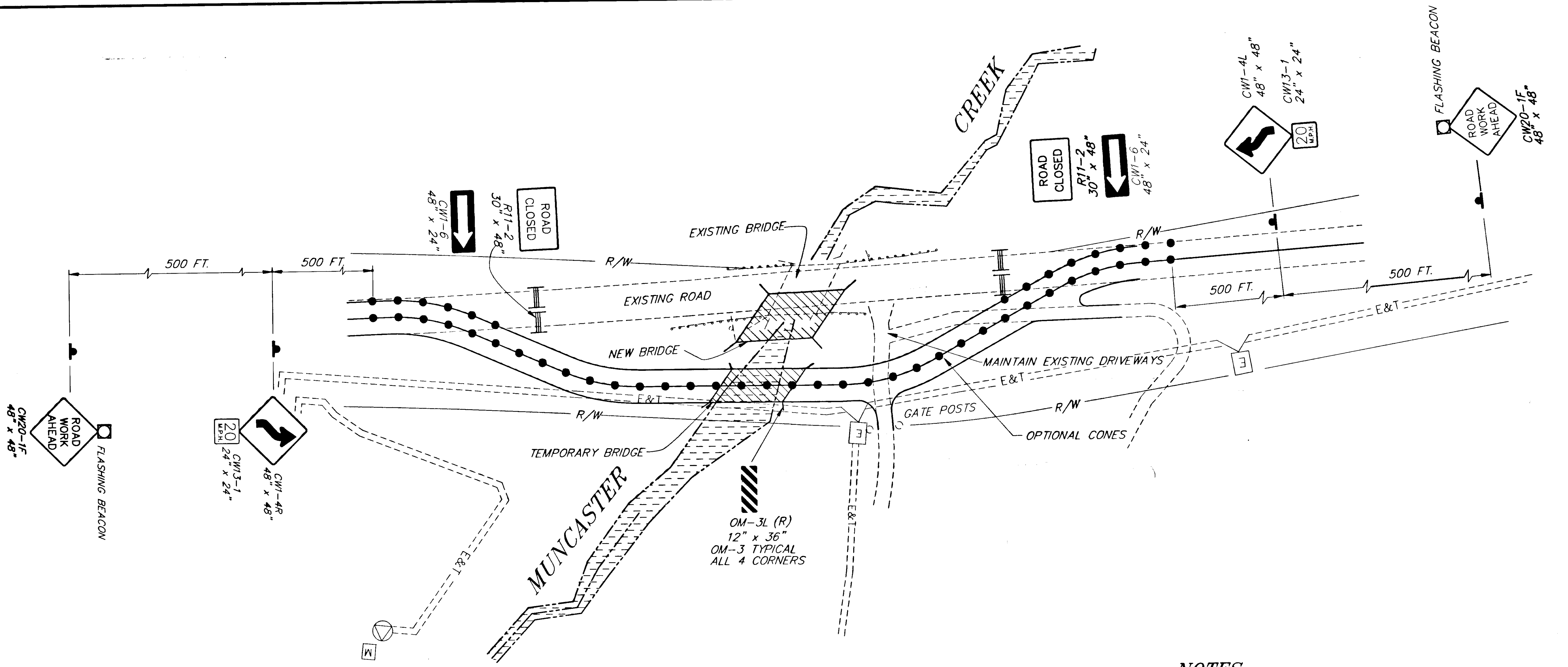
HAINES

HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-(14) - 71483  
**TRAFFIC CONTROL PLAN  
INTERSECTIONS**

ALASKA

|                          |                   |
|--------------------------|-------------------|
| DESIGNED BY: D. KROMAREK | PROJECT NO. 71483 |
| DRAWN BY: W. HICKOK      | DATE: 1998        |
| CHECKED BY: T.W. MOORE   | SHEET G2          |





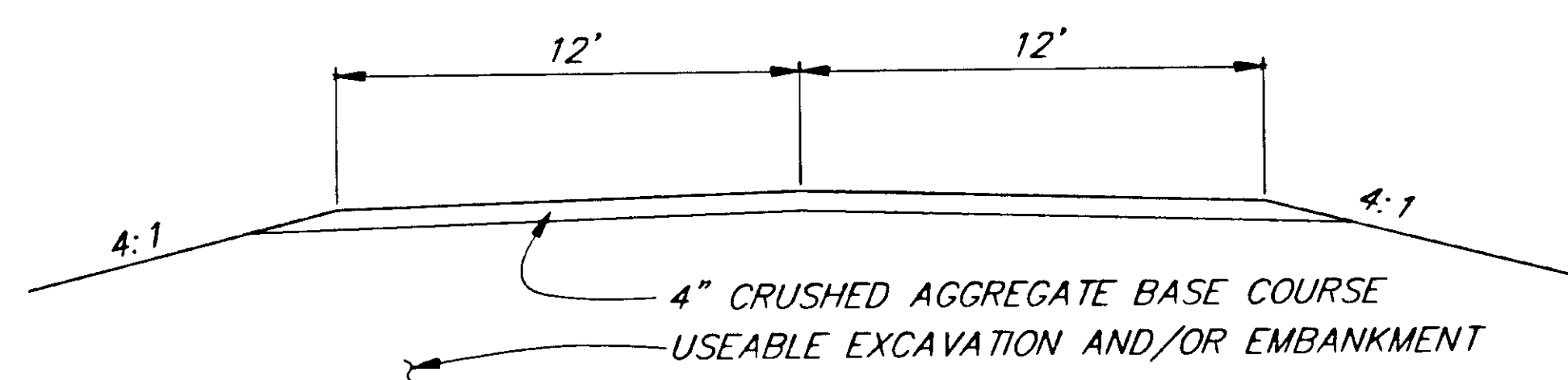
OM-3L (R)  
12" x 36"  
OM-3 TYPICAL  
ALL 4 CORNERS

**NOTES**

1. MINIMUM LANE WIDTH SHALL BE 12'
2. MINIMUM CURVE RADIUS SHALL BE 150'
3. MINIMUM CONE SPACING SHALL BE 20'
4. MINIMUM CLEAR ZONE SHALL BE 7'. CLEAR ZONE MEANS THE WIDTH OF AN AREA FREE FROM OBSTACLES WITH SLOPES NO STEEPER THAN 4:1, MEASURED FROM THE EDGE OF THE 12' LANE.
5. TEMPORARY BRIDGE AND DETOUR SHALL BE BUILT WITHIN THE EXISTING RIGHT OF WAY.
6. FLASHING BEACONS SHALL BE TYPE "B" (HIGH INTENSITY FLASHING) WARNING LIGHTS IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.

**LEGEND**

- ..... SIGN
- ..... CONE
- ⊙ ..... DRUM
- I ..... TYPE III BARRICADE
- ⌋ ..... FLAGGING STATION



**TYPICAL DETOUR SECTION**

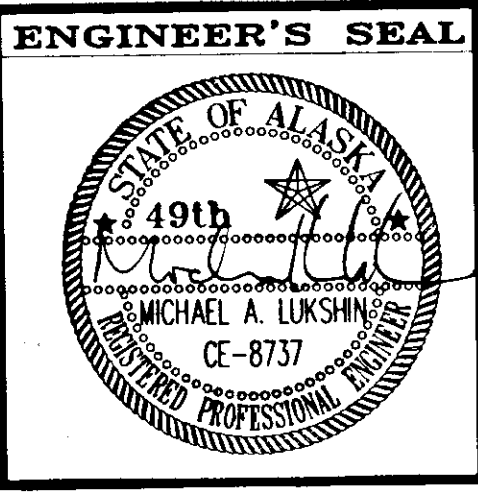
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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| <b>RECORD OF REVISIONS</b>       |       |                        |

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

HAINES  
ALASKA  
**HAINES HIGHWAY**  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**TRAFFIC CONTROL PLAN**  
**MUNCASTER BRIDGE DETOUR**

|              |            |             |       |
|--------------|------------|-------------|-------|
| DESIGNED BY: | K. MATTSON | PROJECT NO. | 71483 |
| DRAWN BY:    | K. MATTSON | DATE:       | 1998  |
| CHECKED BY:  | M. LUKSHIN | SHEET       | G3    |

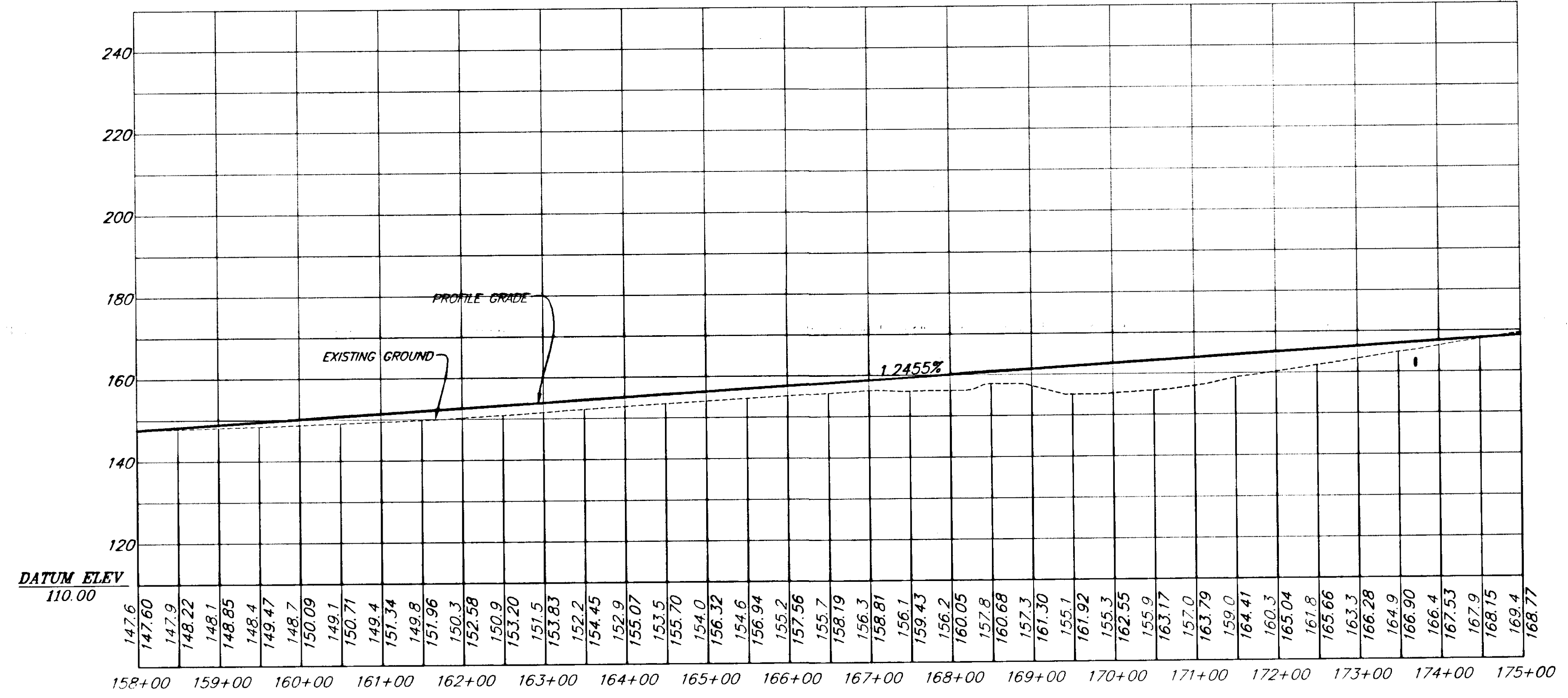
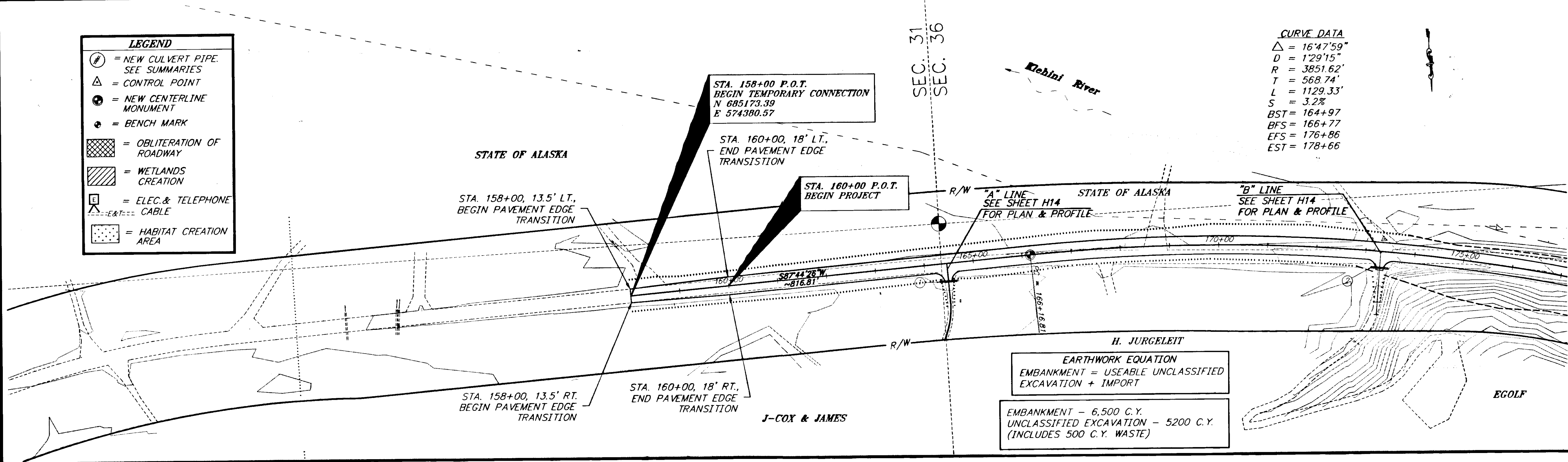


**LEGEND**

- ⊕ = NEW CULVERT PIPE. SEE SUMMARIES
- △ = CONTROL POINT
- ⊙ = NEW CENTERLINE MONUMENT
- = BENCH MARK
- ▨ = OBLITERATION OF ROADWAY
- ▧ = WETLANDS CREATION
- ⊞ = ELEC. & TELEPHONE CABLE
- ⊞ = HABITAT CREATION AREA

**CURVE DATA**

- Δ = 16'47.59"
- D = 129'15"
- R = 3851.62'
- T = 568.74'
- L = 1129.33'
- S = 3.2%
- BST = 164+97
- BFS = 166+77
- EFS = 176+86
- EST = 178+66



NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

**RECORD OF REVISIONS**

| NO. | DATE | DESCRIPTION OF CHANGE |
|-----|------|-----------------------|
|     |      |                       |

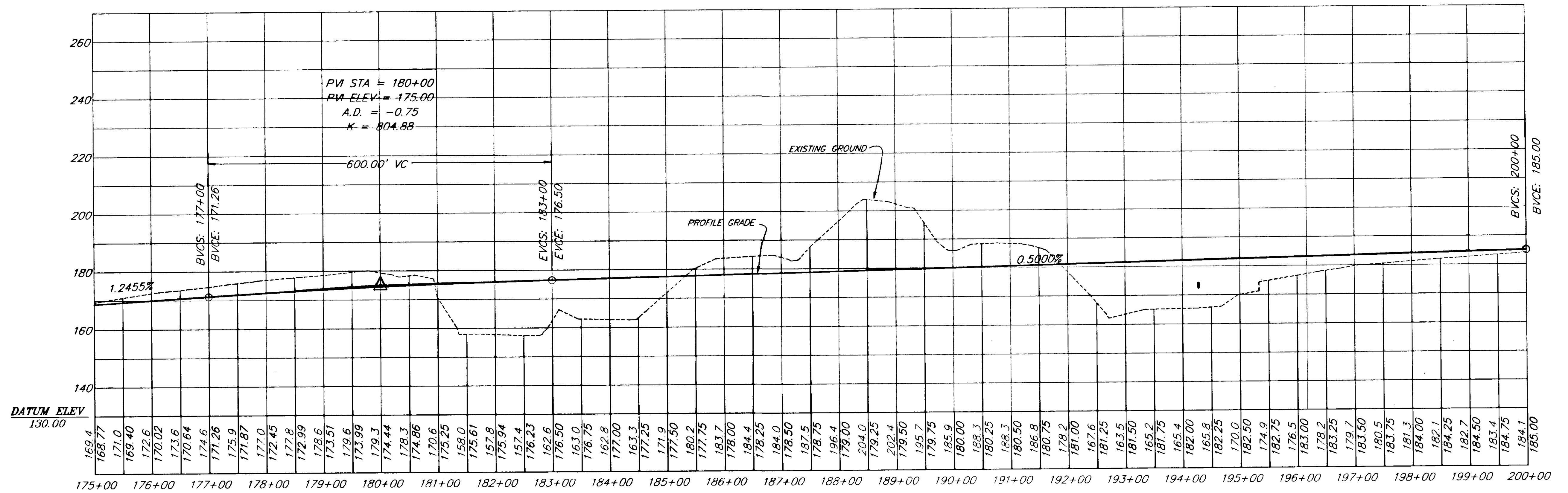
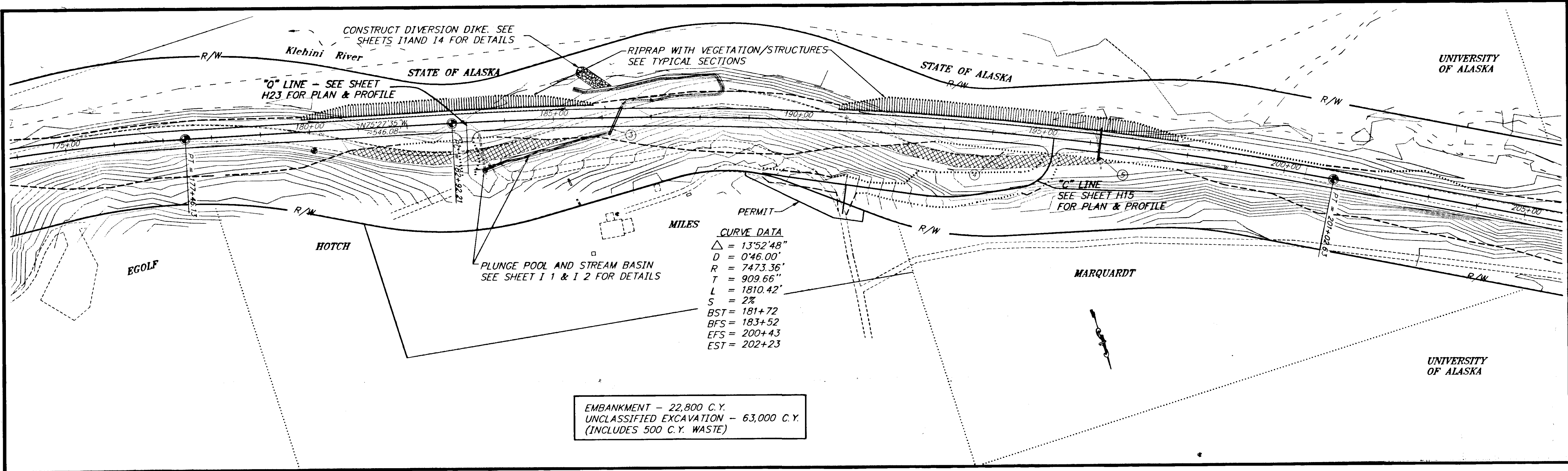
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 STA. 158+00 TO 175+00  
 ALASKA

DESIGNED BY: C. HAKARI  
 DRAWN BY: W. HICKOK  
 CHECKED BY: T. MOORE

PROJECT NO. 71483  
 DATE: 1998  
 SHEET H1





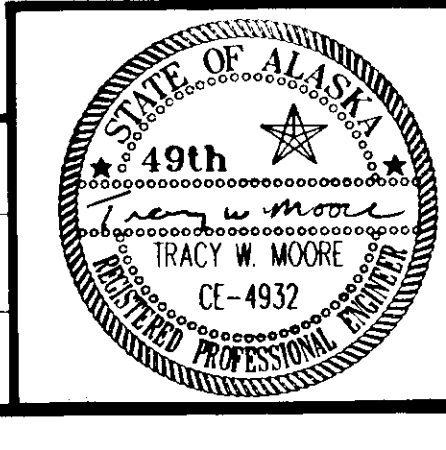
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| BY:                 | DATE:                                    | DESCRIPTION OF CHANGE: |
|                     |  |                        |

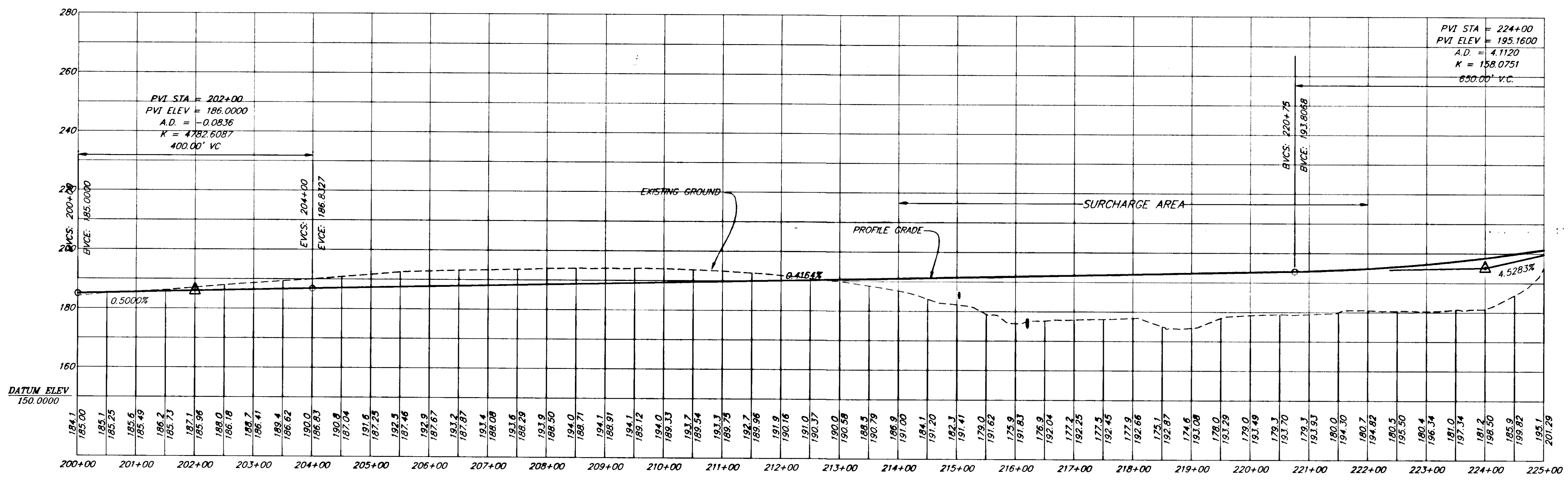
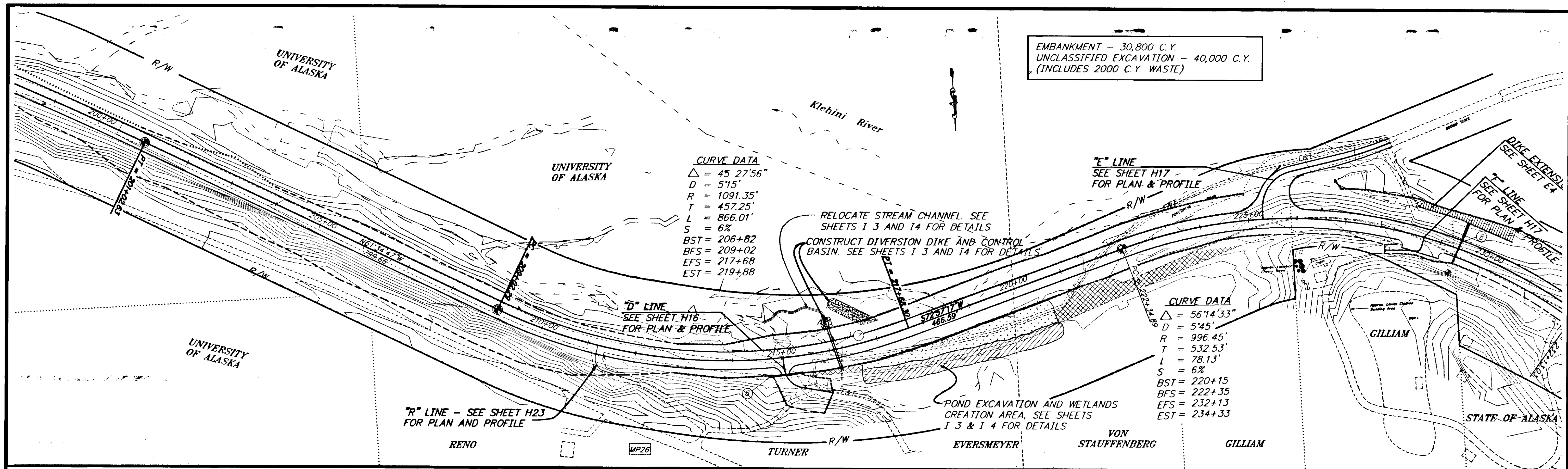
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 STA. 175+00 TO 200+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET H2             |



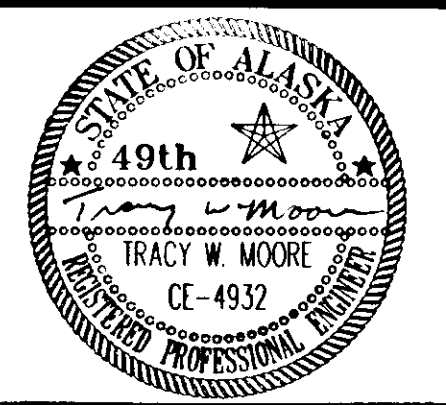


| RECORD OF REVISIONS |  |                        |
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| PATH:               | P:\HNS\67436\DR\PLAN                       |                        |
| PLOT:               | P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2) |                        |
| BY:                 | DATE:                                      | DESCRIPTION OF CHANGE: |
|                     |  |                        |

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

HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 ALASKA  
 STA. 200+00 TO 225+00

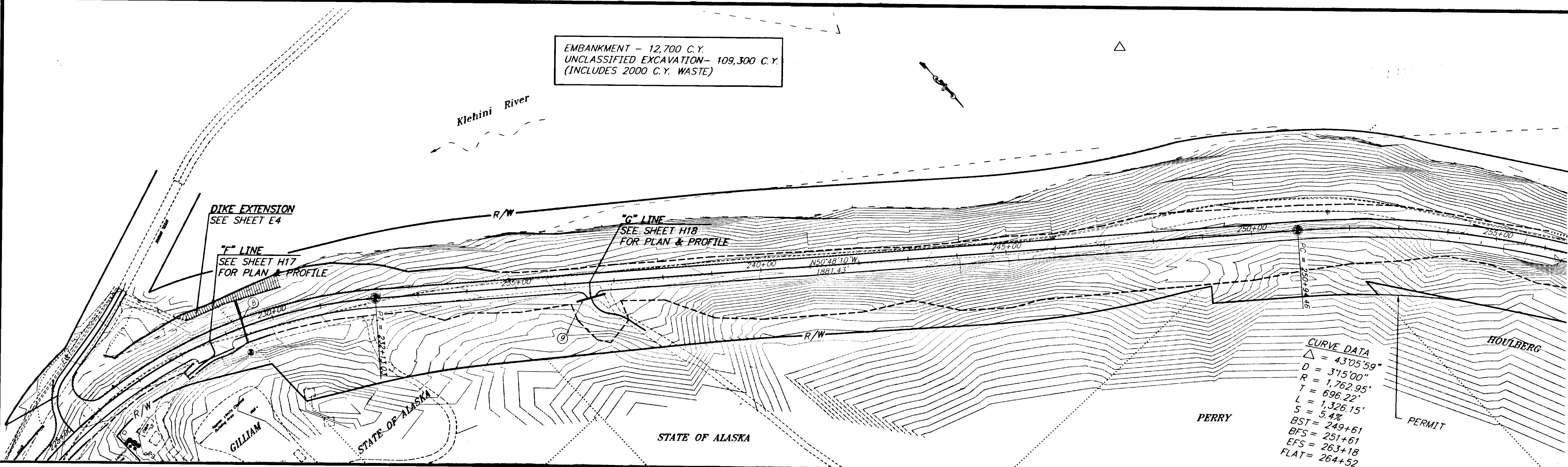
|              |           |             |       |
|--------------|-----------|-------------|-------|
| DESIGNED BY: | C. HAKARI | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK | DATE:       | 1998  |
| CHECKED BY:  | T. MOORE  | SHEET H3    |       |



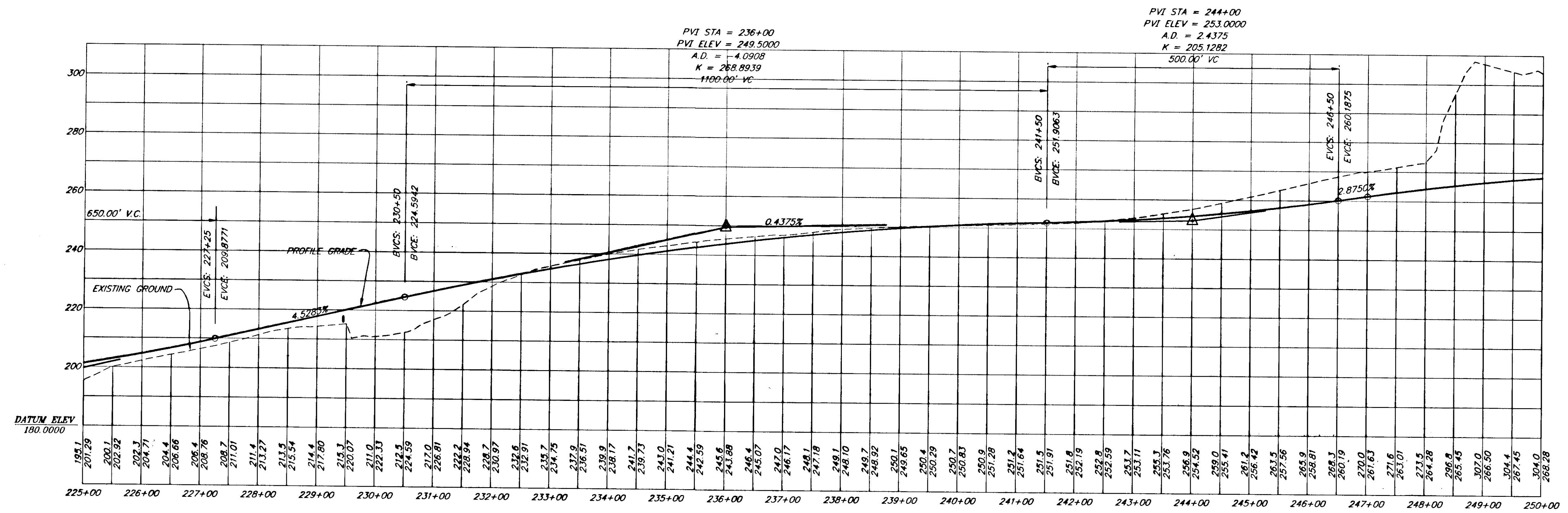
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



EMBANKMENT - 12,700 C.Y.  
 UNCLASSIFIED EXCAVATION - 109,300 C.Y.  
 (INCLUDES 2000 C.Y. WASTE)



**CURVE DATA**  
 $\Delta = 43^{\circ}05'59''$   
 $D = 315'00''$   
 $R = 1,762.95'$   
 $T = 696.22'$   
 $L = 1,326.15'$   
 $S = 5.4\%$   
 $BST = 249+61$   
 $BFS = 251+61$   
 $EFS = 263+18$   
 $FLAT = 264+52$



| RECORD OF REVISIONS |                        |  |
|---------------------|------------------------|--|
| DATE:               | DESCRIPTION OF CHANGE: |  |
|                     |                        |  |
|                     |                        |  |

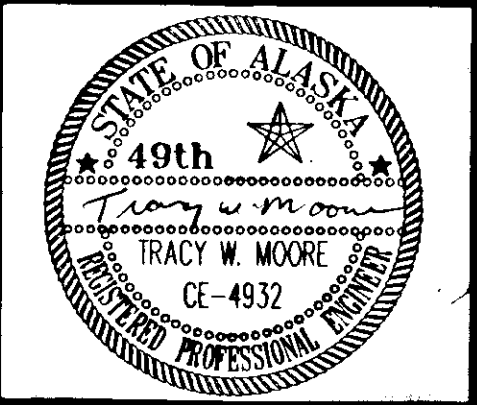
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

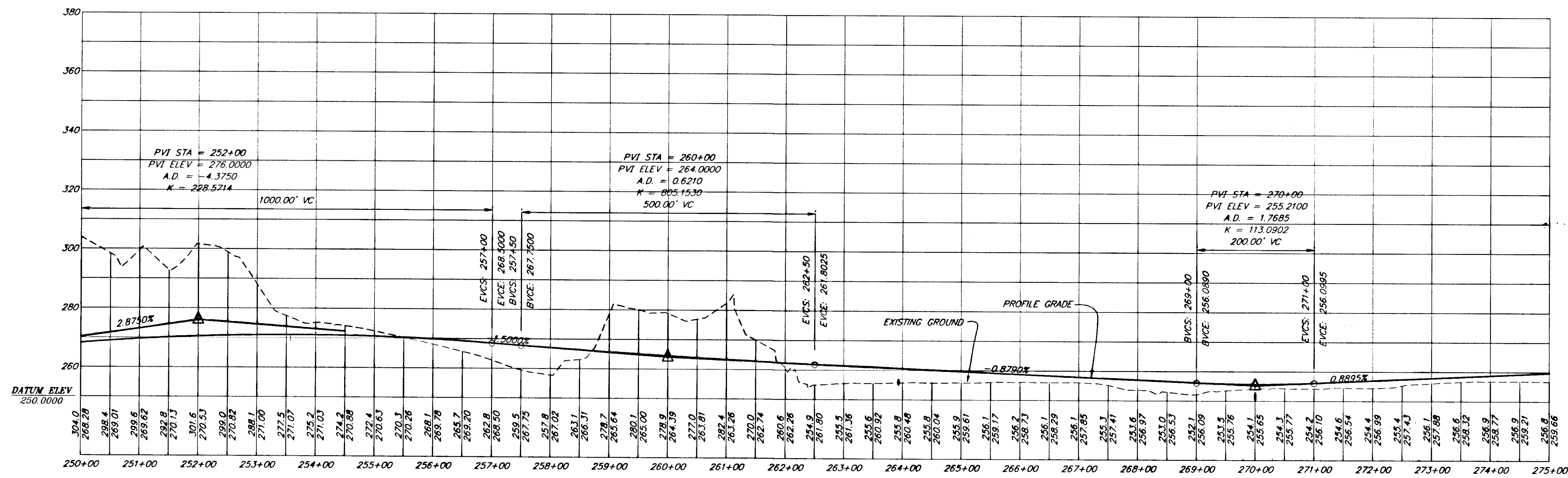
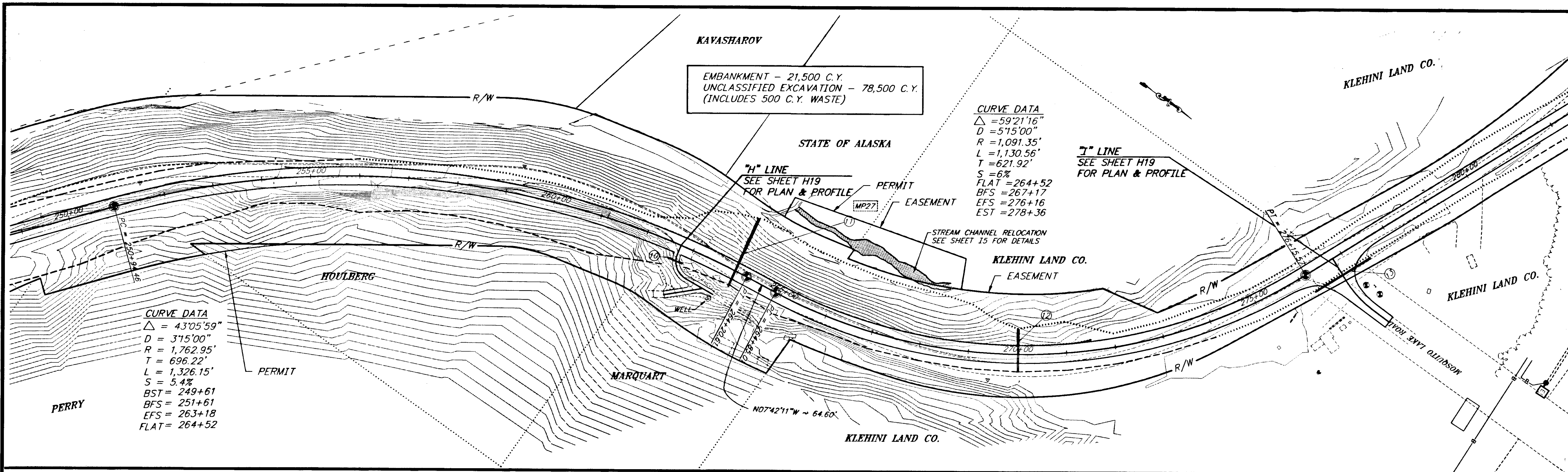
HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 STA. 225+00 TO 250+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ALASKA  
 DESIGNED BY: C. HAKARI  
 DRAWN BY: W. HICKOK  
 CHECKED BY: T. MOORE

PROJECT NO. 71483  
 DATE: 1998  
 SHEET #4





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

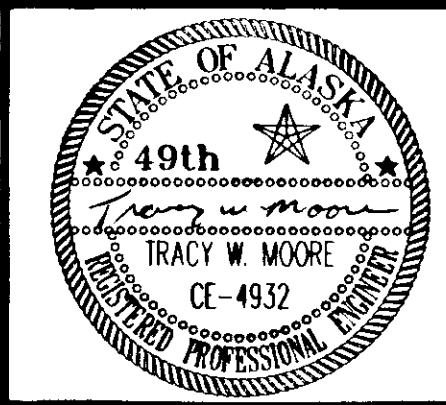
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|---------------------|---|------------------------|
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| PLOT:               | P:\LIB\PLOT\PL0T.PCP(1) OR PL0TH.PCP(2) |                        |
| BY:                 | DATE:                                   | DESCRIPTION OF CHANGE: |
|                     |   |                        |

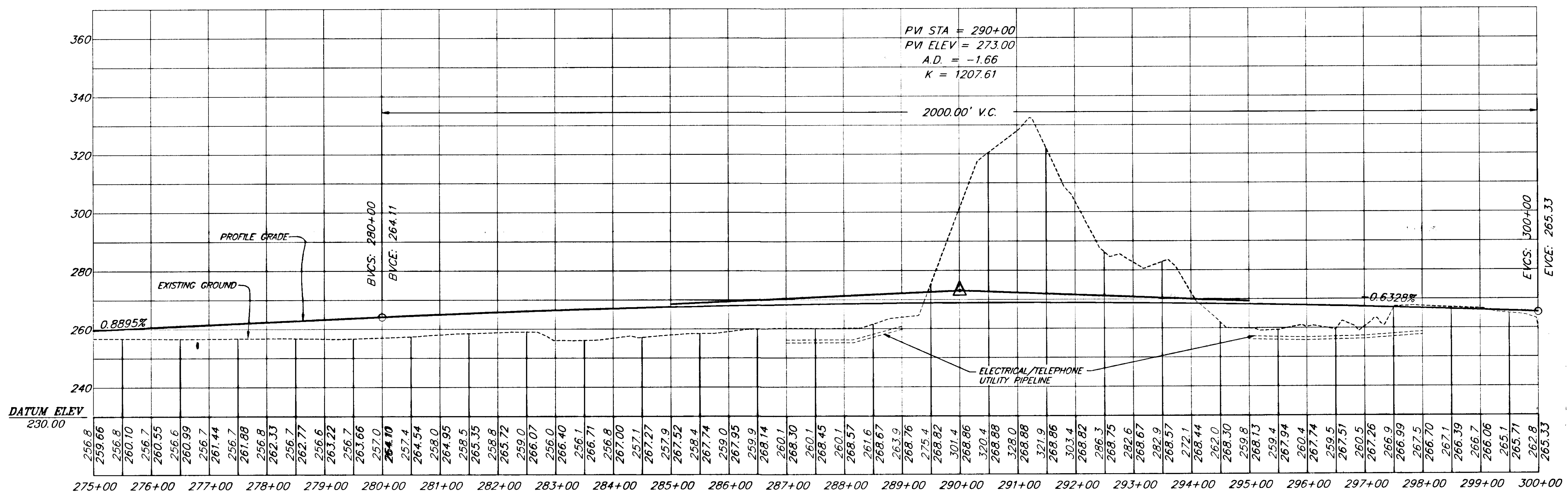
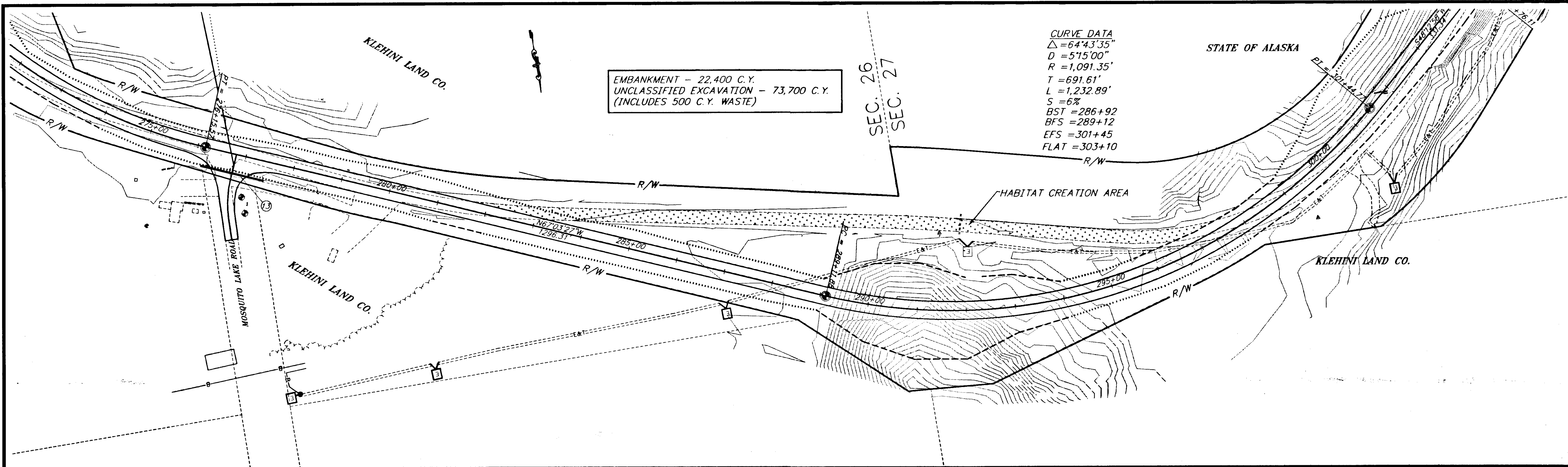
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 STA. 250+00 TO 275+00

ALASKA  
 DESIGNED BY: C. HAKARI  
 DRAWN BY: W. HICKOK  
 CHECKED BY: T. MOORE

PROJECT NO. 71483  
 DATE: 1998  
 SHEET H5





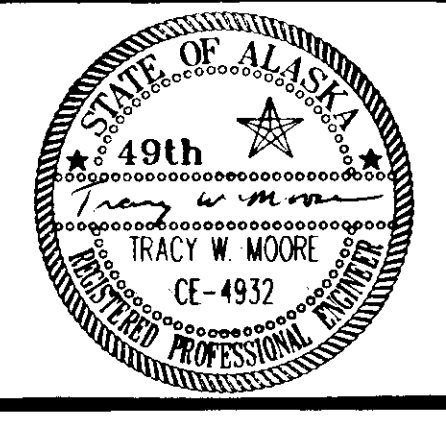
| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

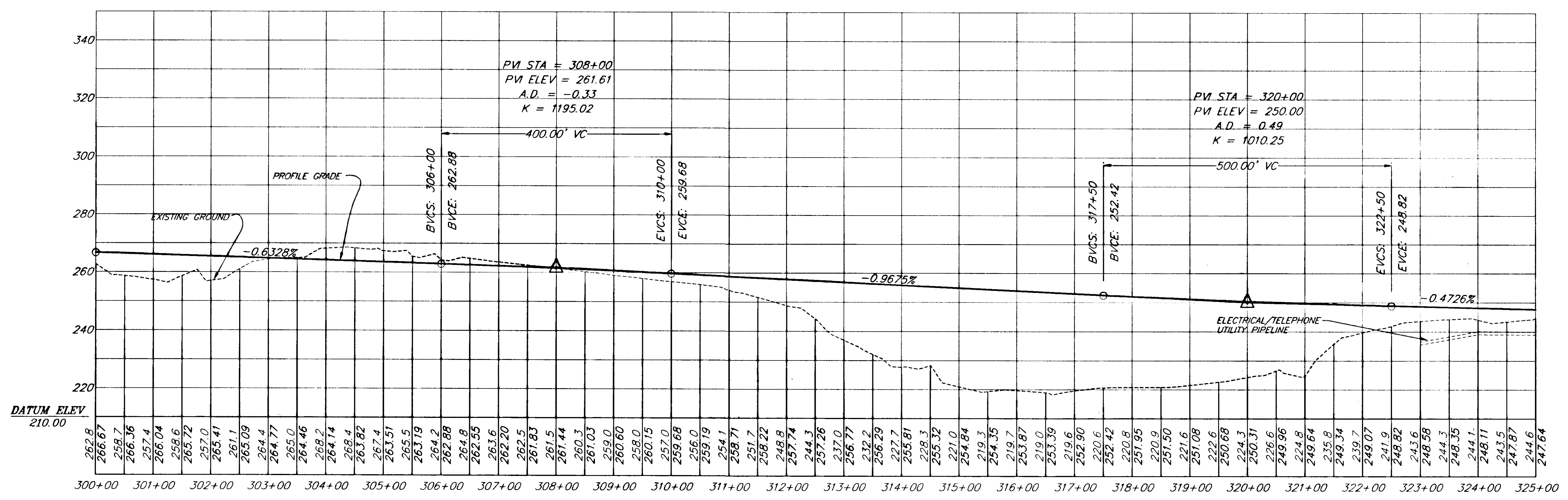
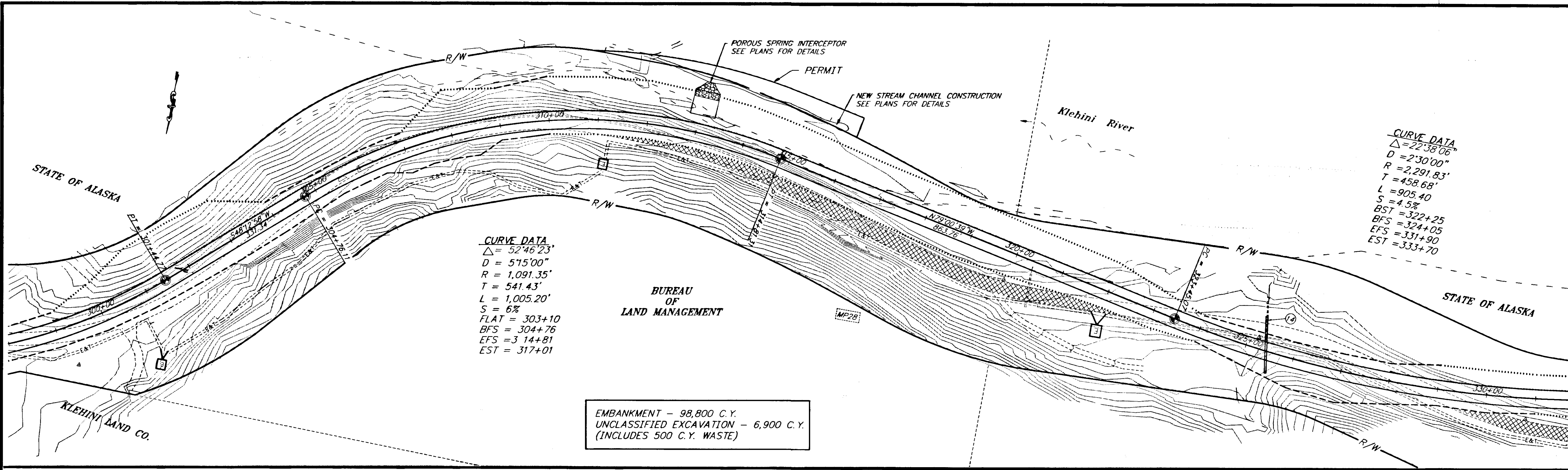
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**STA. 275+00 TO 300+00**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET H6             |





| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

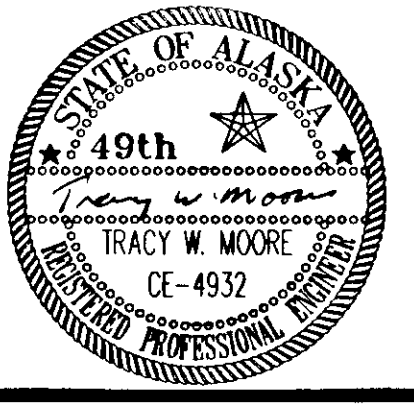
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES

HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 STA. 300+00 TO 325+00

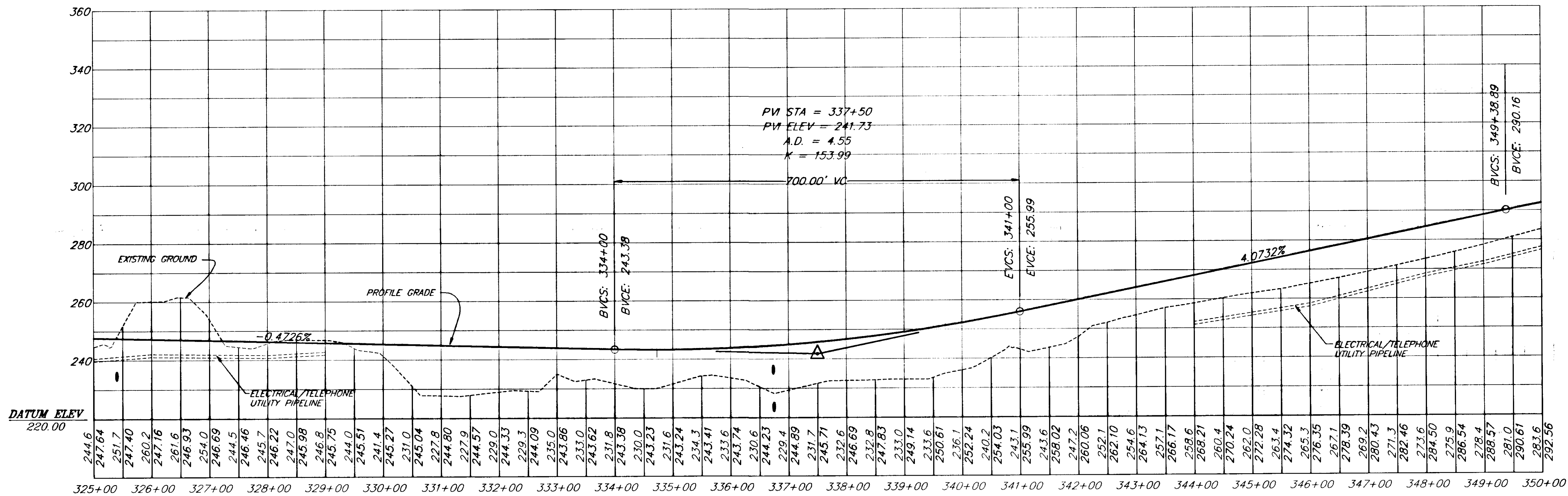
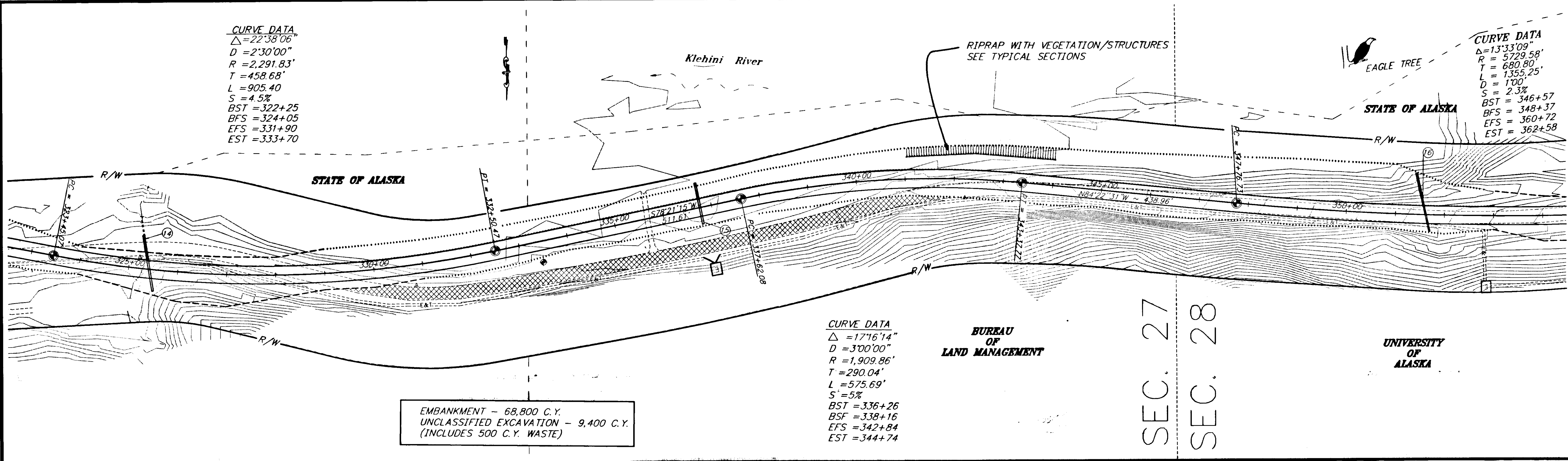
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET H7             |



**CURVE DATA**  
 $\Delta = 22^{\circ}38'06"$   
 $D = 2^{\circ}30'00"$   
 $R = 2,291.83'$   
 $T = 458.68'$   
 $L = 905.40$   
 $S = 4.5\%$   
 $BST = 322+25$   
 $BFS = 324+05$   
 $EFS = 331+90$   
 $EST = 333+70$

**CURVE DATA**  
 $\Delta = 13^{\circ}33'09"$   
 $R = 5729.58'$   
 $T = 680.80'$   
 $L = 1355.25'$   
 $D = 1^{\circ}00'$   
 $S = 2.3\%$   
 $BST = 346+57$   
 $BFS = 348+37$   
 $EFS = 360+72$   
 $EST = 362+58$



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

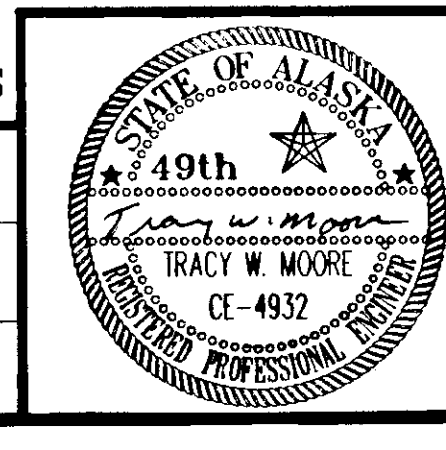
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

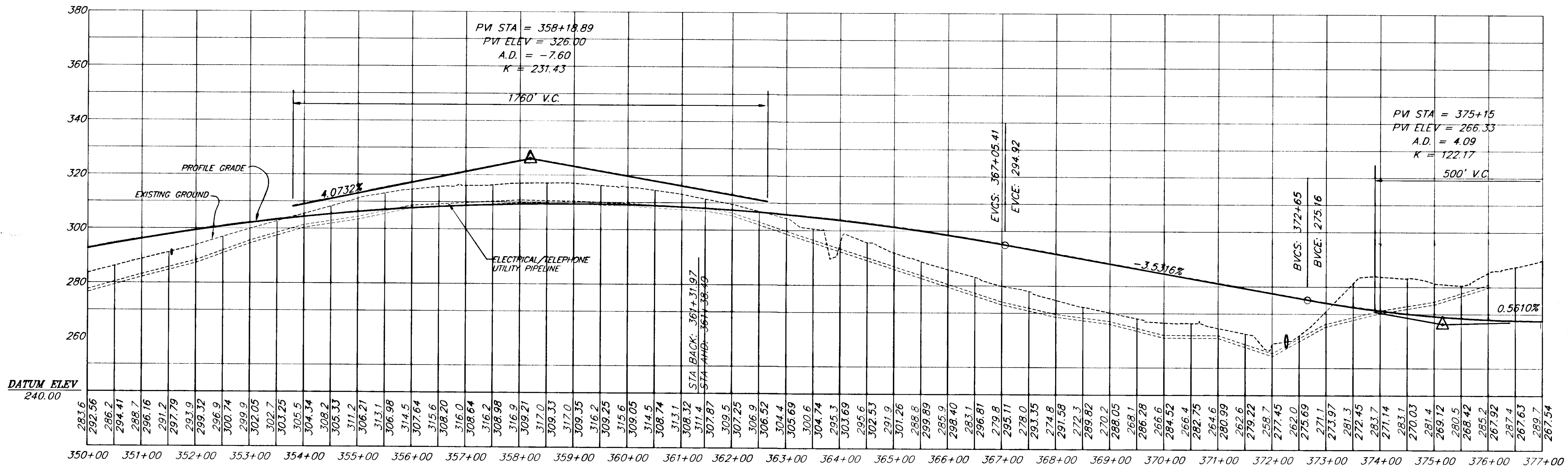
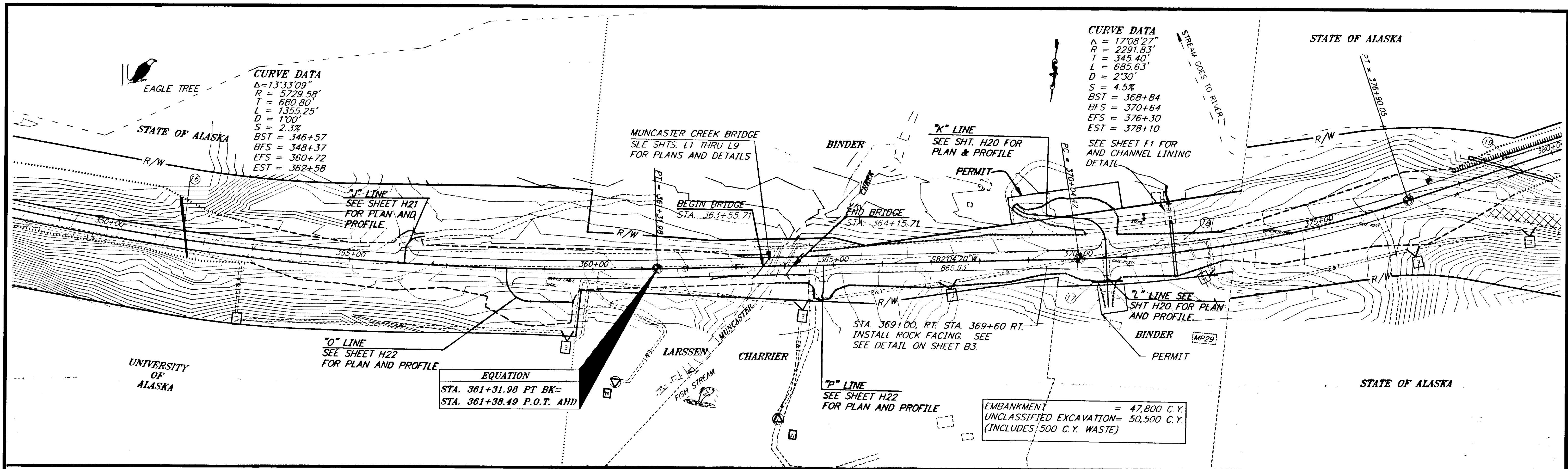
HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**STA. 325+00 TO 350+00**

ALASKA

DESIGNED BY: C. HAKARI  
 DRAWN BY: W. HICKOK  
 CHECKED BY: T. MOORE

PROJECT NO. 71483  
 DATE: 1998  
 SHEET HB





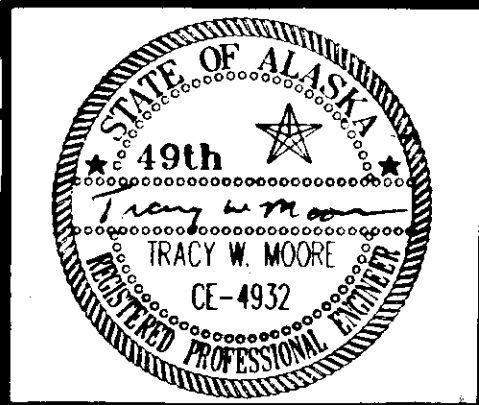
| RECORD OF REVISIONS |   |                        |
|---------------------|---|------------------------|
| PATH:               | P: \HNS\67436\DR\PLAN                       |                        |
| PLOT:               | P: \-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2) |                        |
| BY:                 | DATE:                                       | DESCRIPTION OF CHANGE: |
|                     |   |                        |

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

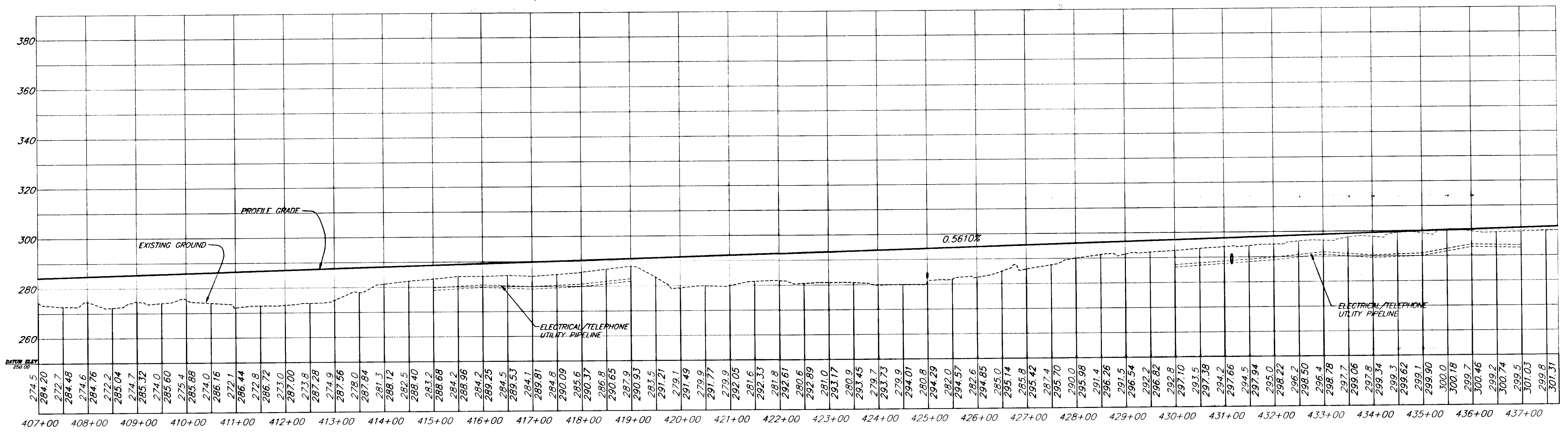
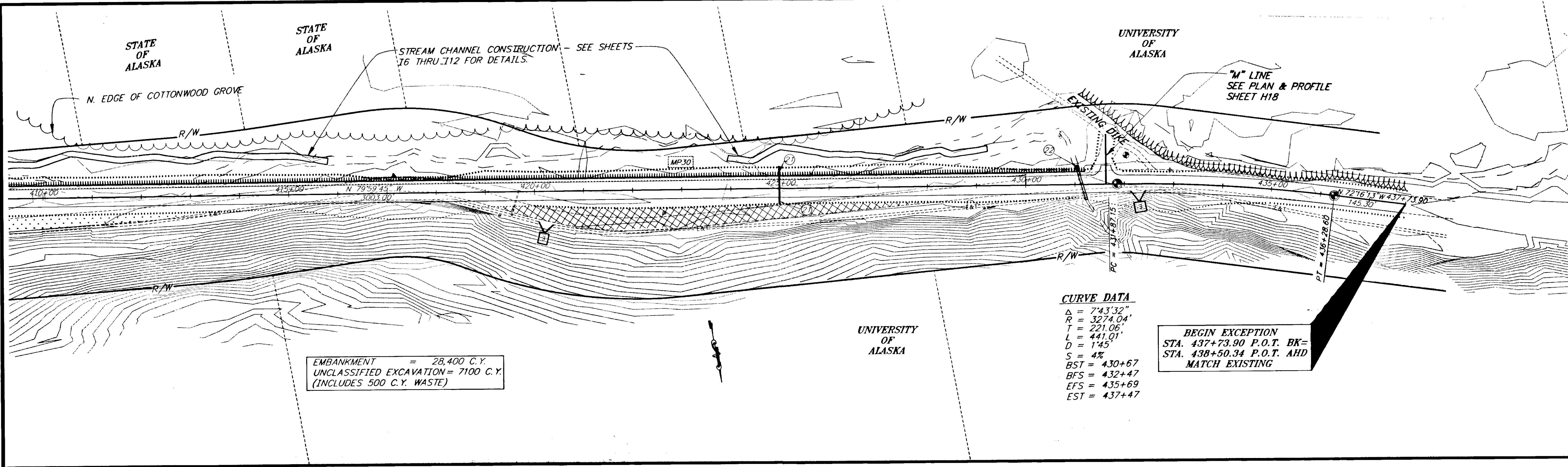
HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**STA. 350+00 TO 380+00**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|              |           |             |       |
|--------------|-----------|-------------|-------|
| DESIGNED BY: | C. HAKARI | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK | DATE:       | 1998  |
| CHECKED BY:  | T. MOORE  | SHEET       | H9    |







NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|  |       |                        |
|--|-------|------------------------|
| PATH: P:\HNS\67436\DR\PLAN                     |       |                        |
| PLOT: P:\LIB\LOT\LOT.F.PCP(1) OR PLOT.F.PCP(2) |       |                        |
| BY:  | DATE: | DESCRIPTION OF CHANGE: |
|  |       |                        |

**RECORD OF REVISIONS**

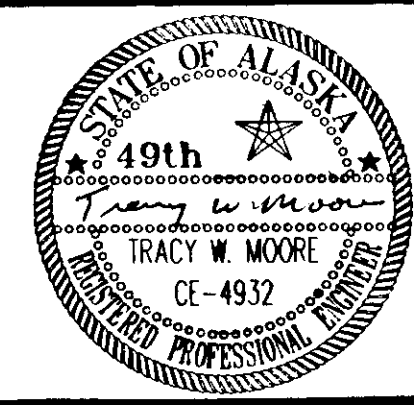
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES

HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**STA. 410+00 TO 437+73.90 B.O.P.**

ALASKA

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>...1998     |
| CHECKED BY:<br>T. MOORE   | SHEET H11            |

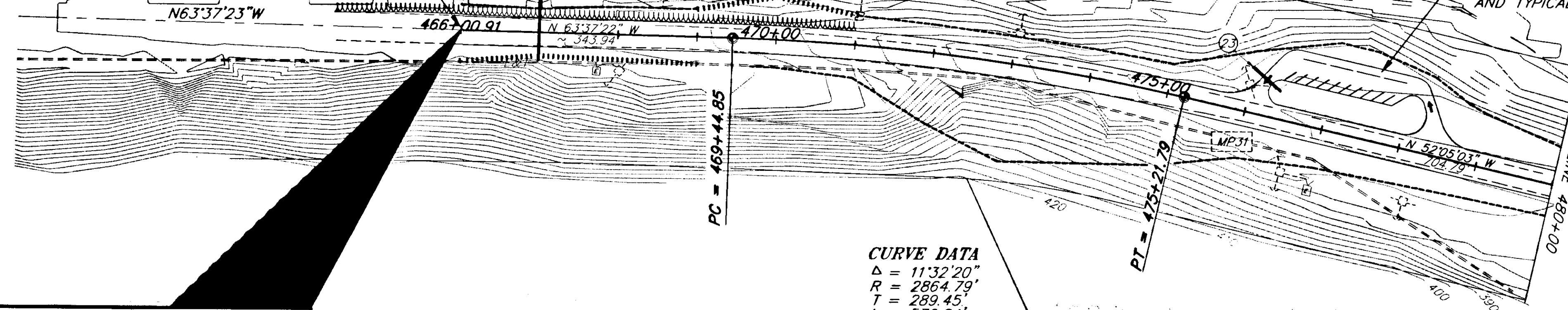




UNIVERSITY OF ALASKA

MATCH EXISTING  
SEE PAVEMENT MATCH JOINT SHEET E1

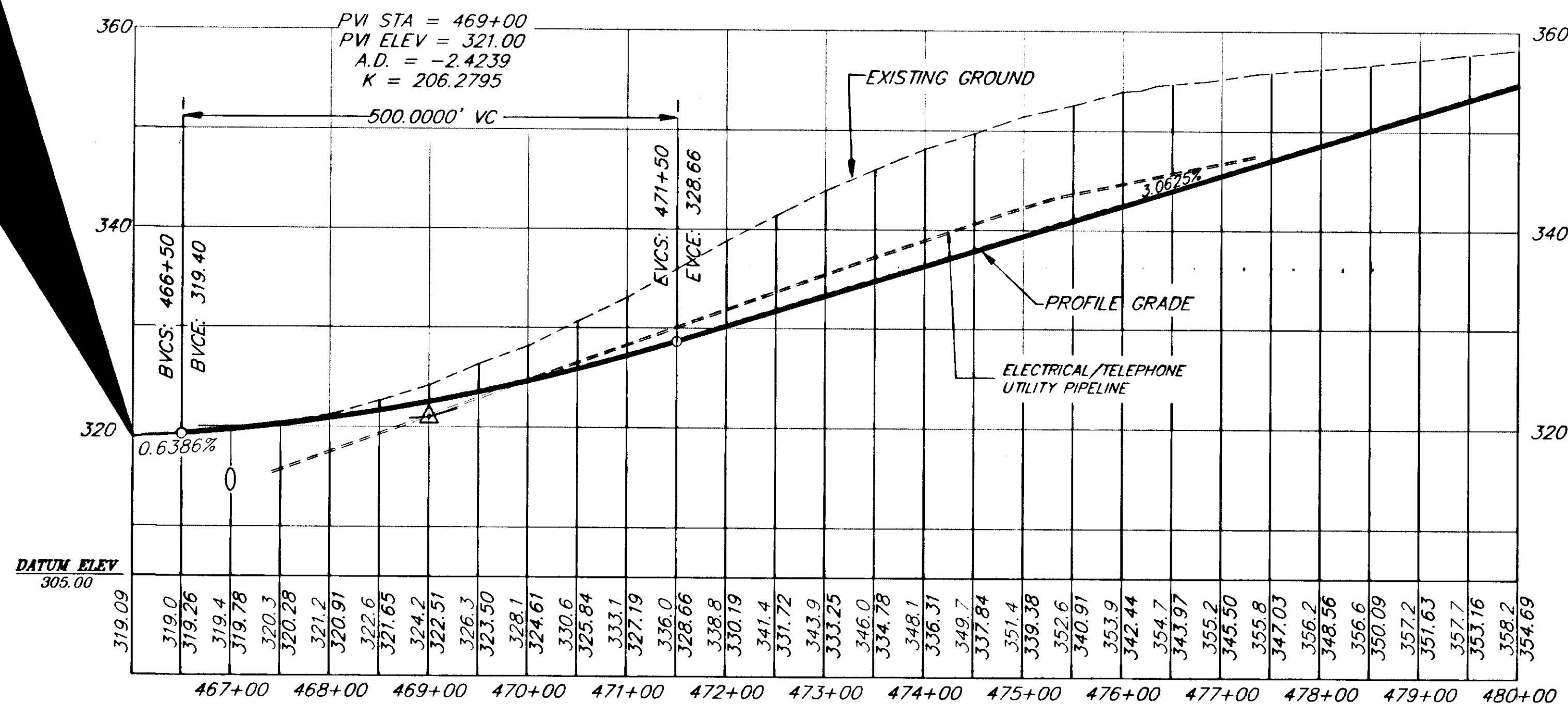
SCENIC TURNOUT  
SEE SHEET H24 FOR PLANS AND TYPICALS



**END EXCEPTION**  
**STA. 466+00.00 P.O.T. BK.=**  
**STA. 466+00.91 P.O.T. AHD.**  
**MATCH EXISTING**  
**N.690658.20, E.546521.06**

**CURVE DATA**  
 $\Delta = 11^{\circ}32'20''$   
 $R = 2864.79'$   
 $T = 289.45'$   
 $L = 576.94'$   
 $S = 2'00''$   
 $S = 4\%$   
 $BST = 468+25$   
 $BFS = 470+05$   
 $EFS = 474+62$   
 $EST = 476+42$

EMBANKMENT = 700 C.Y.  
 UNCLASSIFIED EXCAVATION = 42100 C.Y.  
 (INCLUDES 1000 C.Y. WASTE)



| RECORD OF REVISIONS |                              |
|---------------------|------------------------------|
| PATH:               | P:\HNS\67436\DR\ -P466 1=100 |
| BY:                 | DATE: DESCRIPTION OF CHANGE: |
|                     |                              |
|                     |                              |

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

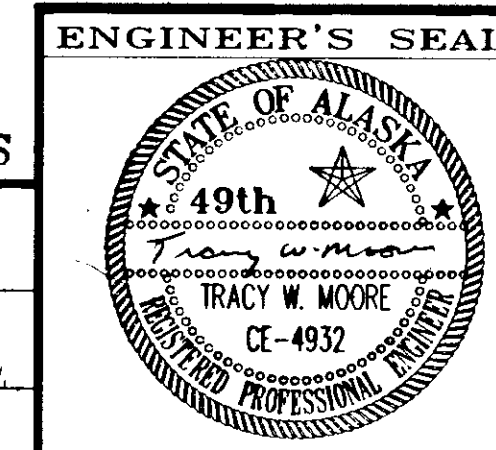
HAINES

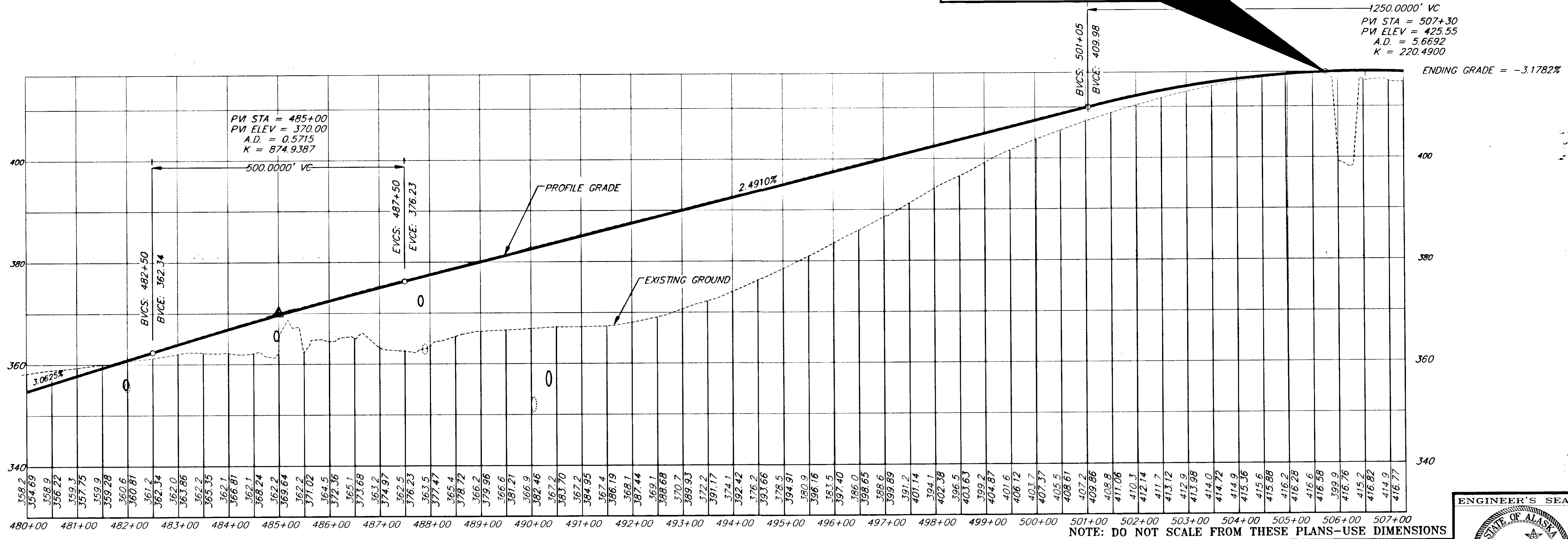
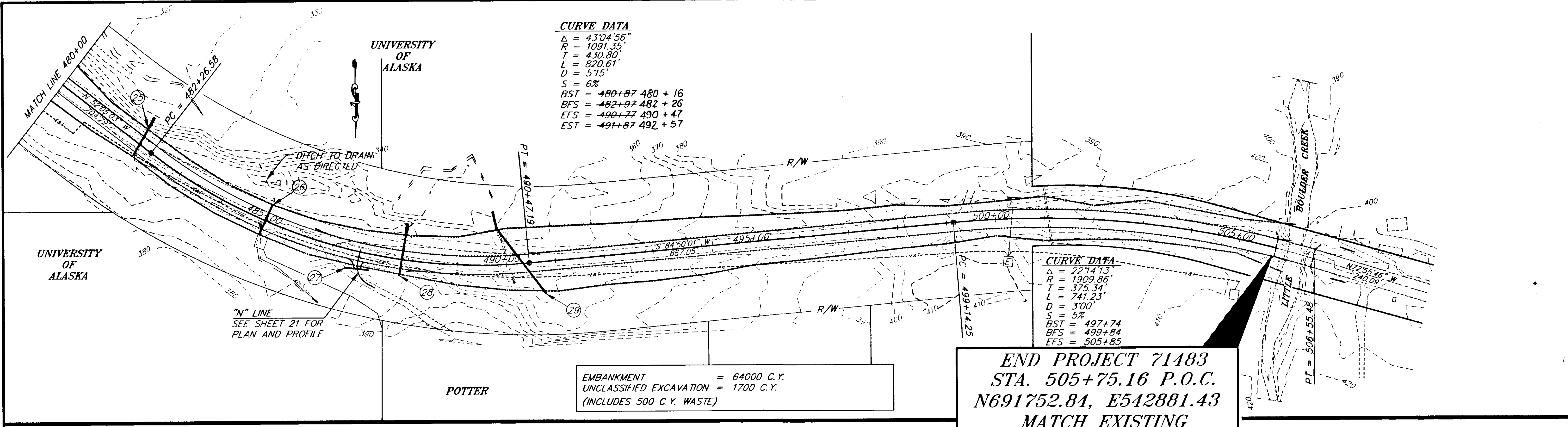
HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**PLAN AND PROFILE**  
**STA. 466+00.91 TO STA. 480+00**

ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|              |             |             |       |
|--------------|-------------|-------------|-------|
| DESIGNED BY: | C. HAKARI   | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE  | SHEET       | H12   |





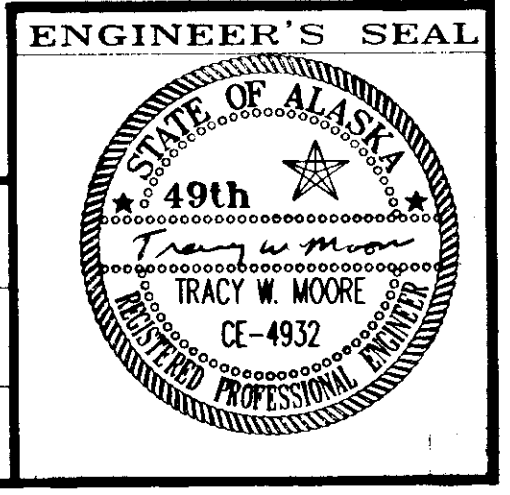
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|                               |       |                        |
|                               |       |                        |

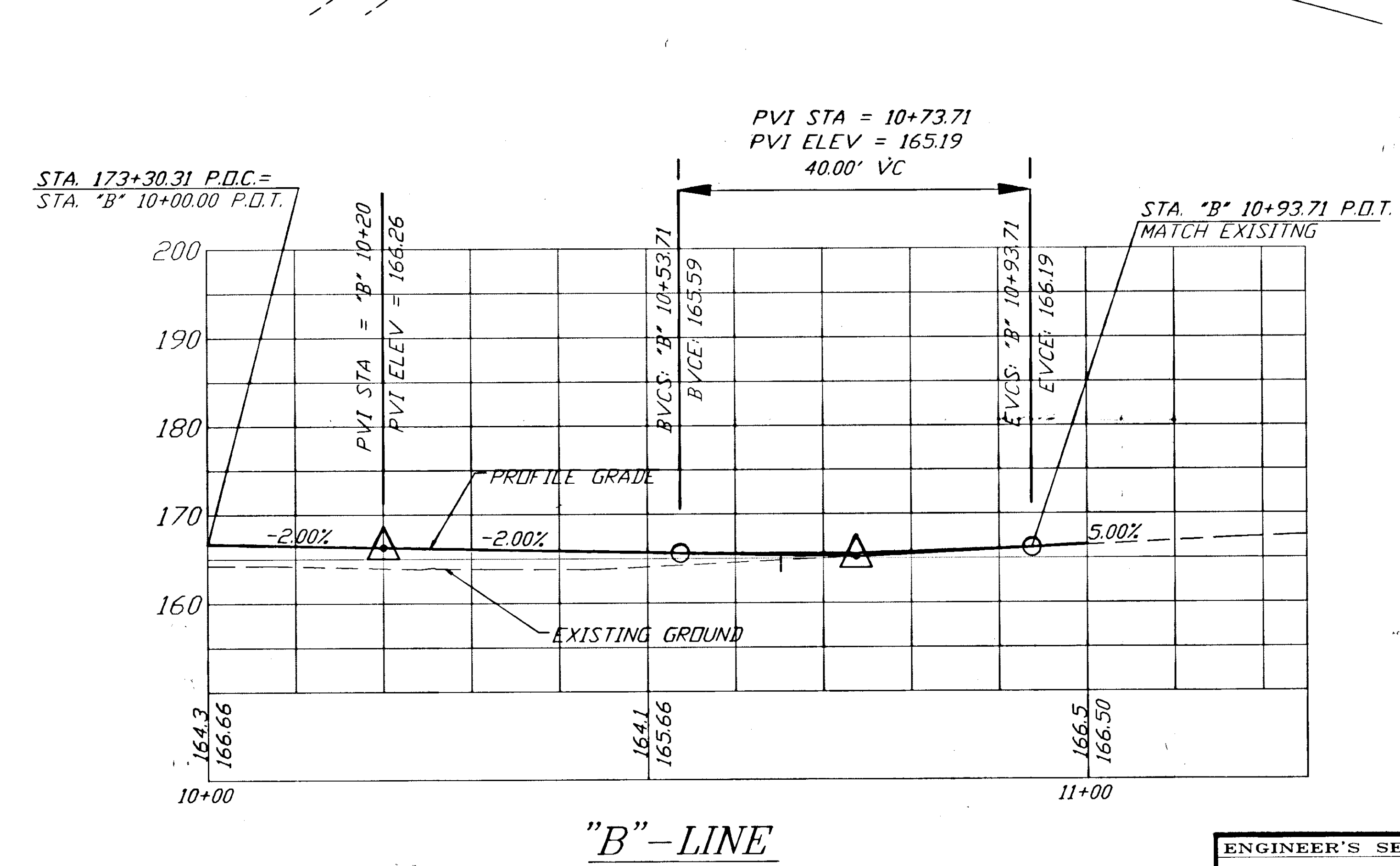
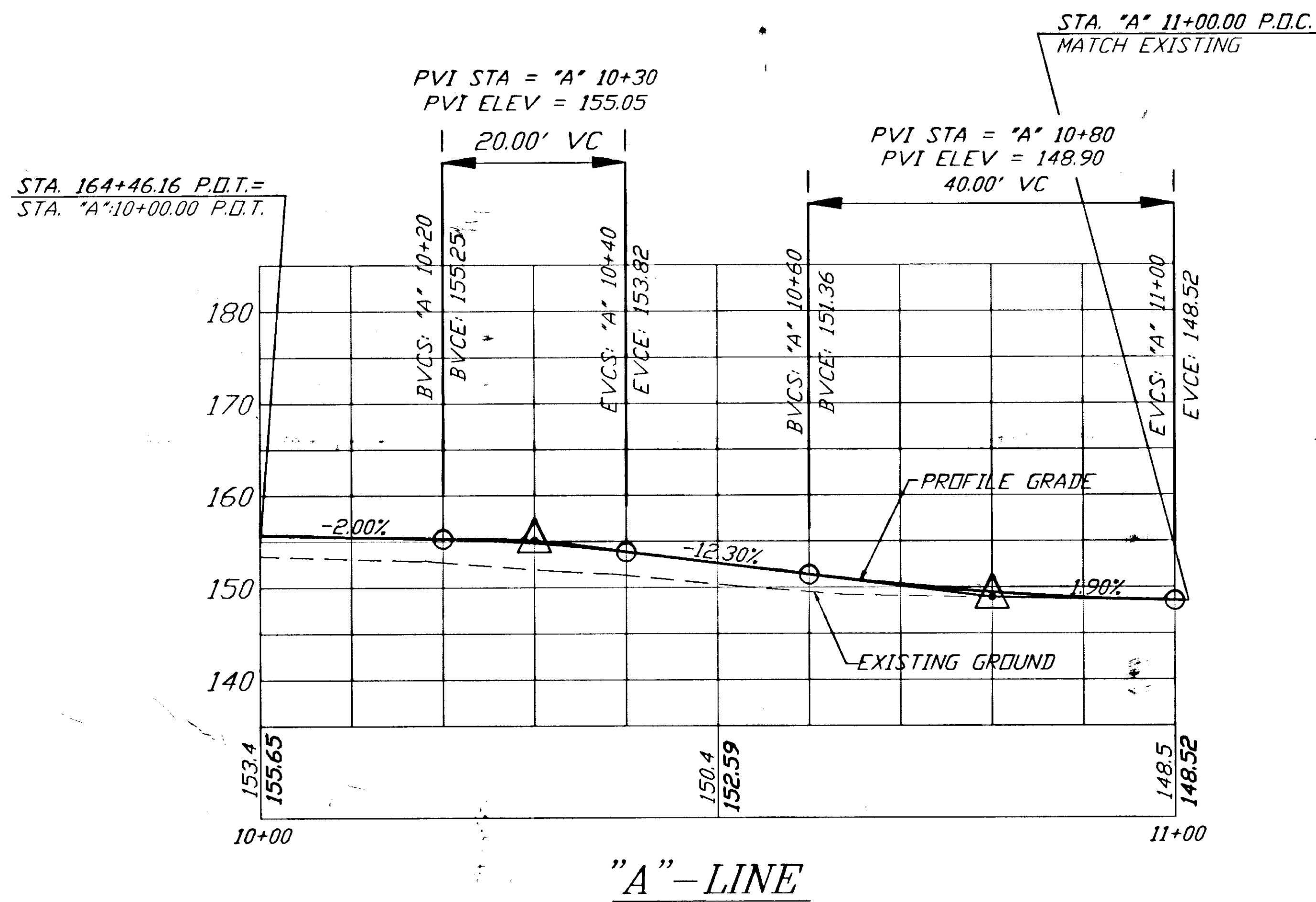
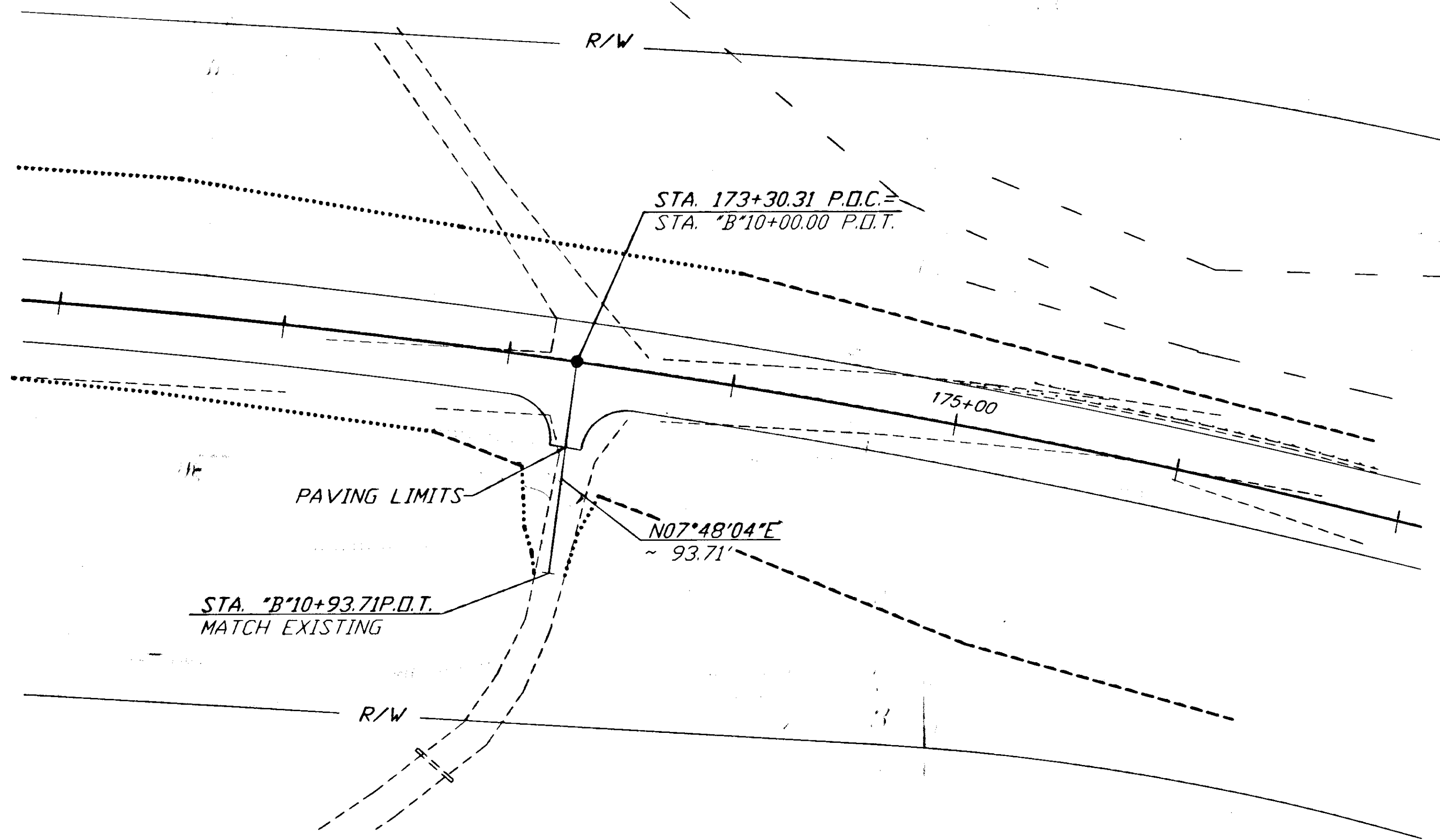
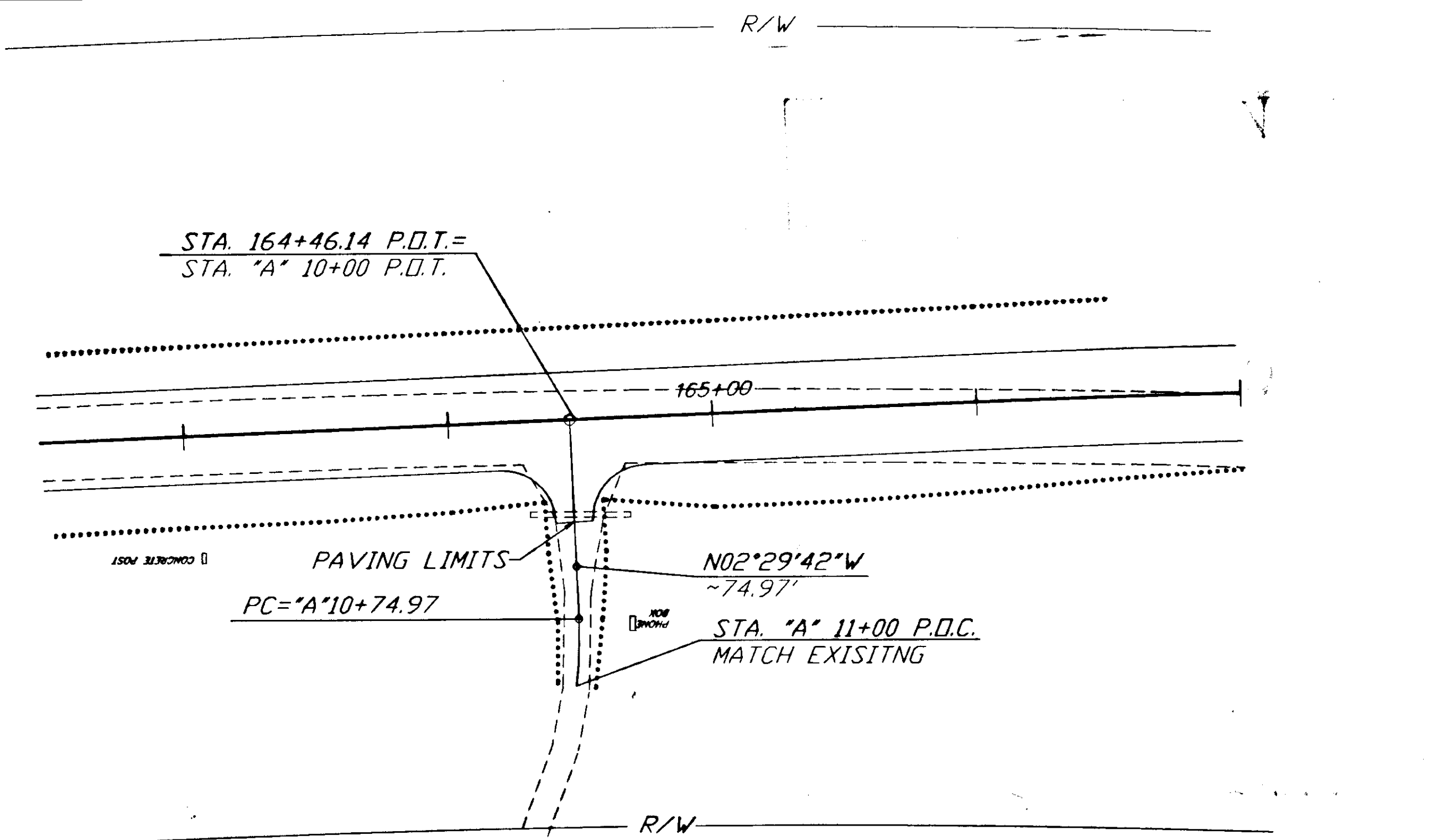
**RECORD OF REVISIONS**

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

HAINES  
 HAINES HIGHWAY  
 MP25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) 71483  
**PLAN AND PROFILE**  
**STA. 480+00 TO STA. E.O.P.**  
 ALASKA

|              |             |             |       |
|--------------|-------------|-------------|-------|
| DESIGNED BY: | C. HAKARI   | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE  | SHEET #13   |       |





PLAN - 1"=40' PROFILE - 1"=20'

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                               |       |                        |
|-------------------------------|-------|------------------------|
| PATH: P:\HNS\167436\DR\DRWAYS |       |                        |
| BY:                           | DATE: | DESCRIPTION OF CHANGE: |
|                               |       |                        |
| <b>RECORD OF REVISIONS</b>    |       |                        |

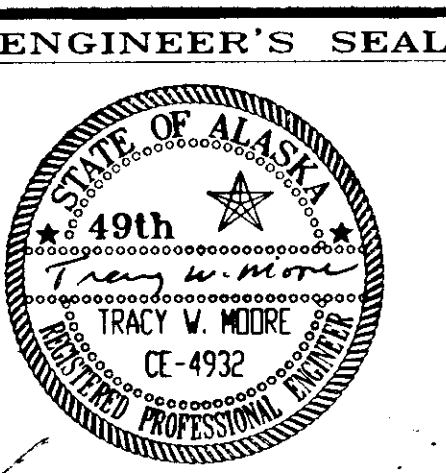
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

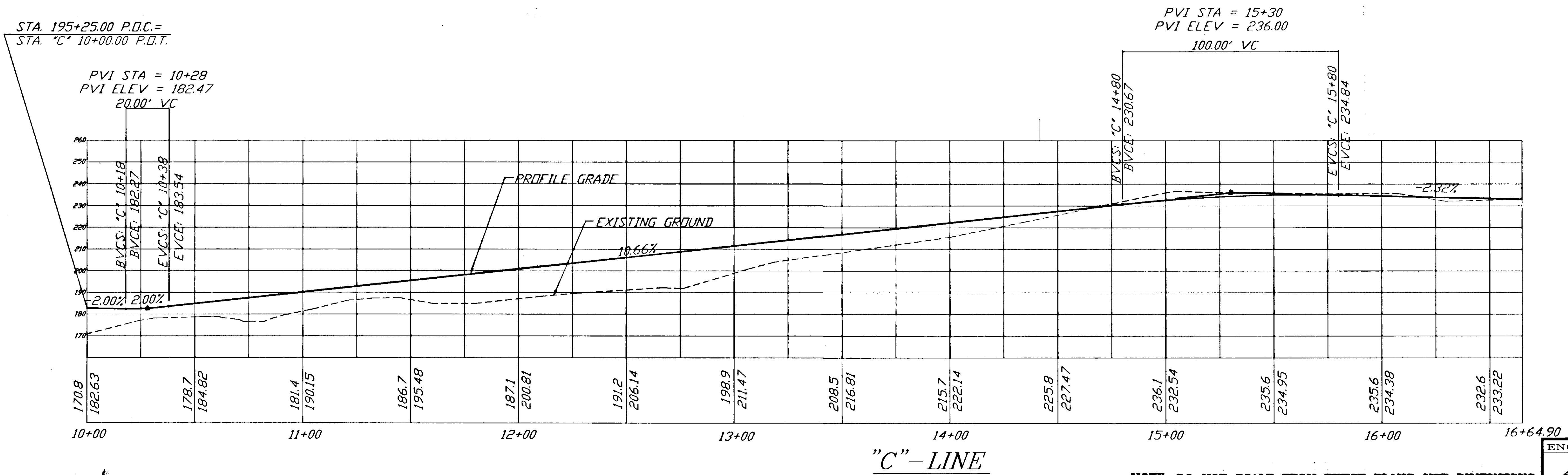
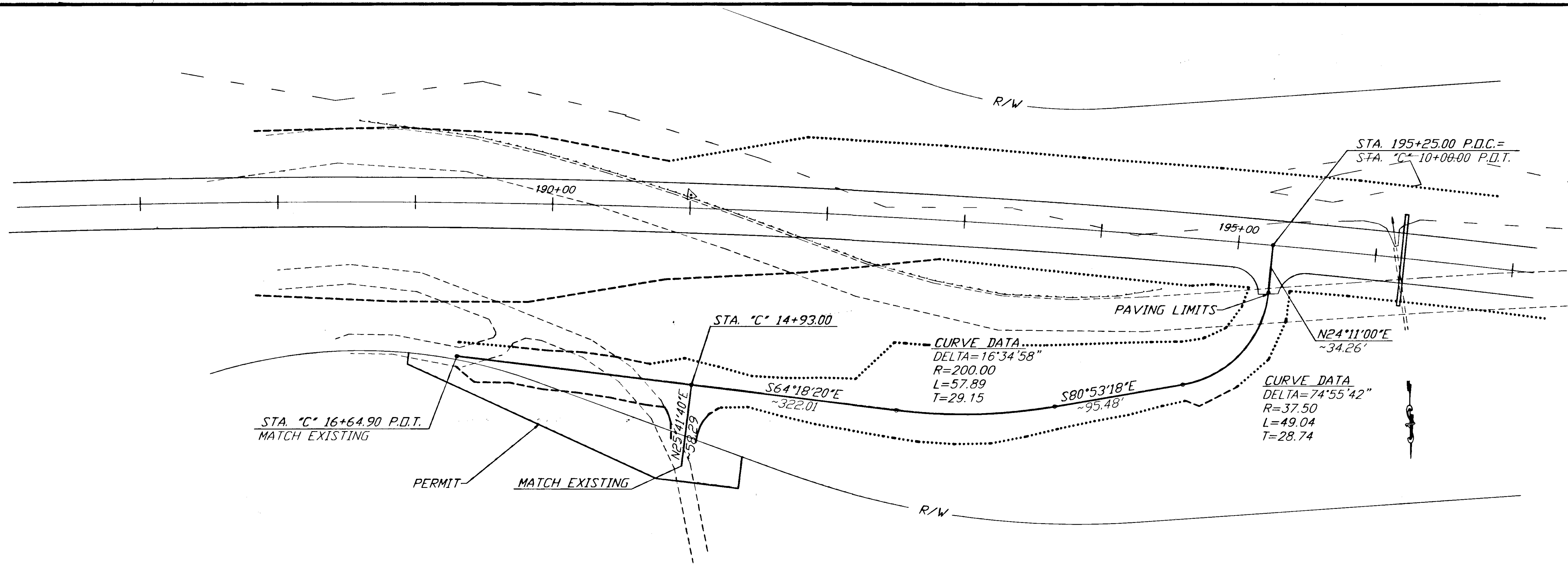
HAINES

ALASKA  
**HAINES HIGHWAY**  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**DRIVEWAY DETAILS**

DESIGNED BY: C. HAKARI  
DRAWN BY: W. HICKOK  
CHECKED BY: T.W. MOORE

PROJECT NO. 71483  
DATE: 1998  
SHEET H14





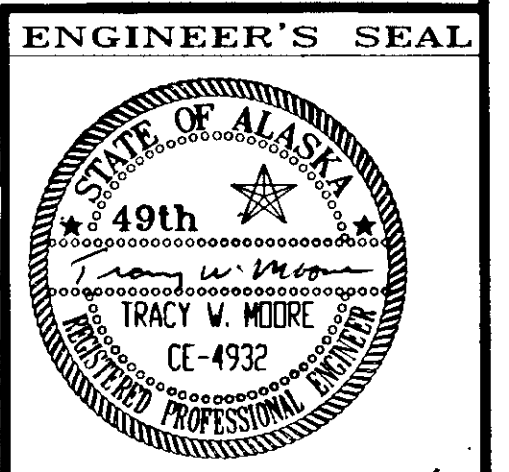
|                                  |       |                        |
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| BY:                              | DATE: | DESCRIPTION OF CHANGE: |
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| RECORD OF REVISIONS              |       |                        |

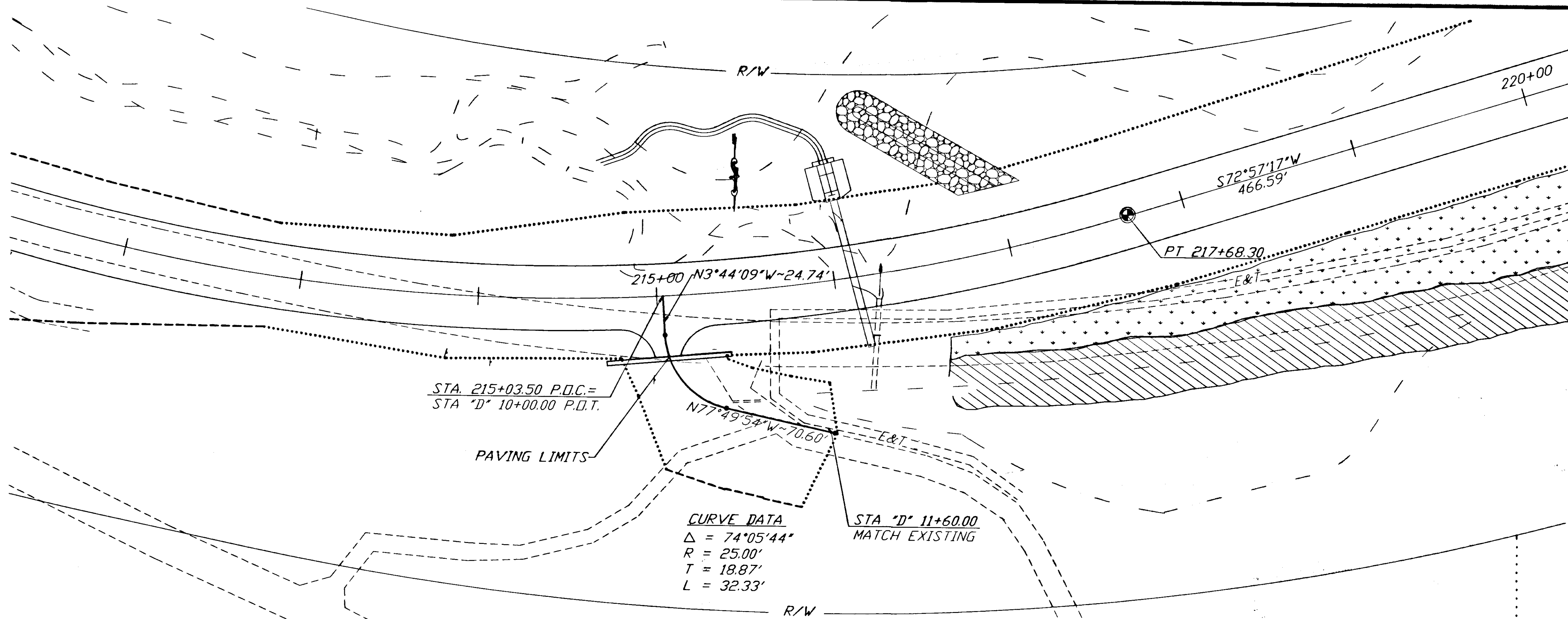
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 DRIVEWAY DETAILS

ALASKA  
 DESIGNED BY: C. HAKARI  
 DRAWN BY: W. HICKOK  
 CHECKED BY: T.W. MOORE  
 PROJECT NO. 71483  
 DATE: 1998  
 SHEET H15

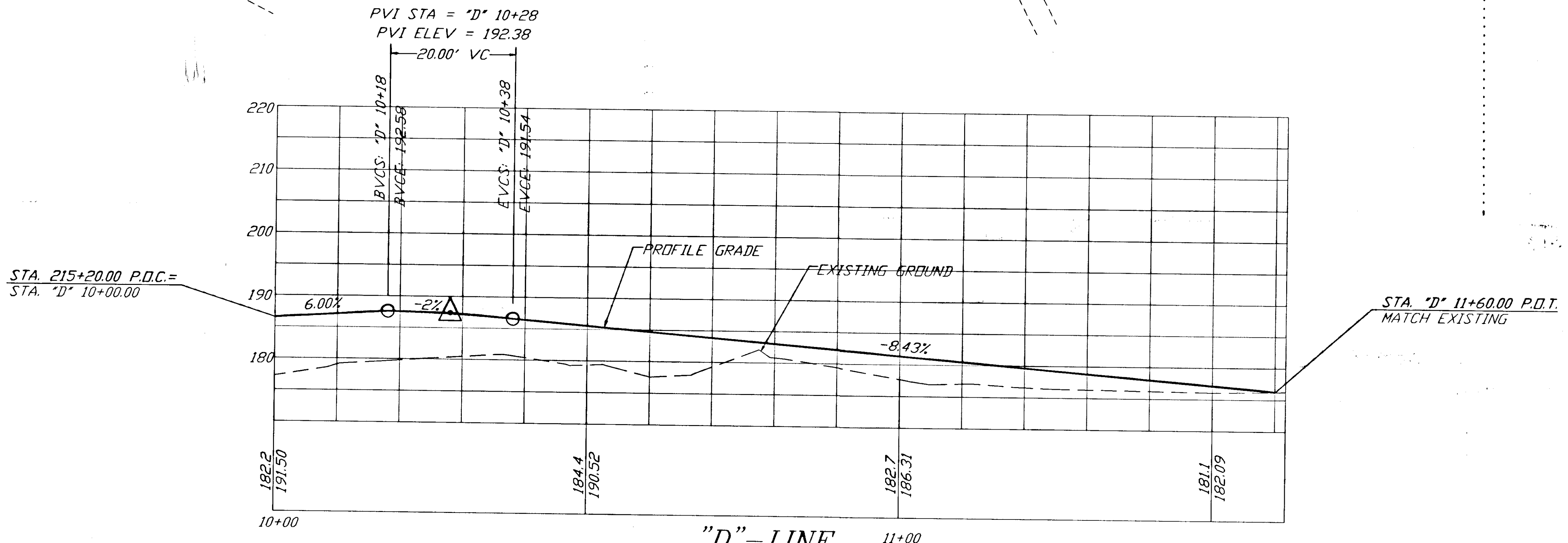
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS





**CURVE DATA**  
 $\Delta = 74^{\circ}05'44''$   
 $R = 25.00'$   
 $T = 18.87'$   
 $L = 32.33'$

PVI STA = "D" 10+28  
PVI ELEV = 192.38



PLAN - 1"=40' PROFILE - 1"=20'

"D" - LINE

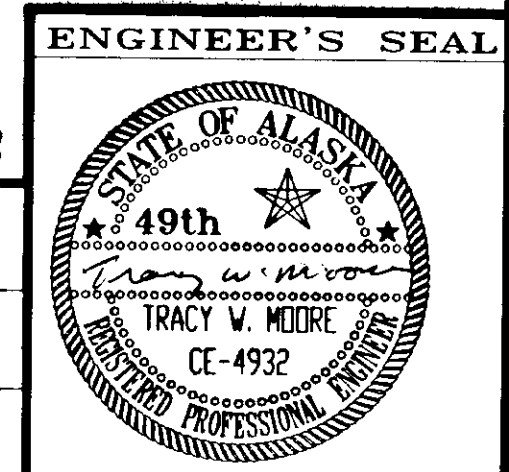
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

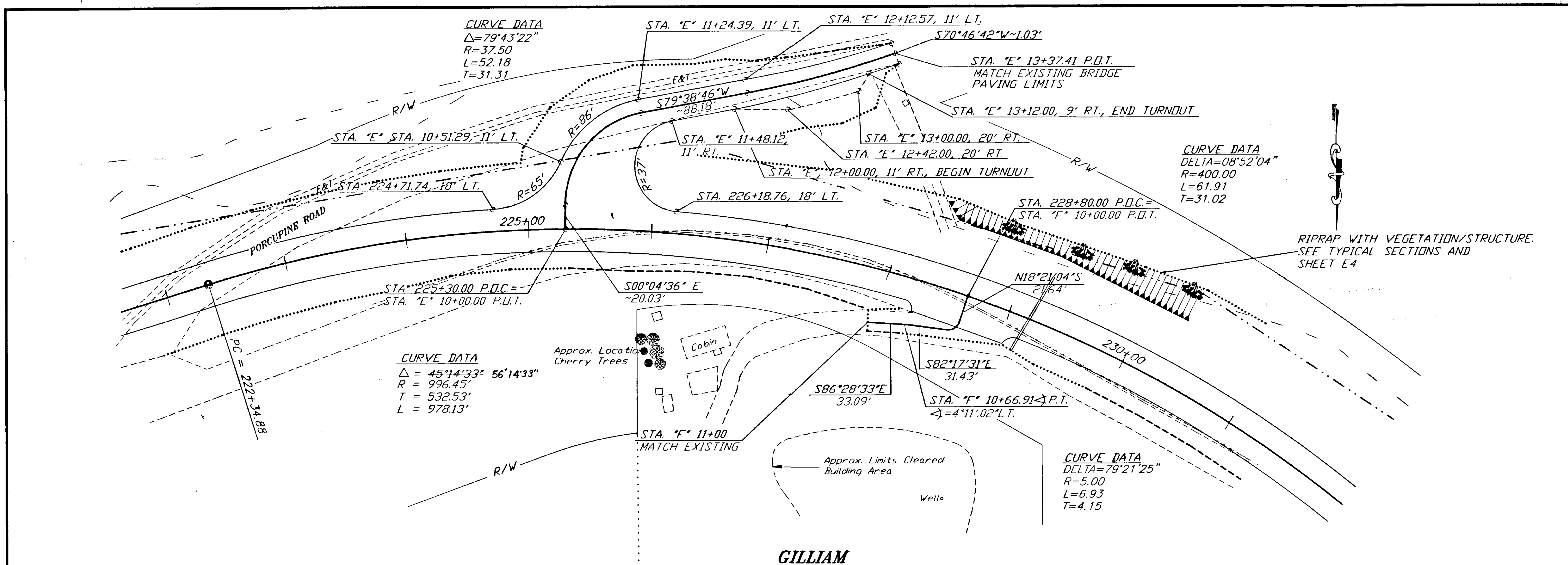
| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

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

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
ALASKA  
**DRIVEWAY DETAILS**

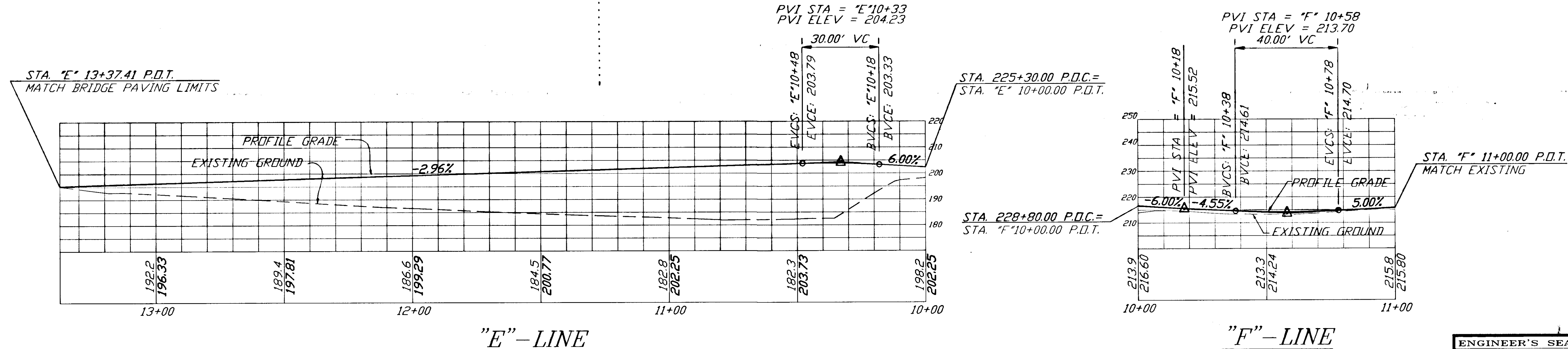
|                        |                   |
|------------------------|-------------------|
| DESIGNED BY: C. HAKARI | PROJECT NO. 71483 |
| DRAWN BY: W. HICKOK    | DATE: 1998        |
| CHECKED BY: T.W. MOORE | SHEET H16         |





NOTE: GUARDRAIL NOT SHOWN FOR CLARITY  
SEE SUMMARY TABLES.

**GILLIAM**



PLAN - 1"=40' PROFILE - 1"=20'

| NO. | DATE | DESCRIPTION OF CHANGE |
|-----|------|-----------------------|
|     |      |                       |
|     |      |                       |
|     |      |                       |

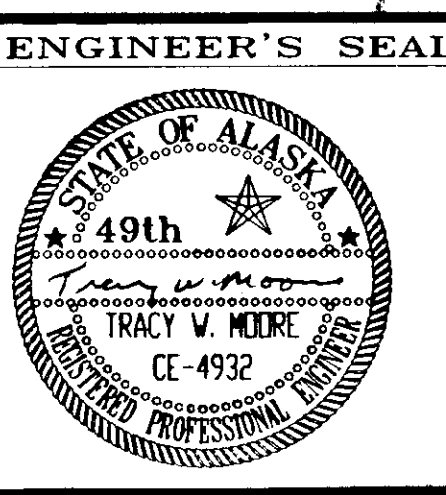
RECORD OF REVISIONS

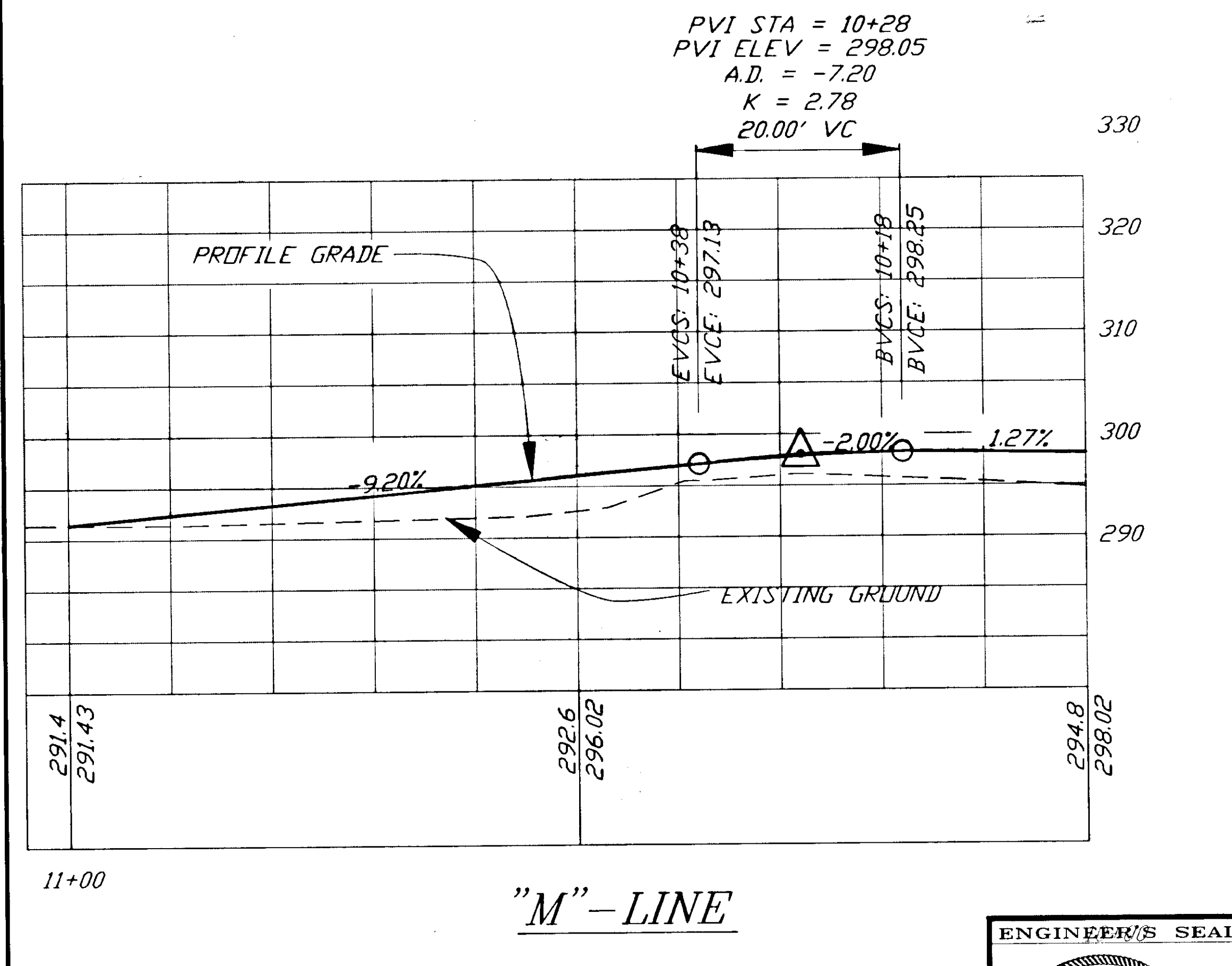
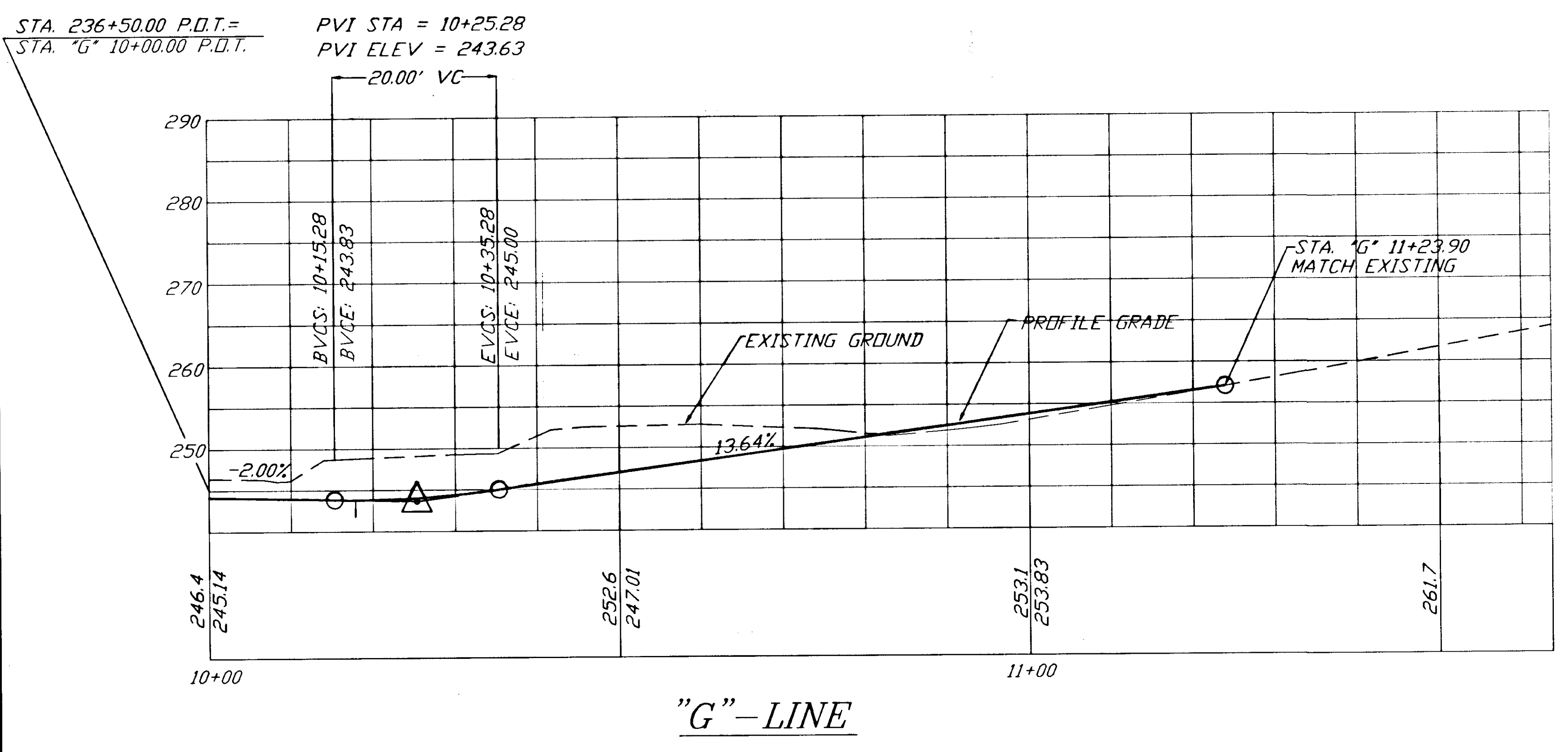
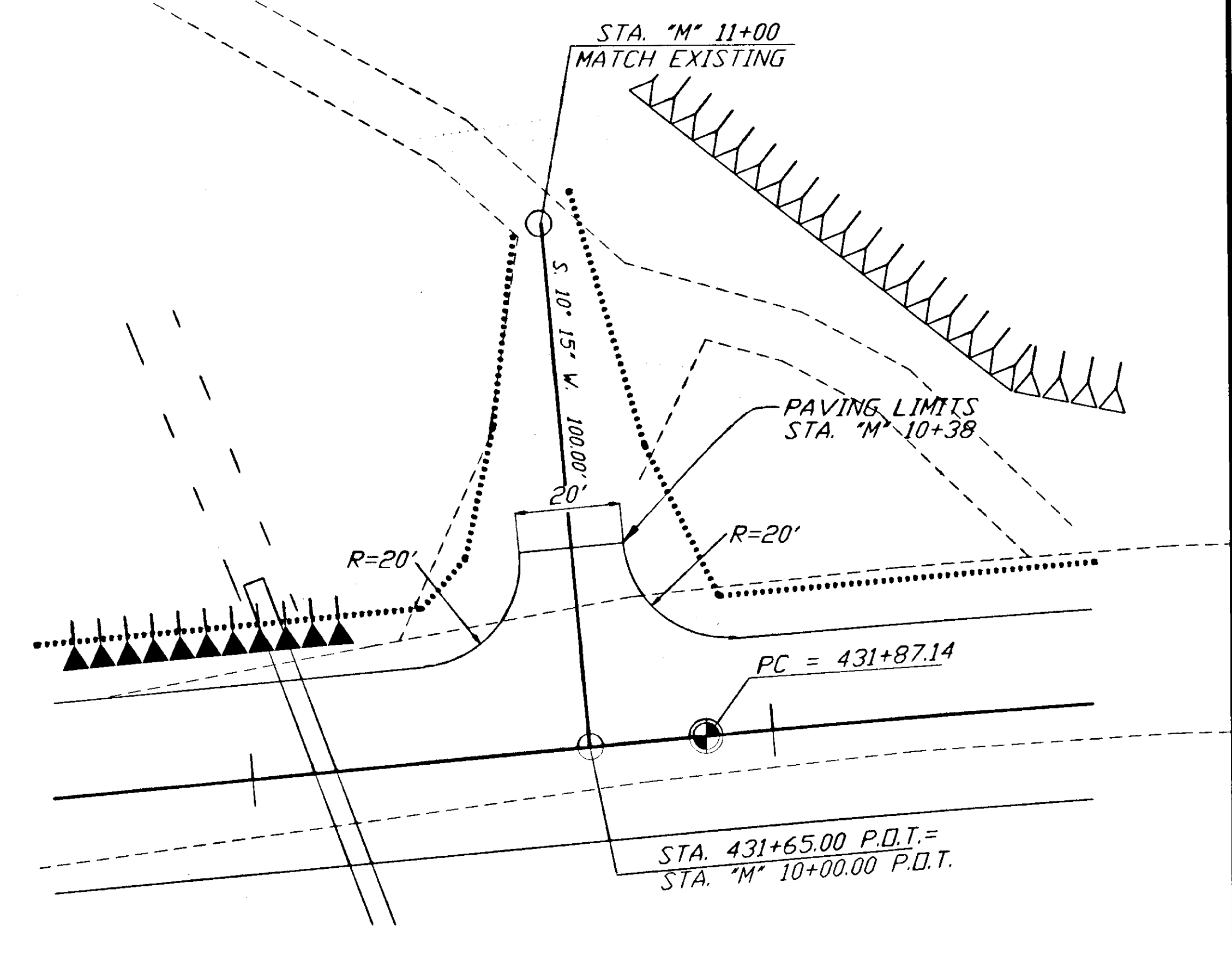
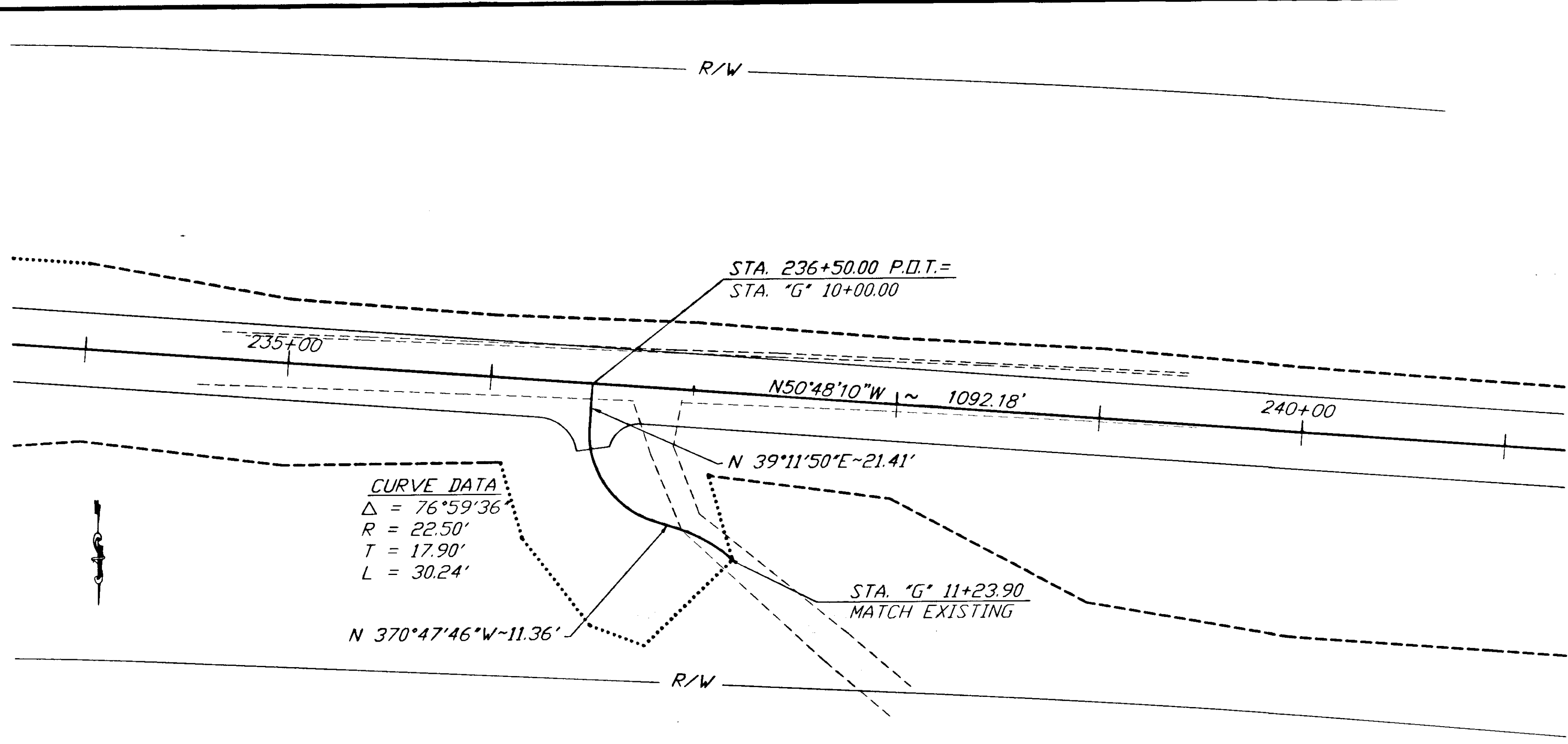
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**DRIVEWAY DETAILS**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|              |            |             |       |
|--------------|------------|-------------|-------|
| DESIGNED BY: | C. HAKARI  | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK  | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE | SHEET       | H17   |





PLAN - 1"=40' PROFILE - 1"=20'

| NO. | DATE | DESCRIPTION OF CHANGE |
|-----|------|-----------------------|
|     |      |                       |
|     |      |                       |
|     |      |                       |

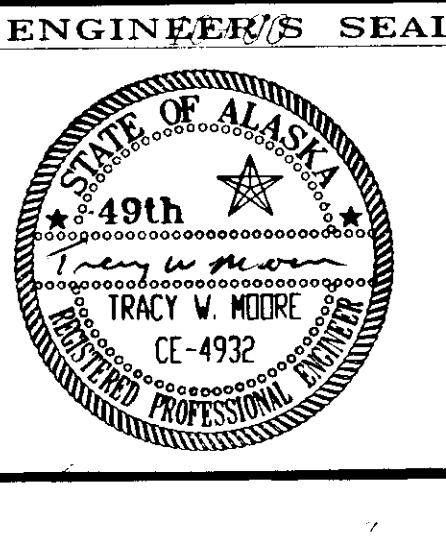
RECORD OF REVISIONS

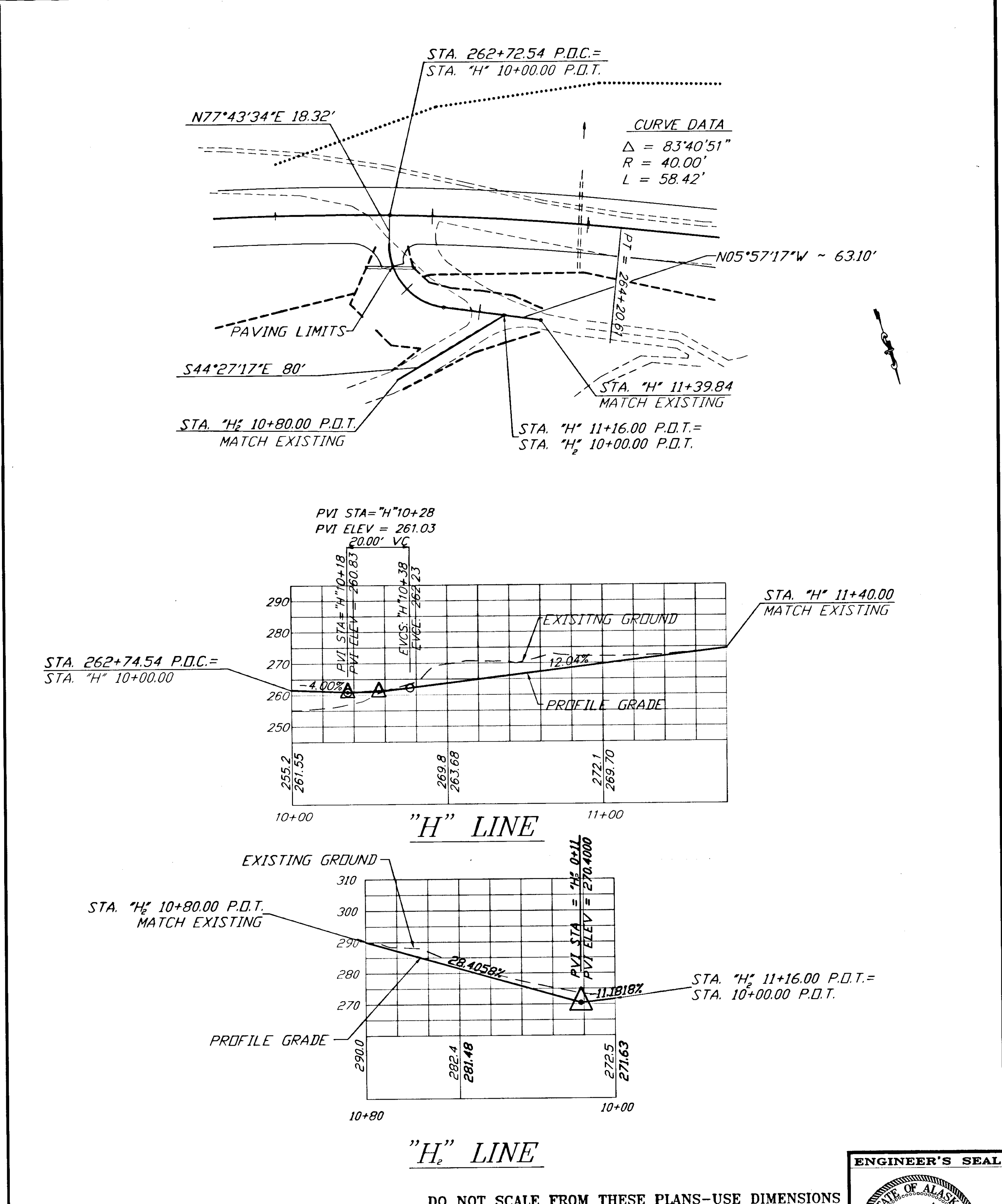
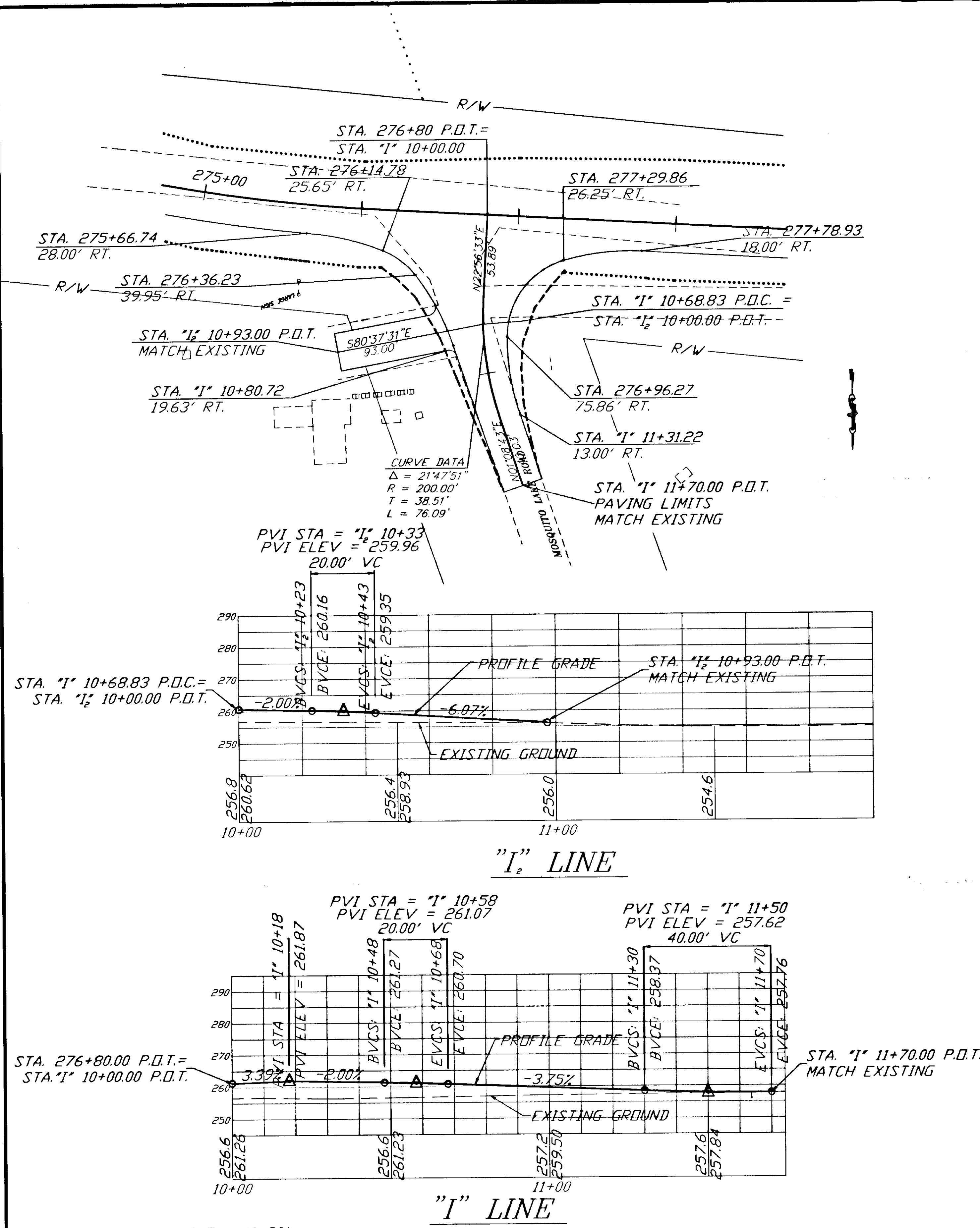
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**DRIVEWAY DETAILS**

DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T.W. MOORE | SHEET H18            |





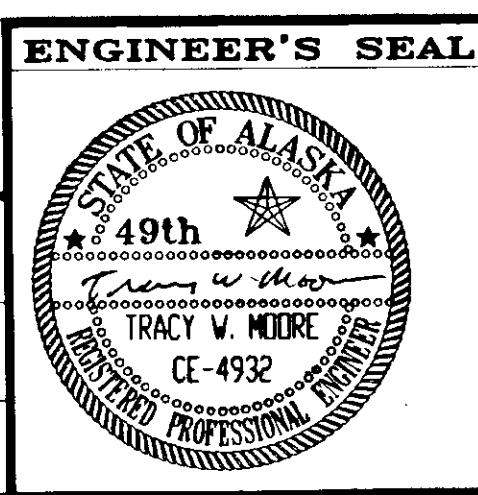
PLAN - 1"=40' PROFILE - 1"=20'

|                                   |       |
|-----------------------------------|-------|
| PATH: P:\HNS\67436\DRW-DRWAYS 1=1 |       |
| BY:                               | DATE: |
| DESCRIPTION OF CHANGE:            |       |
| RECORD OF REVISIONS               |       |

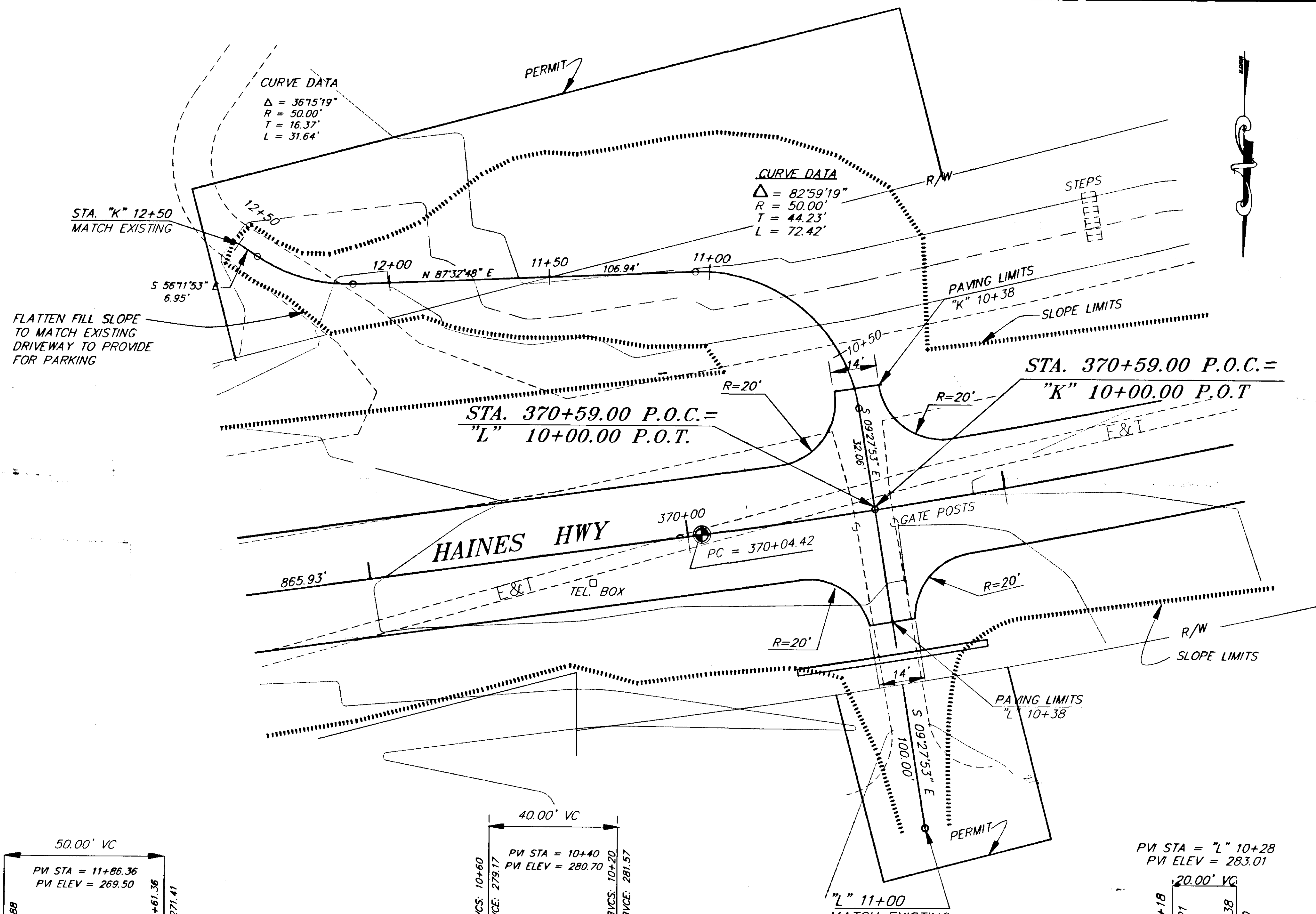
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 DRIVEWAY DETAILS

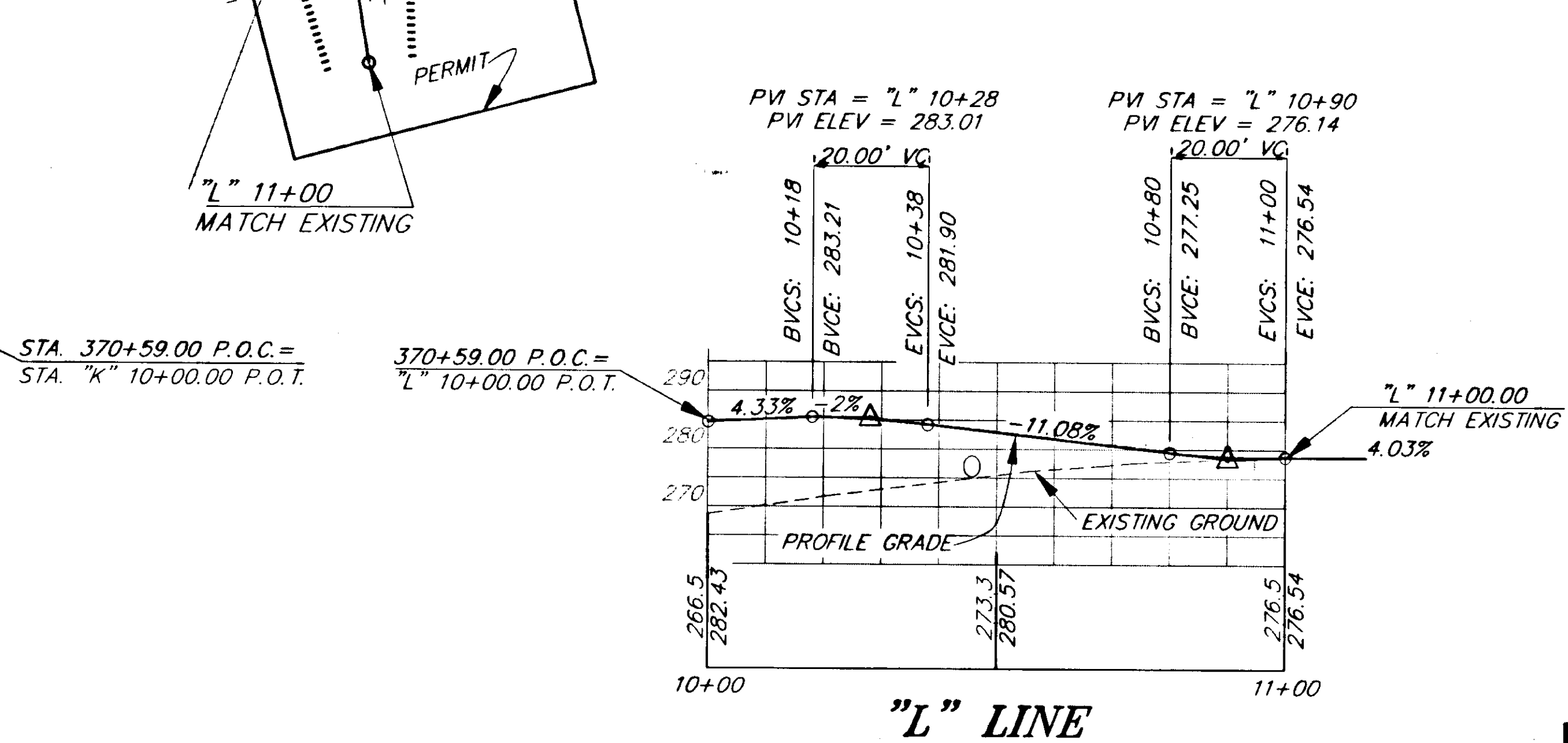
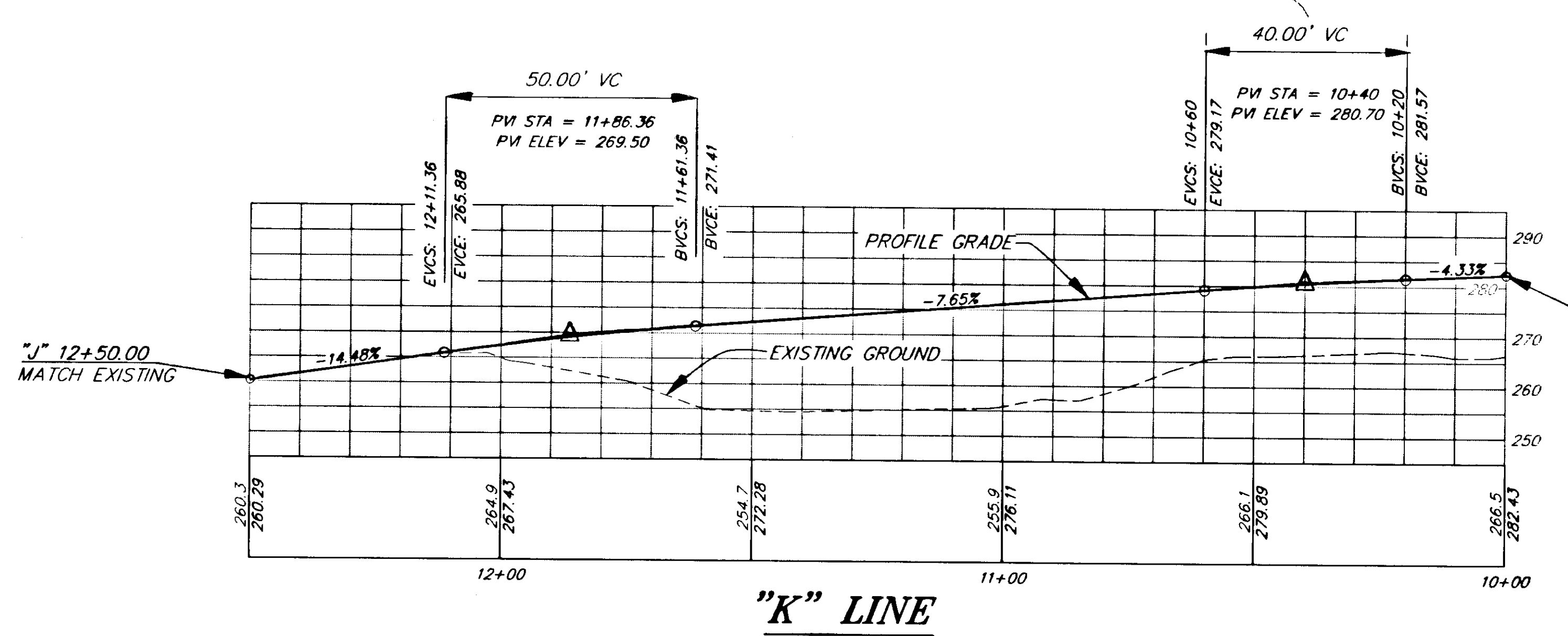
DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS  
 ALASKA  
 DESIGNED BY: C. HAKARI  
 DRAWN BY: W. HICKOK  
 CHECKED BY: T.W. MOORE  
 PROJECT NO. 71483  
 DATE: 1998  
 SHEET H19







**NOTE:**  
 THE PROPERTY OWNER AT STA. 370+50, RT. MAY MAKE A MINOR SHIFT IN THE EXISTING DRIVEWAY ALIGNMENT PRIOR TO THIS CONTRACT. IF NECESSARY, ADJUST THE "L" LINE TO MATCH.



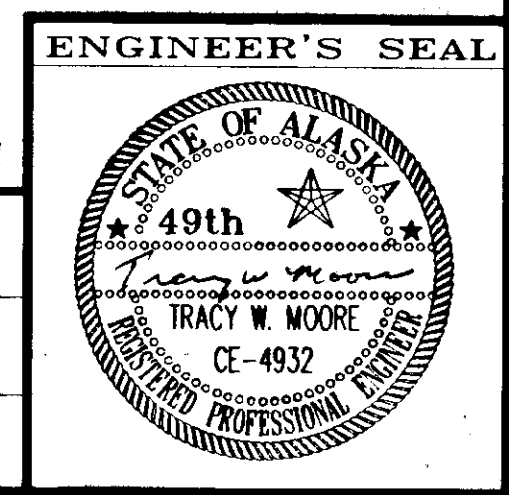
| RECORD OF REVISIONS |                             |                        |
|---------------------|-----------------------------|------------------------|
| PATH:               | P:\HNS\67436\DR\DRIVE1 1=20 |                        |
| BY:                 | DATE:                       | DESCRIPTION OF CHANGE: |
|                     |                             |                        |

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

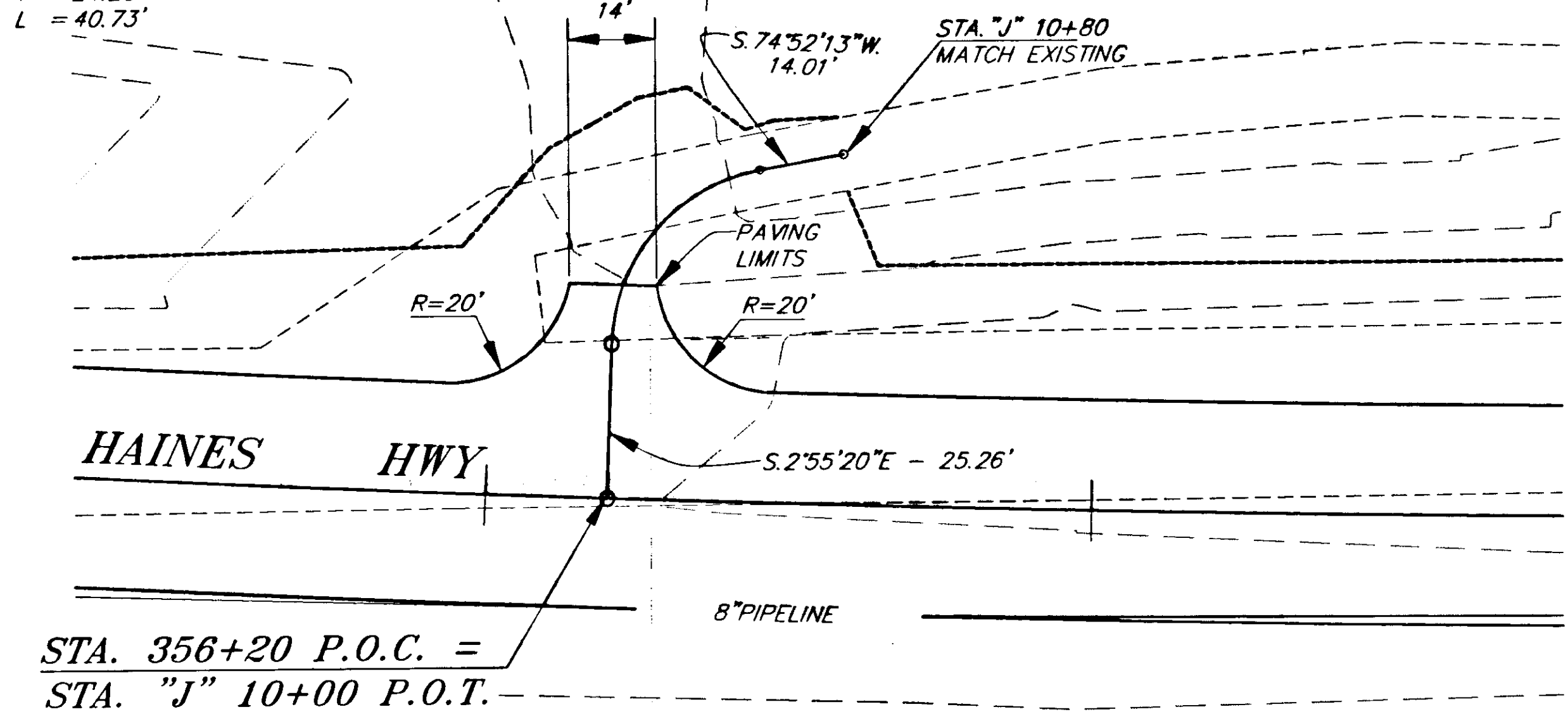
HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**DRIVEWAY DETAILS**

|              |             |             |       |
|--------------|-------------|-------------|-------|
| DESIGNED BY: | C. HAKARI   | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE  | SHEET       | H20   |

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

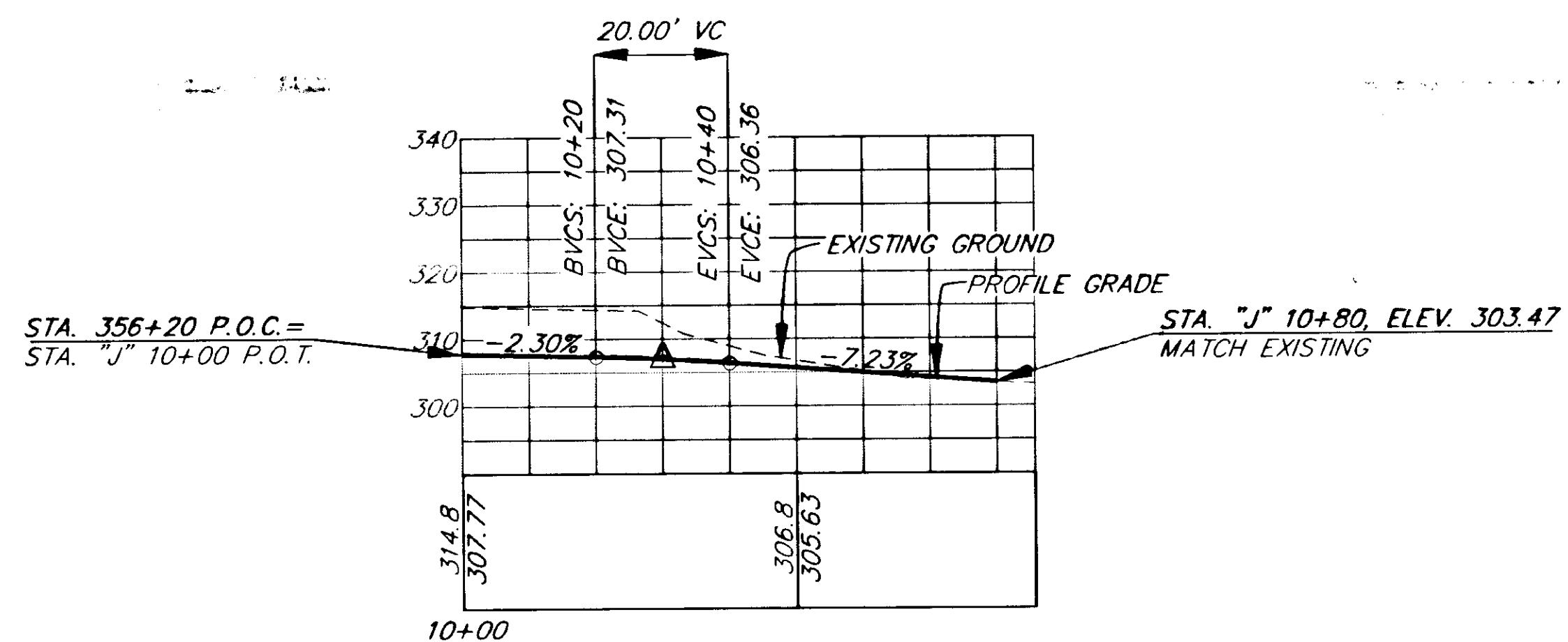


**CURVE DATA**  
 $\Delta = 77^{\circ}47'34''$   
 $R = 30.00'$   
 $T = 24.20'$   
 $L = 40.73'$



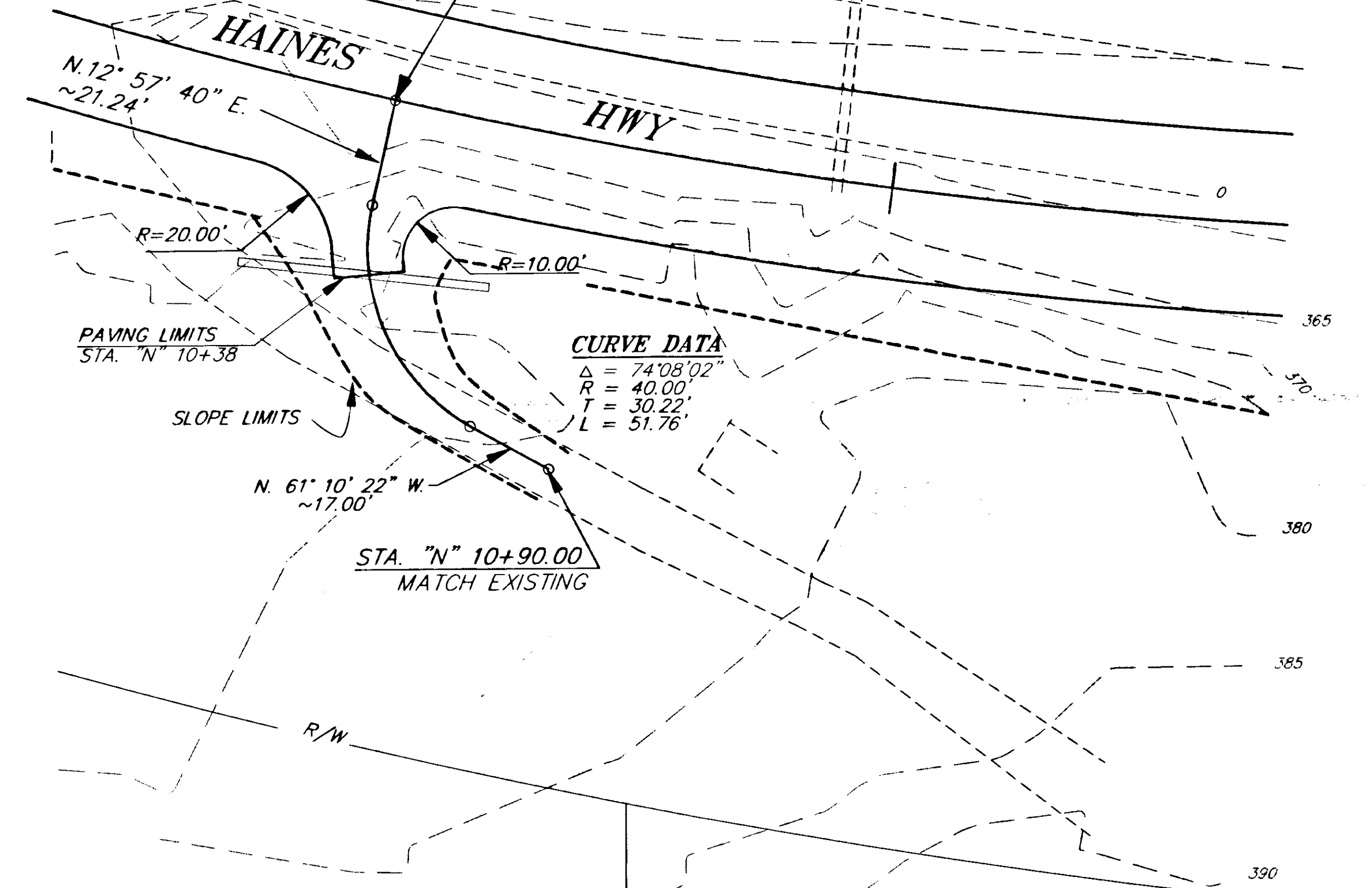
STA. 356+20 P.O.C. =  
 STA. "J" 10+00 P.O.T.

PM STA = 10+30  
 PM ELEV = 307.08

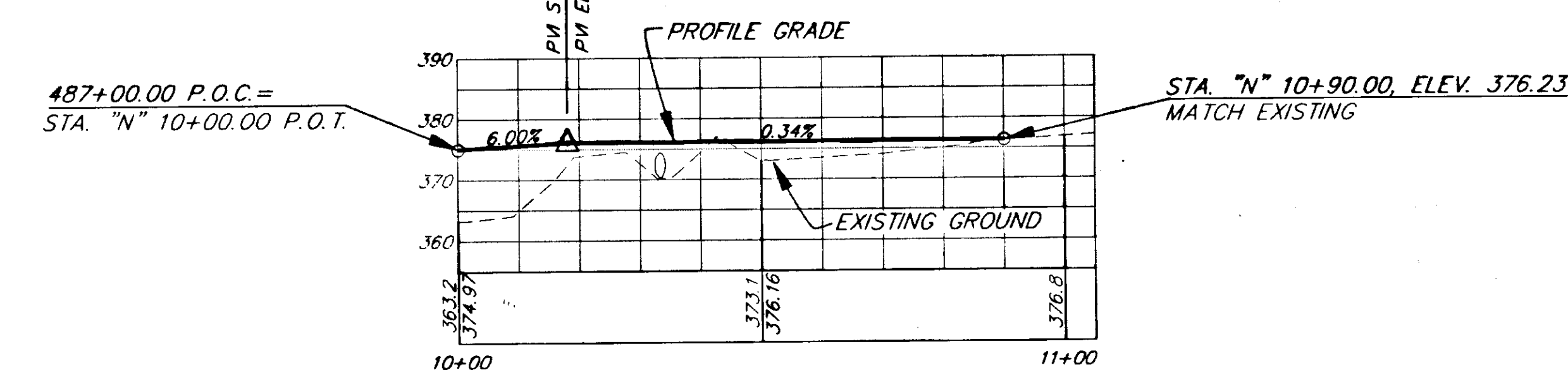


**"J" LINE**

STA. 487+00.00 P.O.C. =  
 STA. "N" 10+00.00 P.O.T.



**CURVE DATA**  
 $\Delta = 74^{\circ}08'02''$   
 $R = 40.00'$   
 $T = 30.22'$   
 $L = 51.76'$



**"N" LINE**

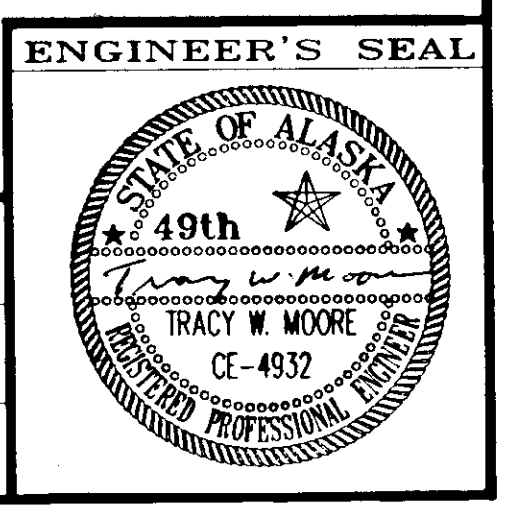
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

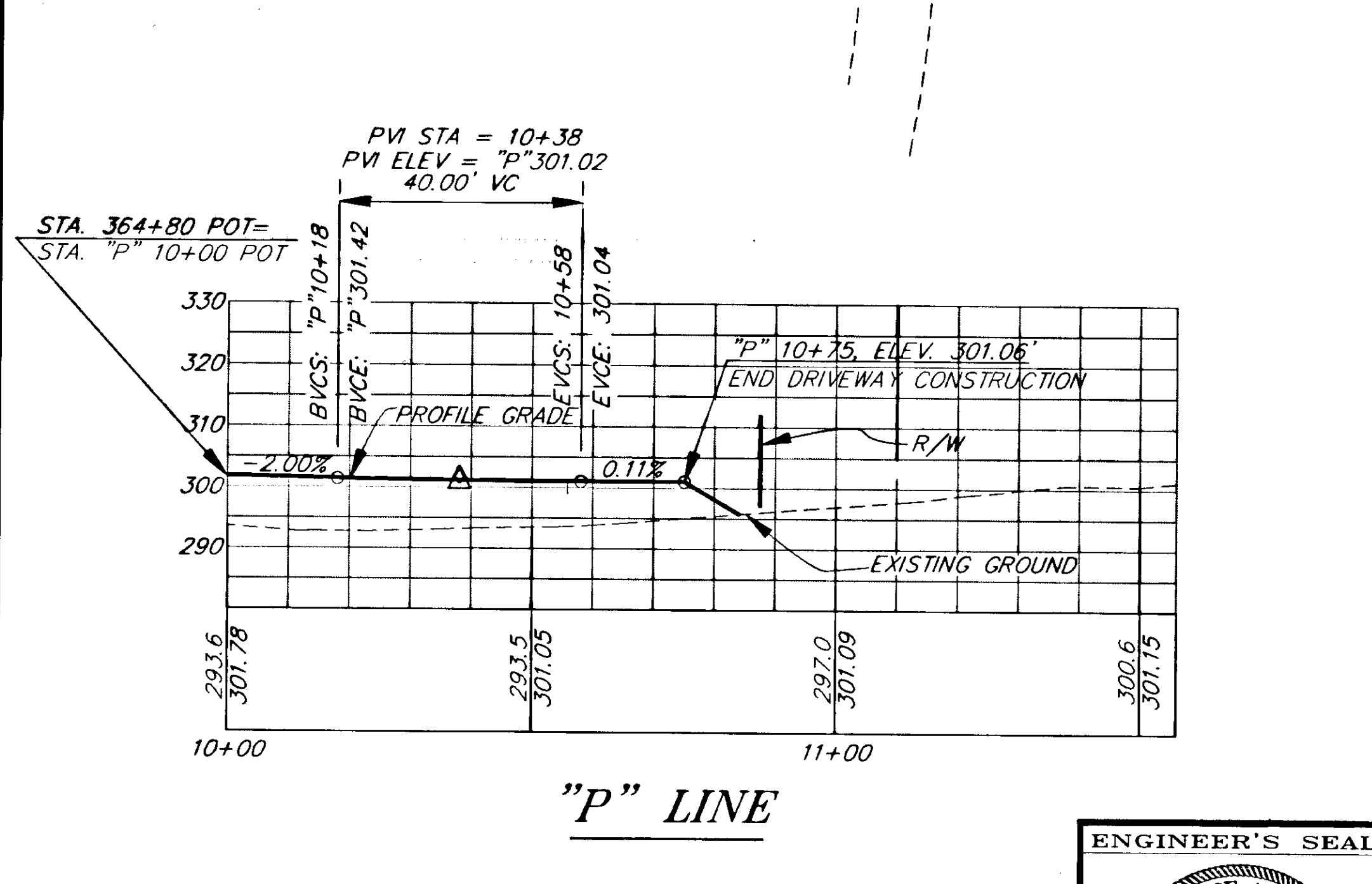
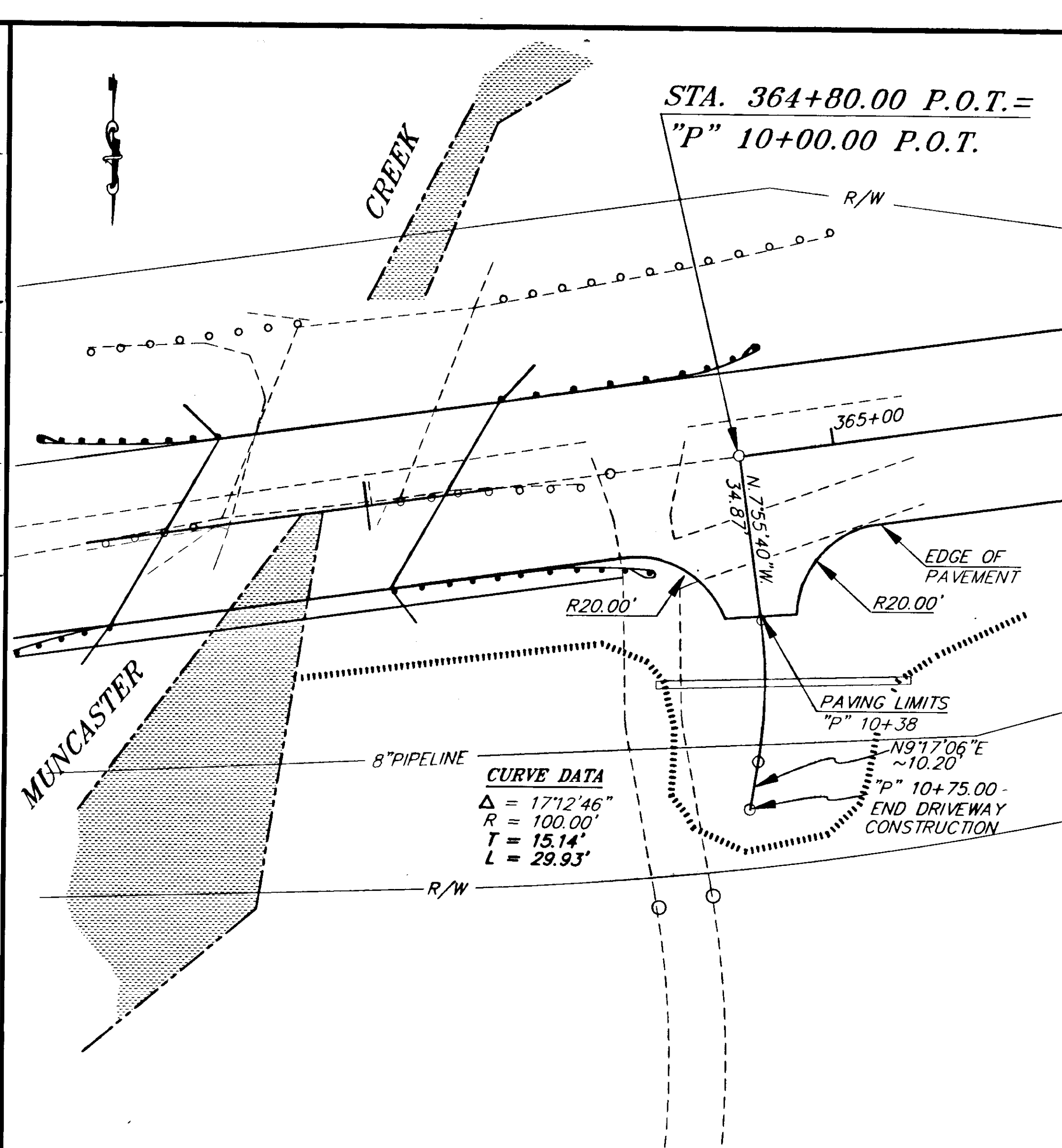
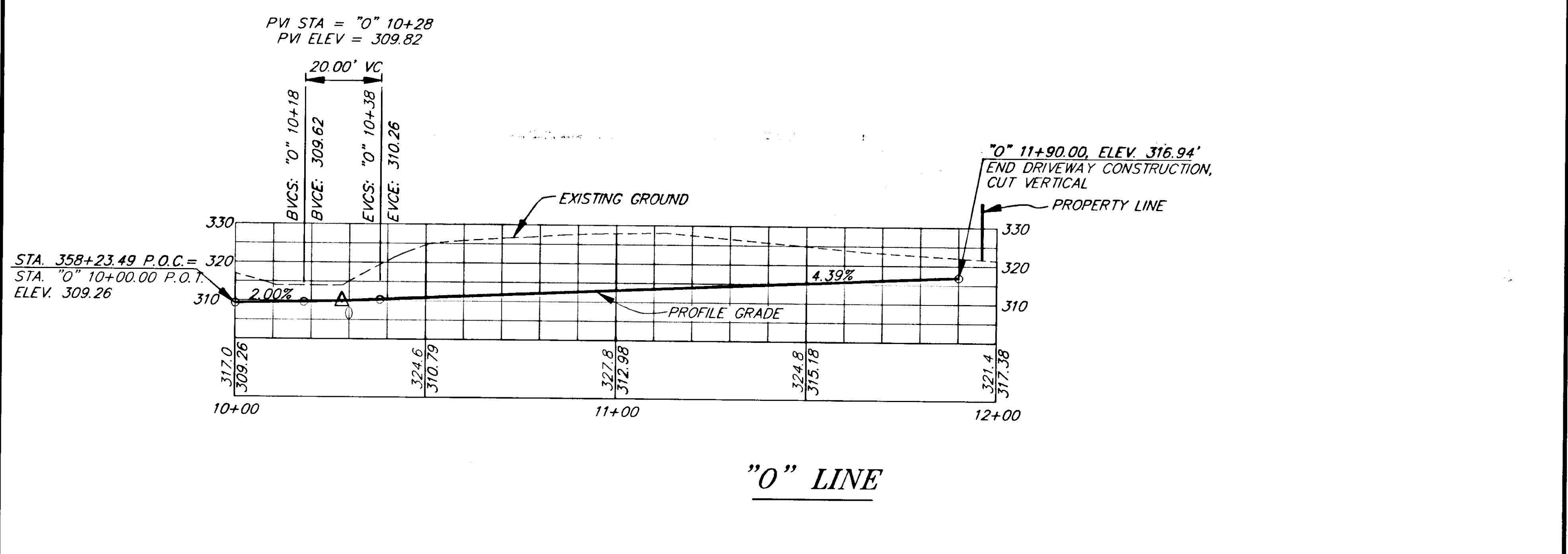
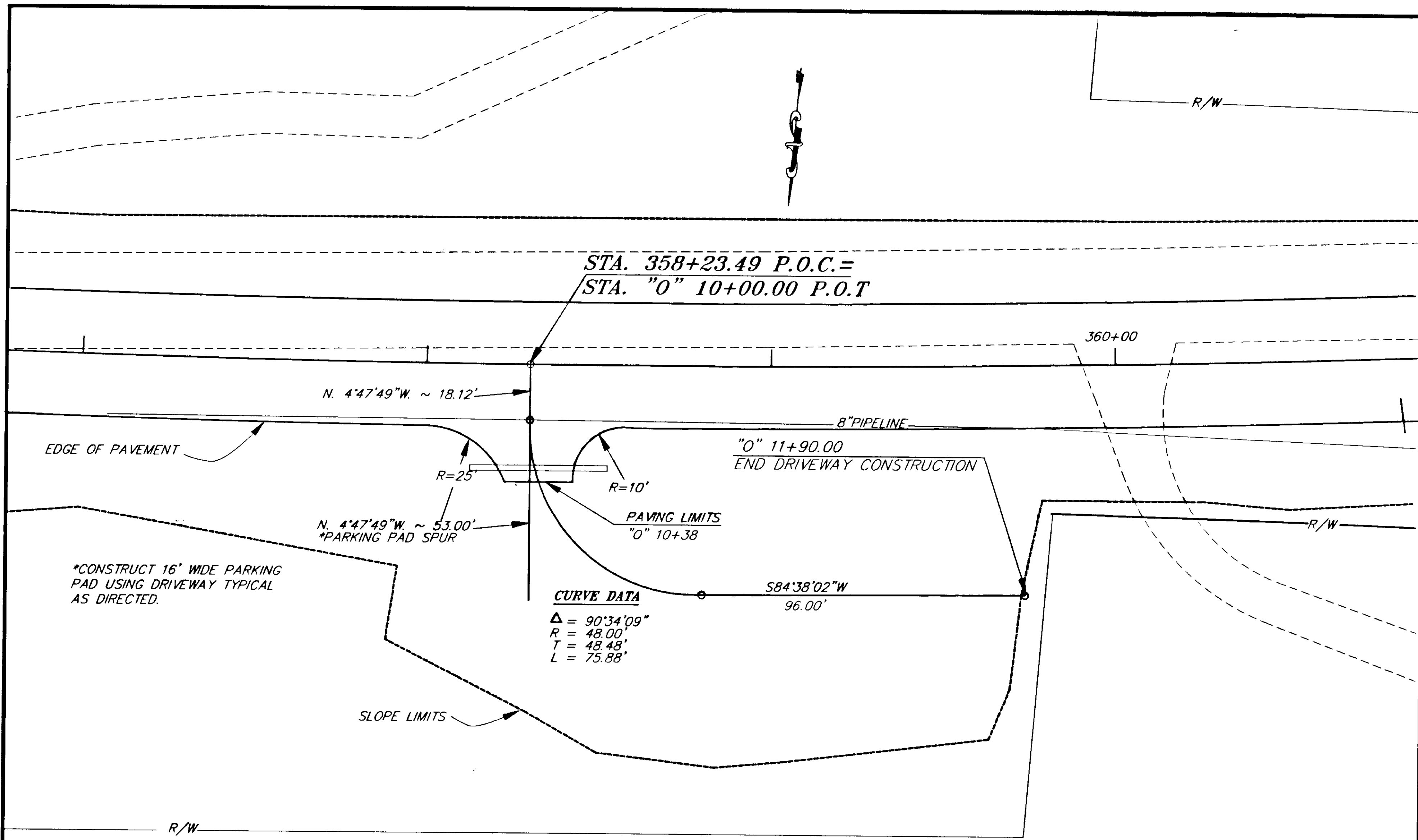
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| PATH: P:\HNS\67436\DR\--DRIVE2 1=20 |       |                        |
| BY:                                 | DATE: | DESCRIPTION OF CHANGE: |
|                                     |       |                        |
| <b>RECORD OF REVISIONS</b>          |       |                        |

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

HAINES  
 ALASKA  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**DRIVEWAY DETAILS**

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>C. ANDERSON  | DATE:<br>1998        |
| CHECKED BY:<br>T.W. MOORE | SHEET H21            |



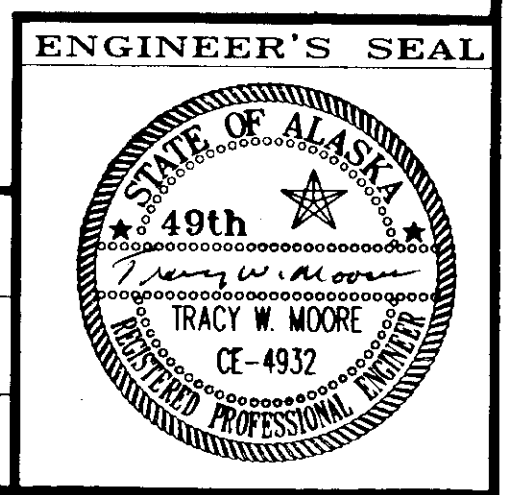


| RECORD OF REVISIONS |                              |
|---------------------|------------------------------|
| PATH:               | P: \HWS\67436\DR\DRIVE4 1=20 |
| BY:                 | DATE:                        |
|                     | DESCRIPTION OF CHANGE:       |

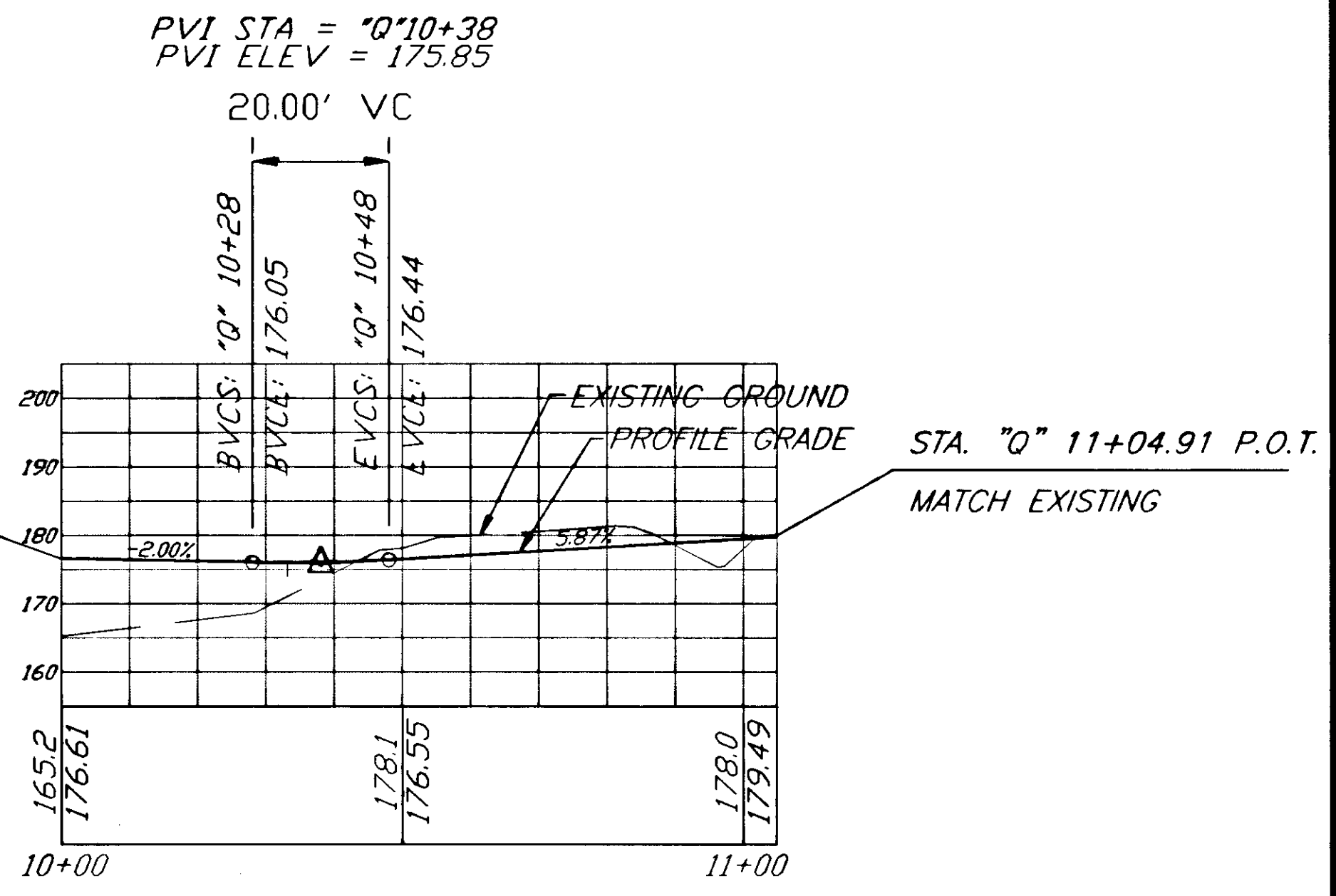
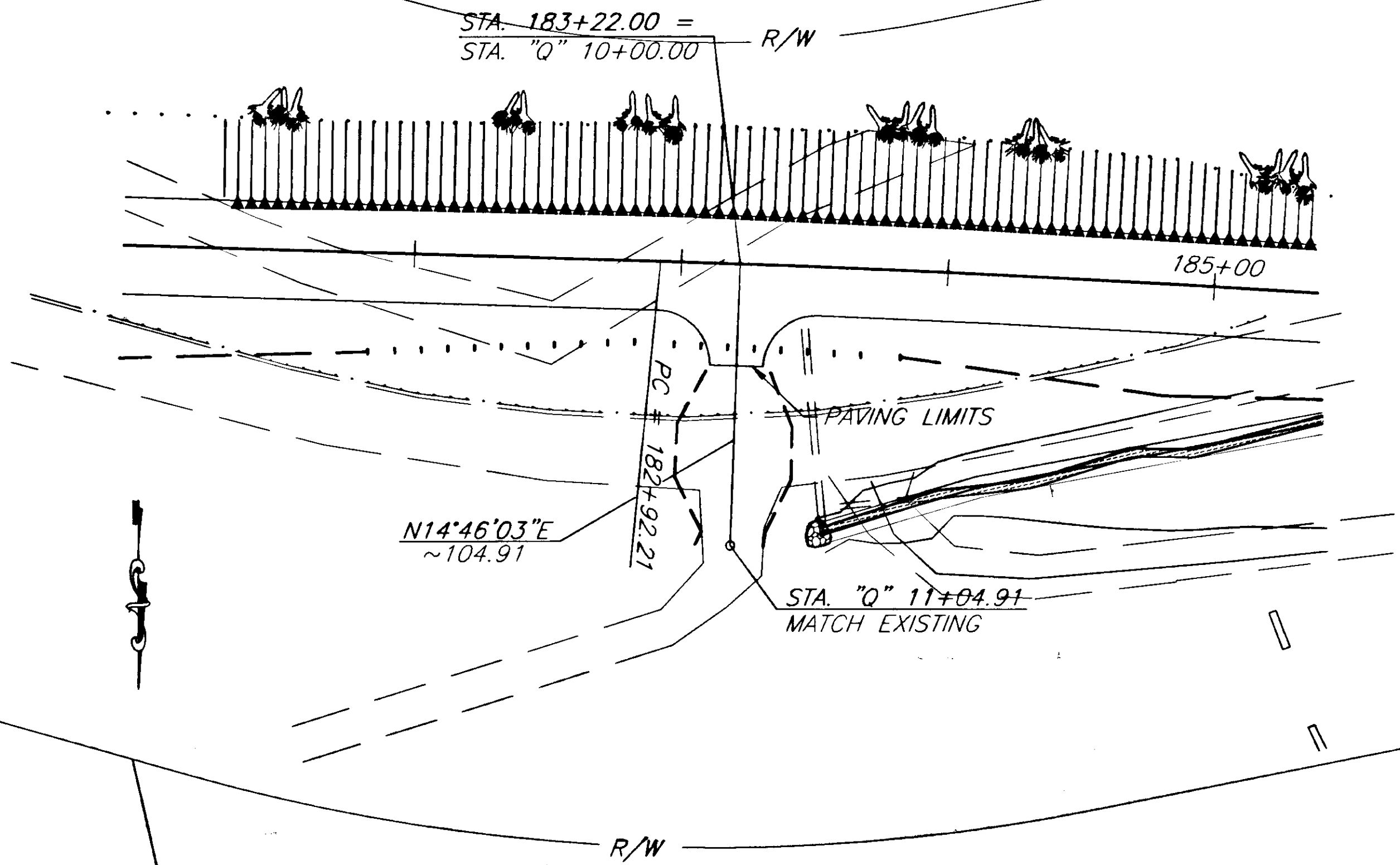
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
ALASKA  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**DRIVEWAY DETAILS**

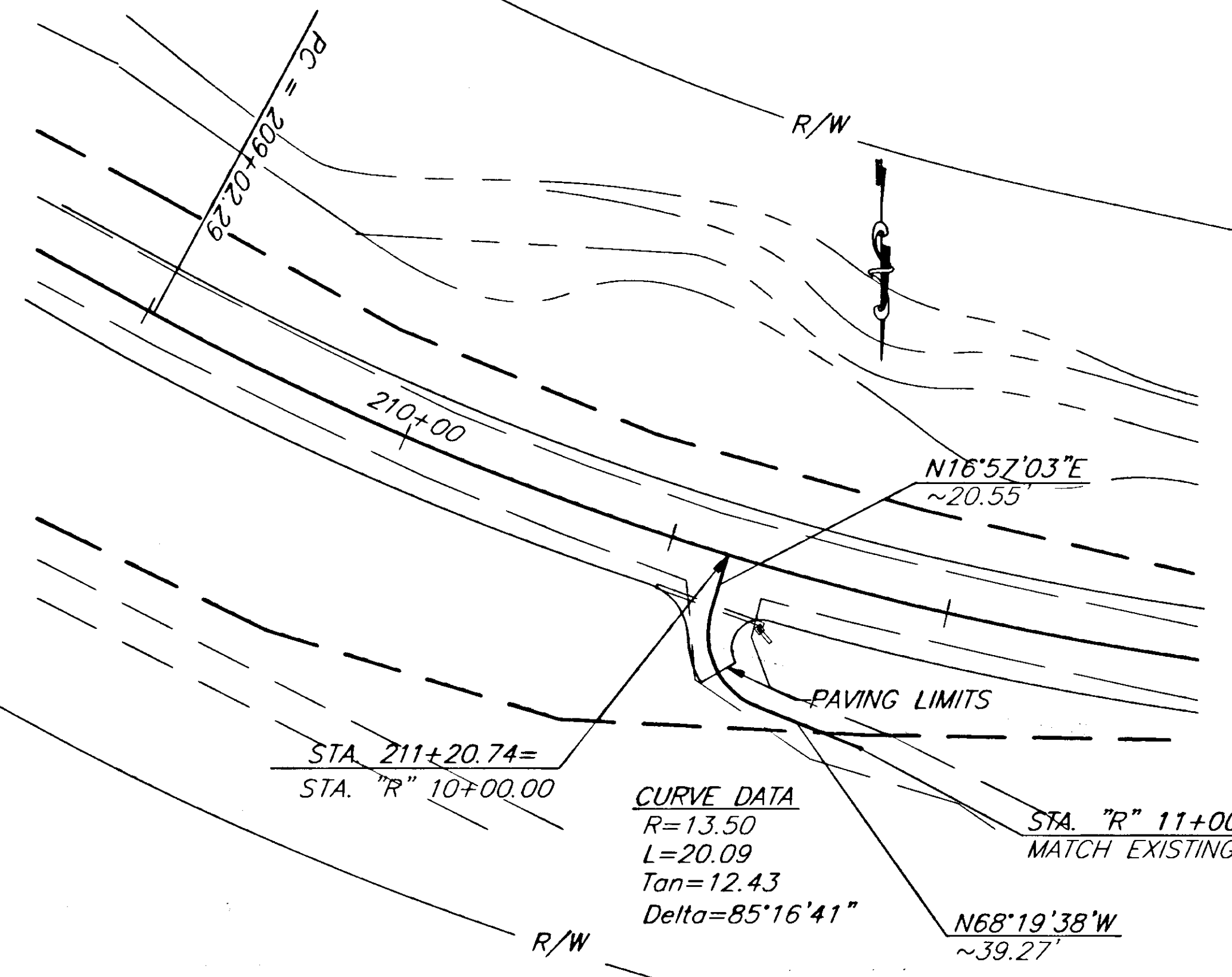
|              |             |             |       |
|--------------|-------------|-------------|-------|
| DESIGNED BY: | C. HAKARI   | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON | DATE:       | 1998  |
| CHECKED BY:  | T. W. MOORE | SHEET       | H22   |



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

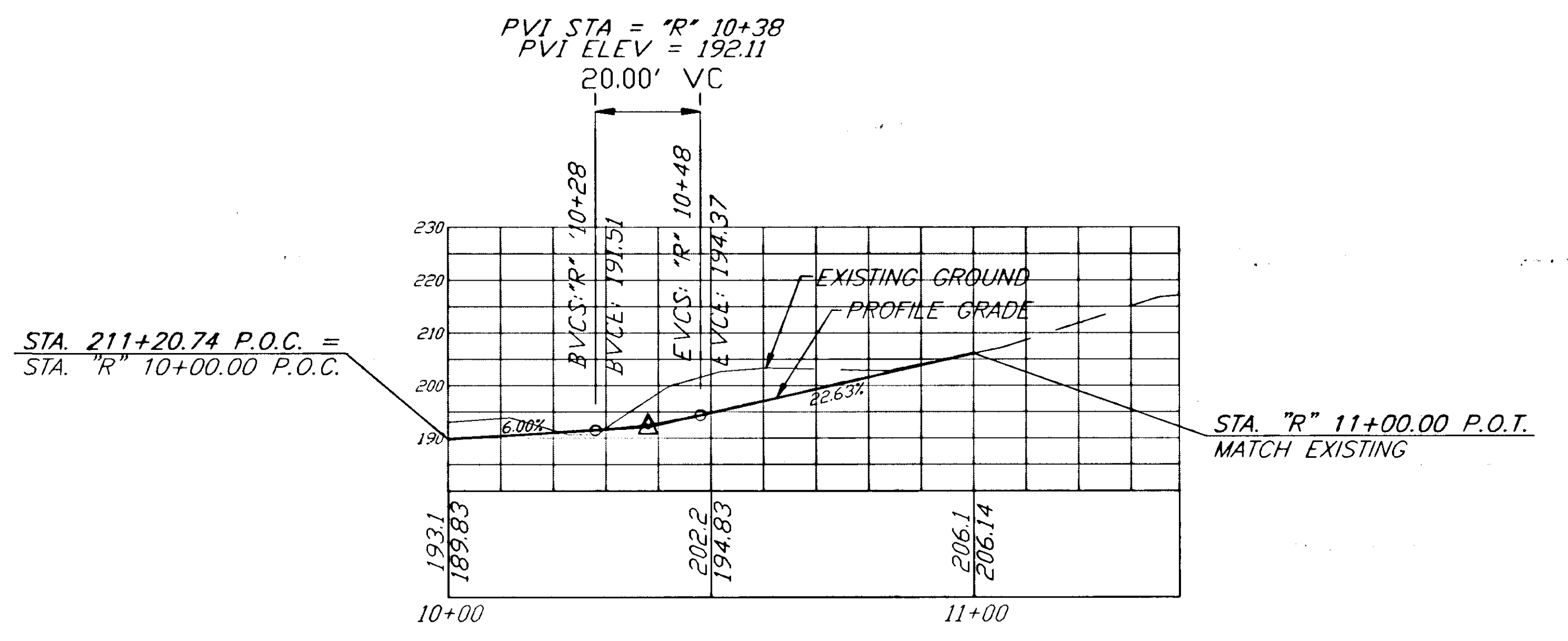


"Q" LINE



CURVE DATA  
 R=13.50  
 L=20.09  
 Tan=12.43  
 Delta=85°16'41"

PVI STA = "R" 10+38  
 PVI ELEV = 192.11



"R" LINE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

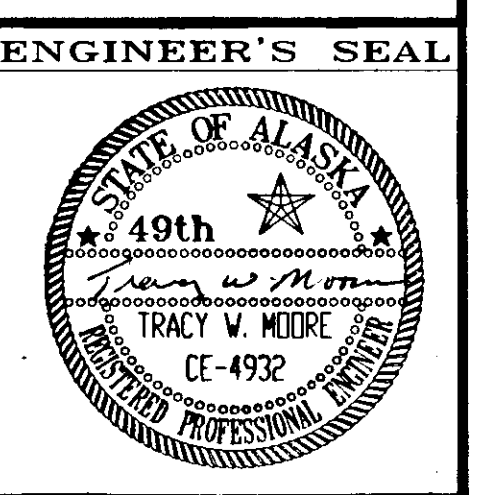
| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |

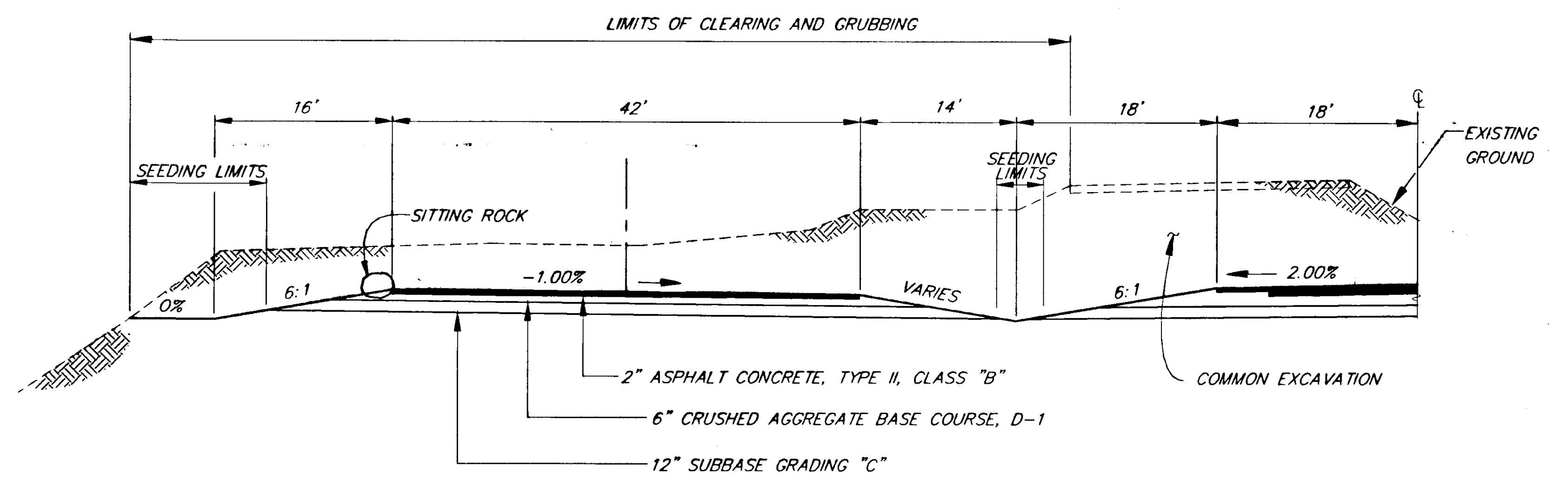
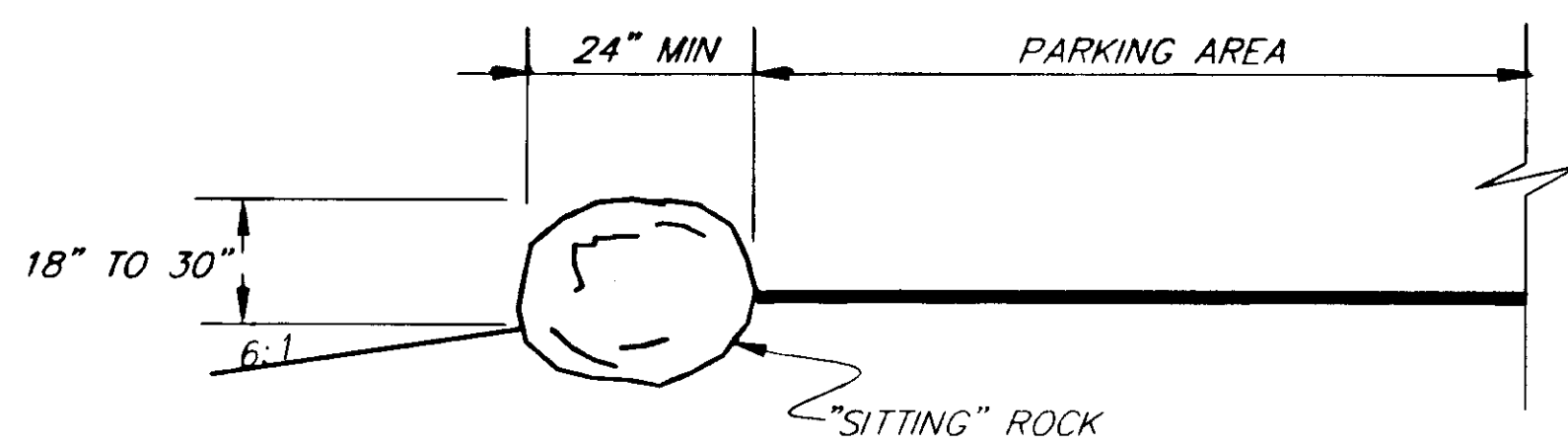
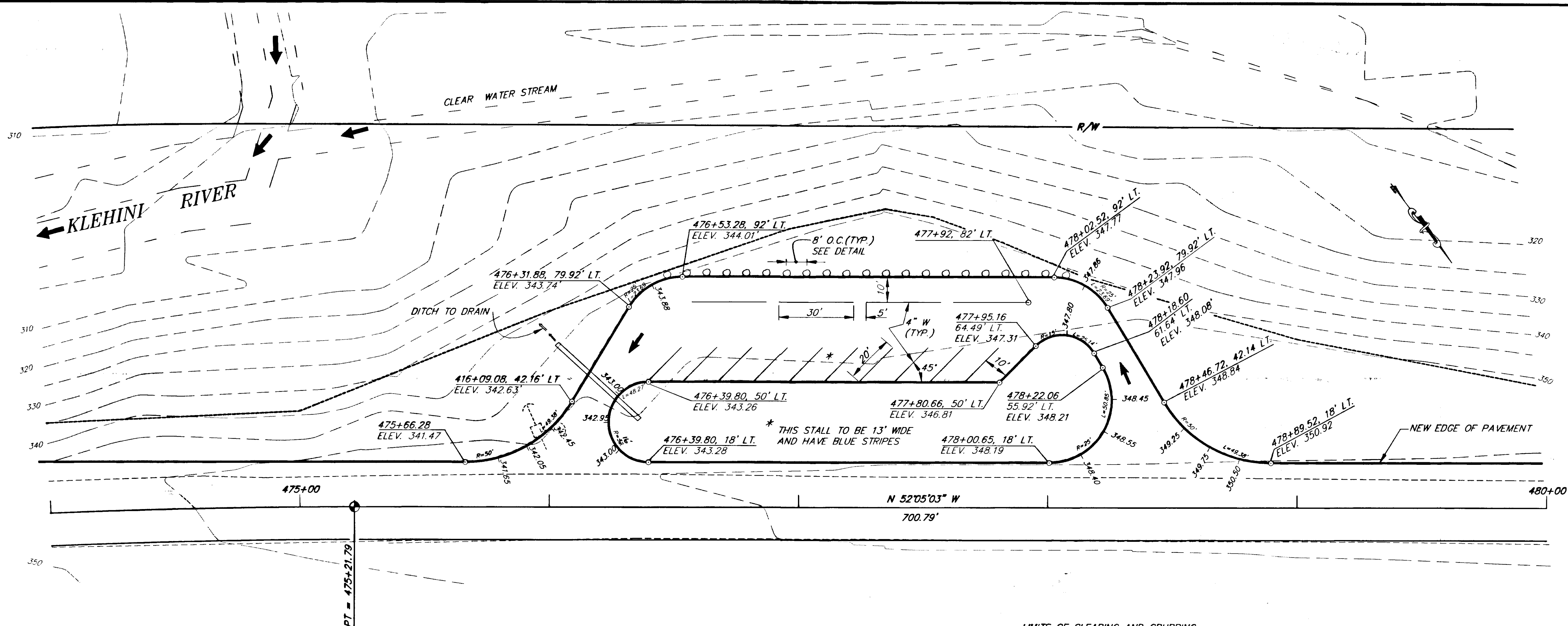
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 DRIVEWAY DETAILS

ALASKA  
 DESIGNED BY: C. HAKARI  
 DRAWN BY: W. HICKOK  
 CHECKED BY: T.W. MOORE

PROJECT NO. 71483  
 DATE: 1998  
 SHEET 423





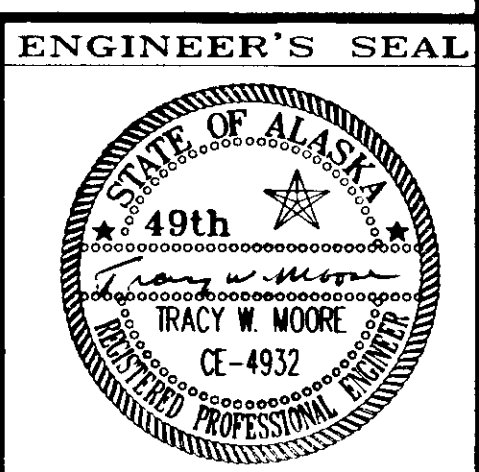
| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

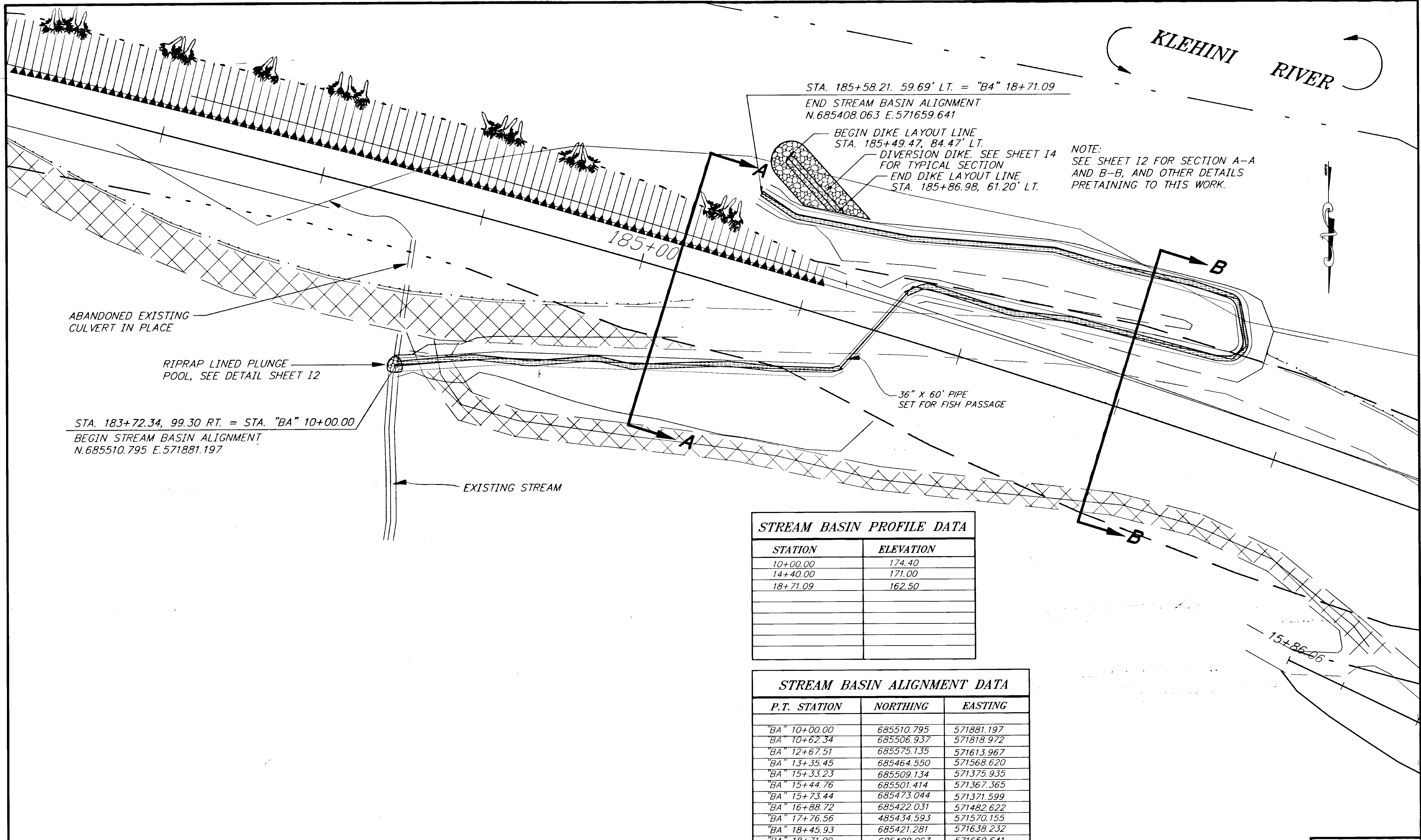
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**SCENIC TURNOUT PLAN**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>C. ANDERSON  | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET H24            |





STA. 185+58.21, 59.69' LT. = "B4" 18+71.09  
 END STREAM BASIN ALIGNMENT  
 N.685408.063 E.571659.641

BEGIN DIKE LAYOUT LINE  
 STA. 185+49.47, 84.47' LT.  
 DIVERSION DIKE. SEE SHEET I4  
 FOR TYPICAL SECTION

END DIKE LAYOUT LINE  
 STA. 185+86.98, 61.20' LT.

NOTE:  
 SEE SHEET I2 FOR SECTION A-A  
 AND B-B, AND OTHER DETAILS  
 PERTAINING TO THIS WORK.

ABANDONED EXISTING  
 CULVERT IN PLACE

RIPRAP LINED PLUNGE  
 POOL, SEE DETAIL SHEET I2

STA. 183+72.34, 99.30 RT. = STA. "BA" 10+00.00  
 BEGIN STREAM BASIN ALIGNMENT  
 N.685510.795 E.571881.197

EXISTING STREAM

36" X 60' PIPE  
 SET FOR FISH PASSAGE

**STREAM BASIN PROFILE DATA**

| STATION  | ELEVATION |
|----------|-----------|
| 10+00.00 | 174.40    |
| 14+40.00 | 171.00    |
| 18+71.09 | 162.50    |
|          |           |
|          |           |
|          |           |
|          |           |

**STREAM BASIN ALIGNMENT DATA**

| P.T. STATION  | NORTHING   | EASTING    |
|---------------|------------|------------|
| "BA" 10+00.00 | 685510.795 | 571881.197 |
| "BA" 10+62.34 | 685506.937 | 571818.972 |
| "BA" 12+67.51 | 685575.135 | 571613.967 |
| "BA" 13+35.45 | 685464.550 | 571568.620 |
| "BA" 15+33.23 | 685509.134 | 571375.935 |
| "BA" 15+44.76 | 685501.414 | 571367.365 |
| "BA" 15+73.44 | 685473.044 | 571371.599 |
| "BA" 16+88.72 | 685422.031 | 571482.622 |
| "BA" 17+76.56 | 485434.593 | 571570.155 |
| "BA" 18+45.93 | 685421.281 | 571638.232 |
| "BA" 18+71.09 | 685408.063 | 571659.641 |

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\HNS\67436\DR\BASPLN

PLOT: P:\LIB\PLOT\LOT.PCP(1) OR PLOT.PCP(2)

| BY: | DATE: | DESCRIPTION OF CHANGE: |
|-----|-------|------------------------|
|     |       |                        |

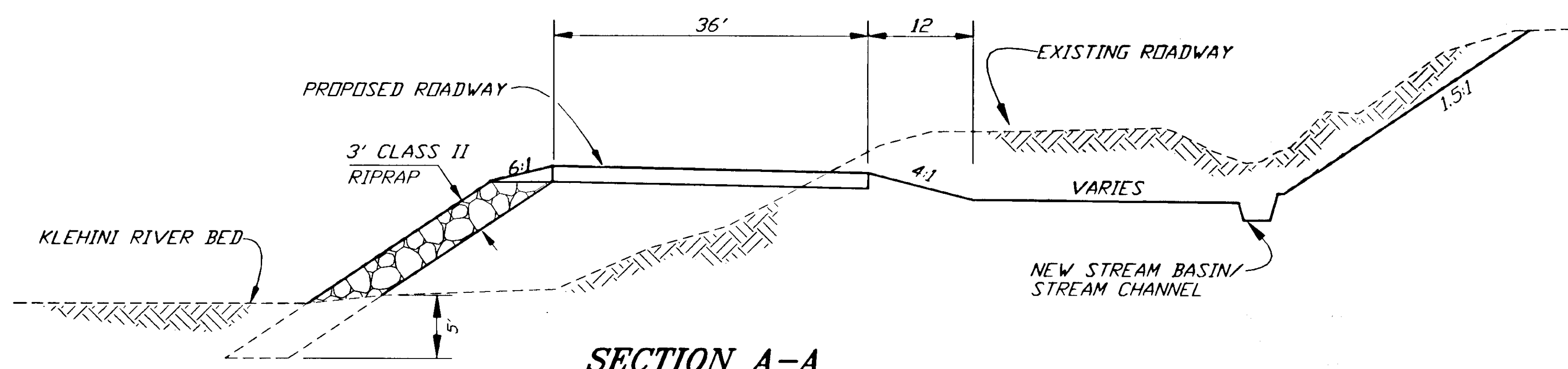
**RECORD OF REVISIONS**

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

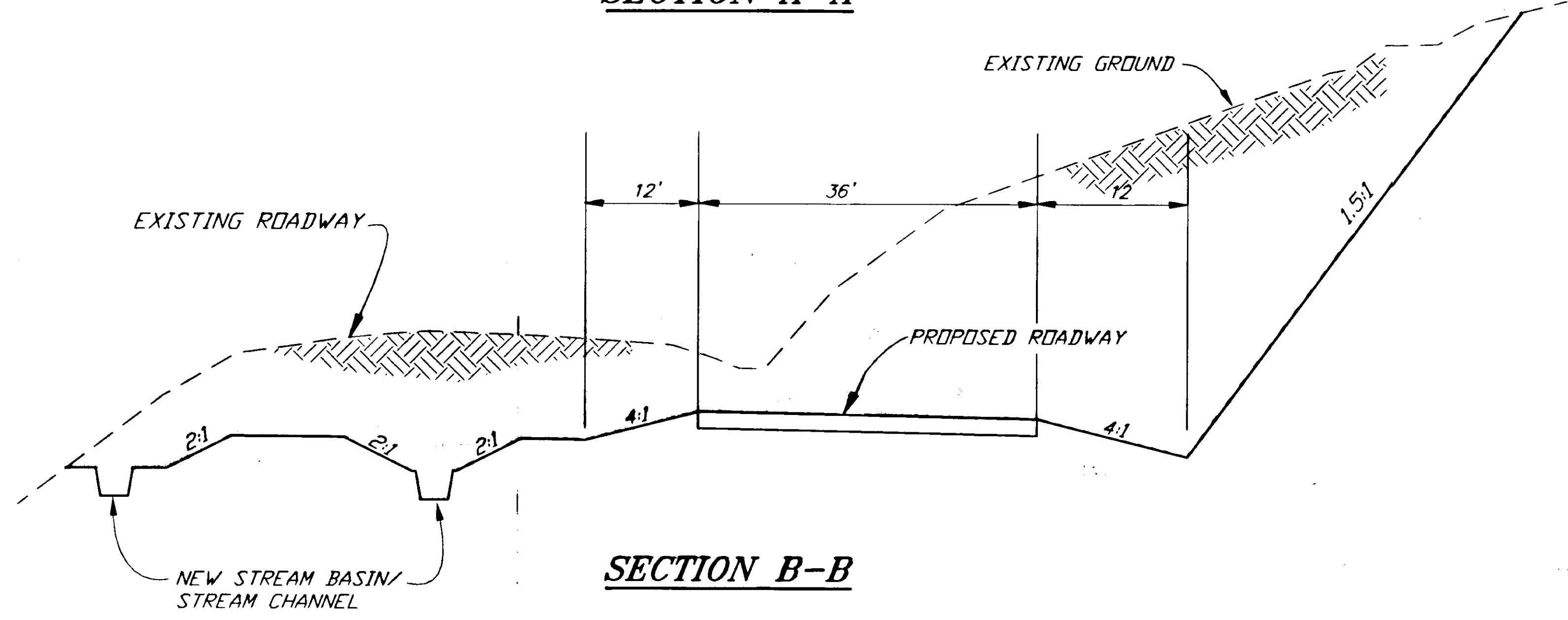
HAINES ALASKA  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**STREAM BASIN LAYOUT PLAN**

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T.W. MOORE | SHEET 11             |

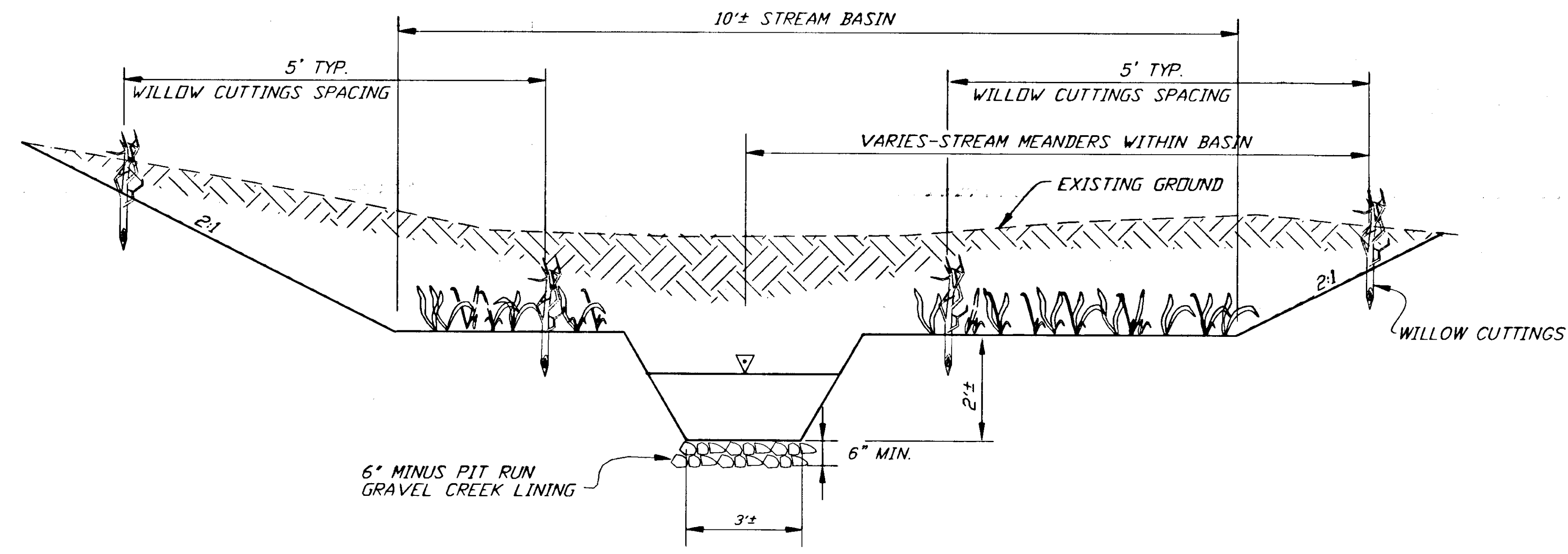




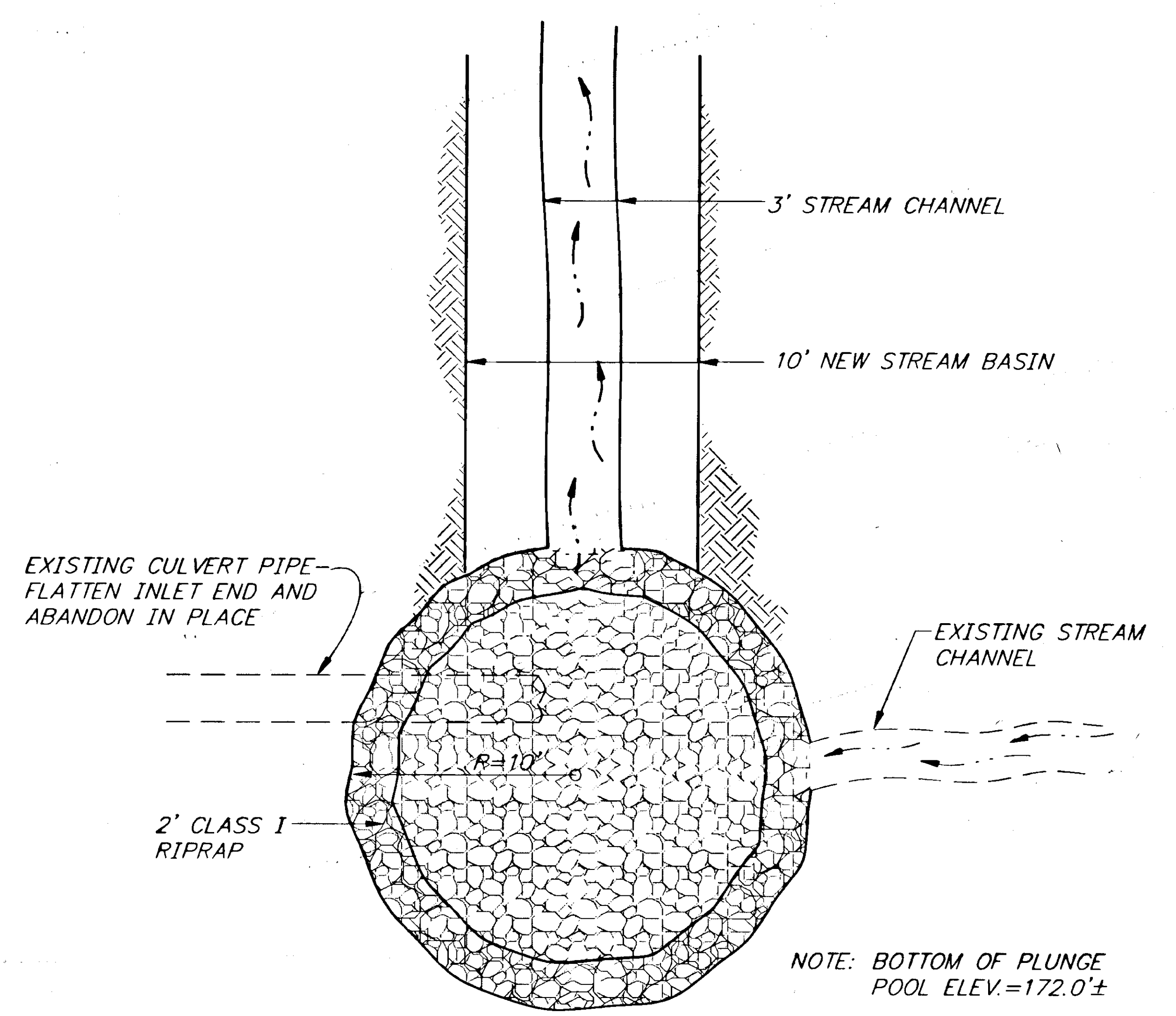
**SECTION A-A**



**SECTION B-B**



**STREAM BASIN/STREAM CHANNEL TYPICAL**



**RIP-RAP LINED PLUNGE POOL DETAIL**

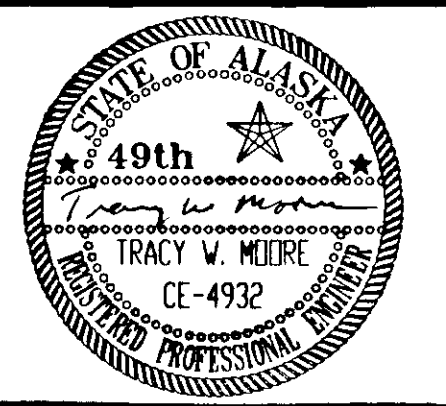
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|   |       |                        |
|---|-------|------------------------|
| PATH: P: \HNS\67436\DR\BASDET3                    |       |                        |
| PLOT: P: \-LIB\-PLOT\PL0TF.PCP(1) OR PLOTH.PCP(2) |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |
| <b>RECORD OF REVISIONS</b>                        |       |                        |

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

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) 71483  
**STREAM BASIN DETAILS**

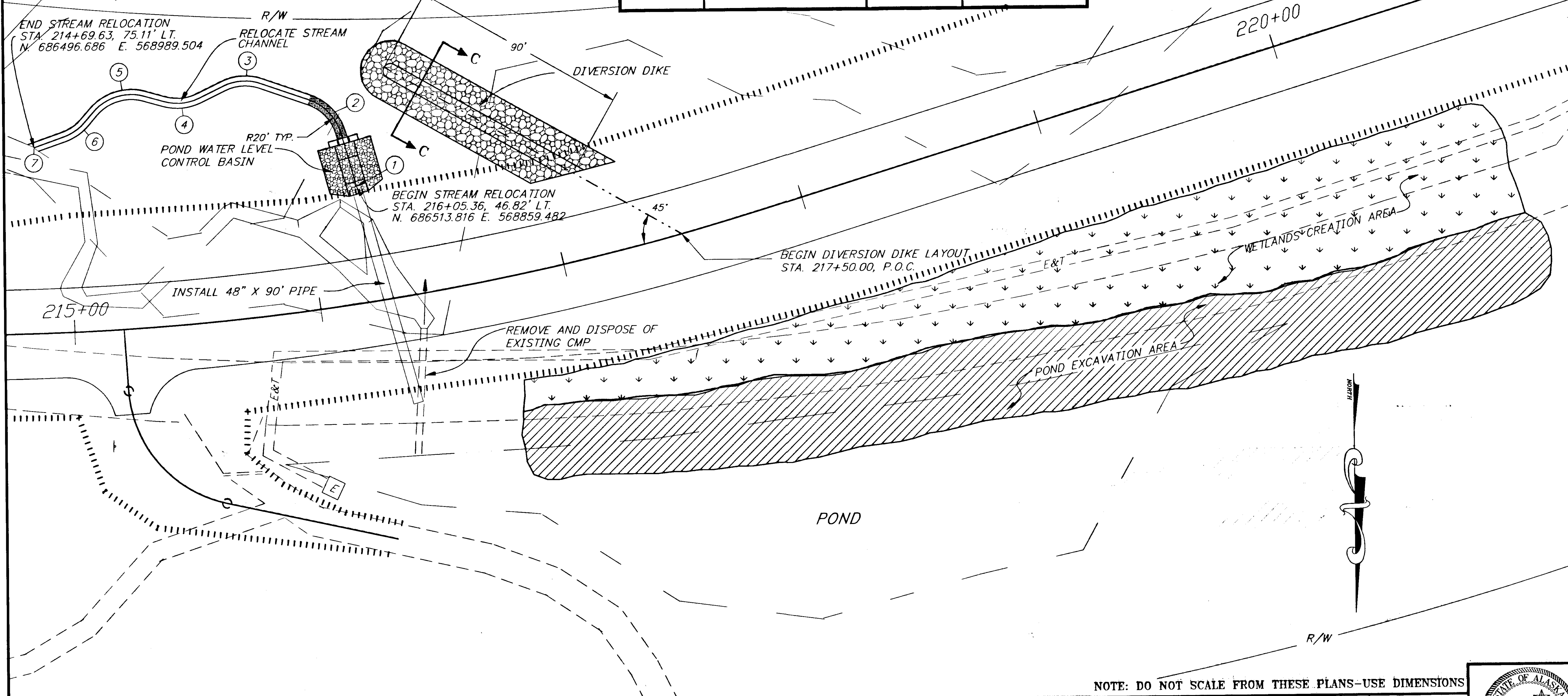
|              |            |             |       |
|--------------|------------|-------------|-------|
| DESIGNED BY: | C. HAKARI  | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK  | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE | SHEET       | 12    |



KLEHINI RIVER

### ALIGNMENT DATA TABLE STREAM CHANNEL RELOCATION

| POINT TO POINT | BEARING           | DISTANCE | DELTA       |
|----------------|-------------------|----------|-------------|
| 1 TO 2         | S. 15° 23' 09" E. | 32.71'   | 55° 19' 29" |
| 2 TO 3         | S. 70° 43' 08" E. | 39.62'   | 44° 54' 40" |
| 3 TO 4         | N. 64° 22' 12" E. | 26.79'   | 41° 14' 59" |
| 4 TO 5         | S. 74° 22' 49" E. | 28.75'   | 65° 05' 08" |
| 5 TO 6         | N. 40° 32' 03" E. | 23.32'   | 30° 12' 53" |
| 6 TO 7         | N. 70° 44' 56" E. | 17.95'   |             |



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

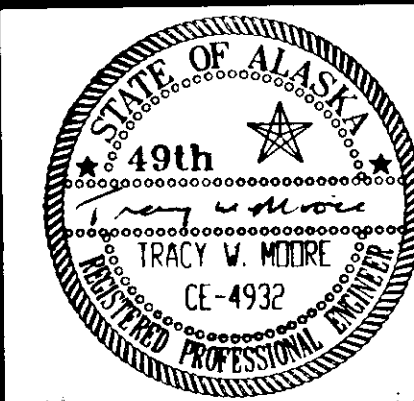
STATE OF ALASKA  
**DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES**  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES

HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**POND/STREAM MITIGATION PLAN**

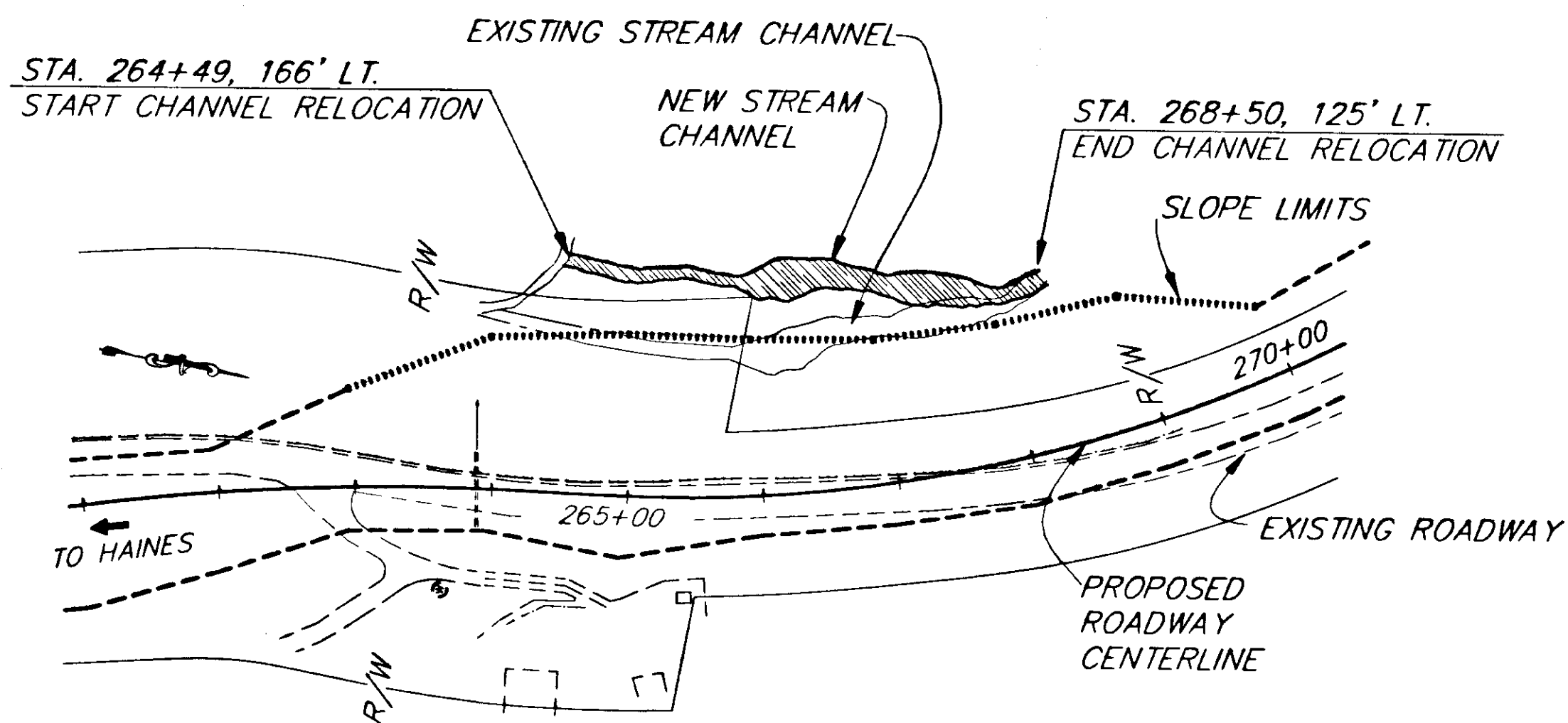
ALASKA

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T.W. MOORE | SHEET 13             |

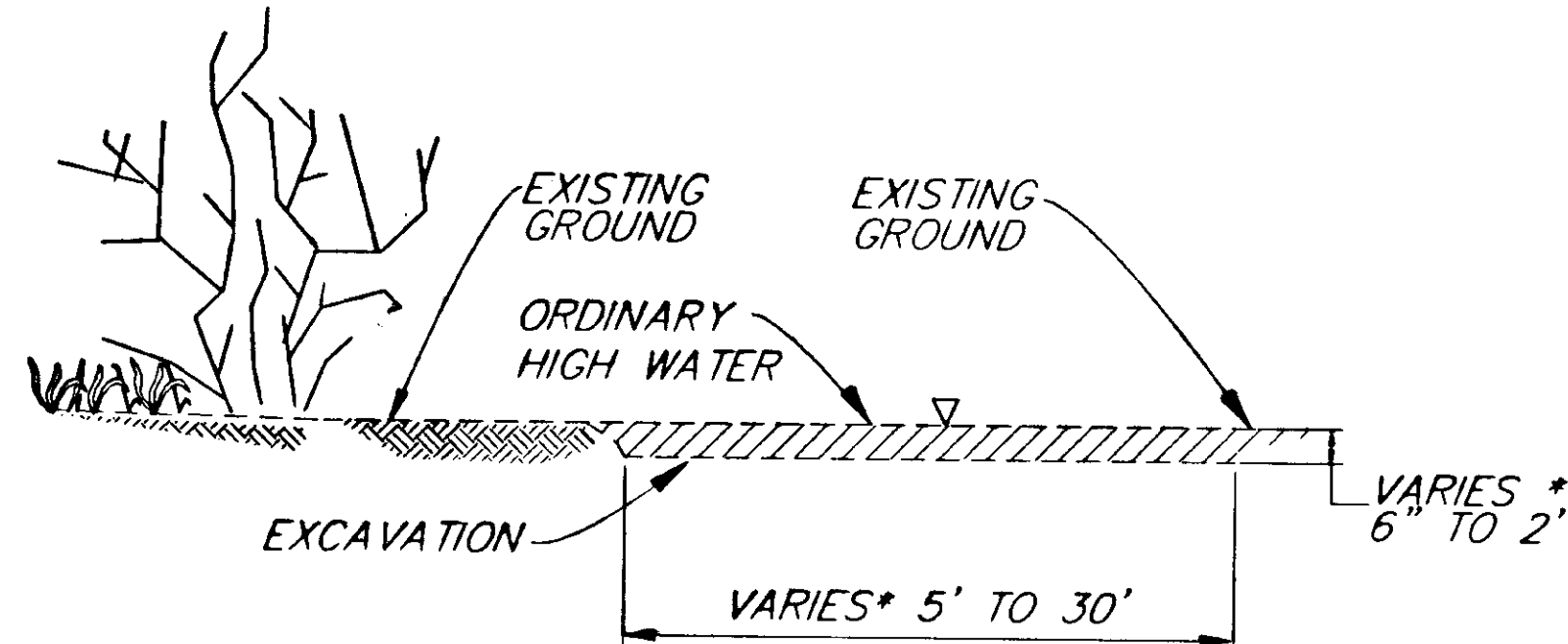








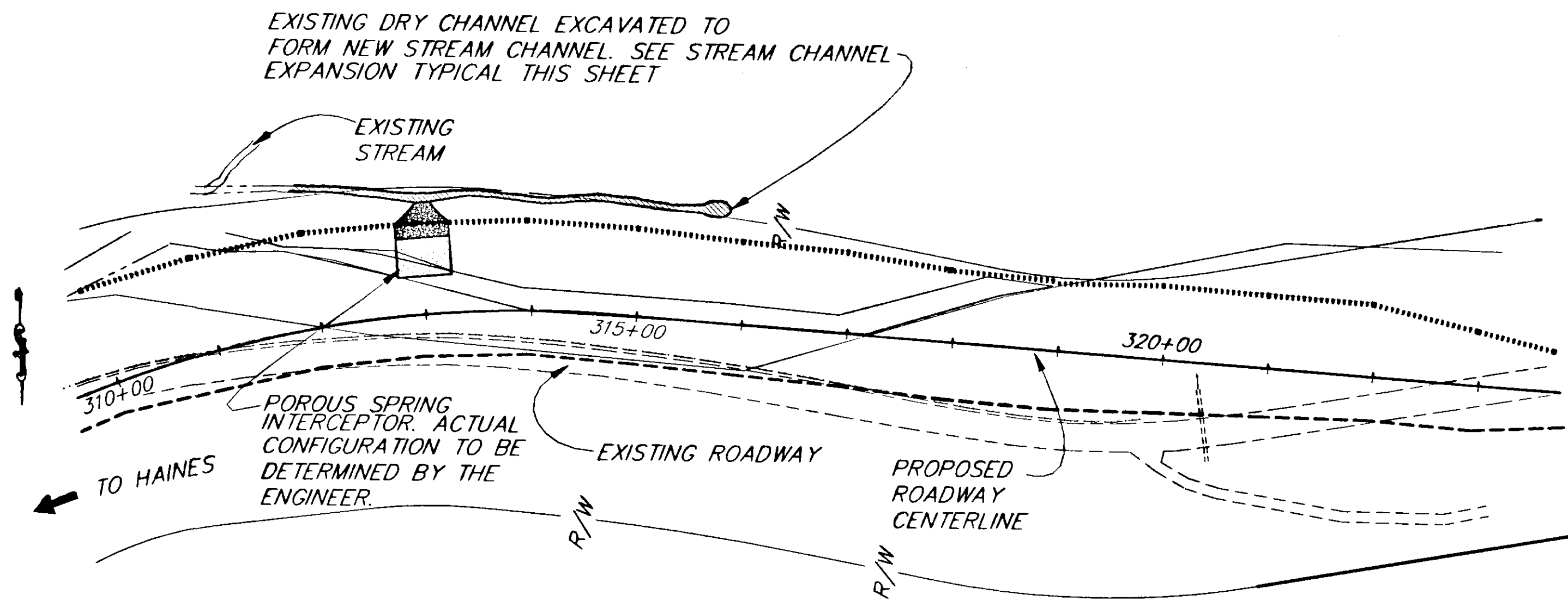
**PLAN VIEW**  
STA. 264+50 TO 268+50



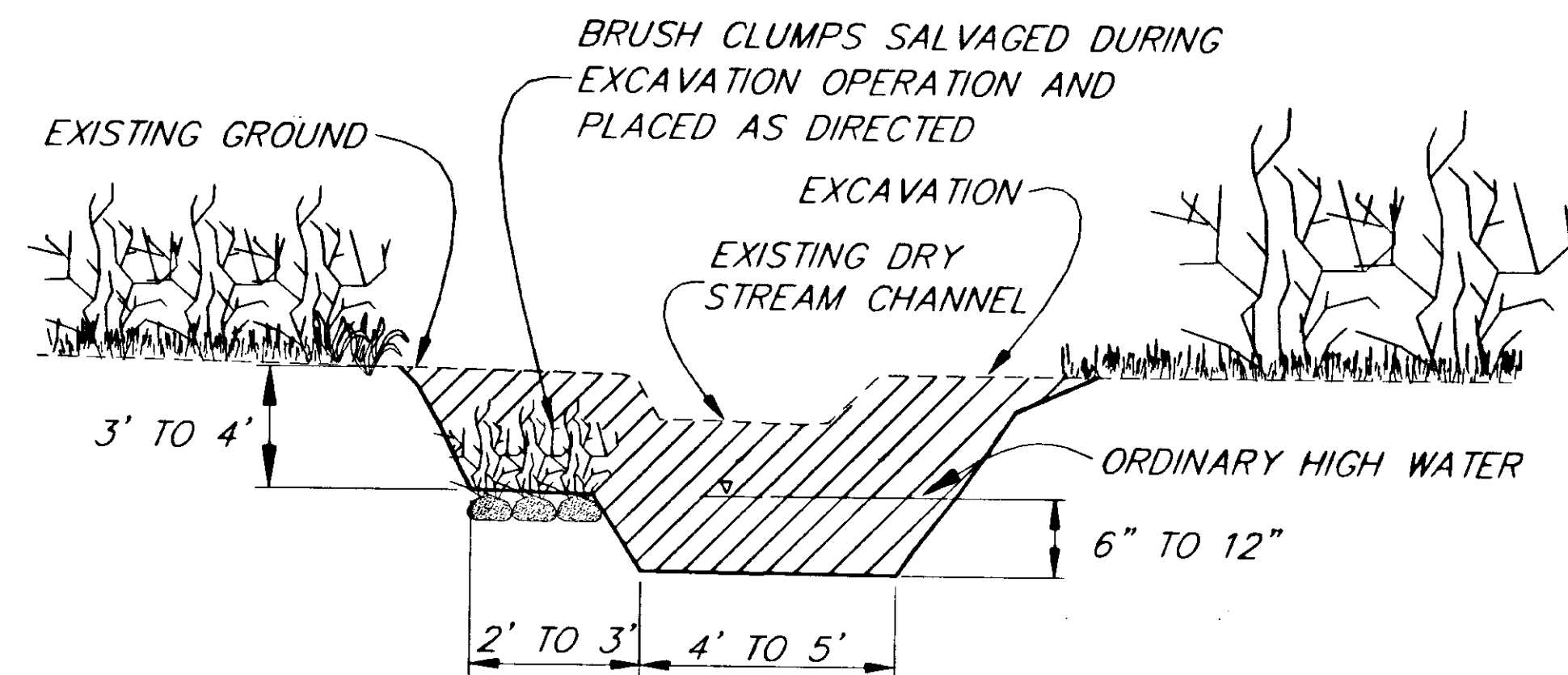
\* THE RELOCATED STREAM CHANNEL WIDTHS AND DEPTHS SHALL CLOSELY APPROXIMATE THOSE OF THE CORRESPONDING STREAM SEGMENT BEING REPLACED.

**TYPICAL SECTION**

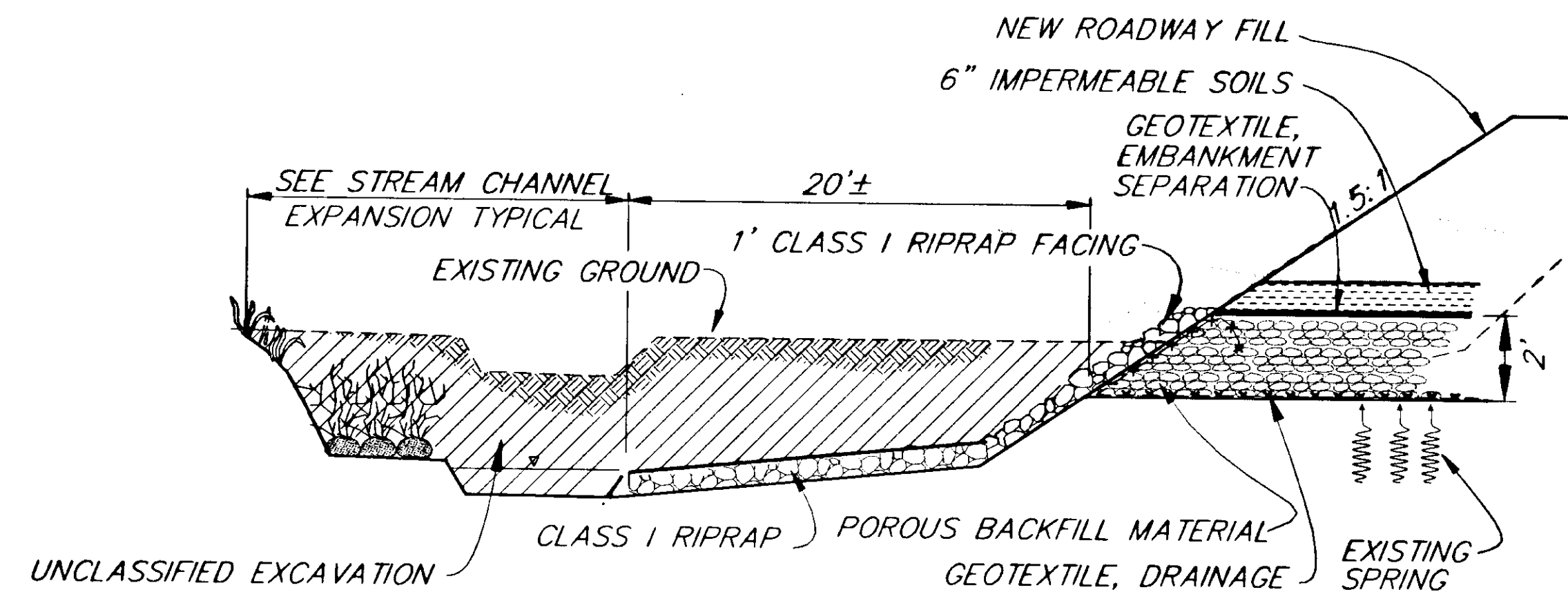
**STREAM CHANNEL RELOCATION**



**PLAN VIEW**  
STA. 312+00 TO 316+00



**STREAM CHANNEL EXPANSION TYPICAL**



**SPRING INTERCEPTOR TYPICAL**

**STREAM CHANNEL CONSTRUCTION**

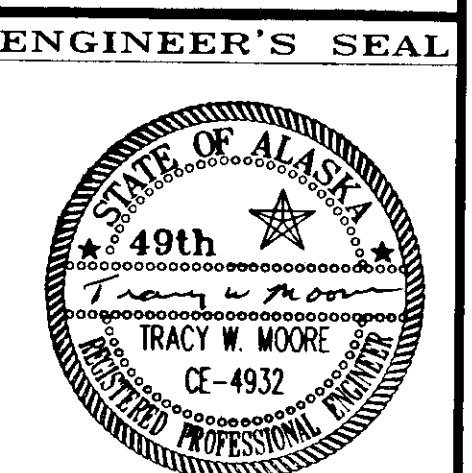
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| PATH: P:\HNS\67436\DR\ -STCHDET 1=1 |       |
| BY:                                 | DATE: |
| DESCRIPTION OF CHANGE:              |       |
| RECORD OF REVISIONS                 |       |

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

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
STREAM CHANNEL RELOCATION  
AND CONSTRUCTION DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|              |           |             |       |
|--------------|-----------|-------------|-------|
| DESIGNED BY: | C. HAKARI | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK | DATE:       | 1998  |
| CHECKED BY:  | T. MOORE  | SHEET       | 15    |



**ALIGNMENT DATA TABLE  
29 MILE CREEK EXTENSION**

| POINT TO POINT | BEARING           | DISTANCE | DELTA       |
|----------------|-------------------|----------|-------------|
| 1 TO 2         | S. 88° 02' 53" W. | 84.69'   | 26° 29' 50" |
| 2 TO 3         | N. 65° 27' 17" W. | 85.65'   | 38° 06' 45" |
| 3 TO 4         | S. 76° 25' 58" W. | 57.39'   | 30° 05' 54" |
| 4 TO 5         | N. 73° 28' 08" W. | 64.21'   | 29° 42' 02" |
| 5 TO 6         | S. 76° 49' 50" W. | 92.86'   | 31° 29' 11" |
| 6 TO 7         | N. 71° 40' 59" W. | 153.00'  | 36° 55' 43" |
| 7 TO 8         | S. 71° 23' 18" W. | 96.42'   | 27° 19' 58" |
| 8 TO 9         | N. 81° 16' 43" W. | 183.92'  | 07° 34' 09" |
| 9 TO 10        | N. 73° 42' 35" W. | 65.14'   | 12° 45' 32" |
| 10 TO 11       | N. 86° 28' 07" W. | 156.12'  |             |

**ALIGNMENT DATA TABLE  
29 MI.-30 MI. CREEK EXTENSION**

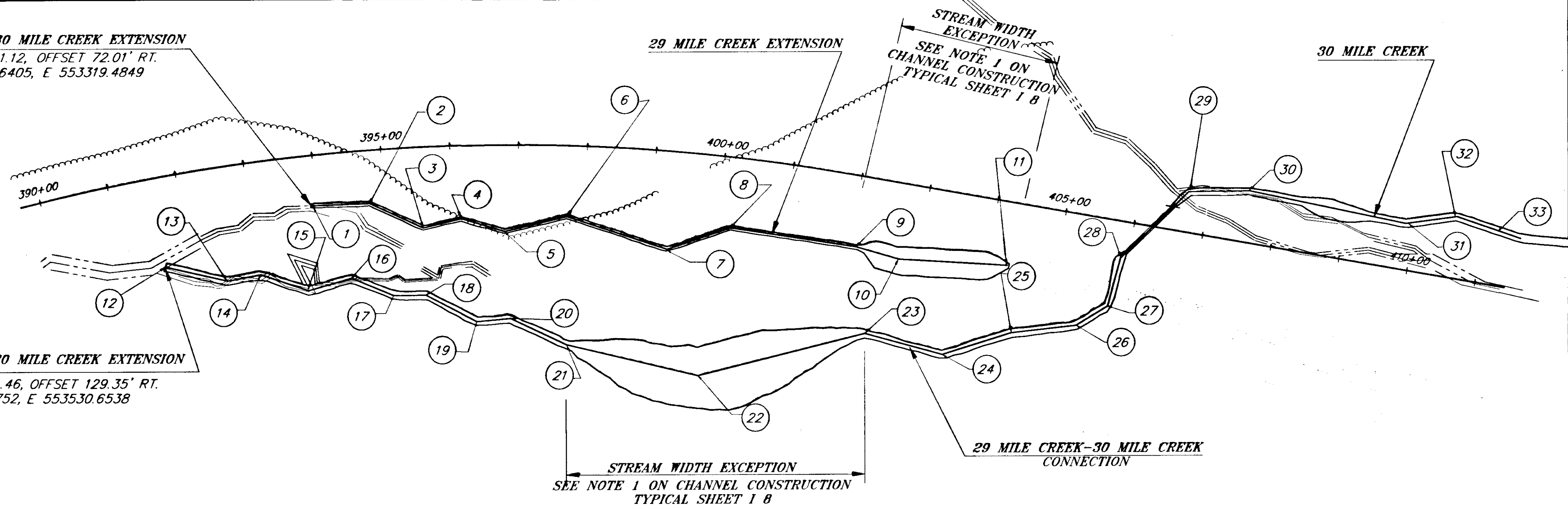
| POINT TO POINT | BEARING           | DISTANCE | DELTA       |
|----------------|-------------------|----------|-------------|
| 12 TO 13       | N. 77° 11' 55" W. | 92.80'   | 23° 19' 11" |
| 13 TO 14       | S. 79° 28' 54" W. | 48.81'   | 29° 07' 09" |
| 14 TO 15       | N. 71° 23' 57" W. | 73.06'   | 34° 32' 33" |
| 15 TO 16       | S. 74° 03' 30" W. | 64.88'   | 38° 30' 40" |
| 16 TO 17       | N. 67° 25' 50" W. | 66.02'   | 23° 24' 42" |
| 17 TO 18       | S. 89° 09' 28" W. | 46.62'   | 28° 02' 25" |
| 18 TO 19       | N. 62° 48' 05" W. | 82.47'   | 31° 59' 30" |
| 19 TO 20       | S. 85° 12' 24" W. | 49.16'   | 29° 55' 58" |
| 20 TO 21       | N. 64° 51' 38" W. | 89.93'   | 11° 49' 05" |
| 21 TO 22       | N. 76° 40' 43" W. | 194.65'  | 27° 12' 54" |
| 22 TO 23       | S. 76° 06' 23" W. | 249.07'  | 29° 06' 33" |
| 23 TO 24       | N. 74° 47' 04" W. | 116.18'  | 32° 22' 25" |
| 24 TO 25       | S. 72° 50' 31" W. | 105.11'  | 10° 51' 31" |
| 25 TO 26       | S. 83° 42' 02" W. | 94.50'   | 24° 41' 52" |
| 26 TO 27       | S. 59° 00' 10" W. | 52.86'   | 43° 31' 55" |
| 27 TO 28       | S. 15° 26' 15" W. | 72.33'   | 30° 46' 16" |
| 28 TO 29       | S. 46° 12' 31" W. | 137.96'  | 43° 08' 12" |
| 29 TO 30       | S. 89° 20' 43" W. | 86.16'   | 12° 32' 32" |
| 30 TO 31       | N. 78° 06' 39" W. | 231.74'  | 19° 25' 56" |
| 31 TO 32       | S. 82° 27' 25" W. | 74.99'   | 26° 36' 41" |
| 32 TO 33       | N. 70° 55' 54" W. | 97.93'   | 13° 44' 15" |
| 33 TO 34       | N. 84° 40' 09" W. | 74.17'   | 12° 49' 26" |
| 34 TO 35       | N. 71° 50' 43" W. | 72.66'   | 24° 36' 43" |
| 35 TO 36       | S. 83° 32' 34" W. | 52.52'   | 21° 04' 21" |
| 36 TO 37       | N. 75° 23' 05" W. | 90.05'   | 04° 54' 53" |
| 37 TO 38       | N. 80° 17' 58" W. | 64.26'   | 09° 40' 00" |
| 38 TO 39       | N. 70° 37' 58" W. | 76.19'   |             |

**ALIGNMENT DATA TABLE  
30 MILE CREEK REALIGNMENT**

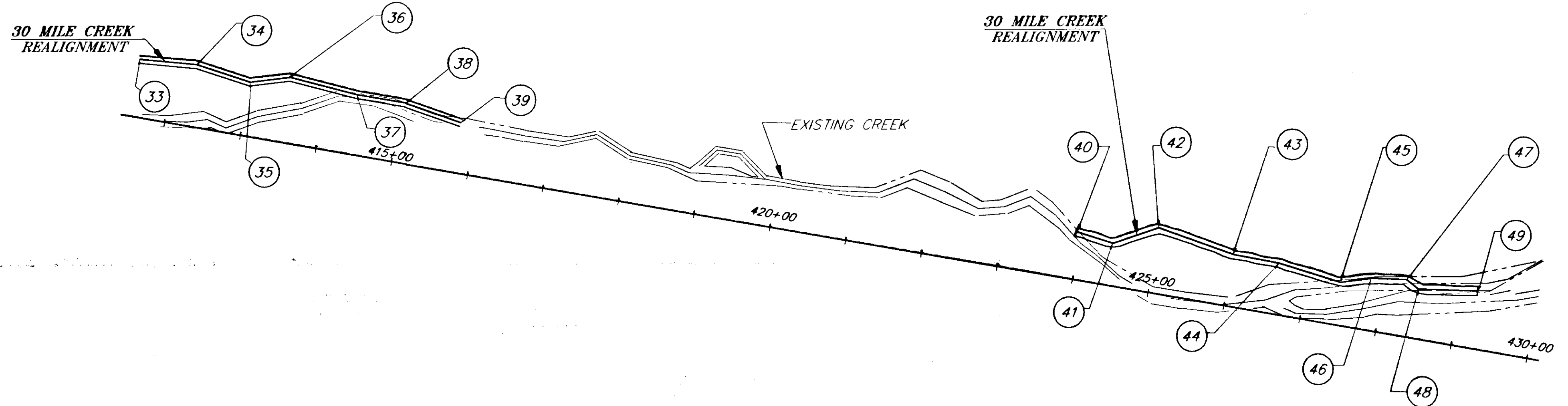
| POINT TO POINT | BEARING           | DISTANCE | DELTA       |
|----------------|-------------------|----------|-------------|
| 40 TO 41       | N. 72° 11' 29" W. | 49.89'   | 36° 14' 22" |
| 41 TO 42       | S. 71° 34' 09" W. | 62.72'   | 38° 18' 54" |
| 42 TO 43       | N. 70° 06' 57" W. | 104.15'  | 08° 56' 55" |
| 43 TO 44       | N. 29° 03' 52" W. | 60.00'   | 06° 36' 46" |
| 44 TO 45       | N. 22° 27' 07" W. | 83.18'   | 24° 25' 47" |
| 45 TO 46       | S. 83° 07' 07" W. | 41.22'   | 09° 18' 03" |
| 46 TO 47       | N. 87° 34' 52" W. | 46.18'   | 37° 08' 03" |
| 47 TO 48       | N. 50° 26' 49" W. | 19.39'   | 37° 37' 42" |
| 48 TO 49       | N. 88° 04' 31" W. | 77.38'   |             |

BEGIN 29 MILE-30 MILE CREEK EXTENSION  
STA. 393+91.12, OFFSET 72.01' RT.  
N 6888.6405, E 553319.4849

BEGIN 29 MILE-30 MILE CREEK EXTENSION  
STA. 391+61.46, OFFSET 129.35' RT.  
N 688964.7752, E 553530.6538



NOTE:  
THE STREAM CHANNEL LAYOUT SHOWN IN THIS PLAN IS SUBJECT TO MINOR REVISIONS.



NOTE:  
THE STREAM CHANNEL LAYOUT SHOWN IN THIS PLAN IS SUBJECT TO MINOR REVISIONS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| BY: | DATE: | DESCRIPTION OF CHANGE: |
|-----|-------|------------------------|
|     |       |                        |
|     |       |                        |
|     |       |                        |

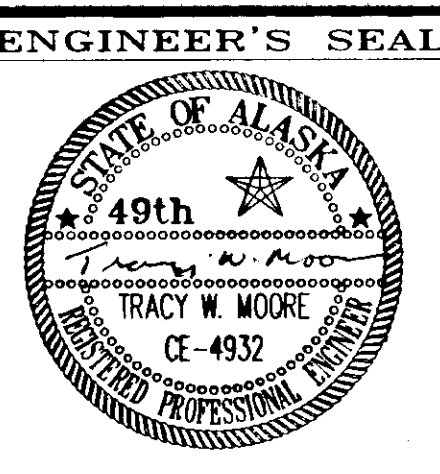
RECORD OF REVISIONS

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

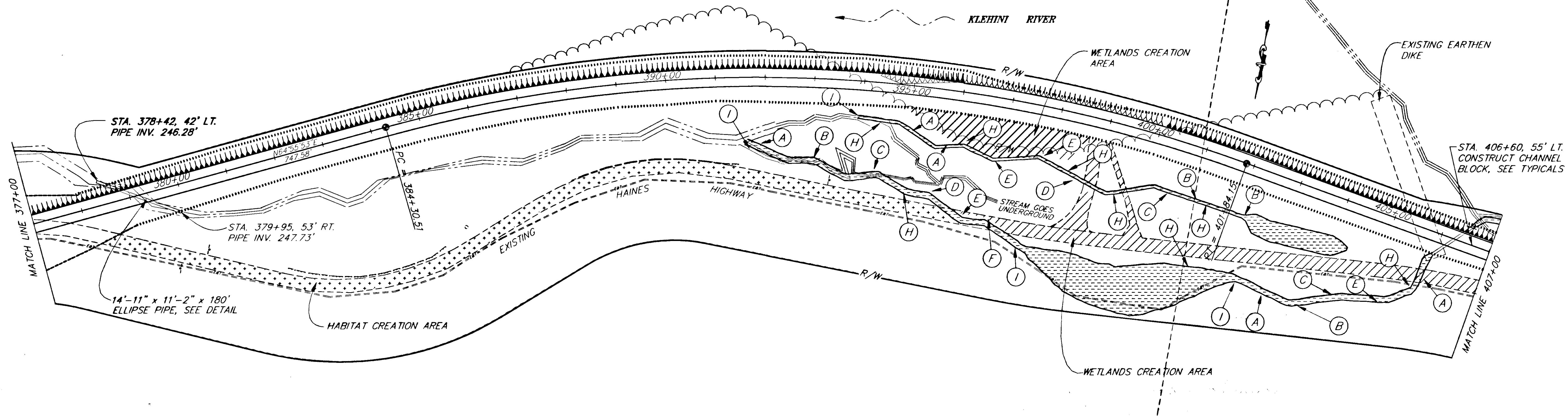
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(15) - 71483

**STREAM CHANNEL CONSTRUCTION LAYOUT**

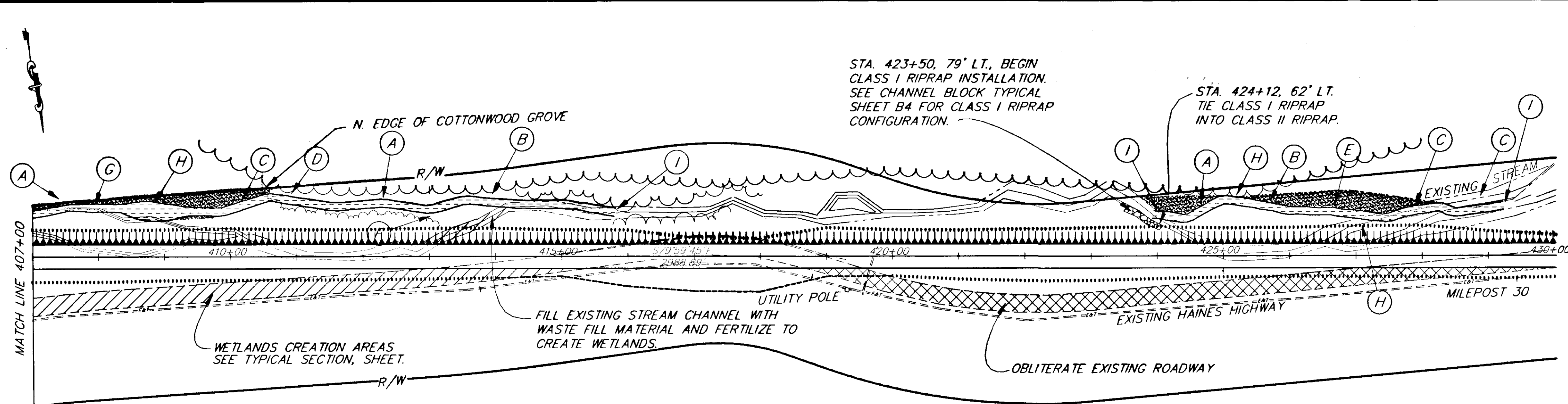
|              |                       |             |       |
|--------------|-----------------------|-------------|-------|
| DESIGNED BY: | M. SOGGE<br>J. PALMES | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON           | DATE:       | 1998  |
| CHECKED BY:  | C. HAKARI             | SHEET       | 16    |



⊕ = INDICATES TYPE OF STREAM/CHANNEL TREATMENT FOR THIS AREA  
SEE SHEETS 1 8 THRU 1 12 FOR TREATMENT PLANS AND ELEVATIONS.



NOTE:  
THE LOCATION AND CONFIGURATION OF STREAM/CHANNEL TREATMENTS ARE SUBJECT TO REVISION BY THE ENGINEER.



□ = FLOOD PLAIN EXPANSION EXCAVATION AREAS.  
SEE TYPICAL SECTION, SHEET 1 8.

NOTE:  
THE LOCATION AND CONFIGURATION OF STREAM/CHANNEL TREATMENTS ARE SUBJECT TO REVISION BY THE ENGINEER.

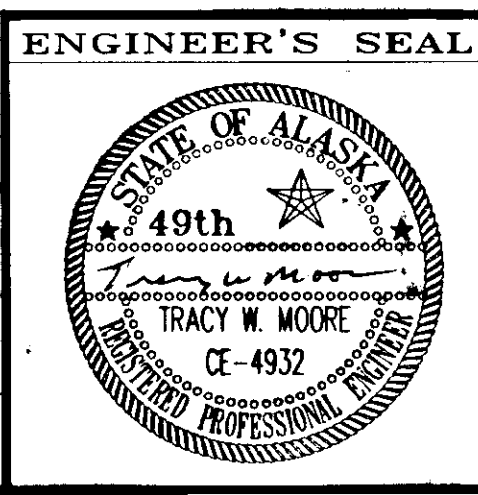
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                                     |       |                        |
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| BY:                                 | DATE: | DESCRIPTION OF CHANGE: |
|                                     |       |                        |
| <b>RECORD OF REVISIONS</b>          |       |                        |

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

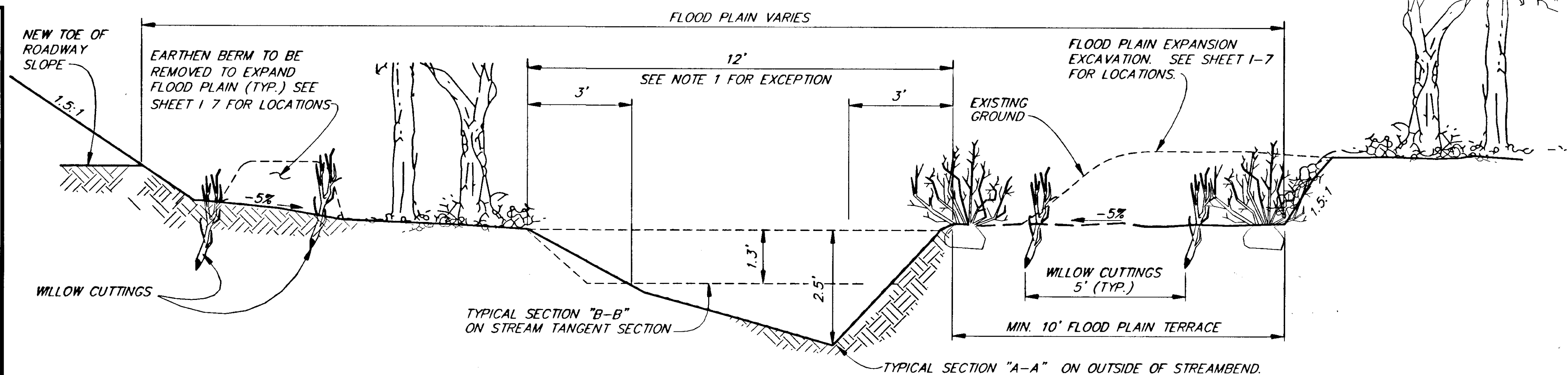
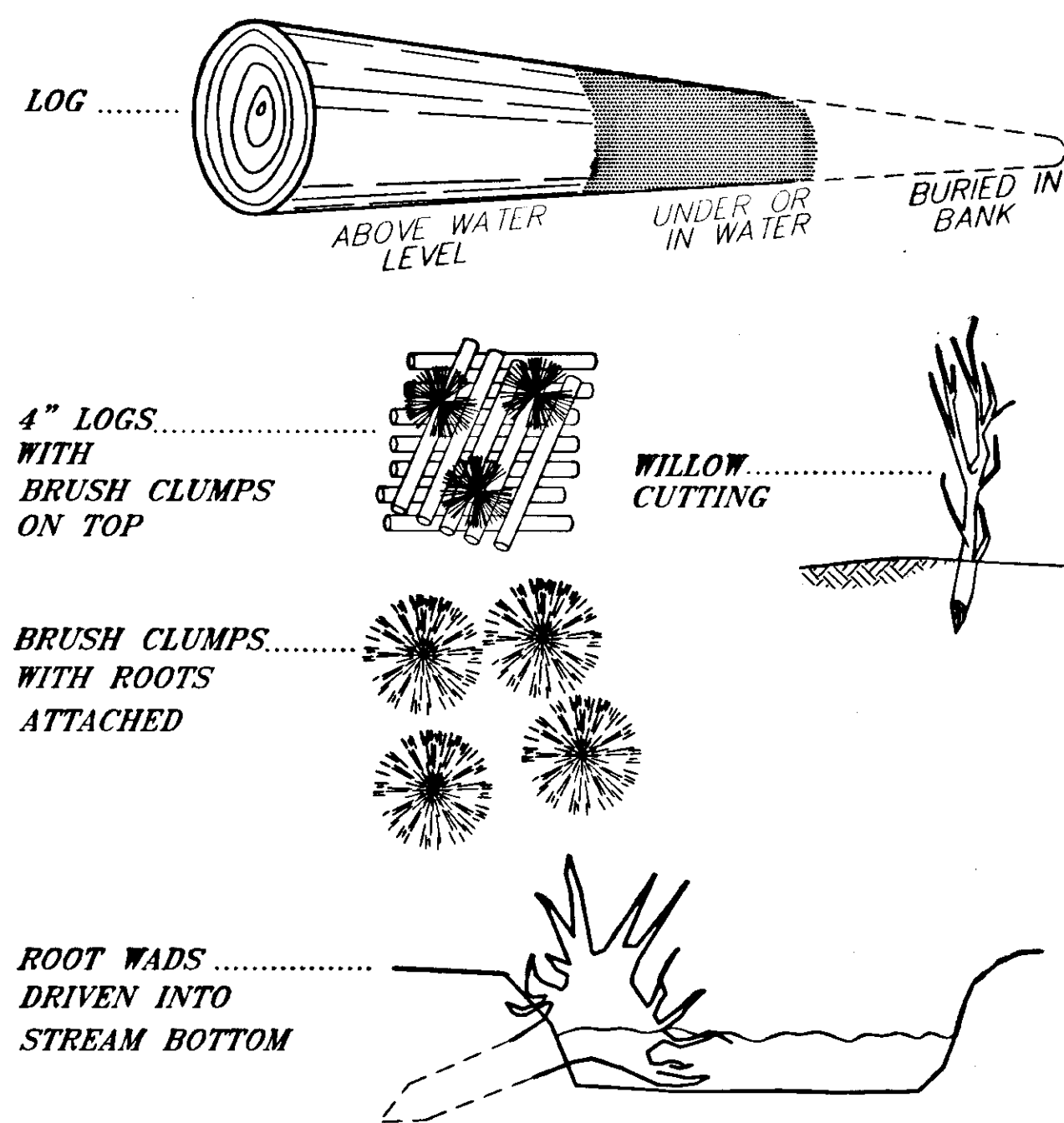
HAINES HIGHWAY  
MP25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**NEW STREAM CHANNELS  
WITH  
CHANNEL TREATMENTS**

|              |                       |             |       |
|--------------|-----------------------|-------------|-------|
| DESIGNED BY: | M. SOGGE<br>J. PALMES | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON           | DATE:       | 1998  |
| CHECKED BY:  | C. HAKARI             | SHEET 17    |       |



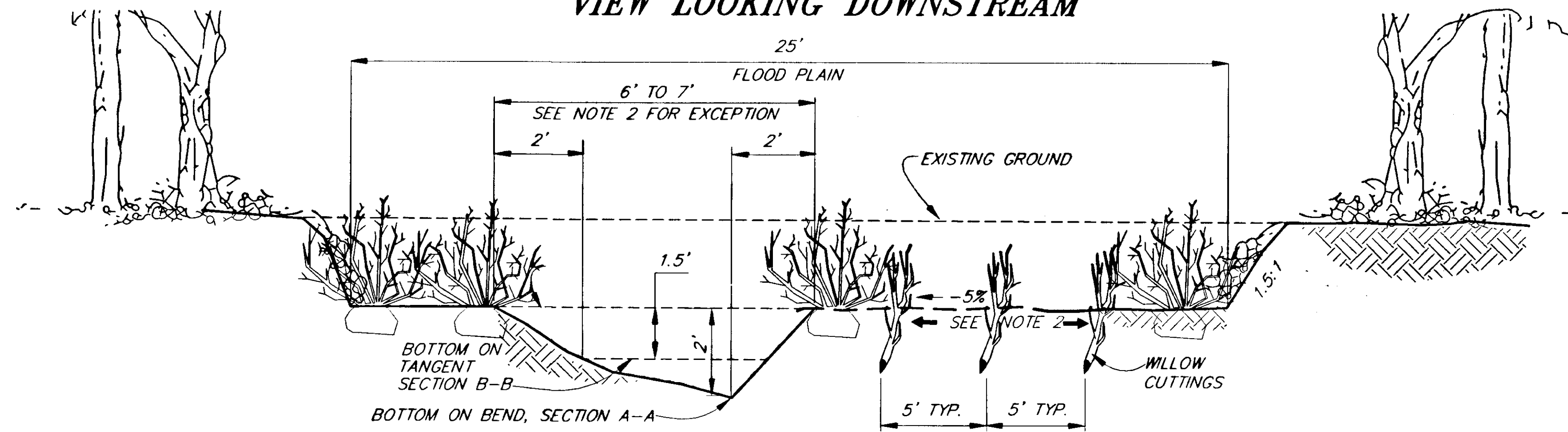
**LEGEND**

**STREAM TREATMENTS  
STRUCTURE KEY**



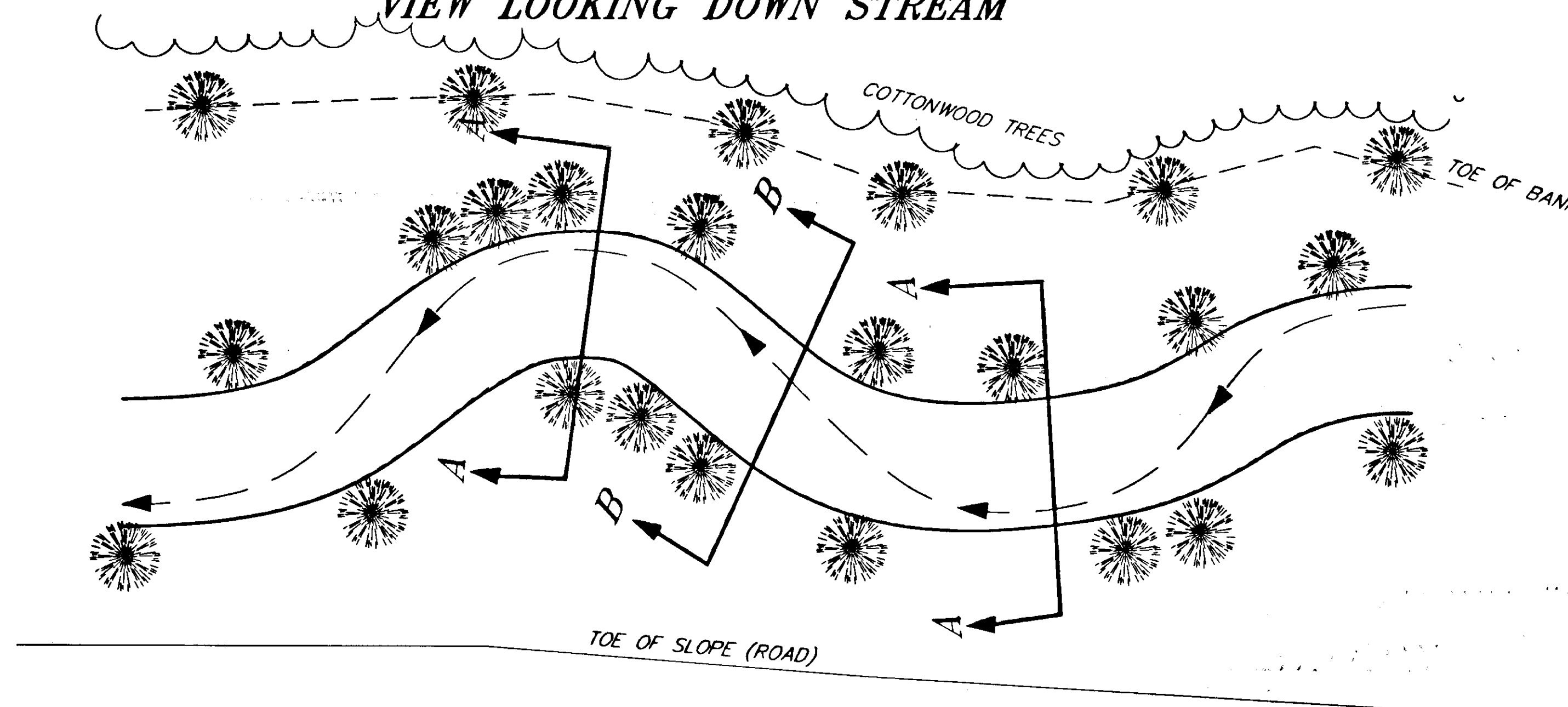
**30 MILE CREEK AND 29 MILE CREEK CONNECTION**

**VIEW LOOKING DOWNSTREAM**



**29 MILE CREEK TYPICAL EXTENSION**

**VIEW LOOKING DOWN STREAM**



**30 MILE CREEK MITIGATION CHANNEL-TYPICAL PLAN**

**NOTES:**

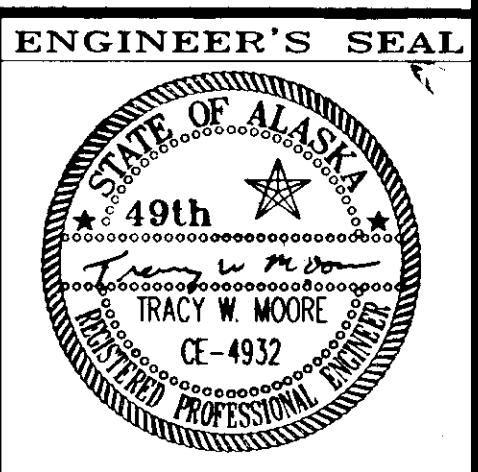
1. BETWEEN STREAM POINT #21 AND STREAM POINT #22 OF THE 29 MILE CREEK-30 MILE CREEK CONNECTION, THE CHANNEL WIDTH INCREASES FROM 12' TO 100'±. BETWEEN STREAM POINT #22 TO STREAM POINT #23 THE CHANNEL WIDTH RETURNS TO THE TYPICAL CHANNEL WIDTH OF 12'.
2. BETWEEN STREAM POINT #10 AND STREAM POINT #11 OF THE 29 MILE CREEK EXTENSION, THE CHANNEL WIDTH SHALL BE 50'±. TRANSITION BACK TO TYPICAL CHANNEL WIDTH BETWEEN STREAM POINT #9 AND STREAM POINT #10.
3. BRUSH CLUMPS SHOWN ON THESE TYPICALS AND THE CHANNEL TREATMENT PLANS AND PROFILES THAT FOLLOW, ARE SCHEMATIC ONLY. THE ACTUAL LOCATION WILL BE DETERMINED BY THE ENGINEER.

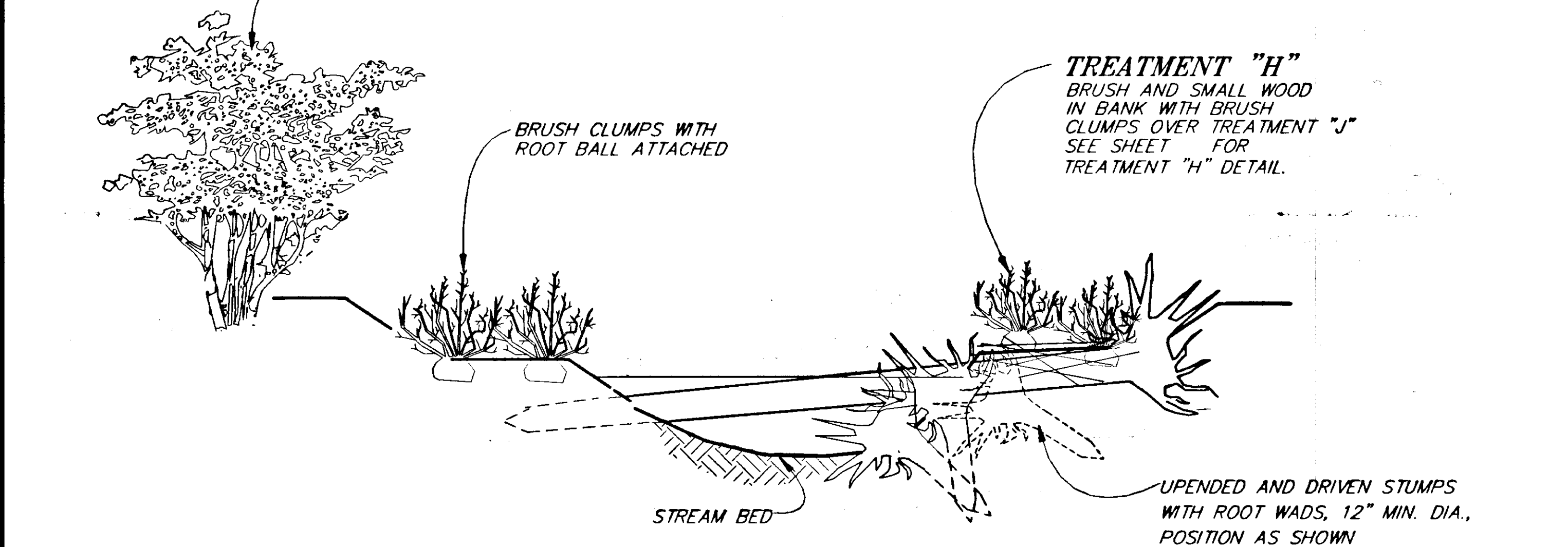
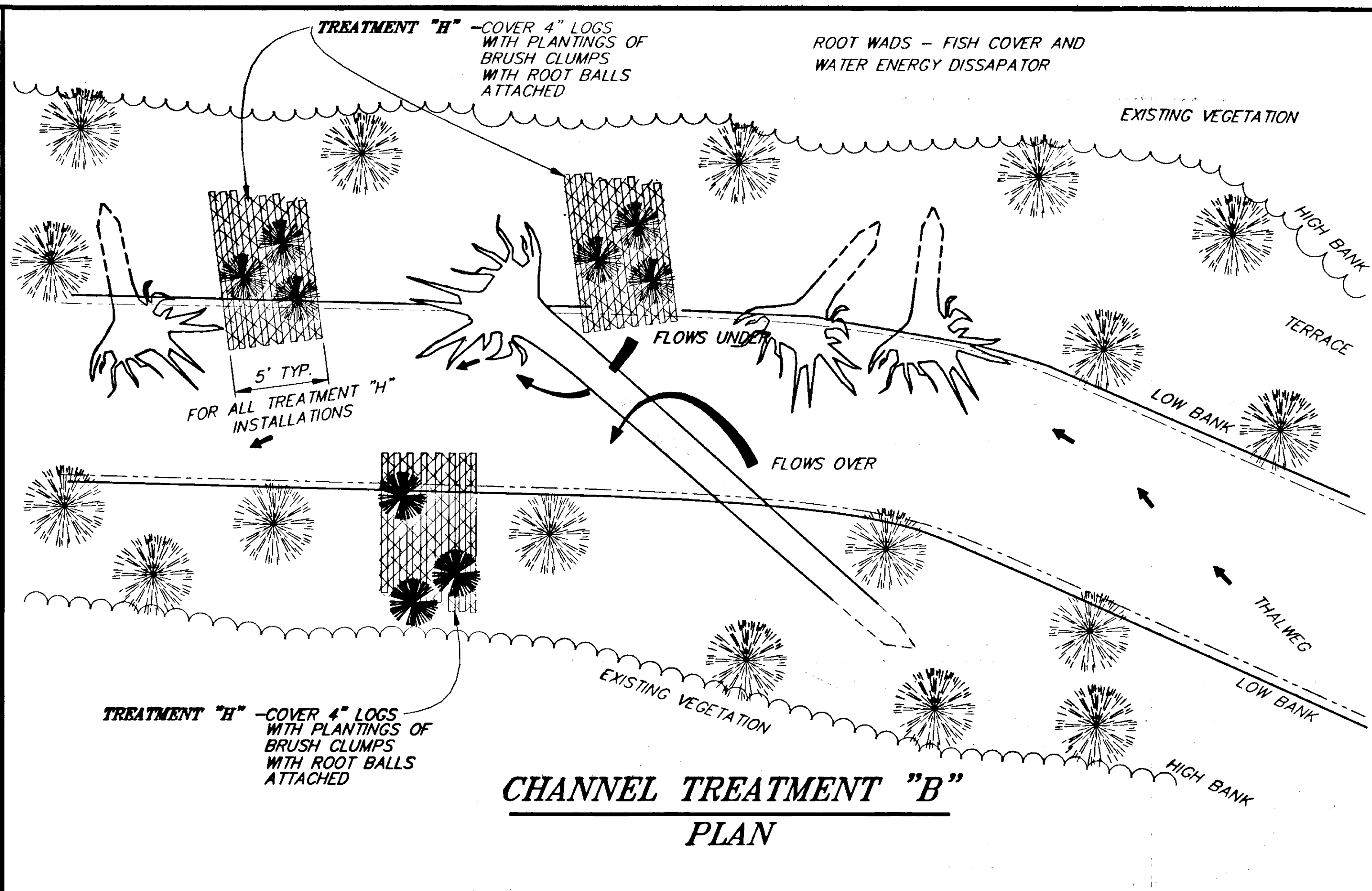
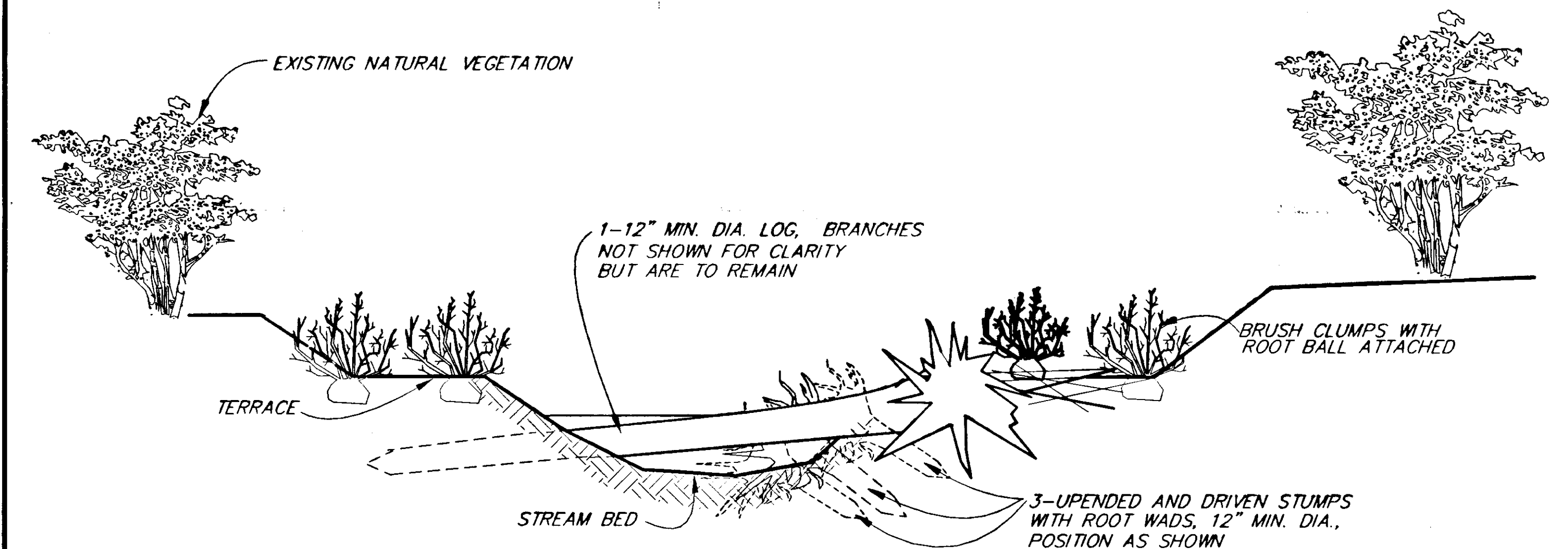
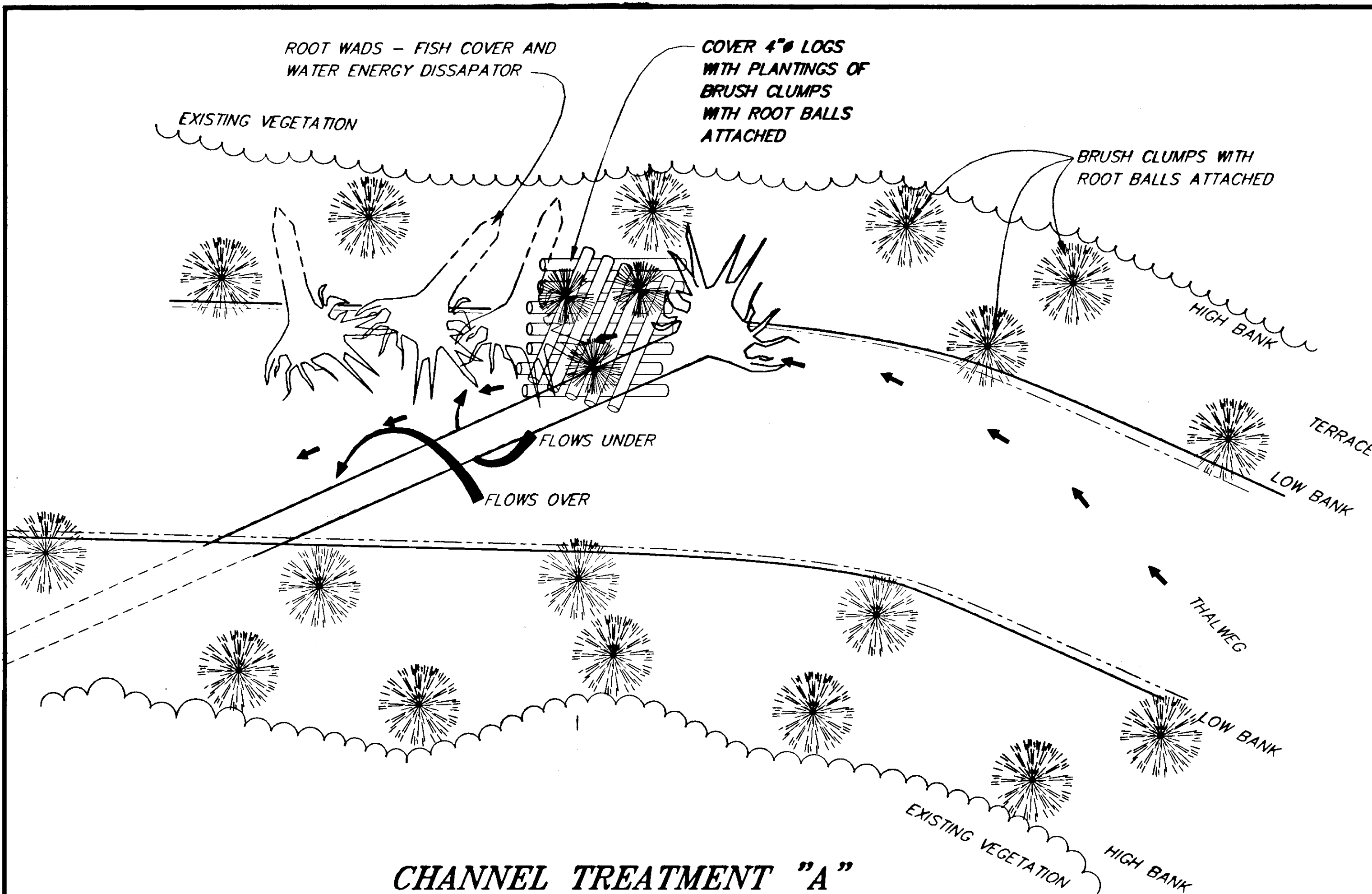
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| BY:                               | DATE: | DESCRIPTION OF CHANGE: |
|                                   |       |                        |
| <b>RECORD OF REVISIONS</b>        |       |                        |

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

HAINES ALASKA  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**CHANNEL CONSTRUCTION TYPICALS**

DESIGNED BY: M. SOGGE  
J. PALMS  
DRAWN BY: C. ANDERSON  
CHECKED BY: T.W. MOORE  
PROJECT NO. 71483  
DATE: 1998  
SHEET 18





|                                   |       |                        |
|-----------------------------------|-------|------------------------|
| PATH: P:\HNS\67436\DR\STREAM2 1=2 |       |                        |
| BY:                               | DATE: | DESCRIPTION OF CHANGE: |
|                                   |       |                        |
| RECORD OF REVISIONS               |       |                        |

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

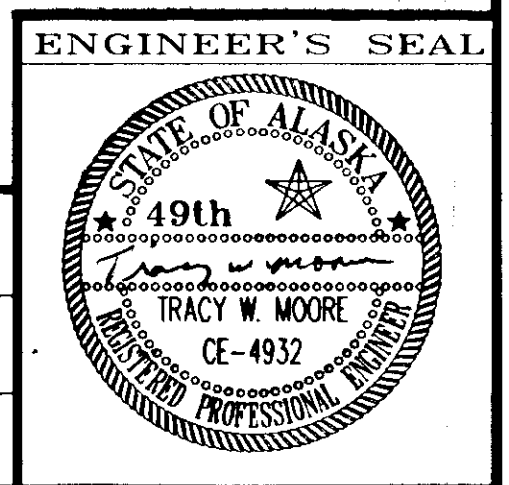
HAINES

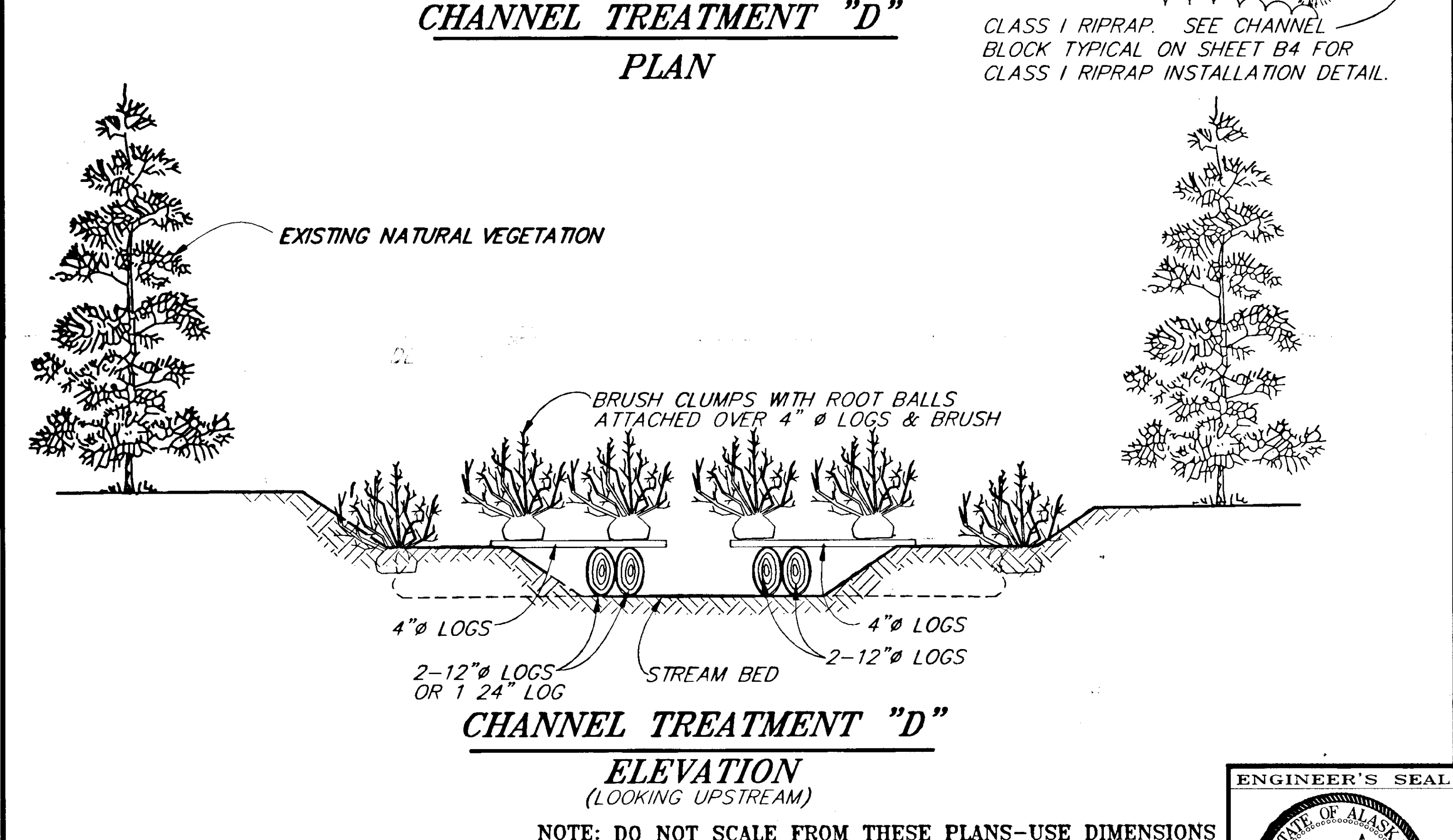
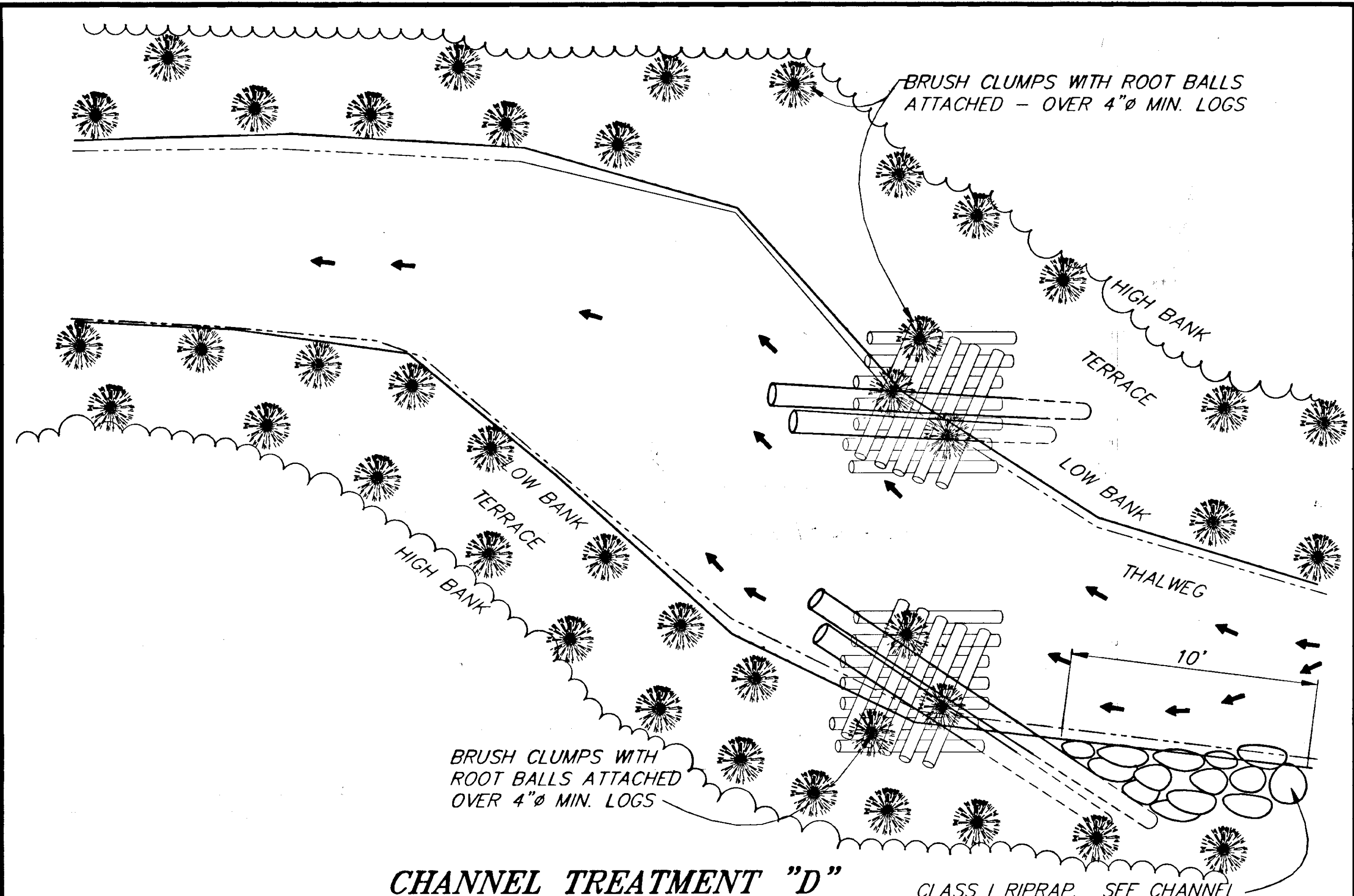
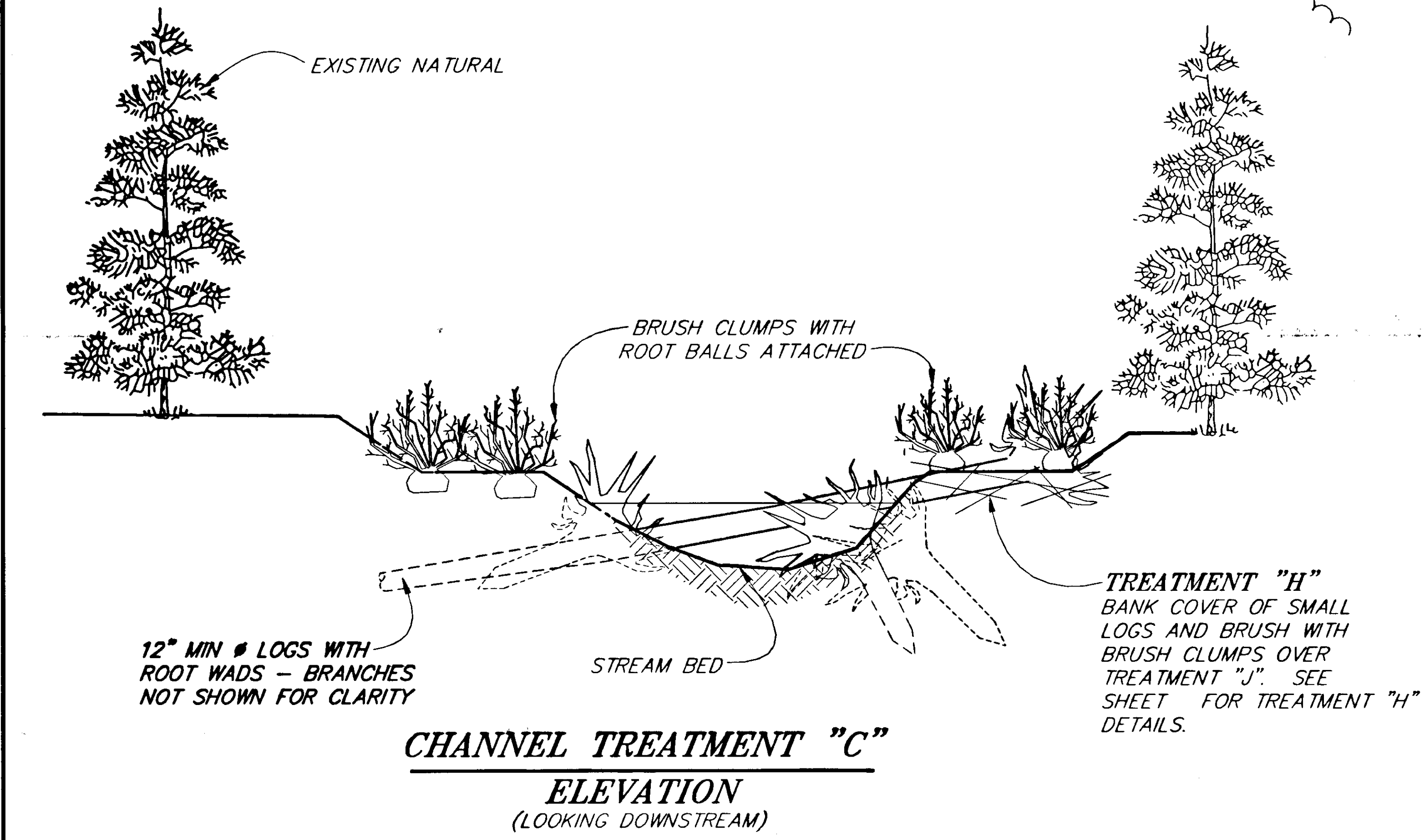
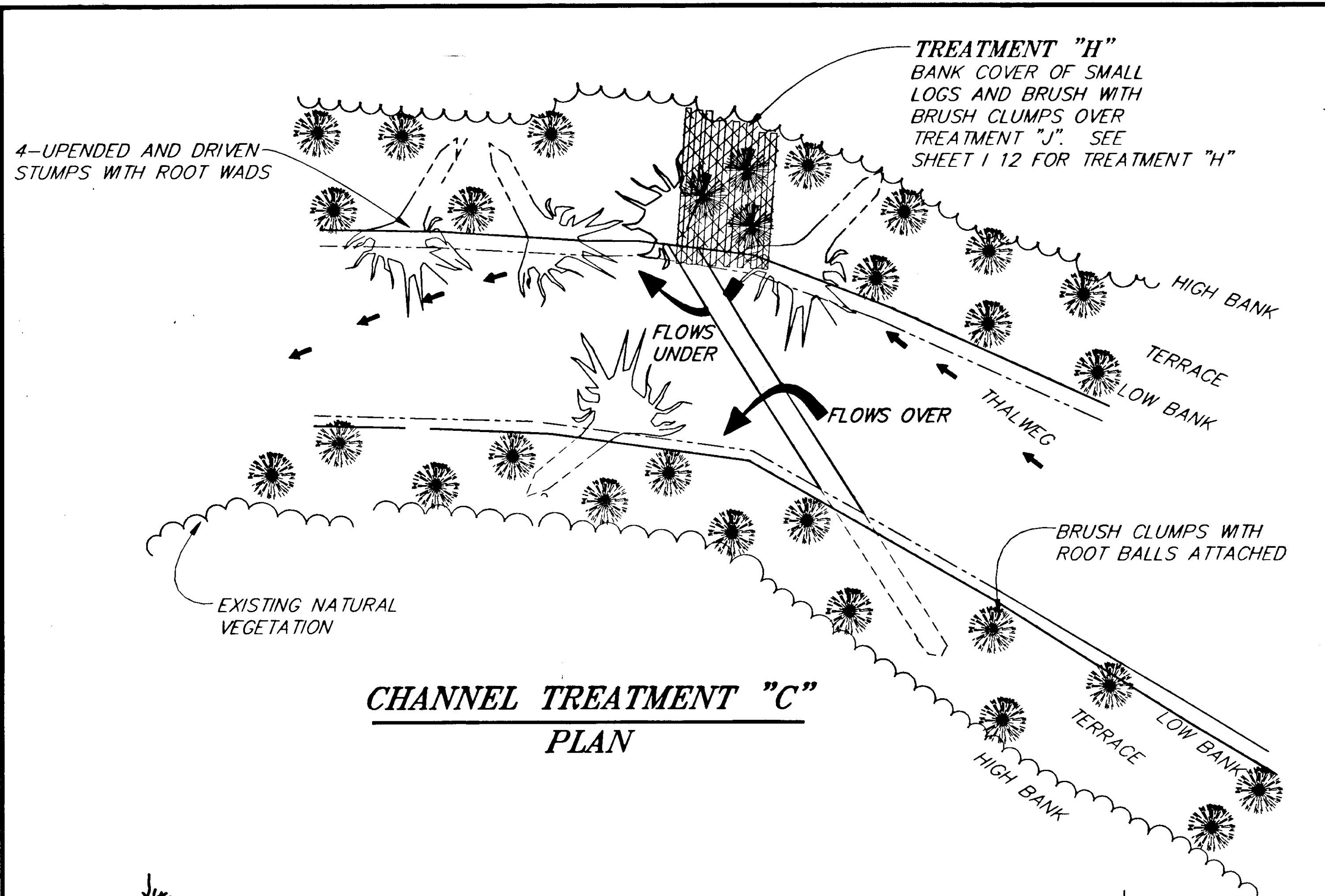
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
STREAM/CHANNEL TREATMENTS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ALASKA DESIGNED BY: M. SOGGE  
J. PALMS  
DRAWN BY: C. ANDERSON  
CHECKED BY: T.W. MOORE

PROJECT NO. 71483  
DATE: 1998  
SHEET 19



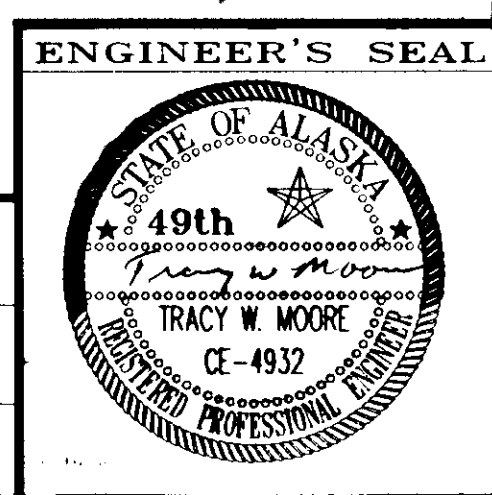


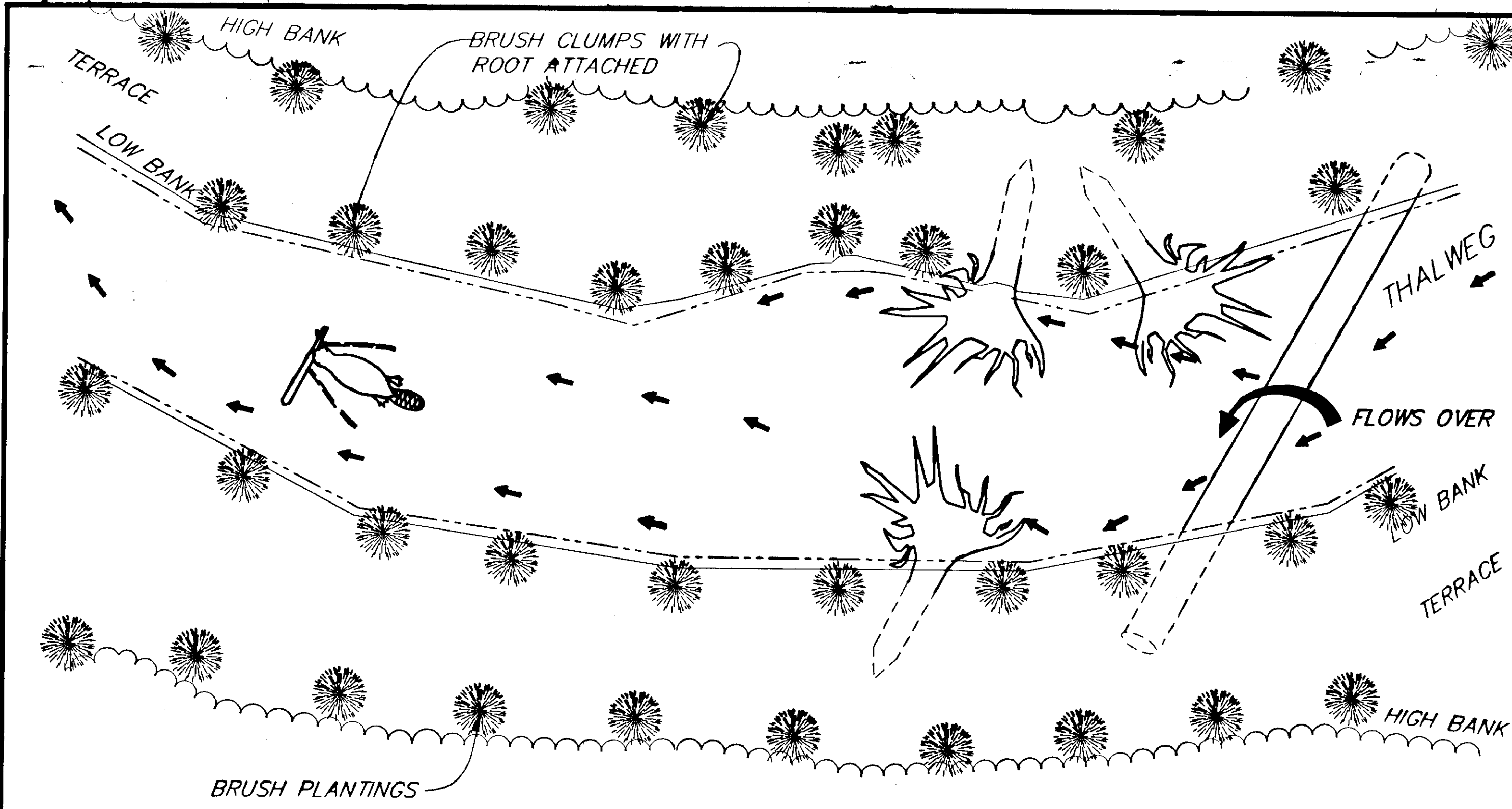
|                                    |       |                        |
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| BY:                                | DATE: | DESCRIPTION OF CHANGE: |
|                                    |       |                        |
| <b>RECORD OF REVISIONS</b>         |       |                        |

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

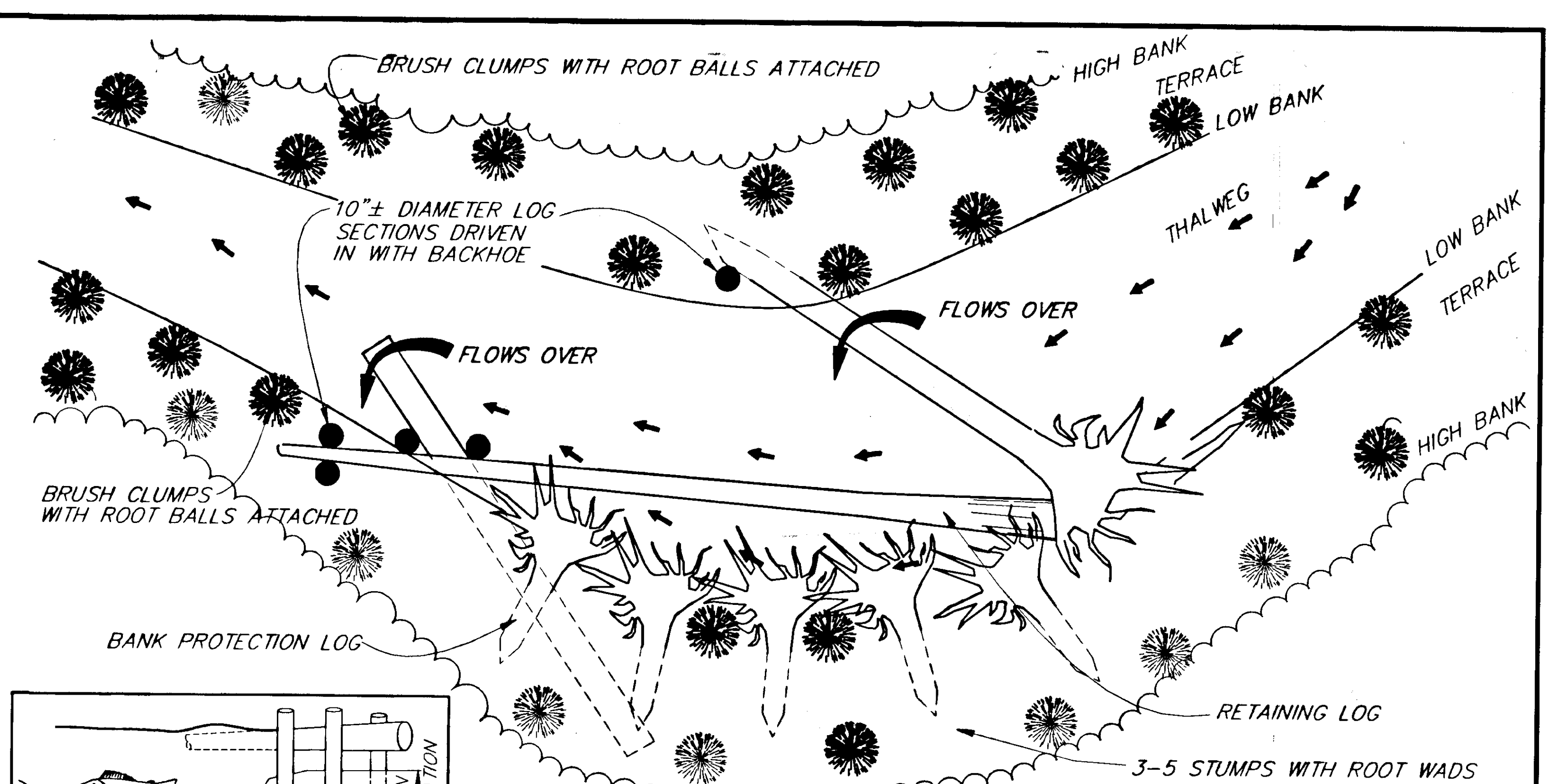
HAINES  
ALASKA  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) 71483  
**STREAM/CHANNEL TREATMENTS**

|                                   |                   |
|-----------------------------------|-------------------|
| DESIGNED BY: M. SOGGE<br>J. PALMS | PROJECT NO. 71483 |
| DRAWN BY: C. ANDERSON             | DATE: 1998        |
| CHECKED BY: T.W. MOORE            | SHEET 110         |

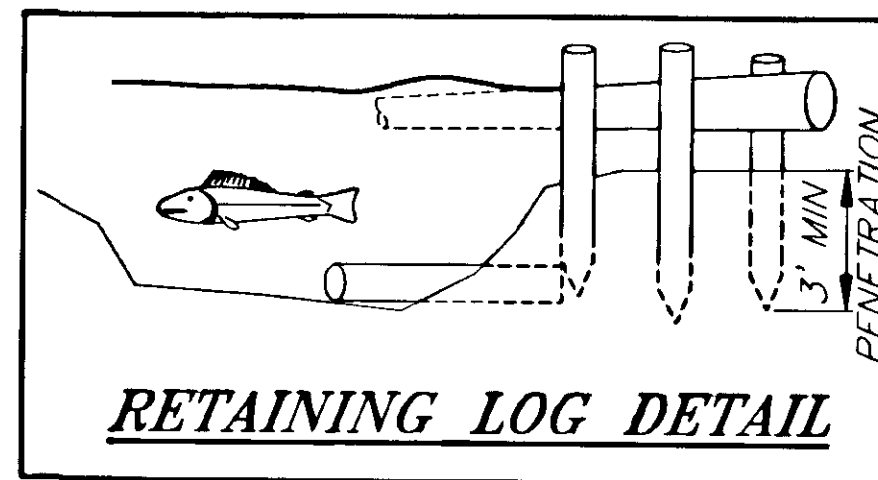




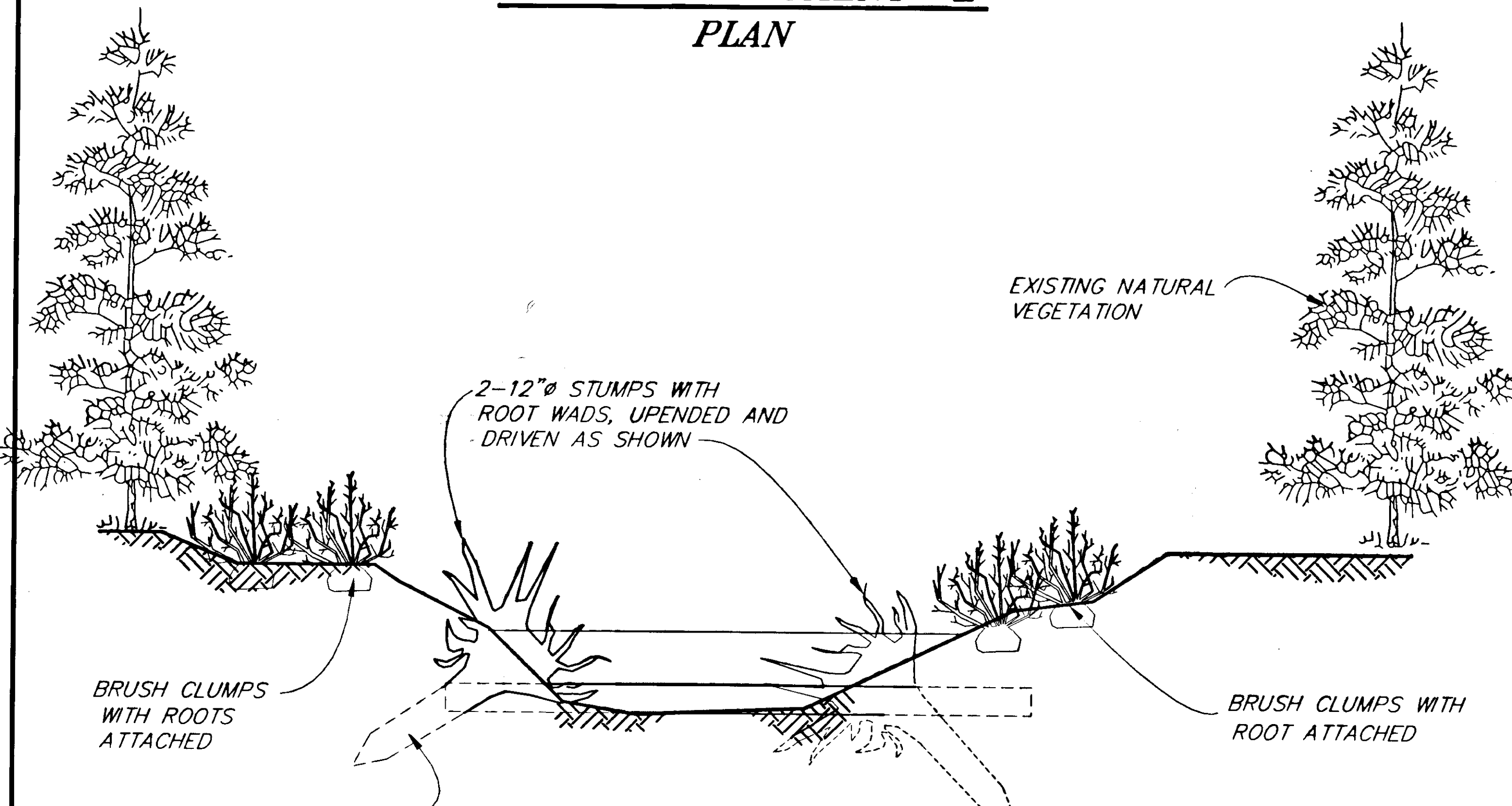
**CHANNEL TREATMENT "E"**  
PLAN



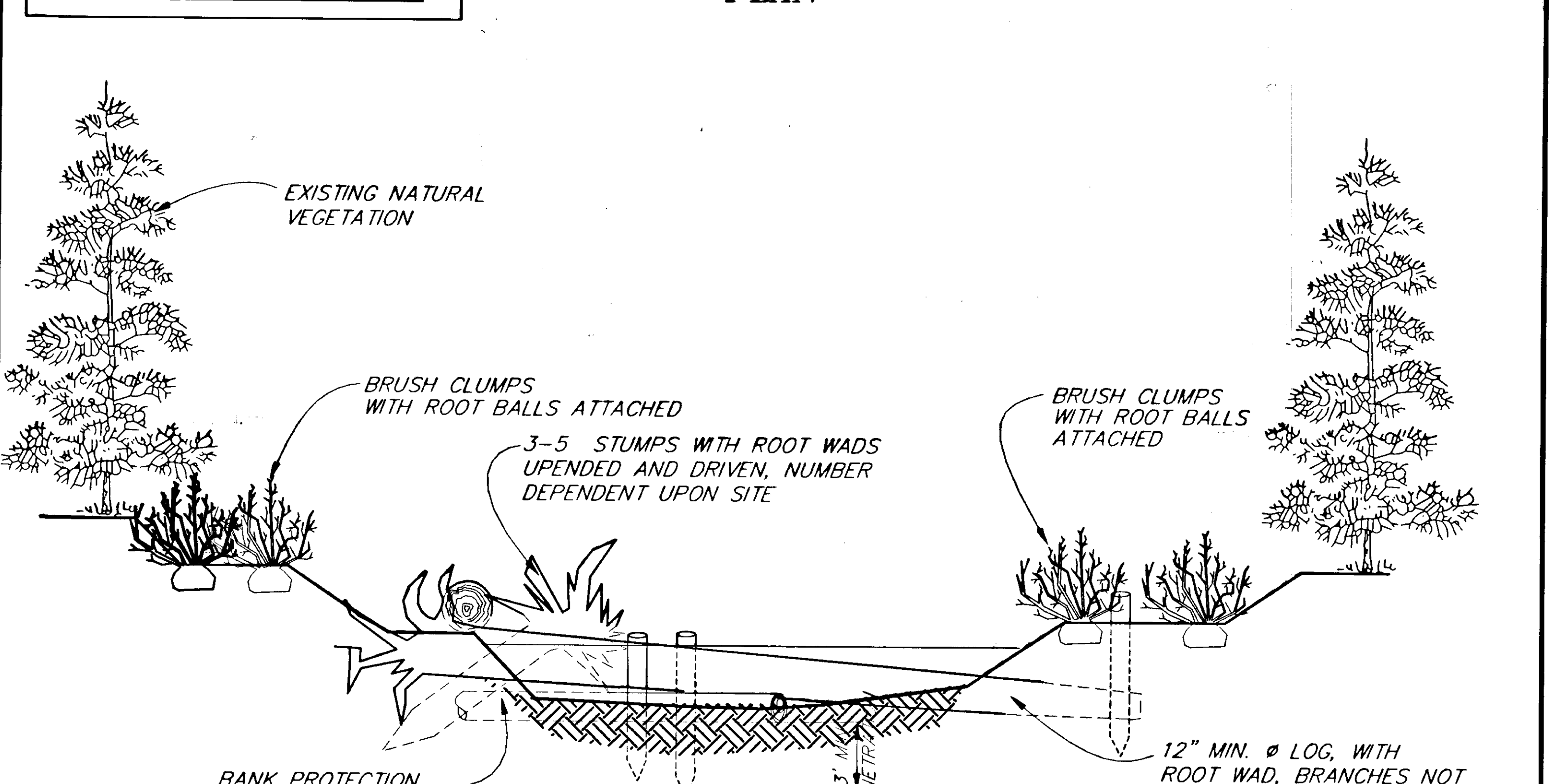
**CHANNEL TREATMENT "F"**  
PLAN



**RETAINING LOG DETAIL**



**CHANNEL TREATMENT "E"**  
ELEVATION  
(LOOKING DOWNSTREAM)



**CHANNEL TREATMENT "F"**  
ELEVATION  
(LOOKING DOWNSTREAM)

PATH: P:\HNS\67436\DR\STREAM4 1=1

| BY: | DATE: | DESCRIPTION OF CHANGE: |
|-----|-------|------------------------|
|     |       |                        |
|     |       |                        |
|     |       |                        |

**RECORD OF REVISIONS**

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

HAINES

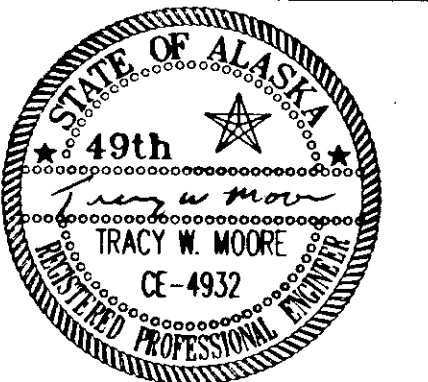
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**STREAM/CHANNEL TREATMENTS**

ALASKA

DESIGNED BY: M. SOGGE  
J. PALMS  
DRAWN BY: C. ANDERSON  
CHECKED BY: T.W. MOORE

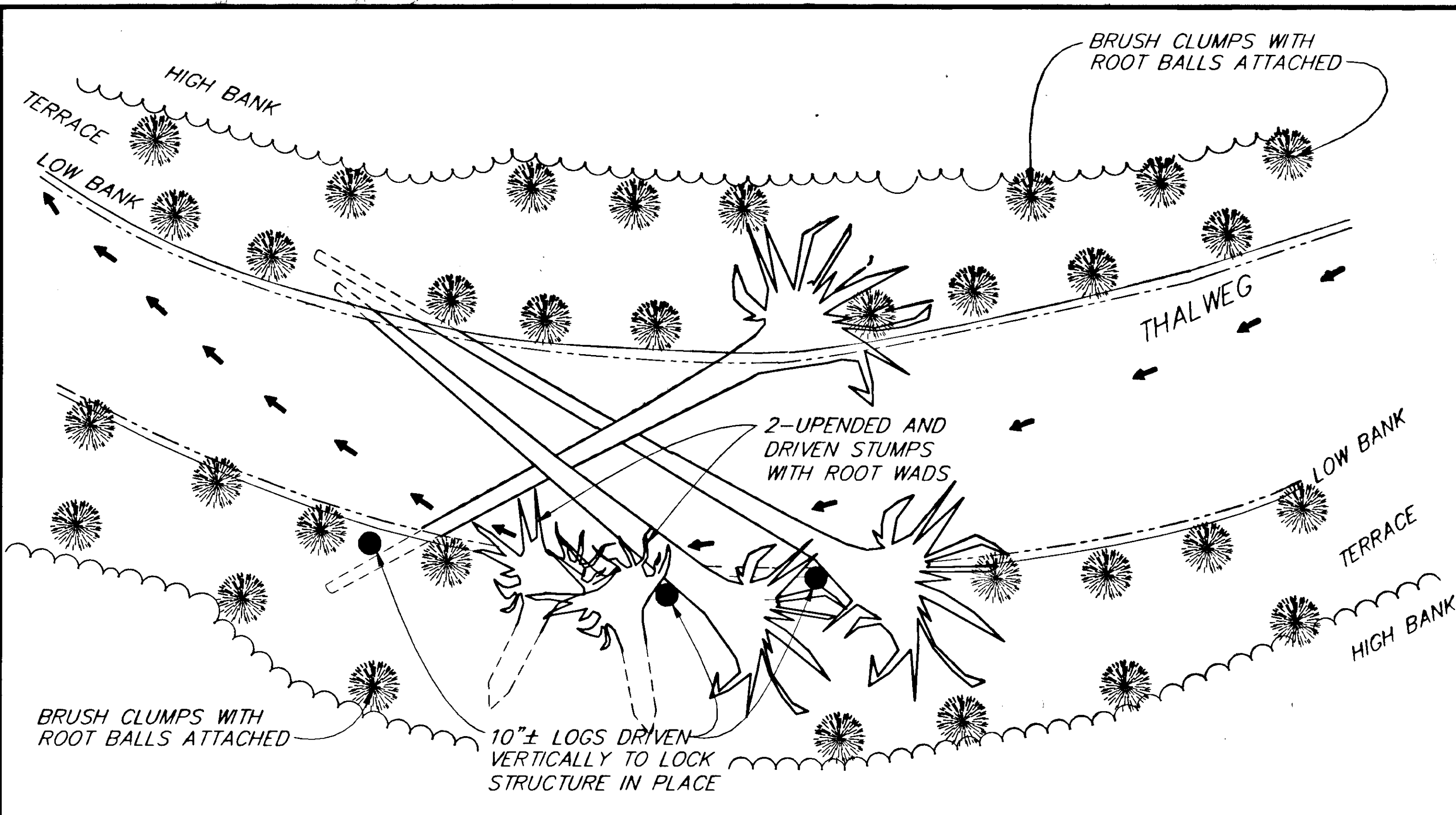
PROJECT NO. 71483  
DATE: 1998  
SHEET III

ENGINEER'S SEAL

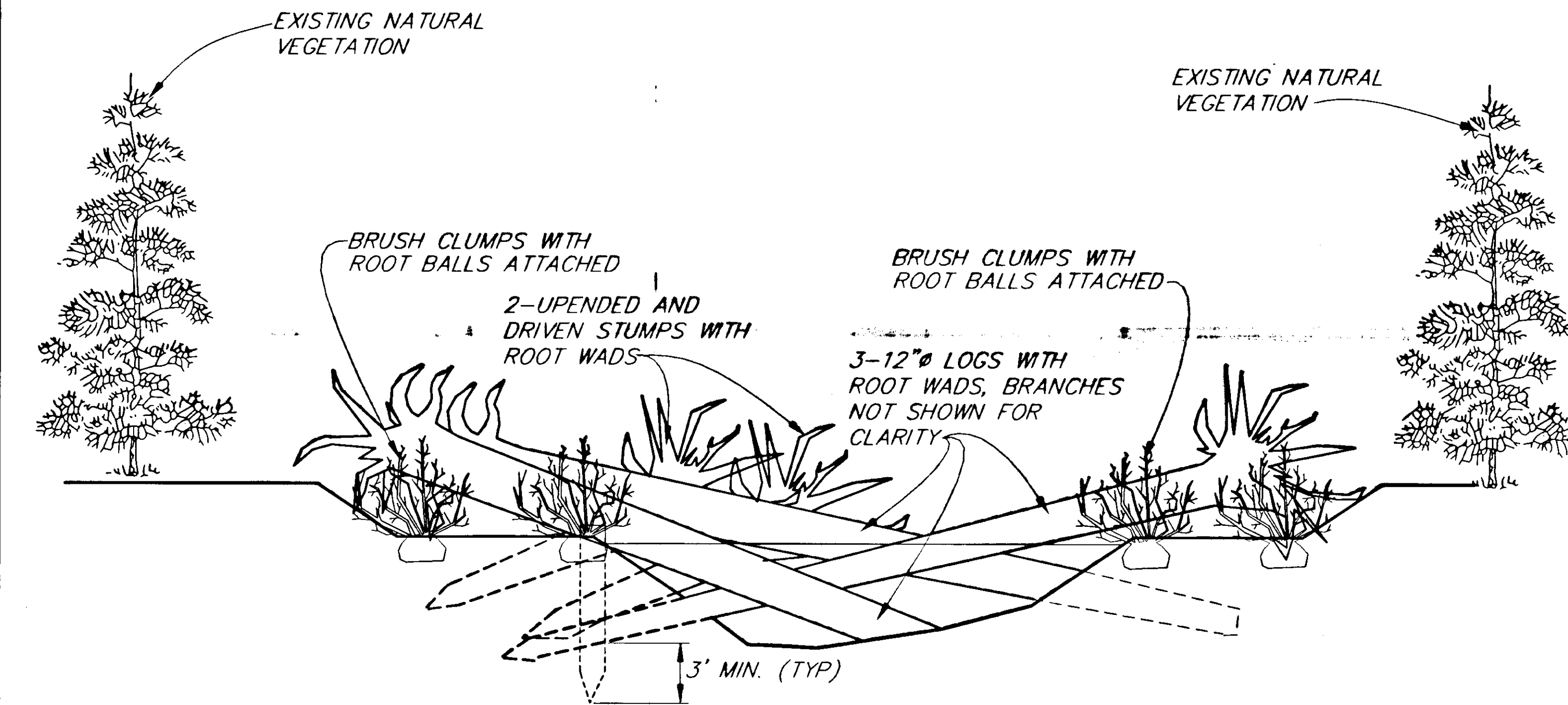


NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

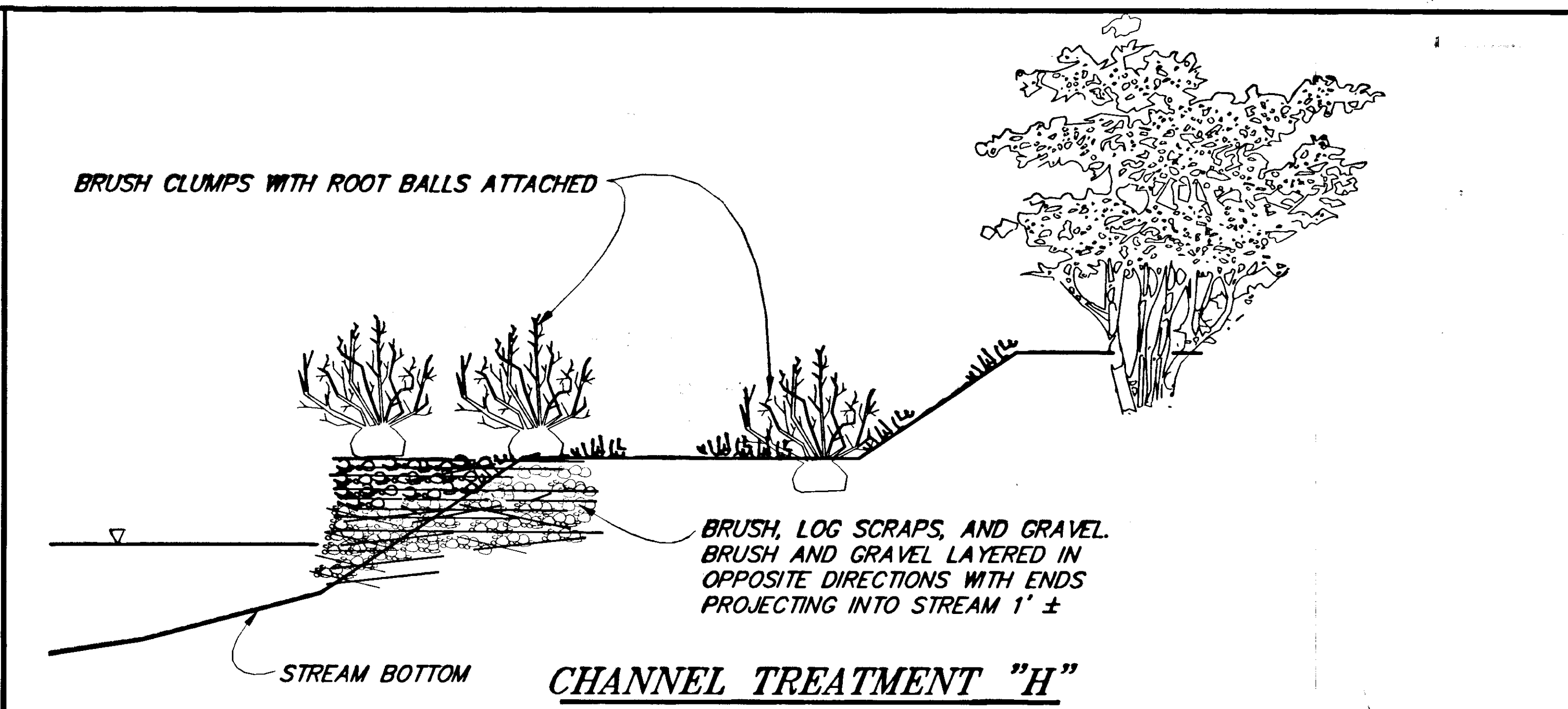




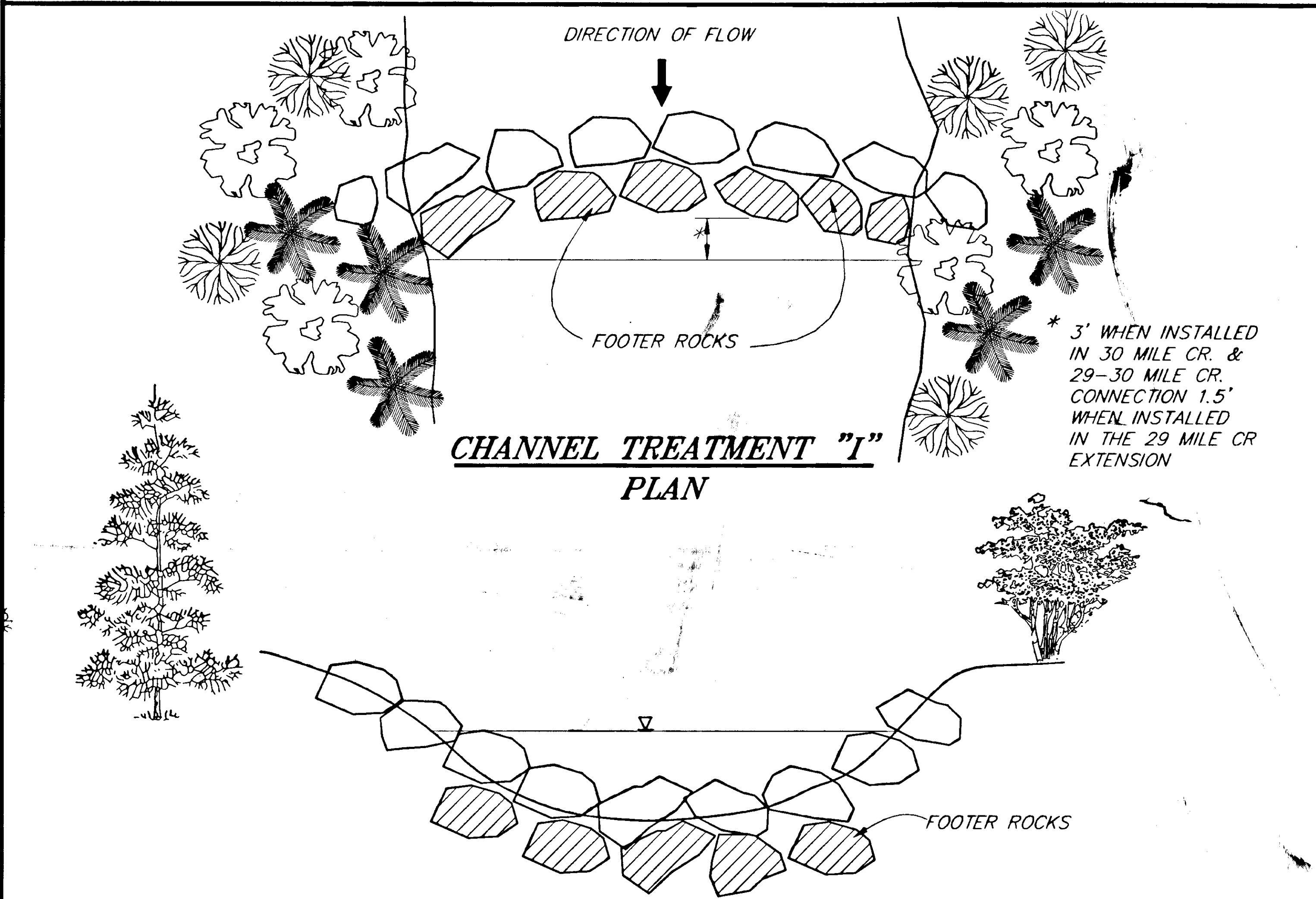
**CHANNEL TREATMENT "G"**  
PLAN



**CHANNEL TREATMENT "G"**  
ELEVATION  
(LOOKING DOWNSTREAM)



**CHANNEL TREATMENT "H"**



**CHANNEL TREATMENT "I"**  
PLAN



**CHANNEL TREATMENT "I"**  
SECTION VIEW

PATH: P:\HNS\67436\DR\STREAM5 1=1

| BY: | DATE: | DESCRIPTION OF CHANGE: |
|-----|-------|------------------------|
|     |       |                        |
|     |       |                        |

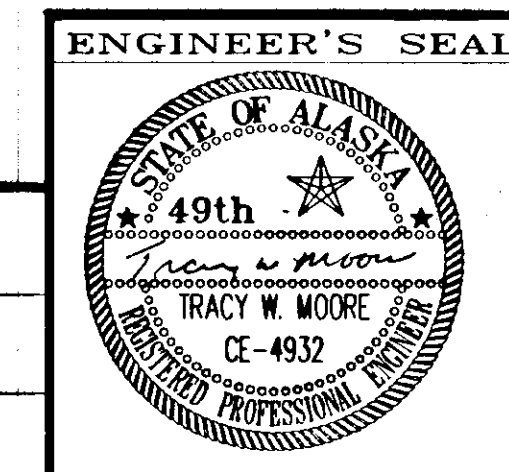
**RECORD OF REVISIONS**

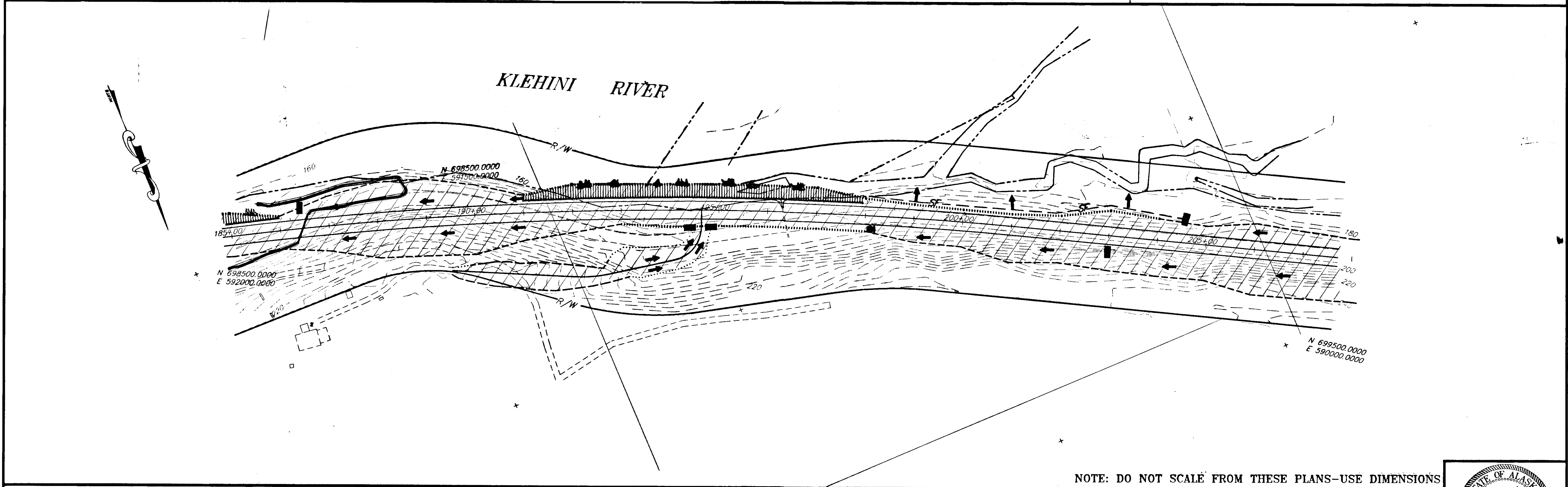
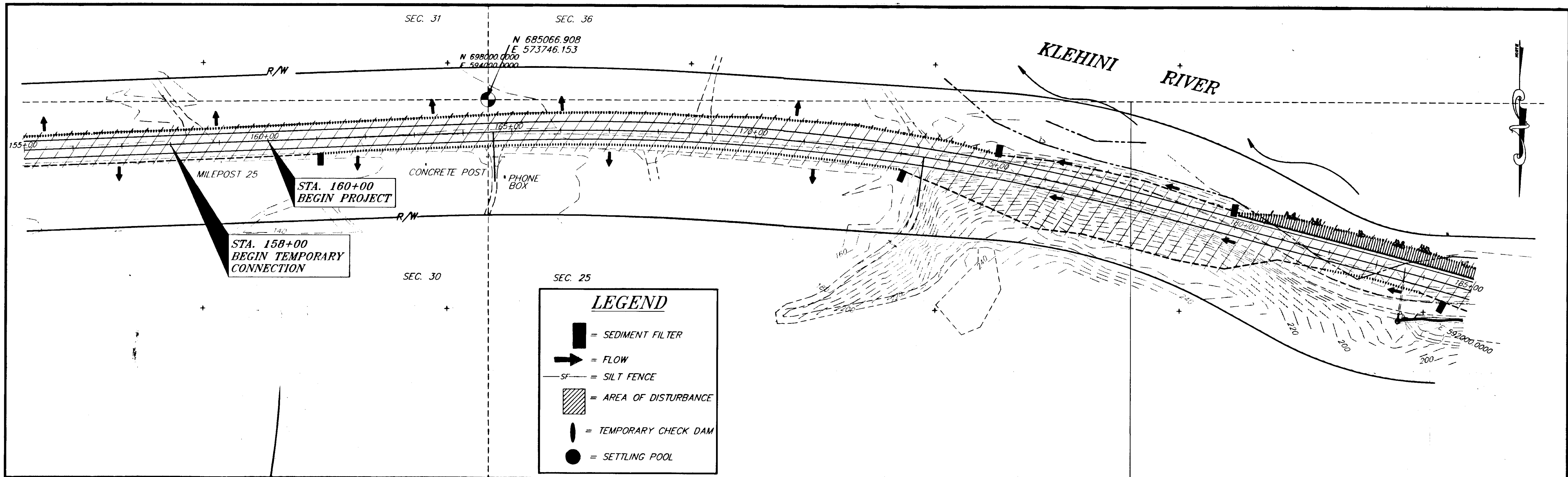
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
ALASKA  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**STREAM/CHANNEL TREATMENTS**

DESIGNED BY: M. SOGGE  
J. PALMES  
DRAWN BY: C. ANDERSON  
CHECKED BY: T.W. MOORE

PROJECT NO. 71483  
DATE: 1998  
SHEET 1 12





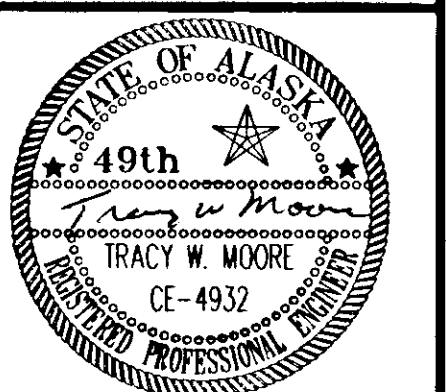
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

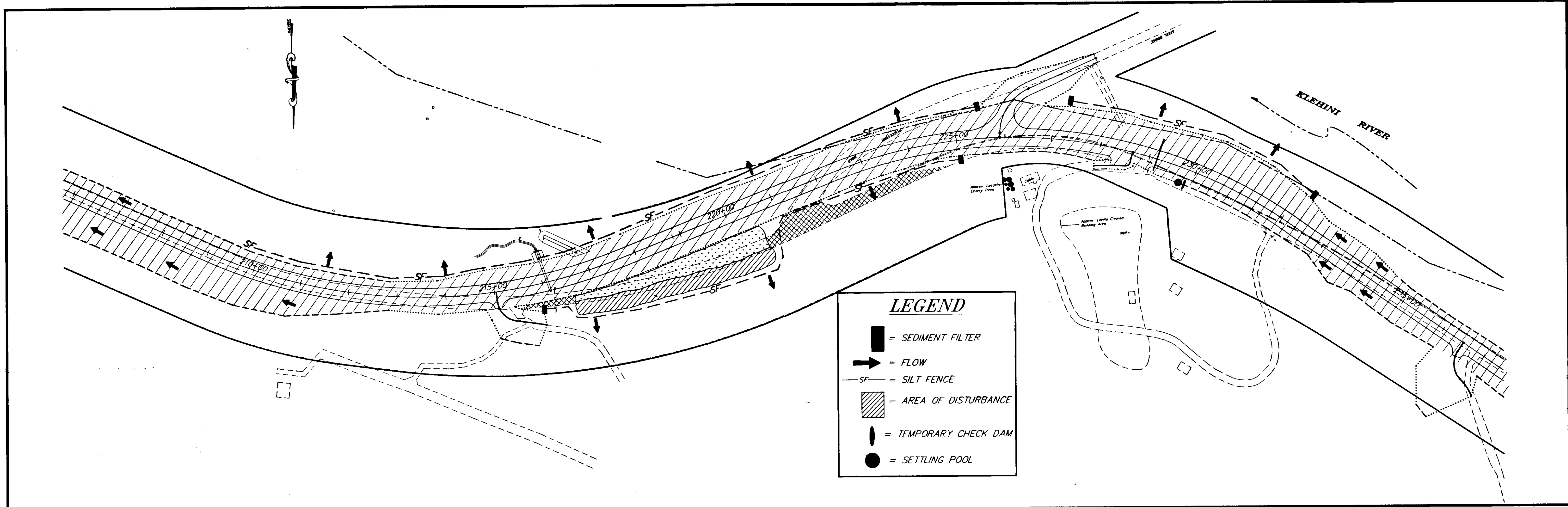
| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |

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

HAINES ALASKA  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**EROSION AND SEDIMENT CONTROL PLANS**  
STA. 155+00 TO STA. 207+00

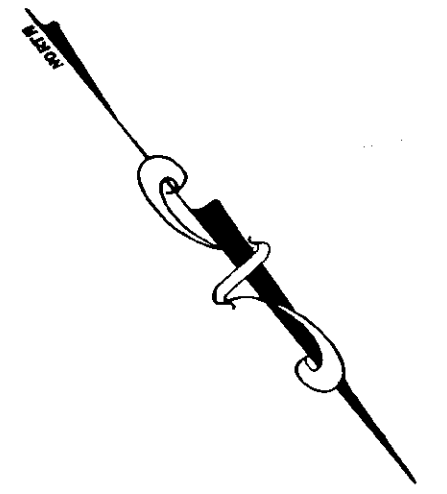
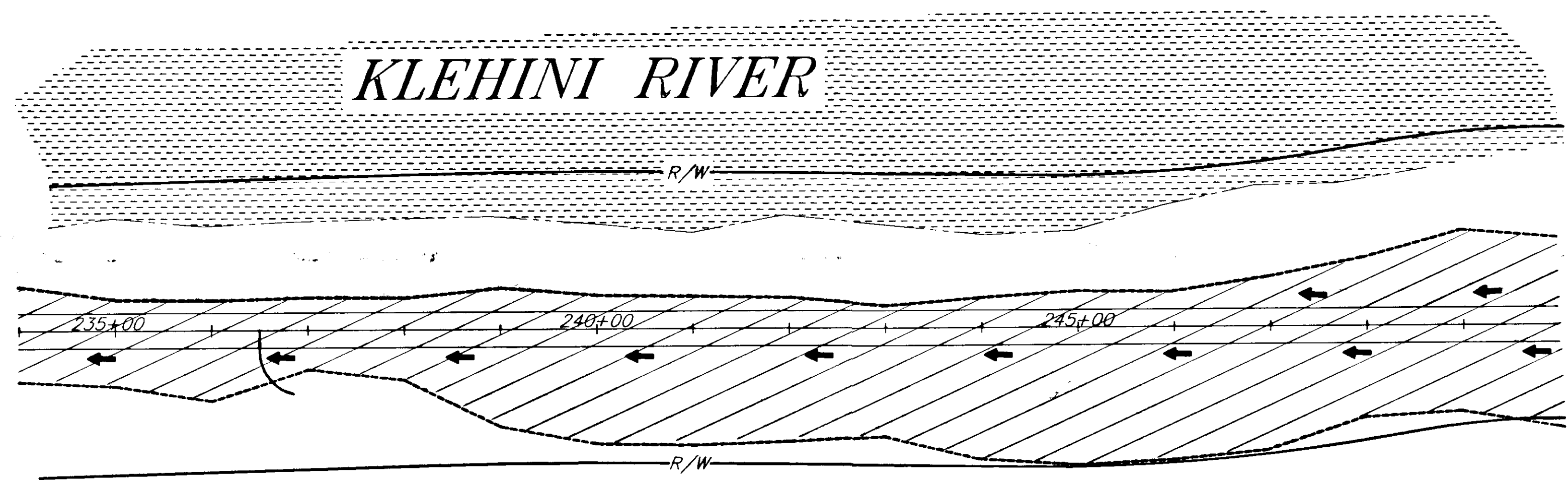
|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71463 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET J1             |





**LEGEND**

- = SEDIMENT FILTER
- = FLOW
- = SILT FENCE
- = AREA OF DISTURBANCE
- = TEMPORARY CHECK DAM
- = SETTLING POOL



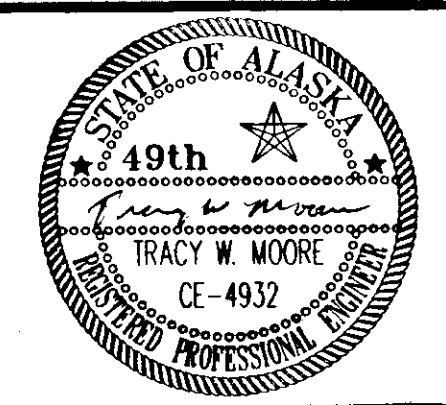
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

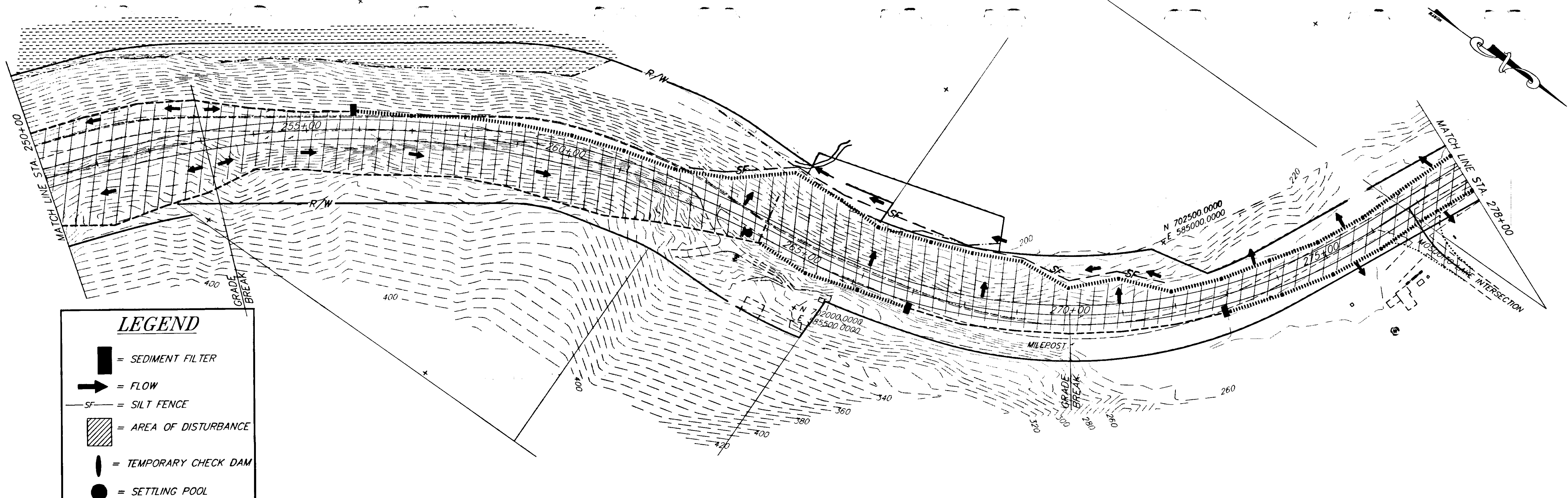
|  |       |                        |
|--|-------|------------------------|
| PATH: P:\HNS\67436\DR\—E207 1=100 (PLOT VIEW1) |       |                        |
| BY:  | DATE: | DESCRIPTION OF CHANGE: |
|  |       |                        |
| <b>RECORD OF REVISIONS</b>                     |       |                        |

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

HAINES ALASKA  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**EROSION AND SEDIMENT CONTROL PLANS**  
 STA. 207+00 TO STA. 250+00

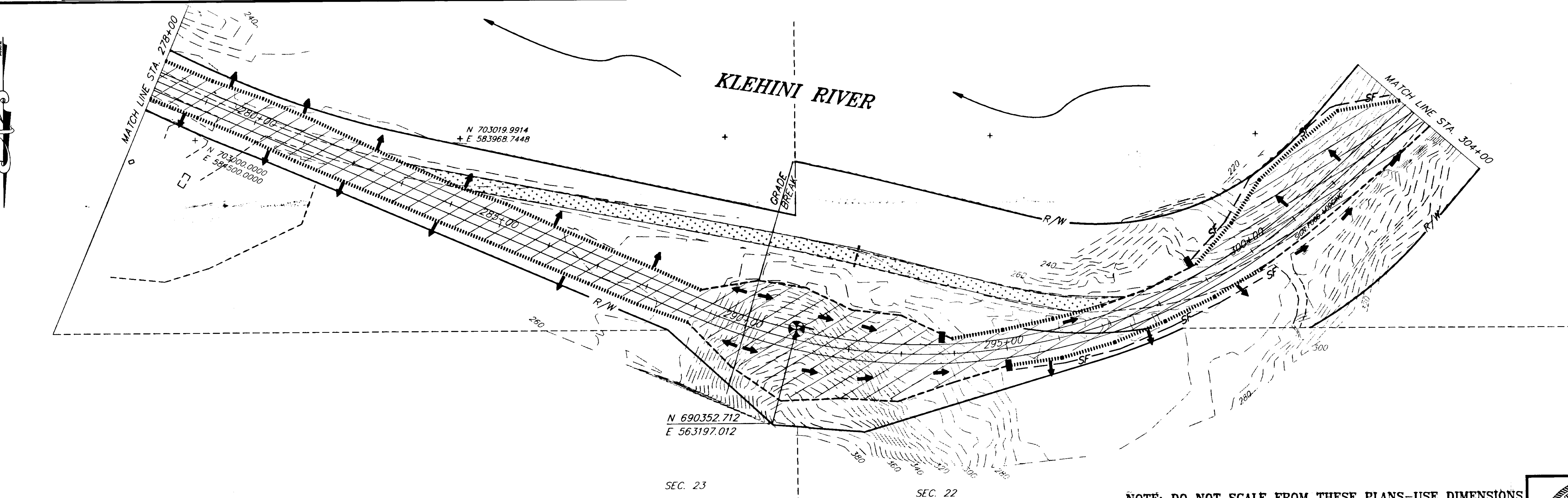
|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET: J2            |





**LEGEND**

- = SEDIMENT FILTER
- = FLOW
- = SILT FENCE
- = AREA OF DISTURBANCE
- = TEMPORARY CHECK DAM
- = SETTLING POOL



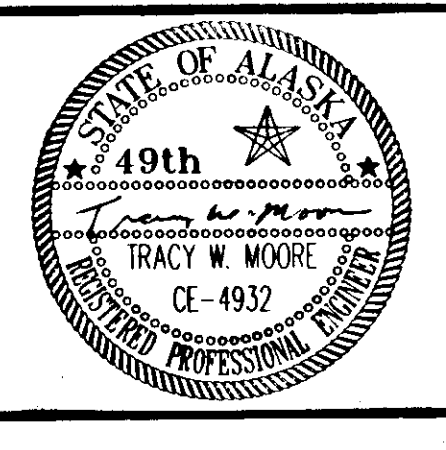
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

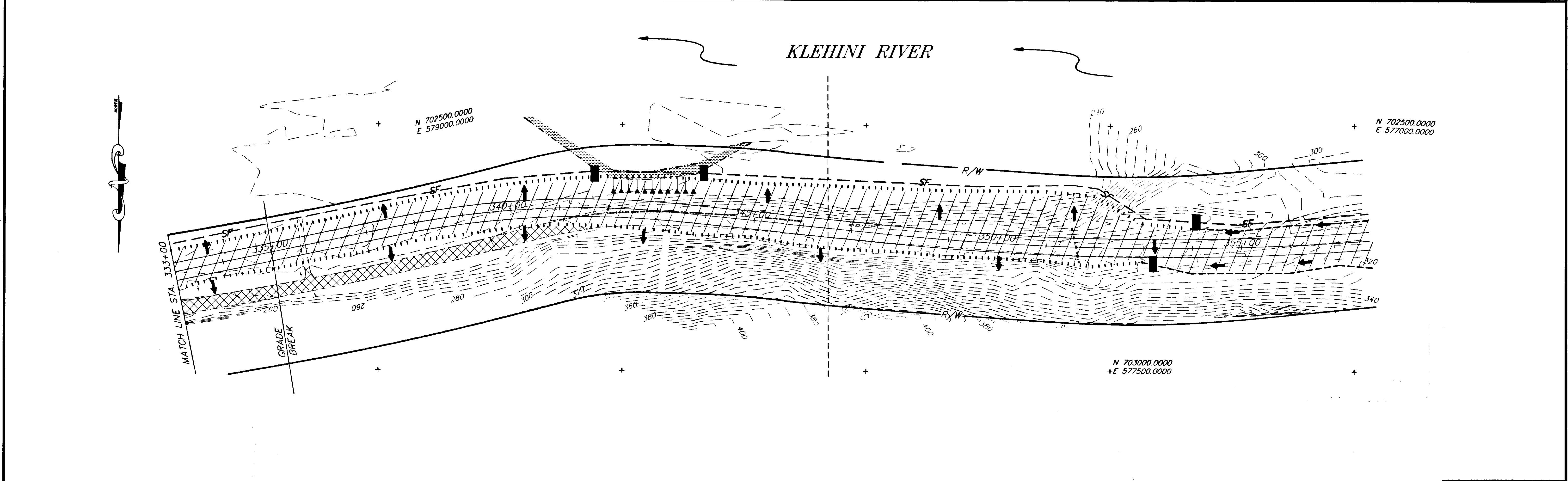
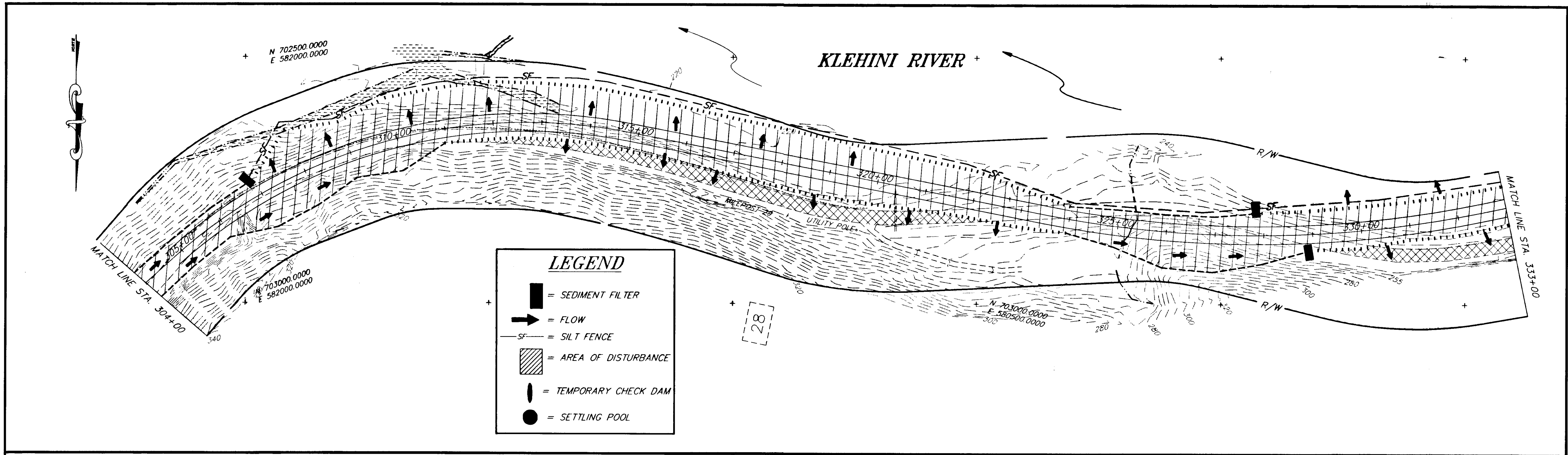
| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |
|                     |       |                        |

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

HAINES ALASKA  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**EROSION AND SEDIMENT CONTROL PLANS**  
 STA. 250+00 TO STA. 304+00

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET J3             |





PATH: P:\HNS\67436\DR\ -E304 1=100 (1=200 HALF)

| BY: | DATE: | DESCRIPTION OF CHANGE: |
|-----|-------|------------------------|
|     |       |                        |
|     |       |                        |

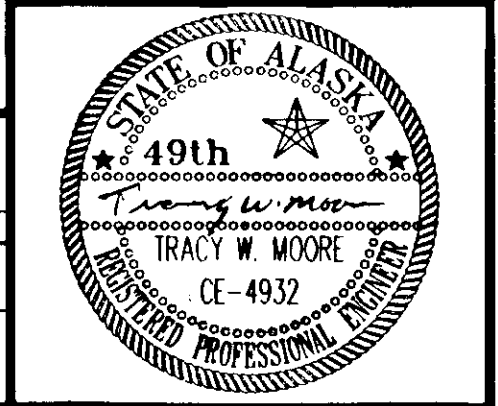
**RECORD OF REVISIONS**

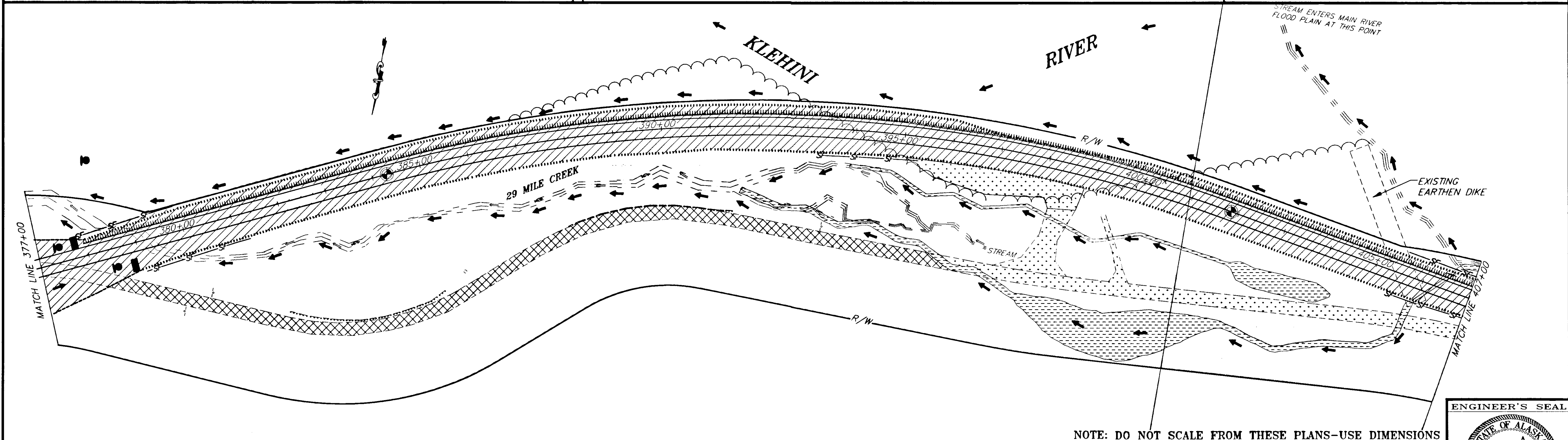
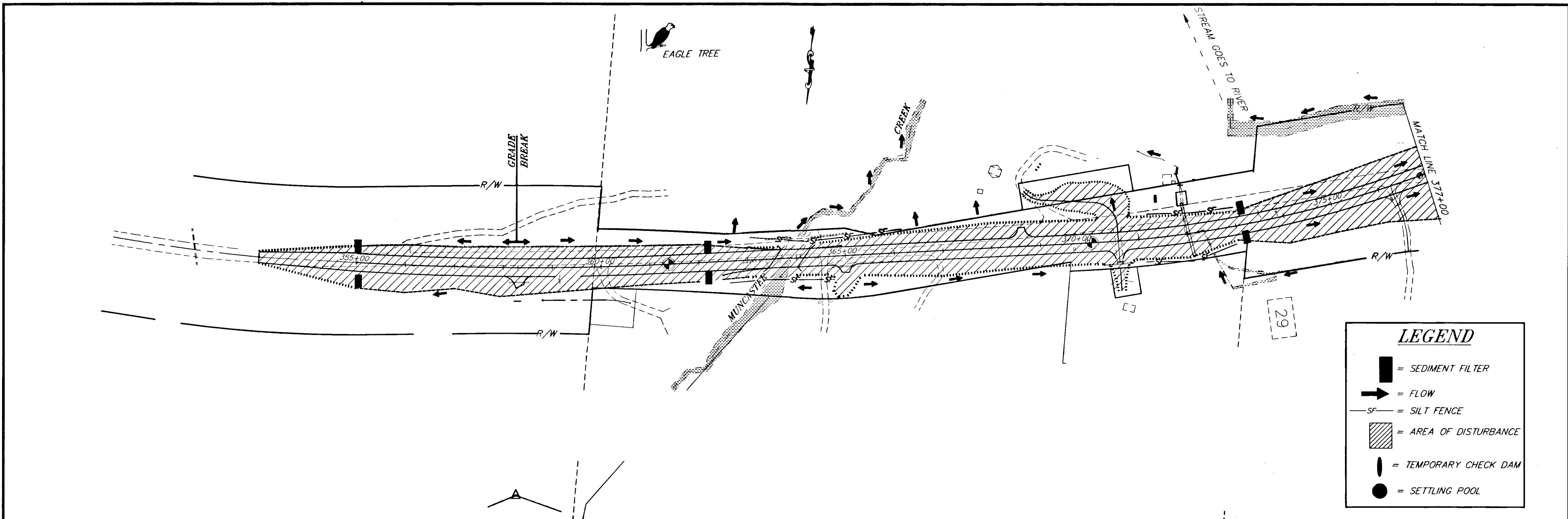
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 ALASKA  
**EROSION AND SEDIMENT CONTROL PLANS**  
**STA. 304+00 TO STA. 355+00**

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET J4             |





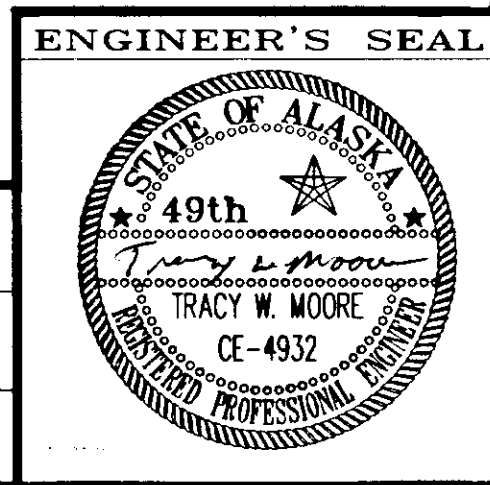
| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |

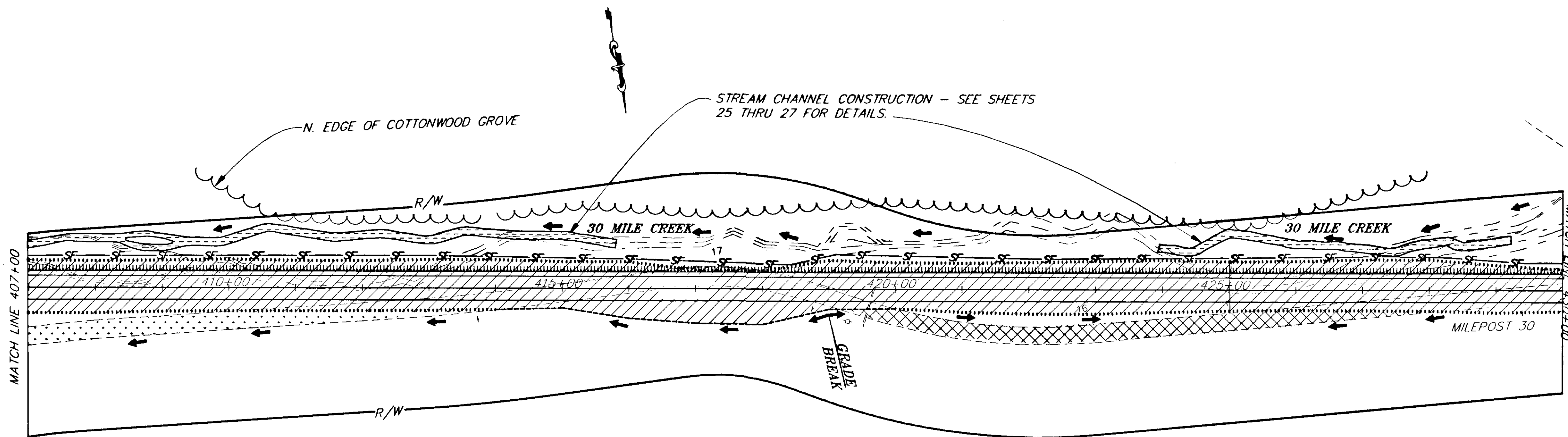
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES HAINES HIGHWAY ALASKA  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**EROSION AND SEDIMENT CONTROL PLANS**  
 STA. 355+00 TO STA. 470+00

|              |            |             |       |
|--------------|------------|-------------|-------|
| DESIGNED BY: | C. HAKARI  | PROJECT NO. | 71483 |
| DRAWN BY:    | W. HICKOK  | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE | SHEET       | J5    |

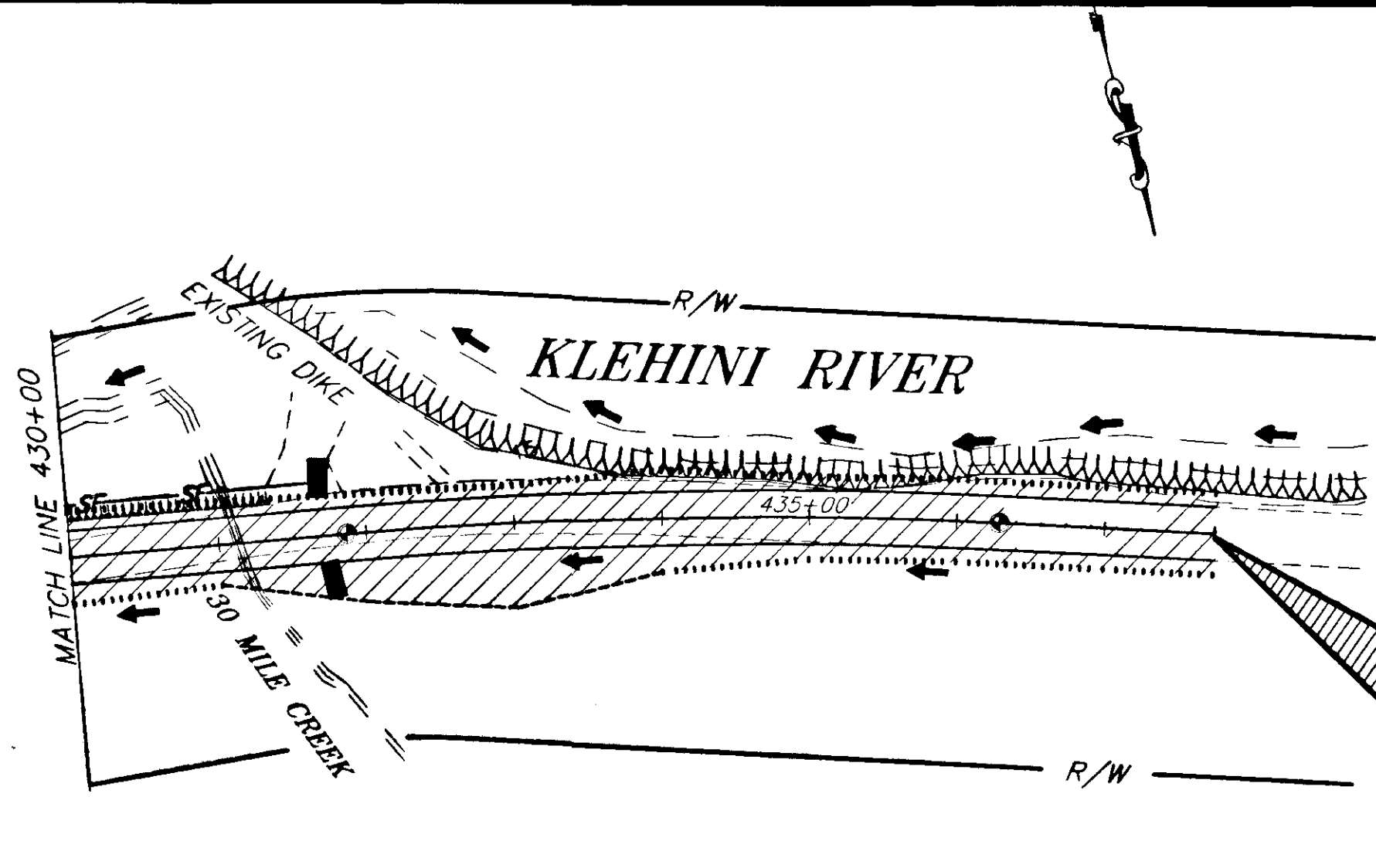
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS





**LEGEND**

- = SEDIMENT FILTER
- = FLOW
- = SILT FENCE
- = AREA OF DISTURBANCE



**BEGIN EXCEPTION**  
 STA. 437+73.90 P.O.T. BK. =  
 STA. 438+50.34 P.O.T. AHD.  
 MATCH EXISTING

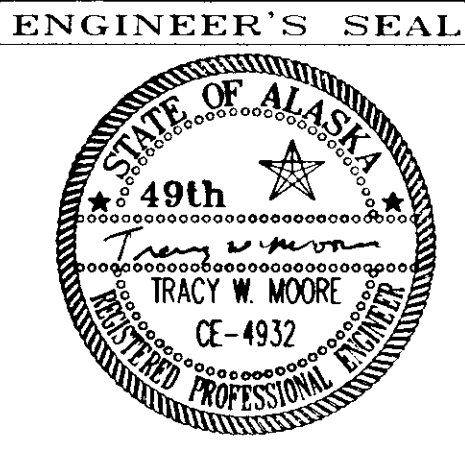
| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |

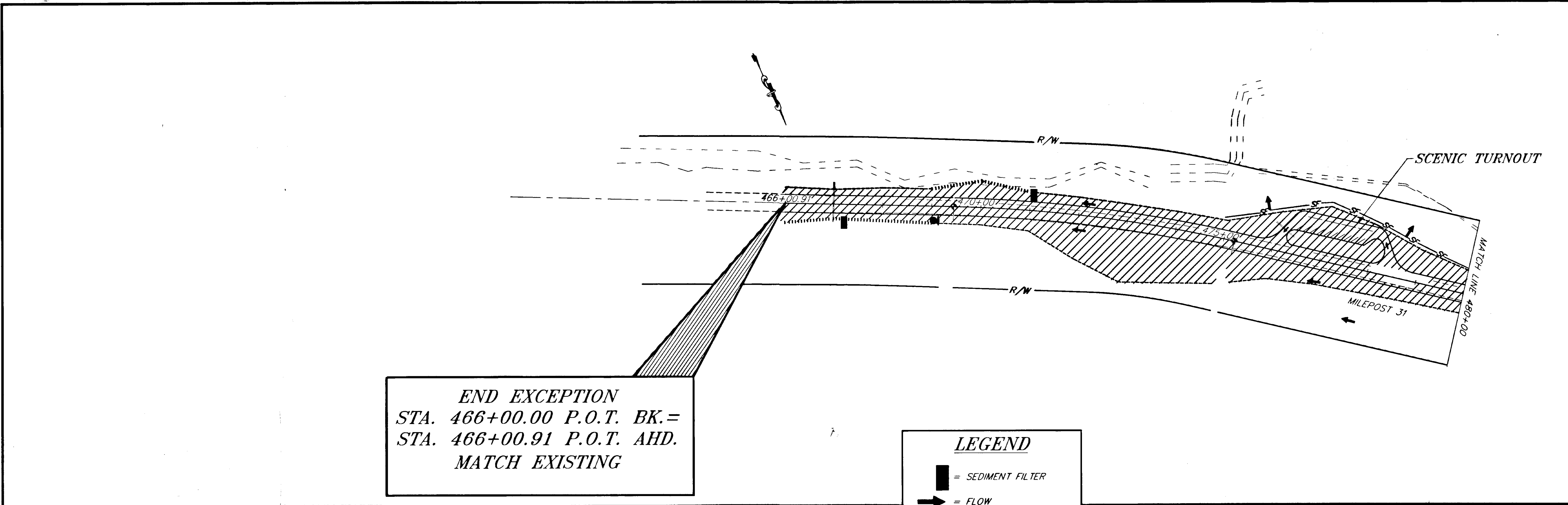
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**EROSION AND SEDIMENT CONTROL PLAN**  
 STA. 407+00 TO STA. 430+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

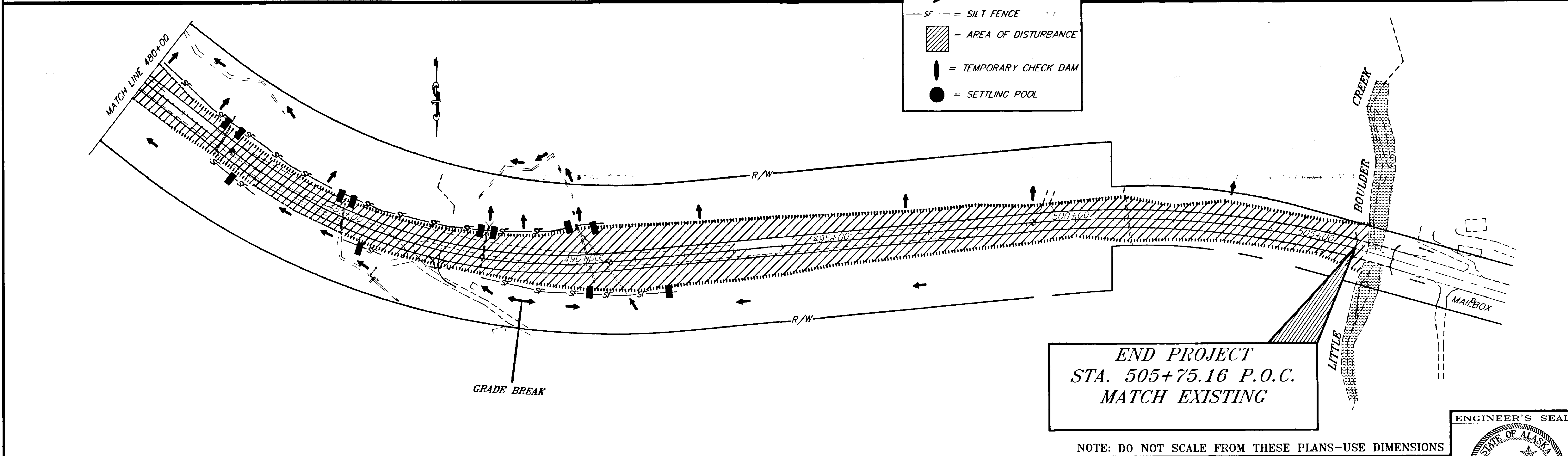
|              |             |             |       |
|--------------|-------------|-------------|-------|
| DESIGNED BY: | C. HAKARI   | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE  | SHEET       | J6    |





**LEGEND**

- = SEDIMENT FILTER
- = FLOW
- = SILT FENCE
- = AREA OF DISTURBANCE
- = TEMPORARY CHECK DAM
- = SETTLING POOL



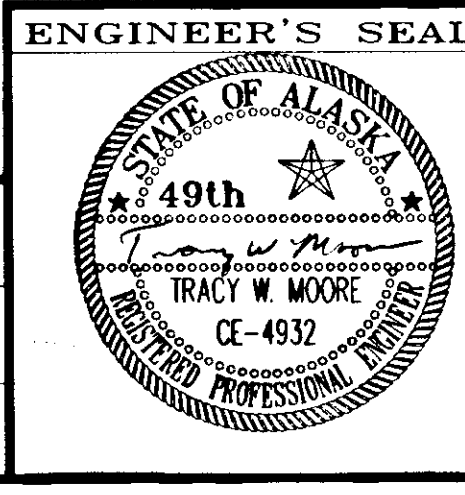
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

|                                    |       |                        |
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| BY:                                | DATE: | DESCRIPTION OF CHANGE: |
|                                    |       |                        |
| <b>RECORD OF REVISIONS</b>         |       |                        |

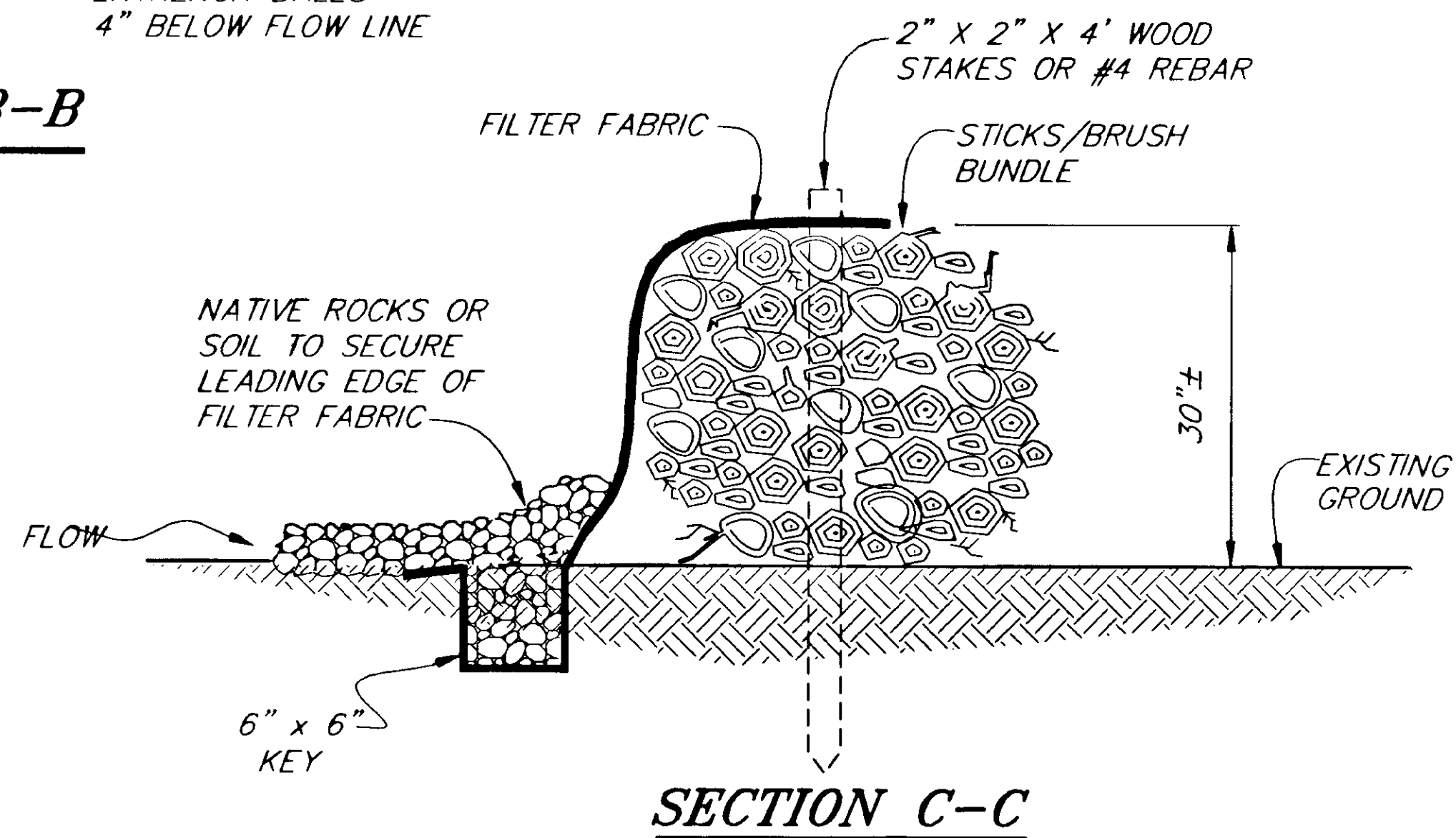
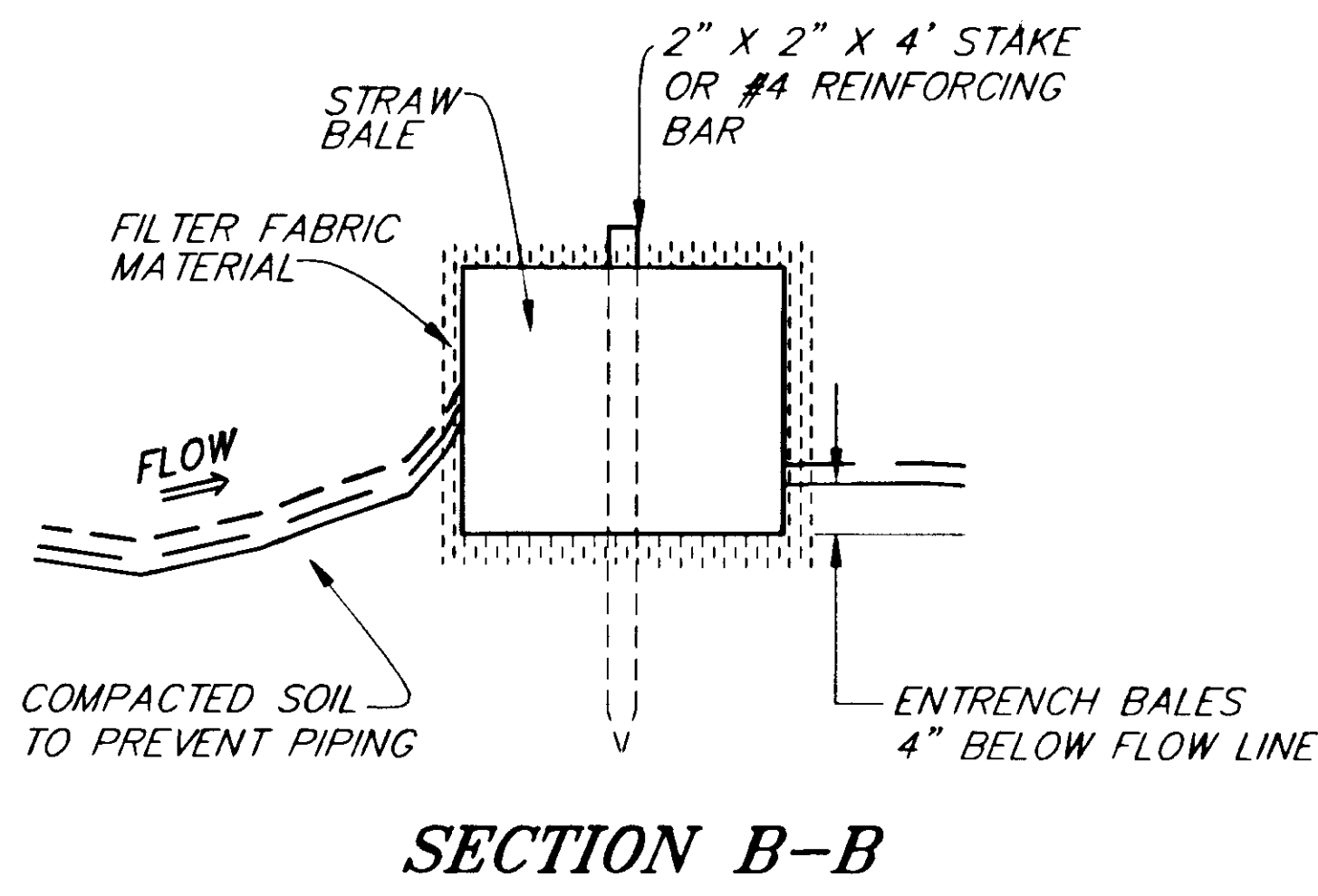
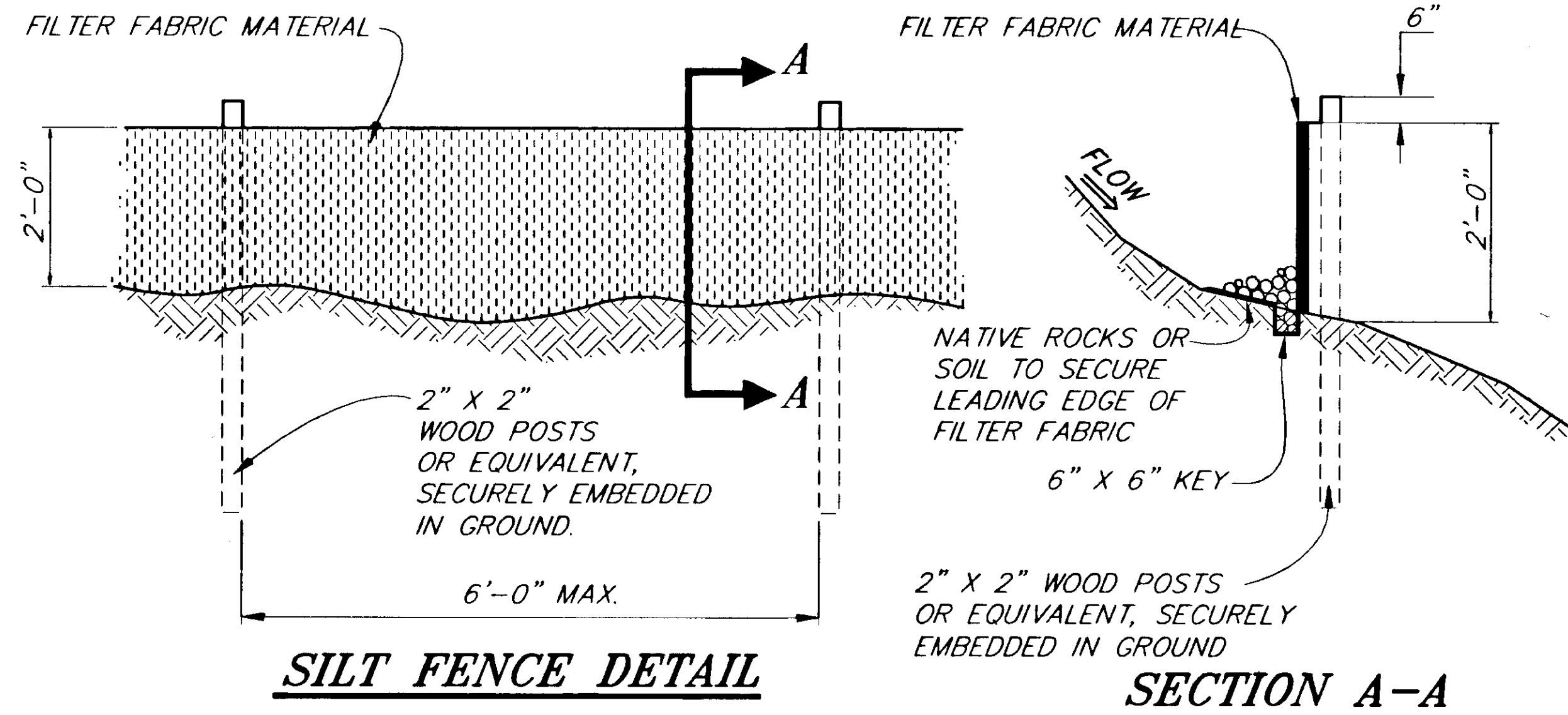
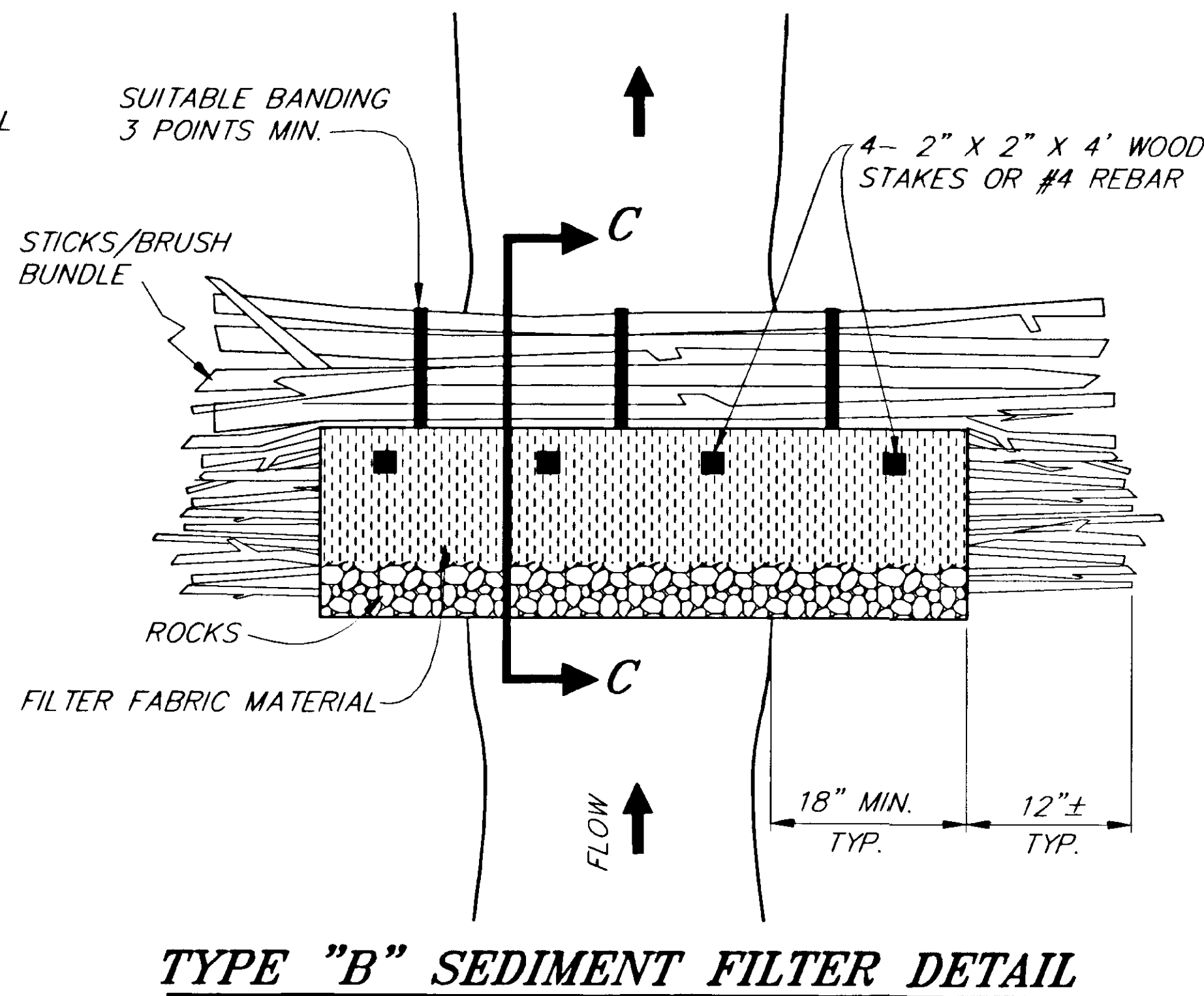
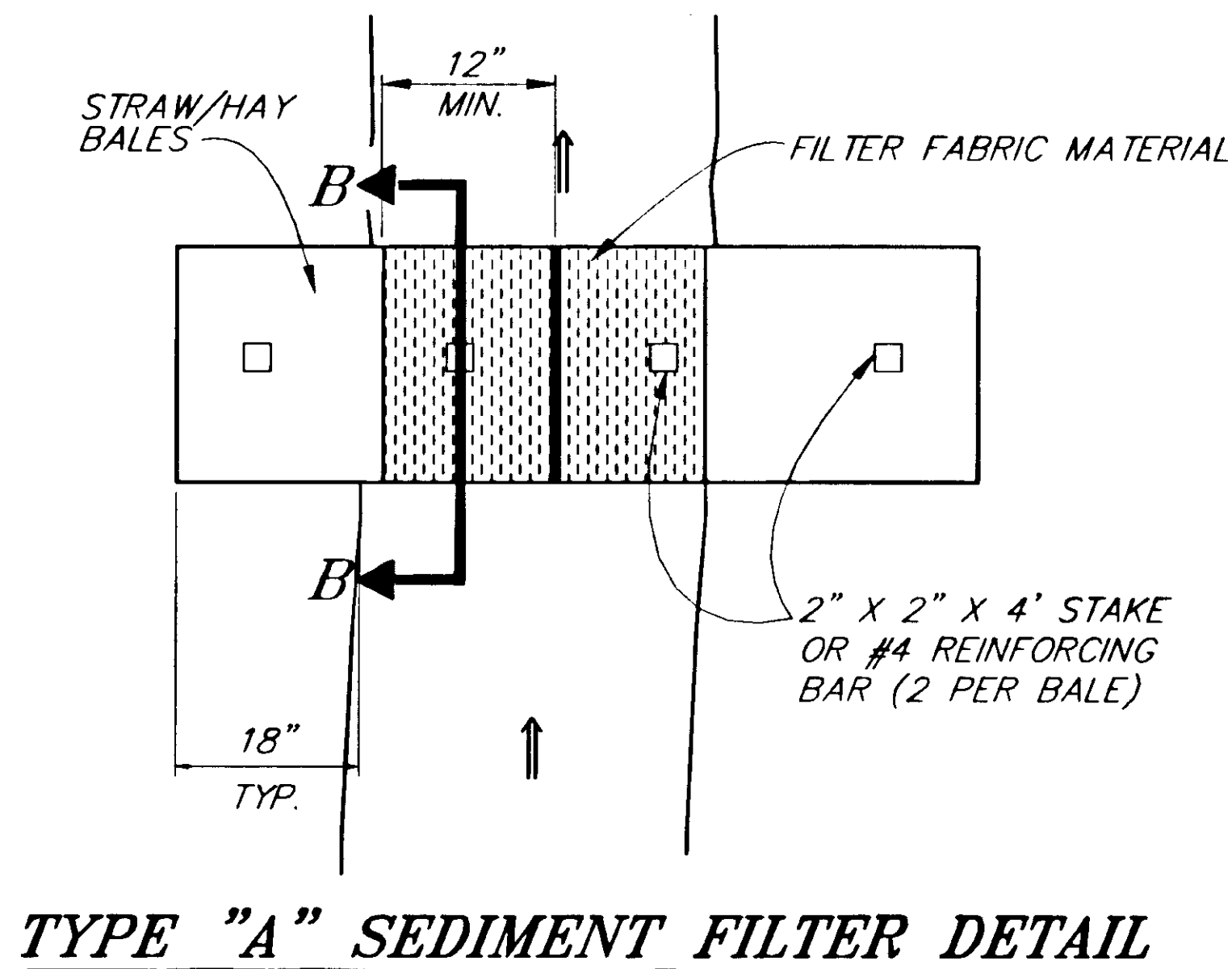
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**EROSION AND SEDIMENT CONTROL PLANS**  
 STA. 466+00.91 TO STA. 480+00

|              |             |             |       |
|--------------|-------------|-------------|-------|
| DESIGNED BY: | C. HAKARI   | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE  | SHEET       | J7    |







| SILT FENCE SUMMARY          |          |
|-----------------------------|----------|
| LOCATION                    | COMMENTS |
| 198+00, LT. TO 204+30, LT.  |          |
| 210+00, LT. TO 225+50, LT.  |          |
| 215+90, RT. TO 225+00, RT.  |          |
| 227+20, LT. TO 232+30, LT.  |          |
| 262+00, LT. TO 272+00, LT.  |          |
| 294+90, RT. TO 300+00 RT.   |          |
| 298+90, LT. TO 304+00, LT.  |          |
| 307+00, LT. TO 323+50, LT.  |          |
| 328+00, LT. TO 342+00, LT.  |          |
| 344+00, LT. TO 354+10, LT.  |          |
| 363+00, LT. TO 365+00, LT.  |          |
| 363+00, RT. TO 364+50, RT.  |          |
| 371+50, LT. TO 372+50, LT.  |          |
| 372+00, RT. TO 373+00, RT.  |          |
| 379+00, RT. TO 381+00, RT.  |          |
| 379+00, LT. TO 381+00, LT.  |          |
| 393+00, RT. TO 395+00, RT.  |          |
| 405+00, RT. TO 407+00, RT.  |          |
| 406+00, LT. TO 431+50, LT.  |          |
| 475+00, LT. TO 490+50, LT.  |          |
| 482+00, RT. TO 485+50, RT.  |          |
| 485+00, RT. TO 485+50, RT.  |          |
| 487+90, RT. TO 4491+25, RT. |          |

| SEDIMENT FILTER SUMMARY |                   |
|-------------------------|-------------------|
| STATION                 | STATION           |
| 161+00, RT.             |                   |
| 173+20, RT.             |                   |
| 175+00, LT.             | 344+00, LT.       |
| 180+00, LT.             | 353+40, RT.       |
| 184+00, LT.             | 354+10, LT.       |
| 186+40, LT.             | 362+00, LT. & RT. |
| 194+40, RT.             | 373+50, RT.       |
| 194+80, RT.             | 374+00, LT.       |
| 198+30, RT.             | 377+50, LT.       |
| 204+30, LT.             | 378+20, RT.       |
| 215+90, RT.             | 431+60, LT. & RT. |
| 225+00, RT.             | 467+20, RT.       |
| 225+50, LT.             | 471+20, RT.       |
| 226+30, RT.             | 481+90, LT.       |
| 233+20, LT.             | 482+10, LT.       |
| 255+90, LT.             | 482+95, RT.       |
| 267+00, RT.             | 484+80, LT.       |
| 272+80, RT.             | 485+00, LT.       |
| 293+80, LT.             | 485+85, RT.       |
| 294+90, RT.             | 487+75, LT.       |
| 298+90, LT.             | 488+05, RT.       |
| 307+00, LT.             | 489+80, LT.       |
| 328+00, LT.             | 490+00, RT.       |
| 328+80, RT.             | 490+50, LT.       |
| 340+50, LT.             | 491+60, RT.       |

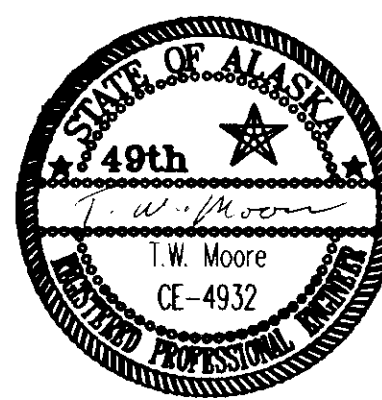
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

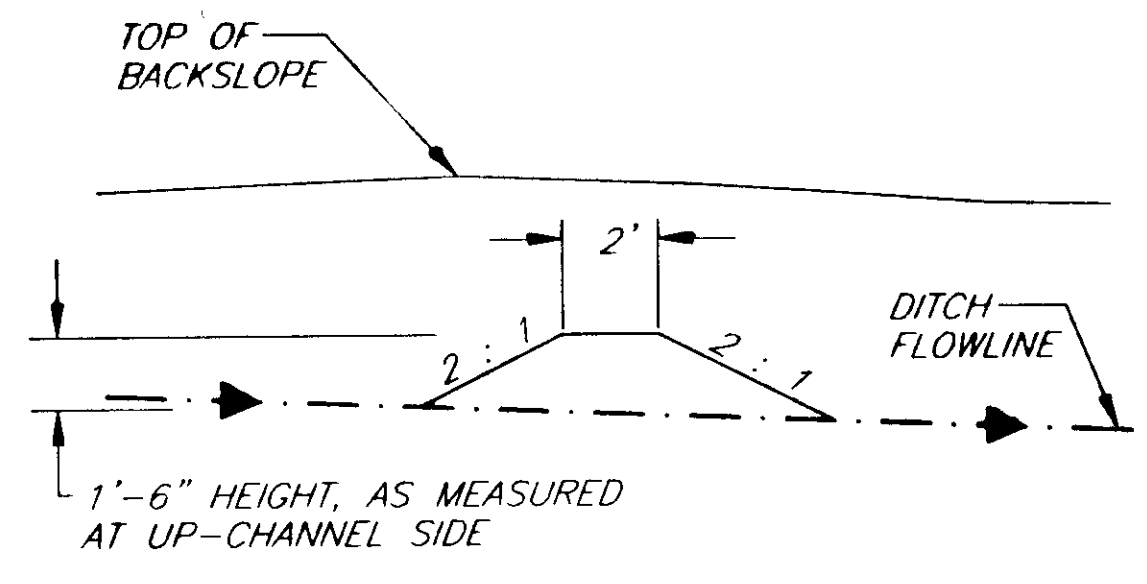
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| BY:                         |       |                        |
|                             |       |                        |

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

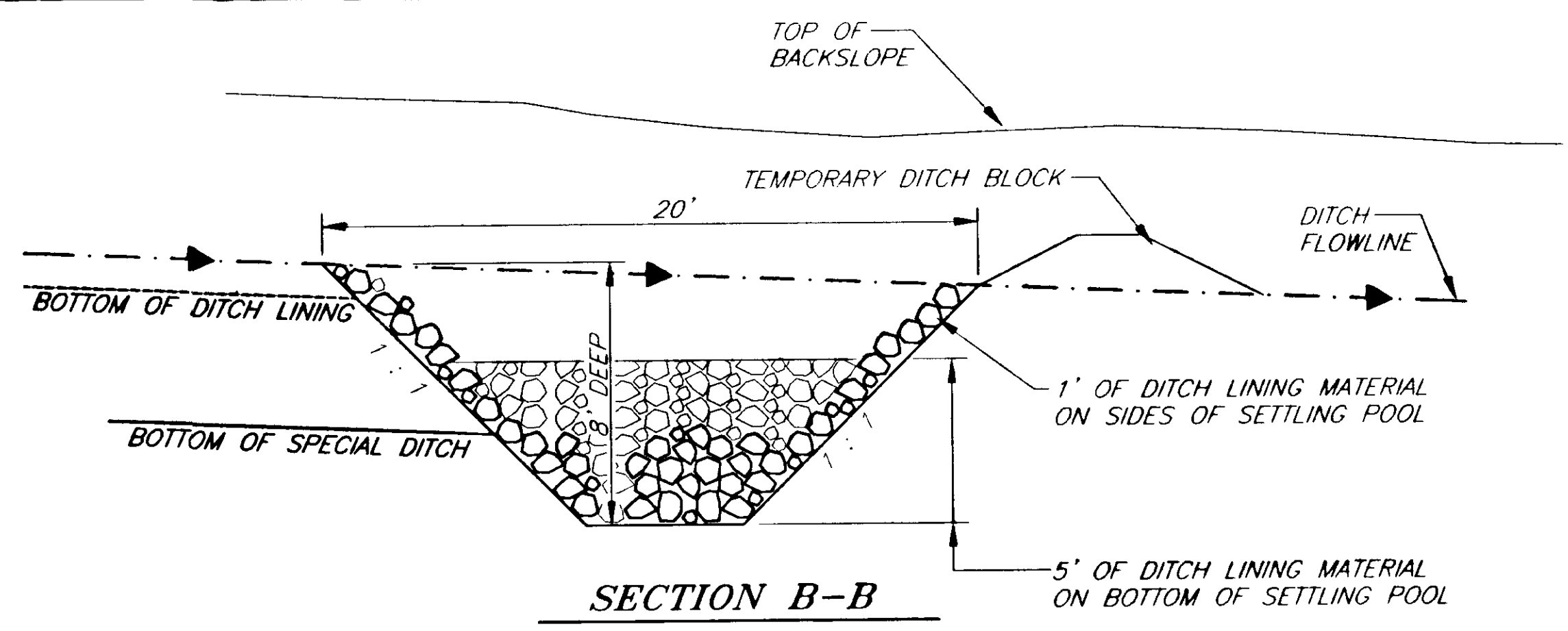
HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 ALASKA  
**EROSION AND SEDIMENT CONTROL DETAILS**

|              |             |             |       |
|--------------|-------------|-------------|-------|
| DESIGNED BY: | C. HAKARI   | PROJECT NO. | 71483 |
| DRAWN BY:    | C. ANDERSON | DATE:       | 1998  |
| CHECKED BY:  | T.W. MOORE  | SHEET       | JB    |

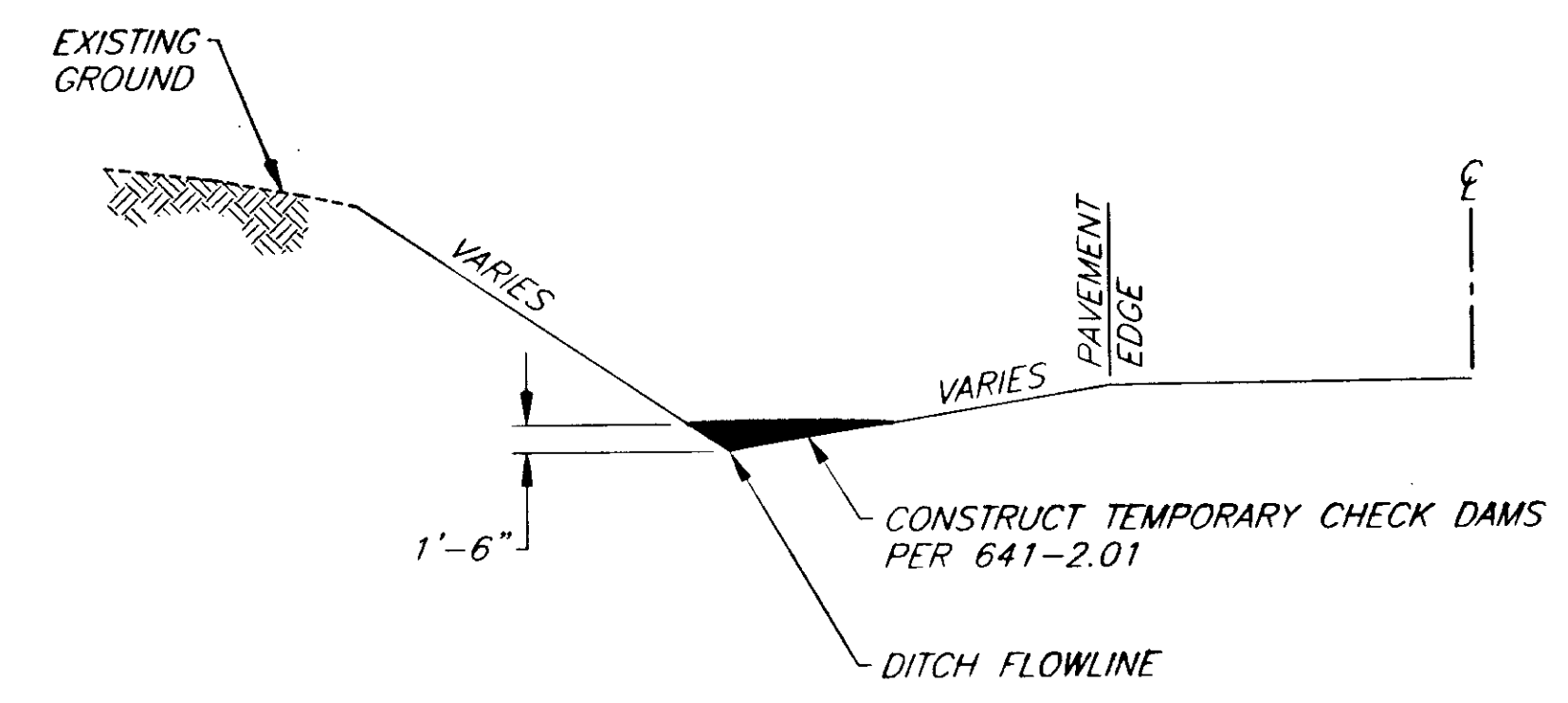




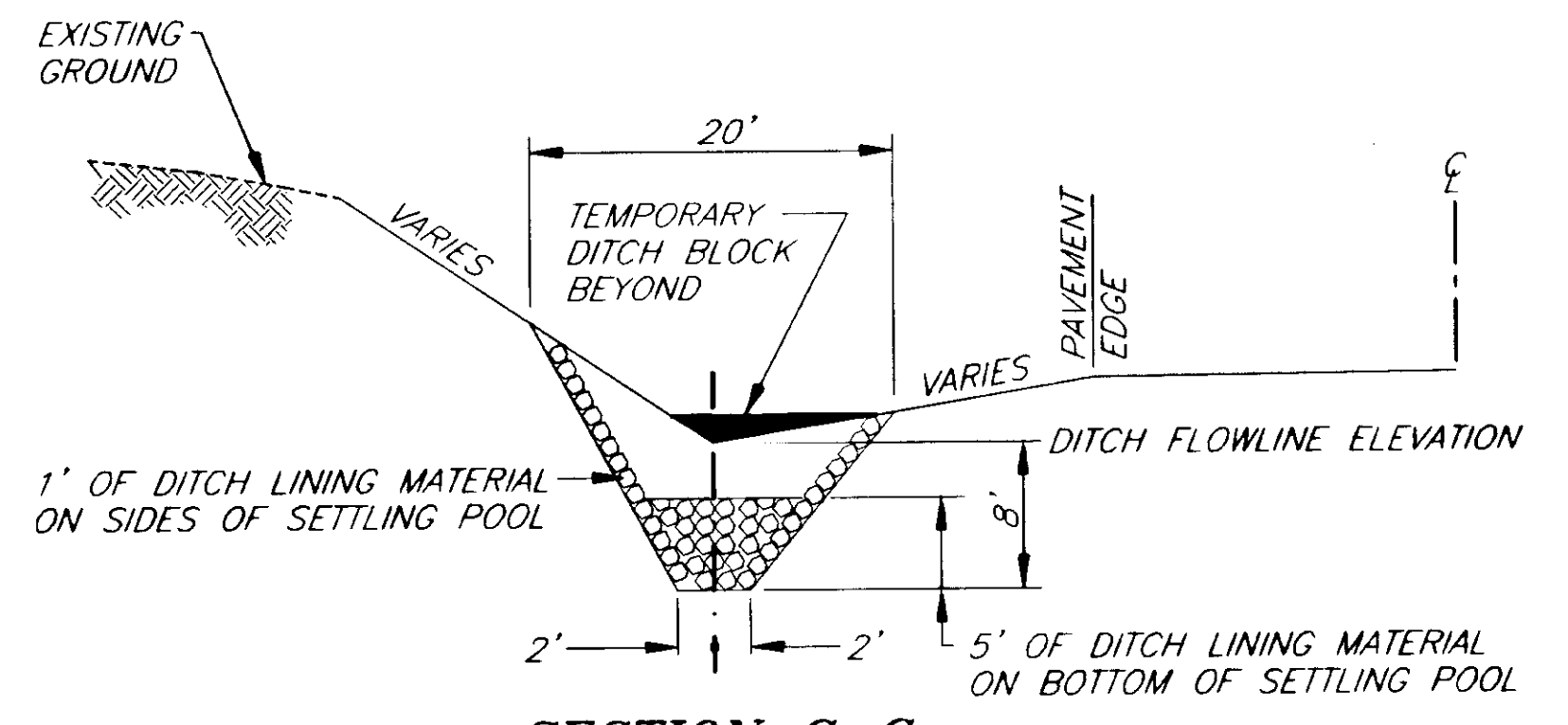
**SECTION A-A**



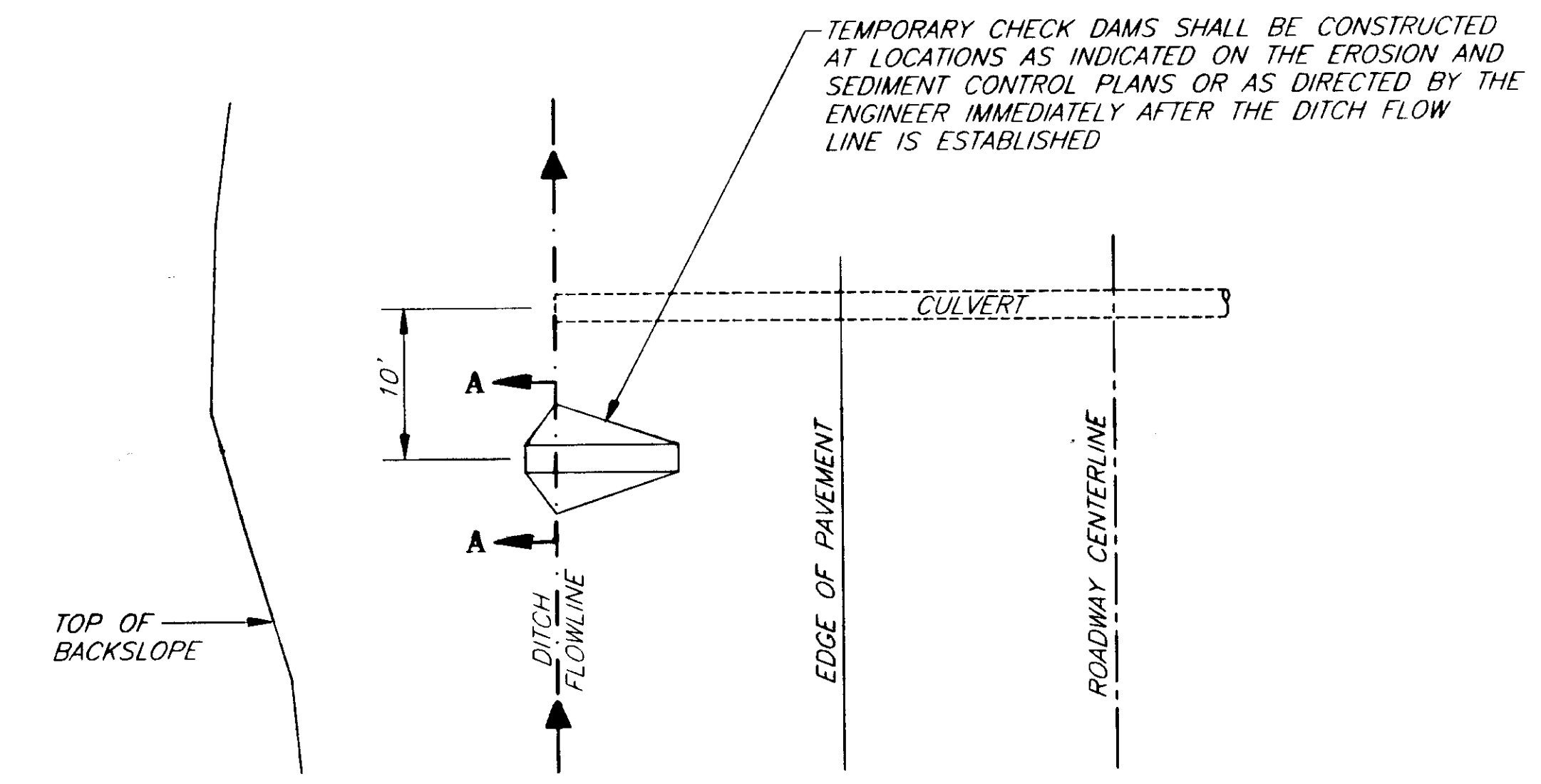
**SECTION B-B**



**ELEVATION**

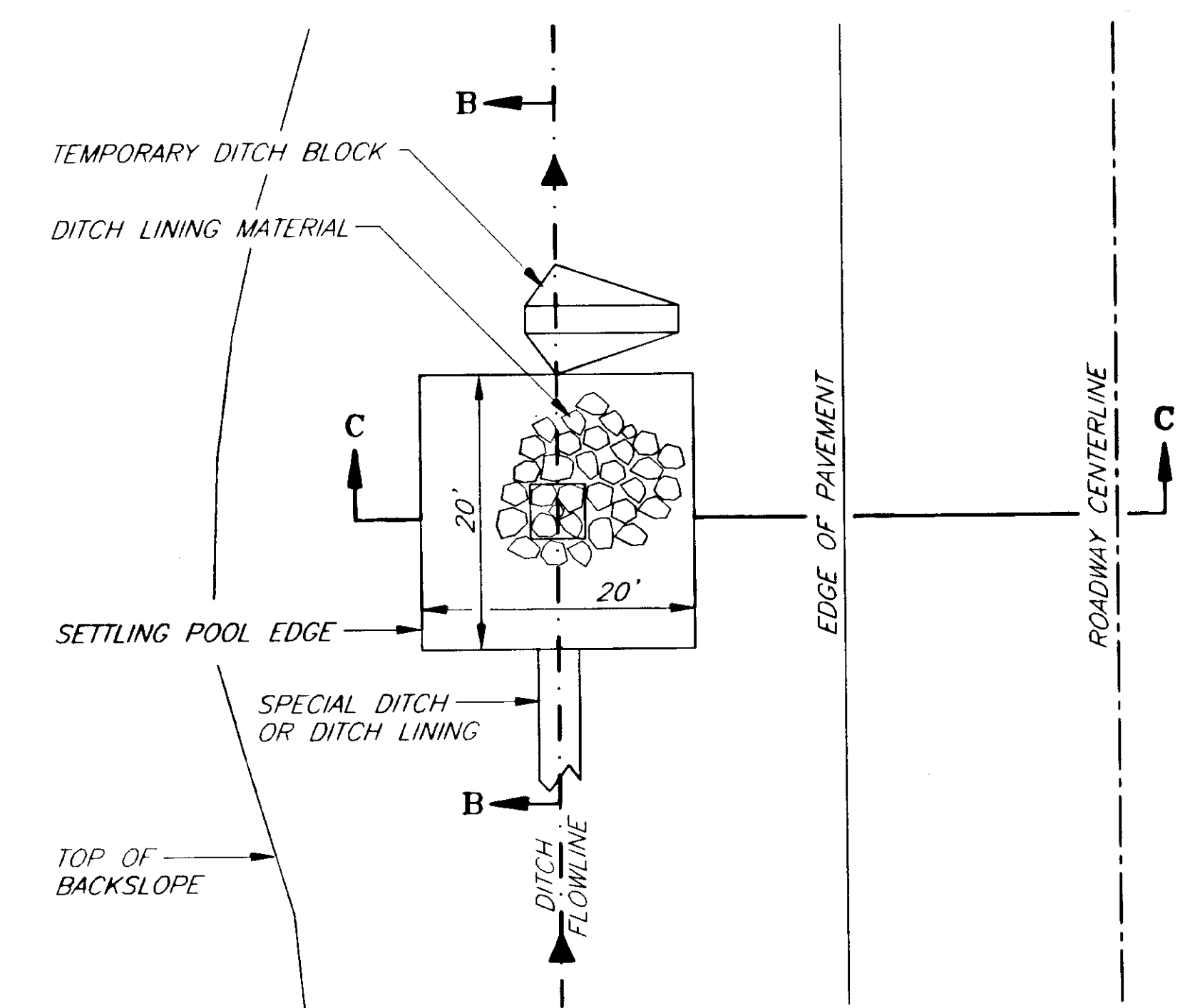


**SECTION C-C**



**PLAN**

**TEMPORARY CHECK DAM DETAILS**



**PLAN**

**SETTLING POOL DETAILS**

CONSTRUCT SETTLING POOLS AT 273+75, RT., 280+25, LT., 350+85, RT. AND 351+25, LT.

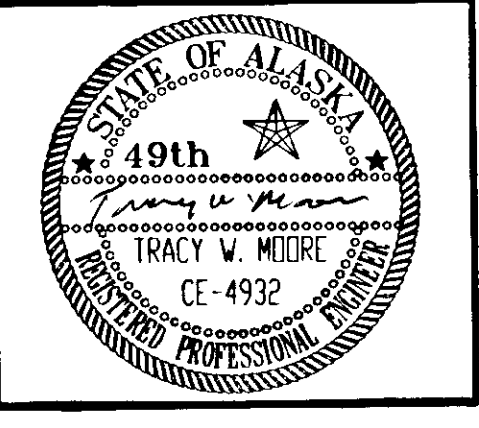
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

|  |       |                        |
|--|-------|------------------------|
| PATH: P:\HNS\67436\ER\—ERODET 1=1 (1=2H) |       |                        |
| PLOT:                                    |       |                        |
| BY:                                      | DATE: | DESCRIPTION OF CHANGE: |
| RECORD OF REVISIONS                      |       |                        |

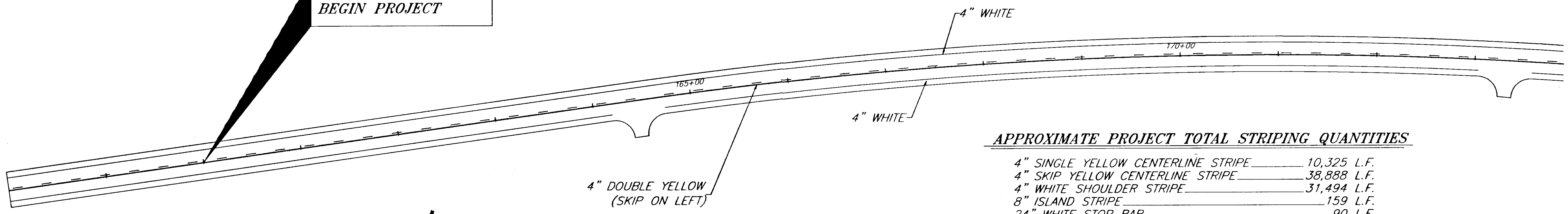
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-096-6(14) - 71483  
 EROSION AND SEDIMENT CONTROL DETAILS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK    | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE   | SHEET J9             |



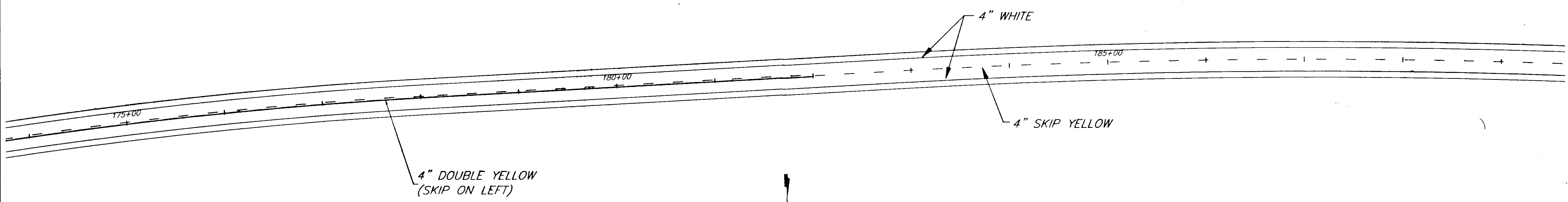
**STA. 160+00 P.O.T.  
BEGIN PROJECT**



**APPROXIMATE PROJECT TOTAL STRIPING QUANTITIES**

|                                    |             |
|------------------------------------|-------------|
| 4" SINGLE YELLOW CENTERLINE STRIPE | 10,325 L.F. |
| 4" SKIP YELLOW CENTERLINE STRIPE   | 38,888 L.F. |
| 4" WHITE SHOULDER STRIPE           | 31,494 L.F. |
| 8" ISLAND STRIPE                   | 159 L.F.    |
| 24" WHITE STOP BAR                 | 90 L.F.     |
| 18" WHITE ISLAND CHEVRONS          | 97 L.F.     |

**NOTE:**  
CENTERLINE STRIPING SHALL BE  
VERIFIED IN THE FIELD PRIOR TO  
INSTALLATION BY THE TRAFFIC AND  
SAFETY ENGINEER



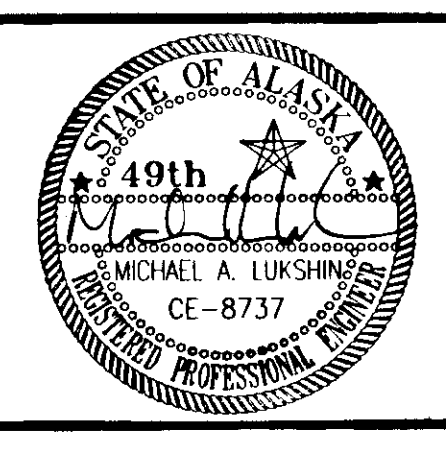
**NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS**

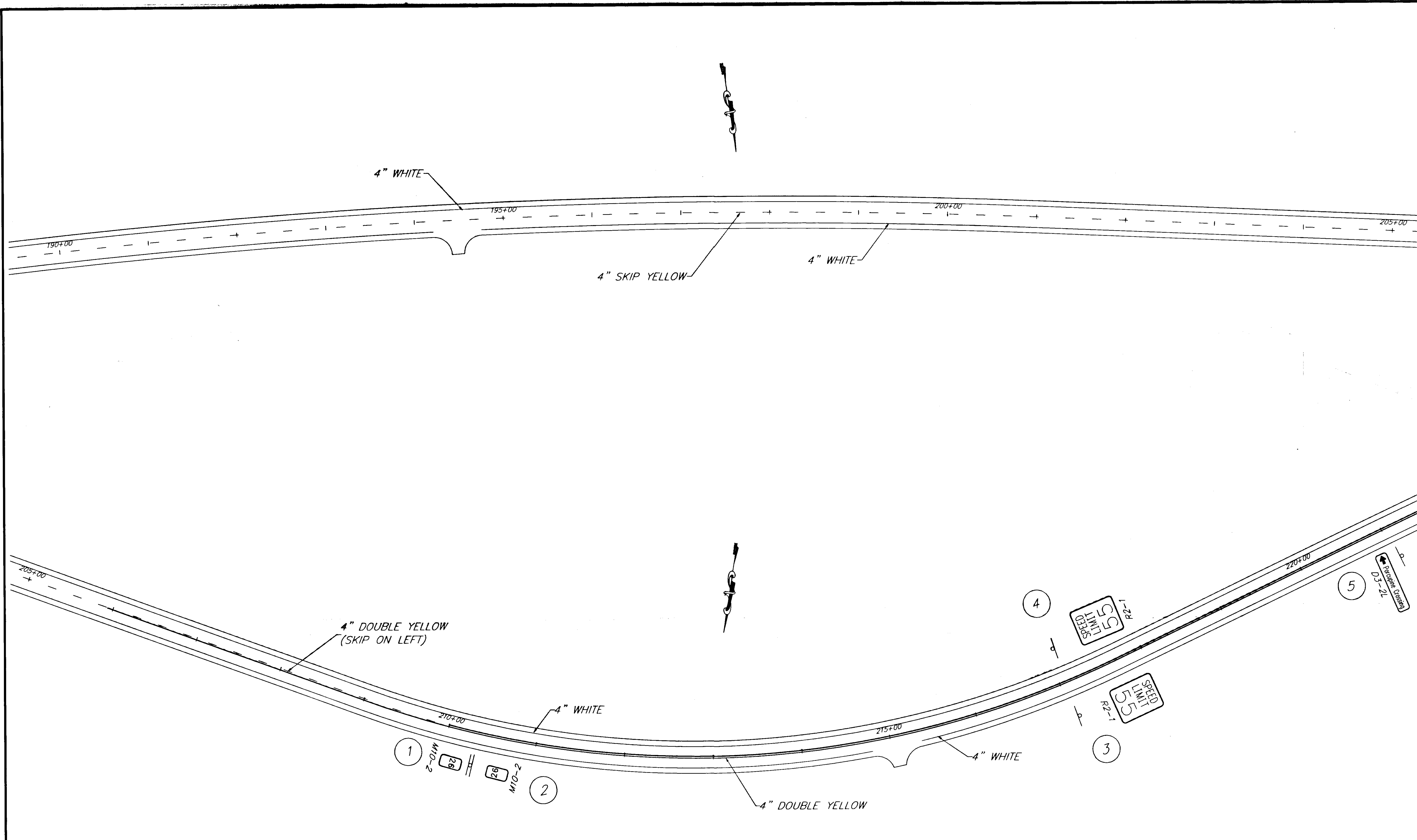
|  |       |                        |
|--|-------|------------------------|
| PATH: P:\HNS\67436\DR\ -SIGN&STRIPE VIEWS: 3,4,TB2 |       |                        |
| PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOTH.PCP(2)  |       |                        |
| BY:  | DATE: | DESCRIPTION OF CHANGE: |
| <b>RECORD OF REVISIONS</b>                         |       |                        |

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

HAINES  
HAINES HIGHWAY  
MP 25.5 TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**SIGNING AND STRIPING PLAN**  
STA. 160+00 (B.O.P.) TO 190+00

|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET K1             |





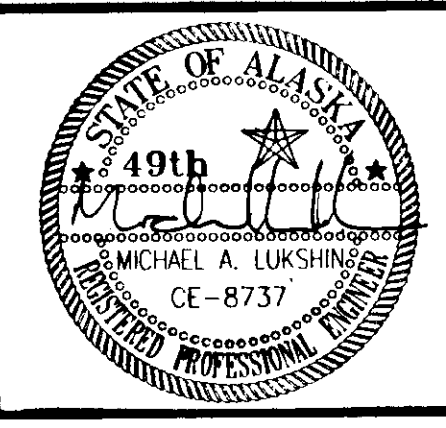
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

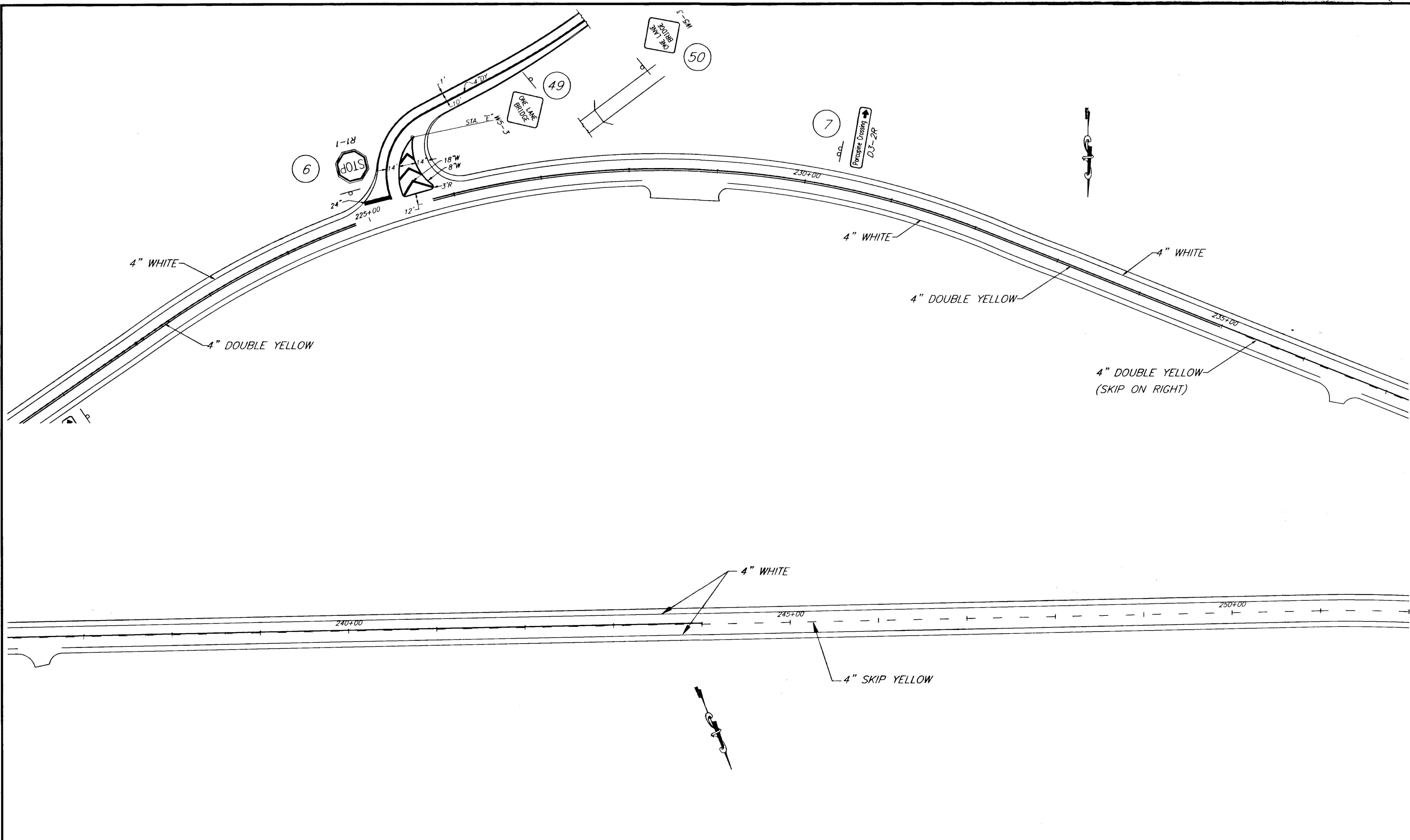
| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

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

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**SIGNING AND STRIPING PLAN**  
 STA. 190+00 TO 222+00

|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET K2             |





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|  |       |                        |
|--|-------|------------------------|
| PATH: P: \HNS\67436\DR\ -SIGN&STRIPE VIEWS: 7,8,TB4  |       |                        |
| PLOT: P: \-LIB\ -PLOT\PLOT.F.PCP(1) OR PLOT.H.PCP(2) |       |                        |
| BY:  | DATE: | DESCRIPTION OF CHANGE: |
|  |       |                        |
| <b>RECORD OF REVISIONS</b>                           |       |                        |

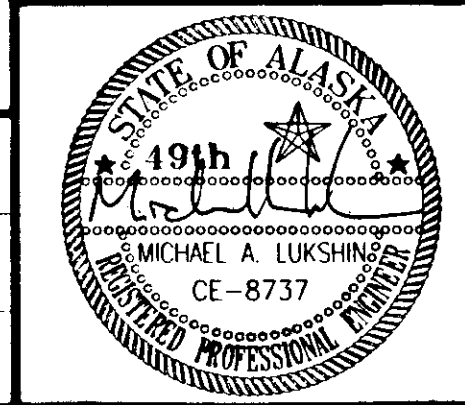
STATE OF ALASKA  
**DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES**  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

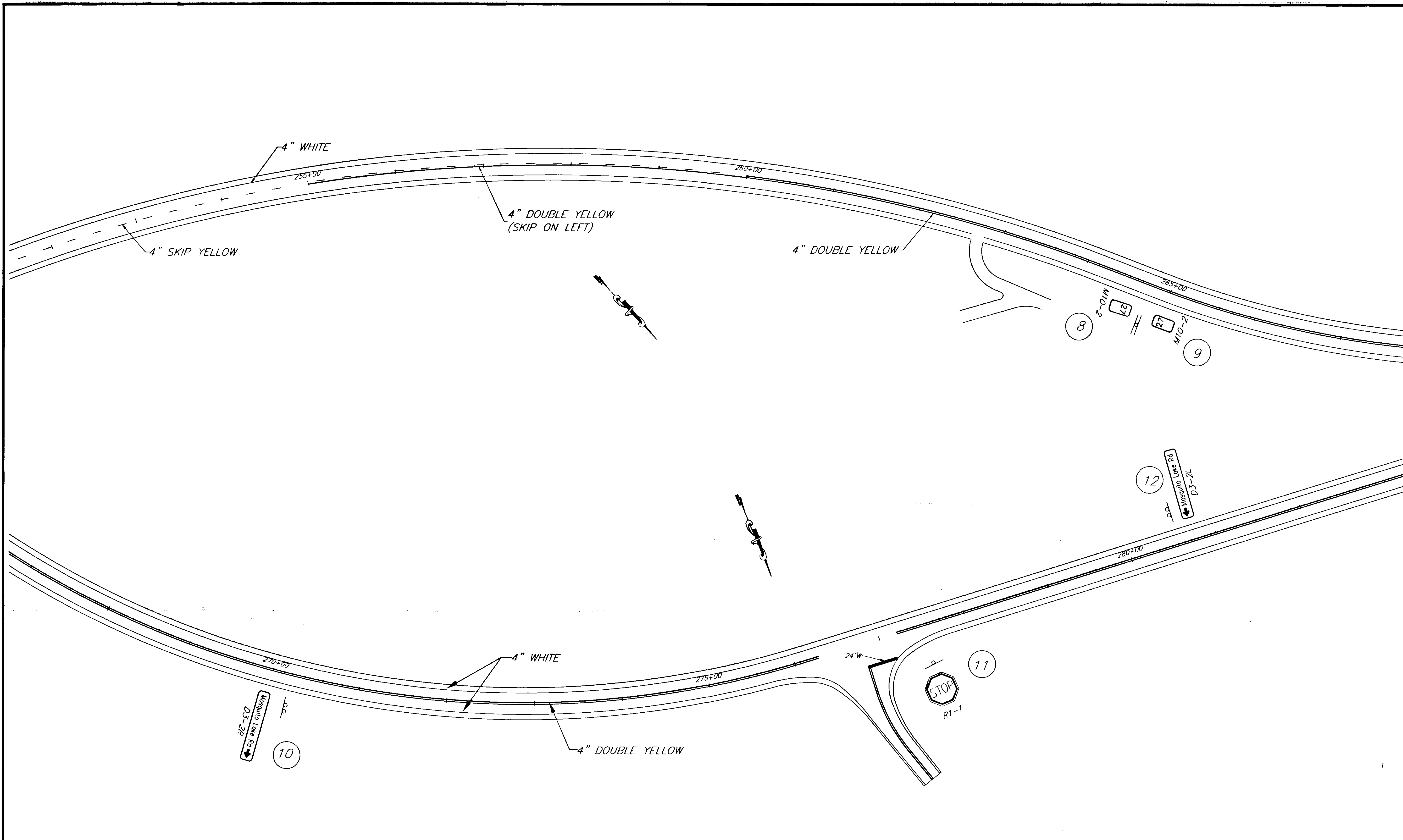
HAINES

HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-8(14) - 71483  
**SIGNING AND STRIPING PLAN**  
 STA. 222+00 TO 252+00

ALASKA

|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET<br>K3          |





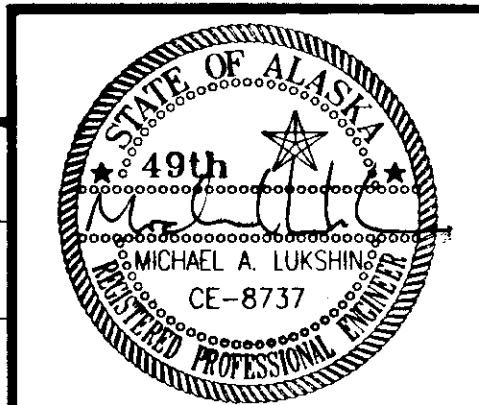
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

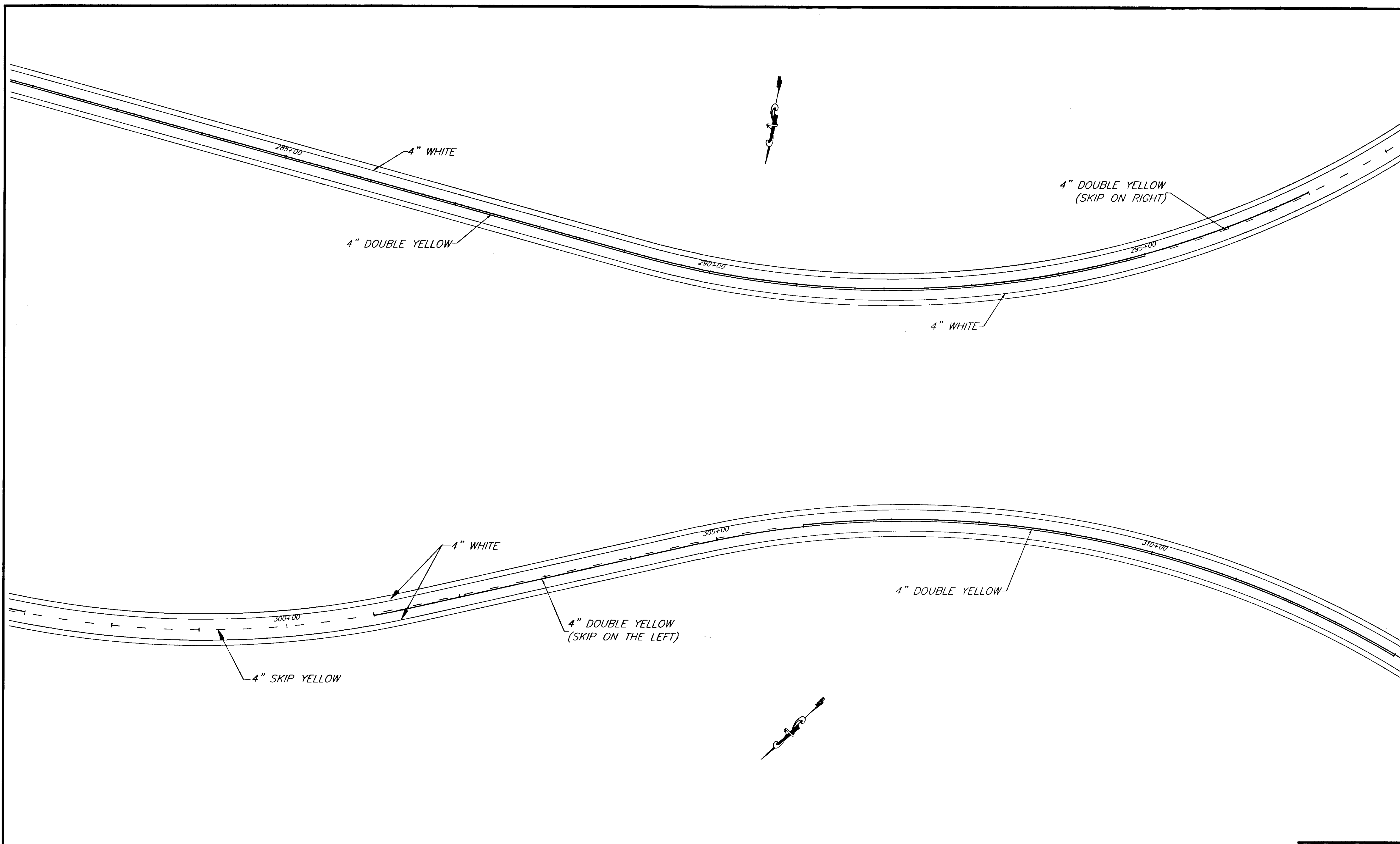
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| PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2)    |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |
| <b>RECORD OF REVISIONS</b>                          |       |                        |

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

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 ALASKA  
 SIGNING AND STRIPING PLAN  
 STA. 252+00 TO 282+00

|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET K4             |





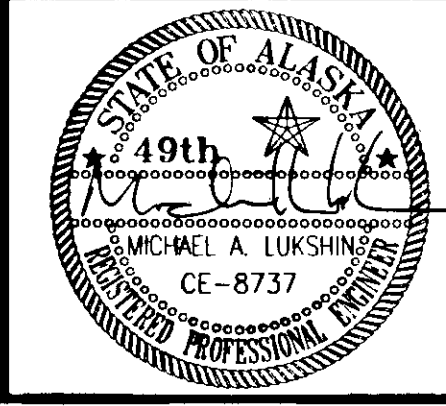
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

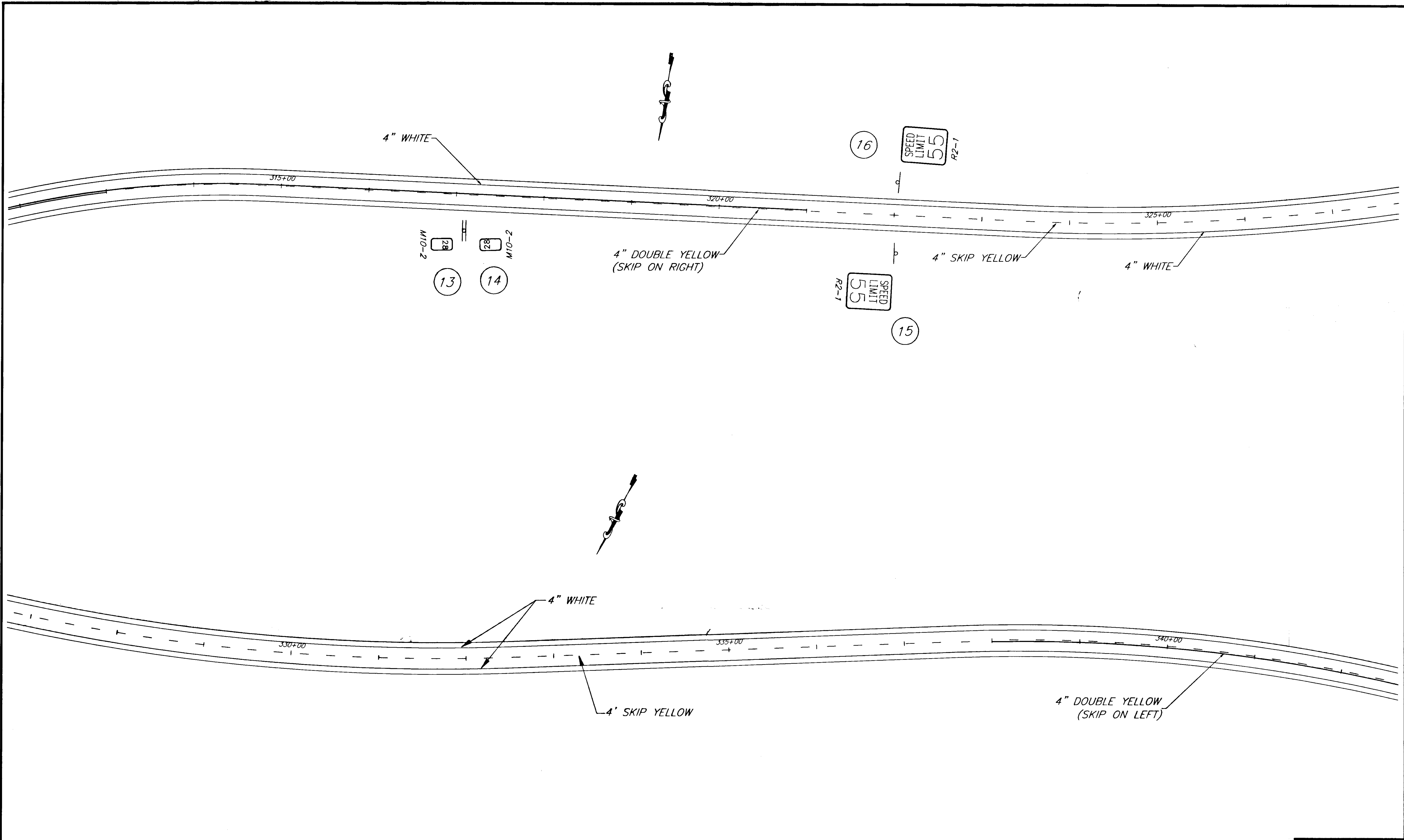
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| PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2)     |       |                        |
| BY:  | DATE: | DESCRIPTION OF CHANGE: |
| <b>RECORD OF REVISIONS</b>                           |       |                        |

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

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 ALASKA  
**SIGNING AND STRIPING PLAN**  
 STA. 282+00 TO 312+00

|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET K5             |



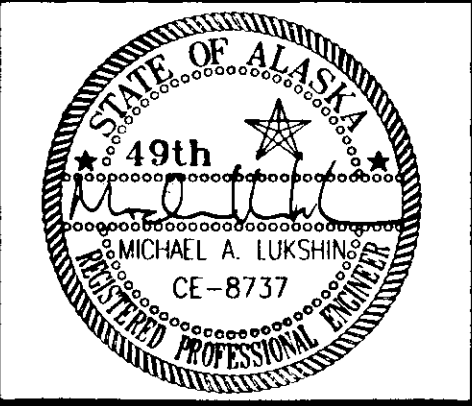


| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |

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

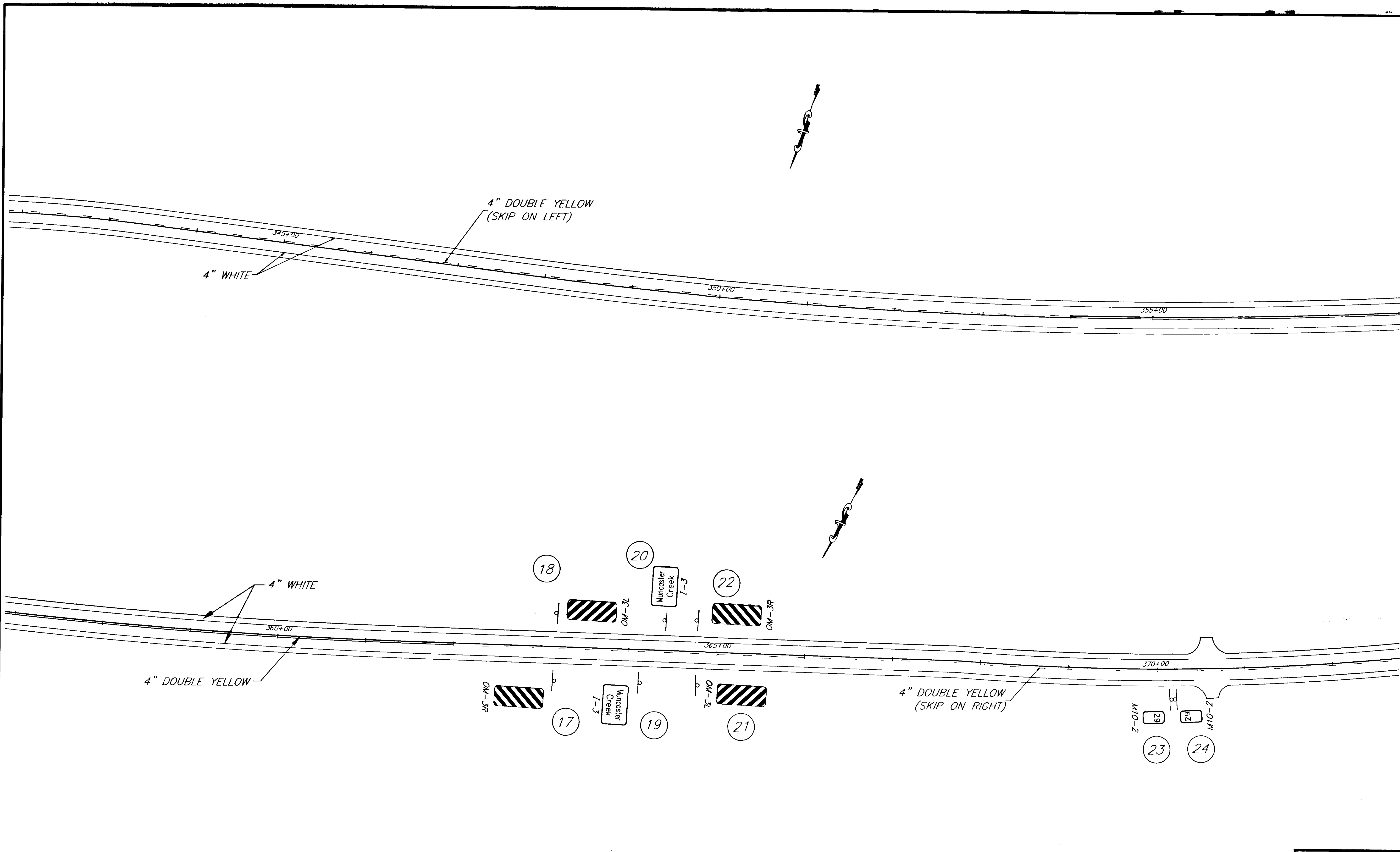
HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 SIGNING AND STRIPING PLAN  
 STA. 312+00 TO 342+00  
 ALASKA

|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET K6             |



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS





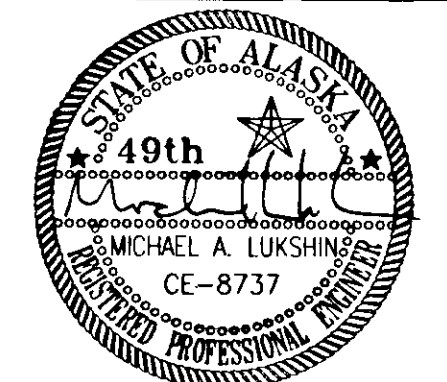
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|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
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|                     |       |                        |

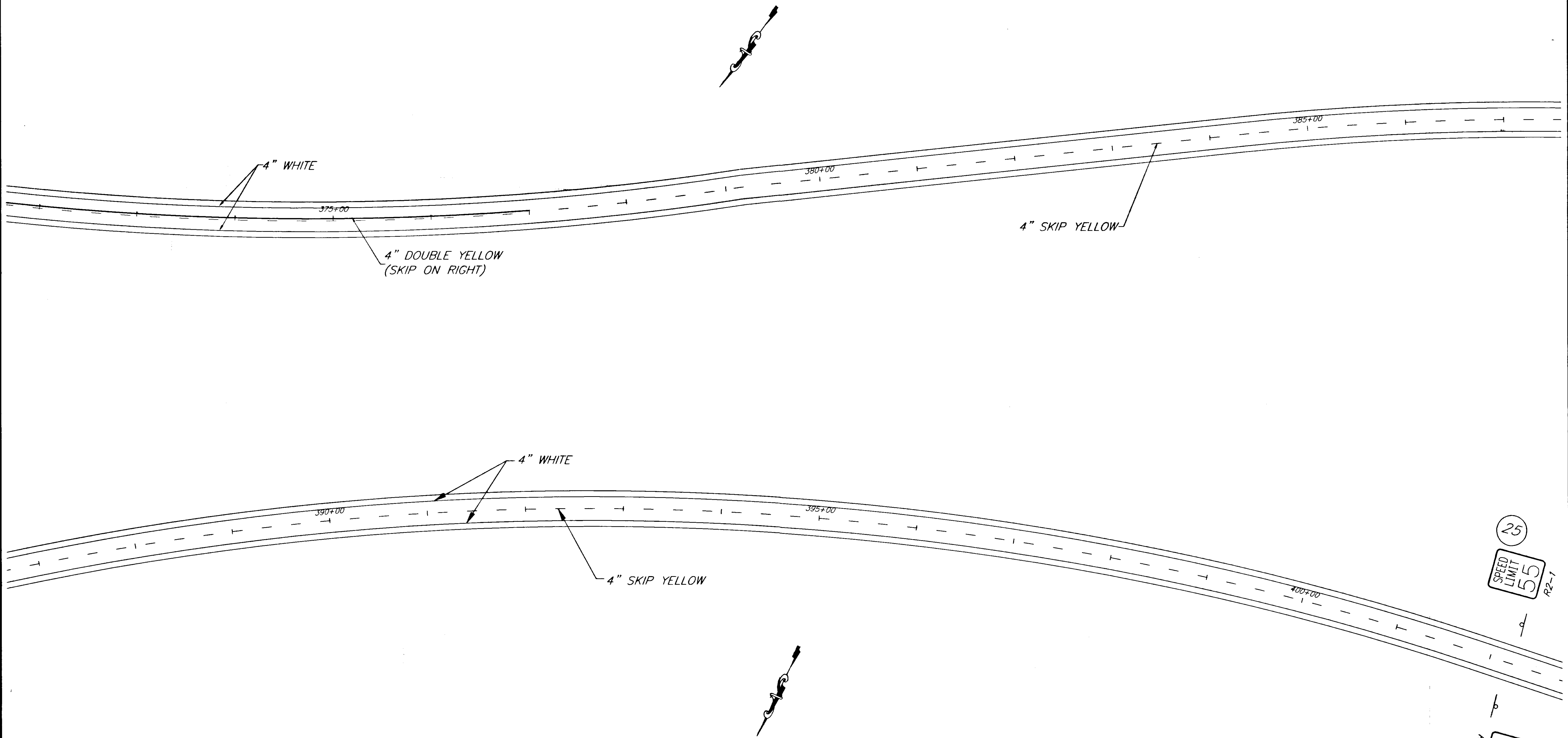
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 SIGNING AND STRIPING PLAN  
 STA. 342+00 TO 372+00  
 ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET K7             |





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|   |       |                        |
|---|-------|------------------------|
| PATH: P:\HNS\67436\DR\ -SIGN&STRIPE               |       | VIEWS: 17,18,189       |
| PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOTH.PCP(2) |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |

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

HAINES

HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**SIGNING AND STRIPING PLAN**  
 STA. 372+00 TO 402+00

ALASKA

DESIGNED BY:  
C. HAKARI

DRAWN BY:  
W. HICKOK

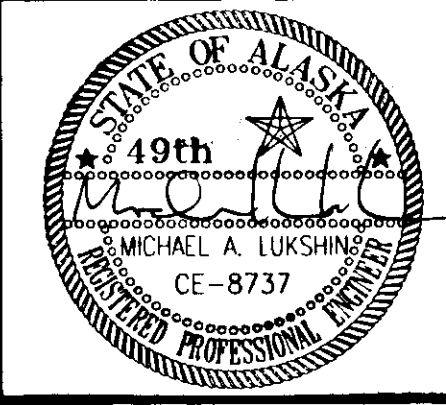
CHECKED BY:  
T. MOORE/M. LUKSHIN

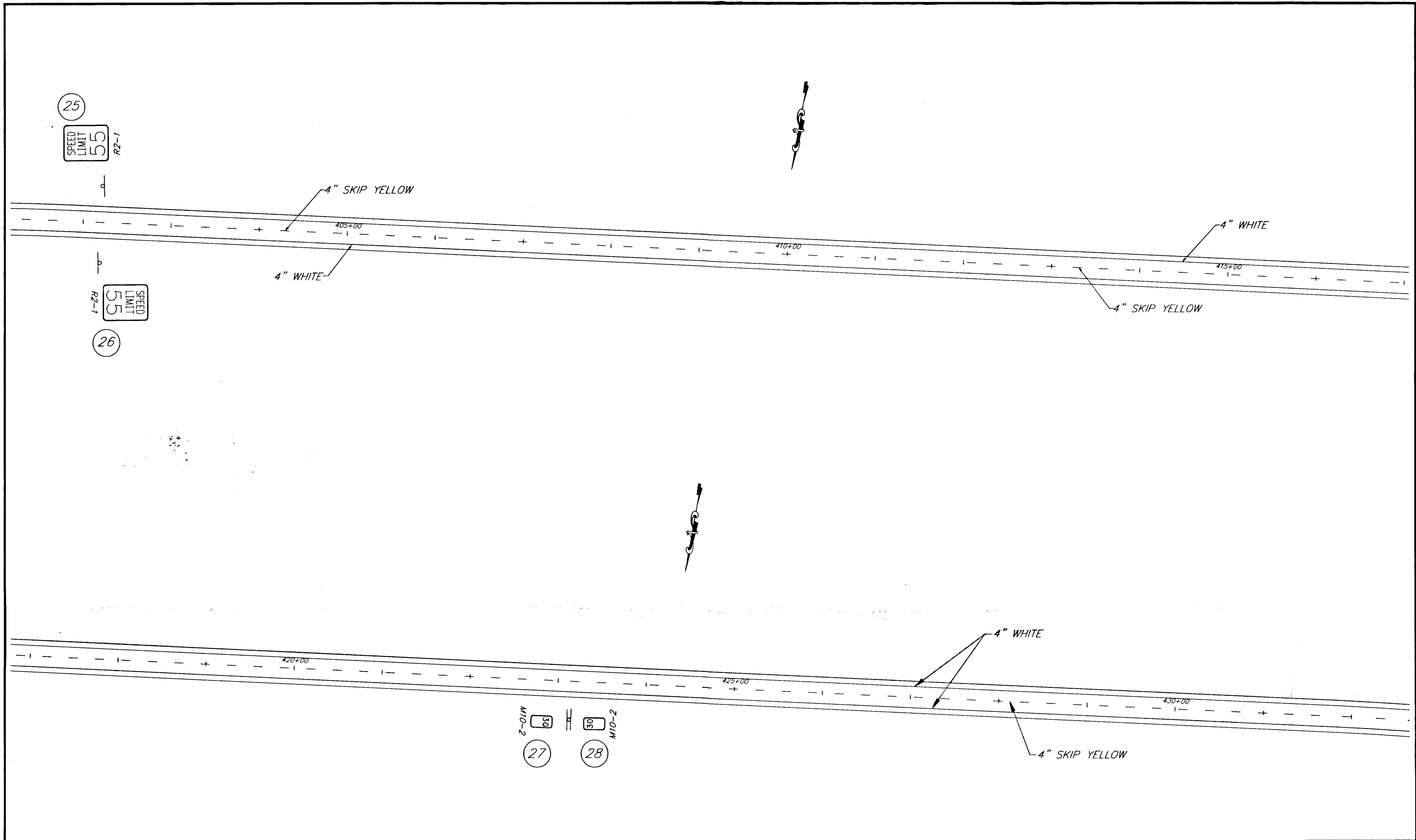
PROJECT NO.  
71483

DATE:  
1998

SHEET K8

RECORD OF REVISIONS





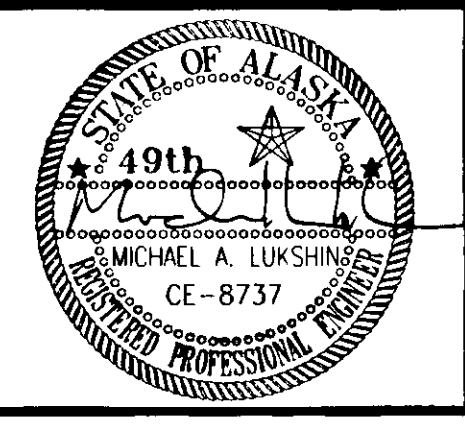
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|   |       |                        |
|---|-------|------------------------|
| PATH: P:\HNS\67436\DR\ -SIGN&STRIPE VIEWS: 19,20,TB10 |       |                        |
| PLOT: P:\-LIB\ -PLOT\ PLOT.F.PCP(1) OR PLOT.H.PCP(2)  |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |
| RECORD OF REVISIONS                                   |       |                        |

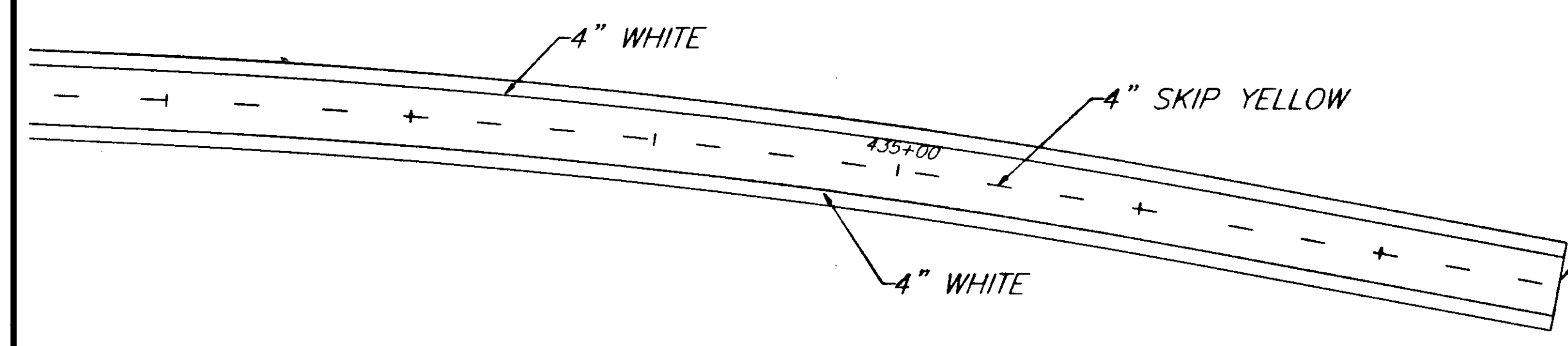
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
 SIGNING AND STRIPING PLAN  
 STA. 402+00 TO 432+00

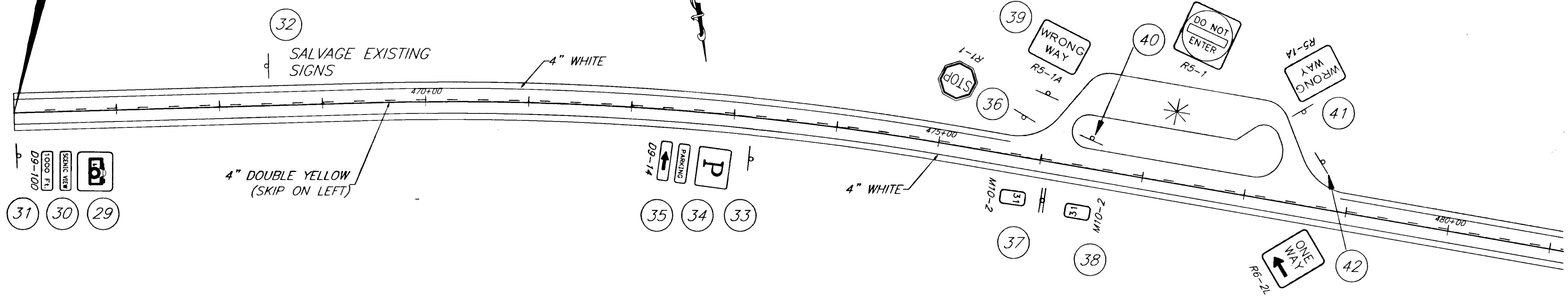
|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET K9             |



**BEGIN EXCEPTION**  
 STA. 437+73.90 P.O.T. BK=  
 STA. 438+50.34 P.O.T. AHD



**END EXCEPTION**  
 STA. 466+00.00 P.O.T. BK=  
 STA. 438+00.91 P.O.T. AHD



\* SEE SHEET H24 FOR  
 PARKING AREA STRIPING

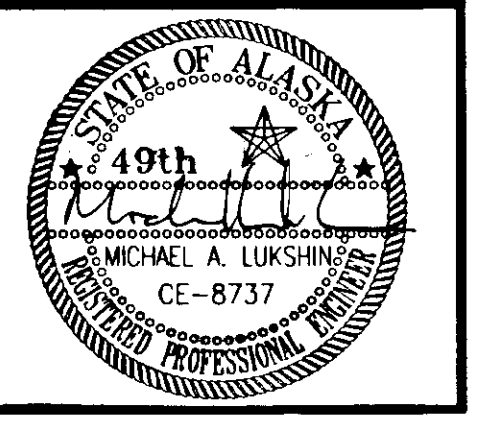
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

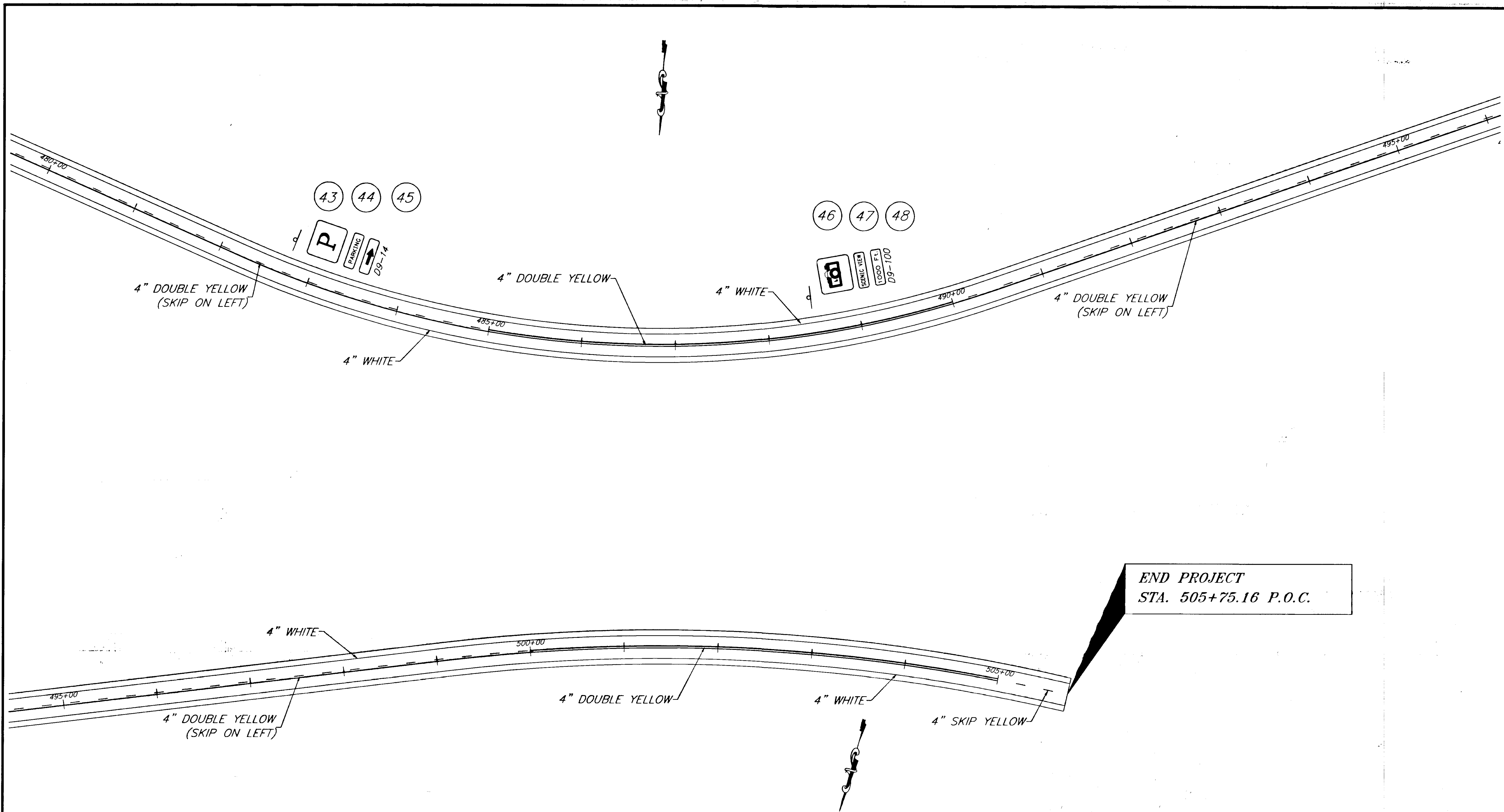
|   |       |                        |
|---|-------|------------------------|
| PATH: P:\HNS\67436\DR\ -SIGN&STRIPE VIEWS: 21,22,TB11 |       |                        |
| PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2)      |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |
| <b>RECORD OF REVISIONS</b>                            |       |                        |

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

HAINES  
 HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**SIGNING AND STRIPING PLAN**  
 STA. 432+00 TO 437+73.50 &  
 STA. 466+00 TO 480+00

|                                    |                      |
|------------------------------------|----------------------|
| DESIGNED BY:<br>C. HAKARI          | PROJECT NO.<br>71483 |
| DRAWN BY:<br>W. HICKOK             | DATE:<br>1998        |
| CHECKED BY:<br>T. MOORE/M. LUKSHIN | SHEET<br>K10         |





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|  |       |                        |
|--|-------|------------------------|
| PATH: P:\HNS\67436\DR\ -SIGN&STRIPE 23,24,TB12   |       |                        |
| PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2) |       |                        |
| BY:  | DATE: | DESCRIPTION OF CHANGE: |
| <b>RECORD OF REVISIONS</b>                       |       |                        |

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

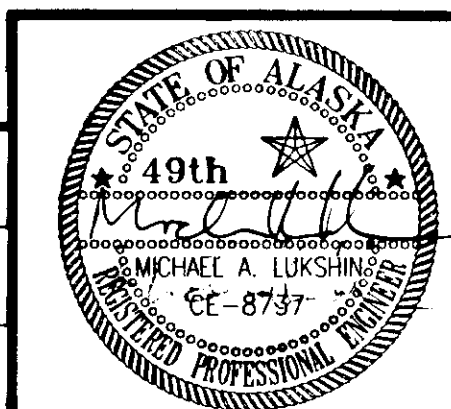
HAINES

HAINES HIGHWAY  
 MP 25.5 TO LITTLE BOULDER CREEK  
 PROJECT NO. NH-F-095-6(14) - 71483  
**SIGNING AND STRIPING PLAN**  
 STA. 480+00 TO 505+17.50 (B.O.P.)

ALASKA

DESIGNED BY:  
 C. HAKARI  
 DRAWN BY:  
 W. HICKOK  
 CHECKED BY:  
 T. MOORE/M. LUKSHIN

PROJECT NO.  
 71483  
 DATE:  
 1998  
 SHEET K11





# STANDARD SIGN SUMMARY

| LOCATION |           |        |     | SIGN            |                        |          |           | NO. OF POSTS | POST SIZE | TYPE | POST           |                | REMARKS                            |
|----------|-----------|--------|-----|-----------------|------------------------|----------|-----------|--------------|-----------|------|----------------|----------------|------------------------------------|
| SIGN NO. | STATION   | OFFSET |     | CODE NO. (ASDS) | LEGEND                 | SIZE     | AREA S.F. |              |           |      | EMBEDMENT TYPE | FACING TRAFFIC |                                    |
|          |           | LT.    | RT. |                 |                        |          |           |              |           |      |                |                |                                    |
| ①        | 212+05    |        | X   | M10-2           | 26                     | 6"X8"    | .67       | 1            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ②        | 212+05    |        | X   | M10-2           | 26                     | 6"X8"    | .67       |              |           |      |                | EB             | MOUNT ON SAME POST AS ①            |
| ③        | 217+10    |        | X   | R2-1            | SPEED LIMIT 55         | 30"X36"  | 7.5       | 2            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ④        | 217+10    | X      |     | R2-1            | SPEED LIMIT 55         | 30"X36"  | 7.5       | 2            | 2"X2"     | PST  | SEE NOTE 2     | EB             |                                    |
| ⑤        | 221+50    |        | X   | D3-2L           | ← PORCUPINE CROSSING   | 162"X24" | 27.0      | 2            | 6"X6"     | WOOD | SEE NOTE 2     | WB             | POSTS WIDER THAN 7'                |
| ⑥        | 225+00    | X      |     | R1-1            | STOP                   | 30"X30"  | 6.25      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | EB             |                                    |
| ⑦        | 230+50    | X      |     | D3-2R           | PORCUPINE CROSSING →   | 162"X24" | 27.0      | 2            | 6"X6"     | WOOD | SEE NOTE 2     | EB             | POSTS WIDER THAN 7'                |
| ⑧        | 264+85    |        | X   | M10-2           | 27                     | 6"X8"    | .67       | 1            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ⑨        | 264+85    |        | X   | M10-2           | 27                     | 6"X8"    | .67       |              |           |      |                | EB             | MOUNT ON SAME POST AS ⑧            |
| ⑩        | 271+25    |        | X   | D3-2R           | MOSQUITO LAKE RD. →    | 150"X24" | 25.0      | 2            | 6"X6"     | WOOD | SEE NOTE 2     | WB             | POSTS WIDER THAN 7'                |
| ⑪        | 277+25    |        | X   | R1-1            | STOP                   | 30"X30"  | 6.25      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | WB             |                                    |
| ⑫        | 281+20    | X      |     | D3-2L           | ← MOSQUITO LAKE RD.    | 150"X24" | 25.0      | 2            | 6"X6"     | WOOD | SEE NOTE 2     | EB             | POSTS WIDER THAN 7'                |
| ⑬        | 317+65    |        | X   | M10-2           | 28                     | 6"X8"    | .67       | 1            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ⑭        | 317+65    |        | X   | M10-2           | 28                     | 6"X8"    | .67       |              |           |      |                | EB             | MOUNT ON SAME POST AS ⑬            |
| ⑮        | 322+70    |        | X   | R2-1            | SPEED LIMIT 55         | 30"X36"  | 7.50      | 2            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ⑯        | 322+70    | X      |     | R2-1            | SPEED LIMIT 55         | 30"X36"  | 7.50      | 2            | 2"X2"     | PST  | SEE NOTE 2     | EB             |                                    |
| ⑰        | 363+15    |        | X   | OM-3R           | TYPE III OBJECT MARKER | 12"X36"  | 3.00      | 1            | 2"X2"     | PST  | SEE NOTE 2     | WB             | MOUNT AT END OF GUARDRAIL          |
| ⑱        | 363+15    | X      |     | OM-3R           | TYPE III OBJECT MARKER | 12"X36"  | 3.00      | 1            | 2"X2"     | PST  | SEE NOTE 2     | EB             | MOUNT AT END OF GUARDRAIL          |
| ⑲        | 363+30    |        | X   | I-3             | MUNCASTER CREEK        | 90"X36"  | 22.5      | 2            | 6"X6"     | WOOD | SEE NOTE 2     | WB             | POSTS WIDER THAN 7'                |
| ⑳        | 364+40    | X      |     | I-3             | MUNCASTER CREEK        | 90"X36"  | 22.5      | 2            | 6"X6"     | WOOD | SEE NOTE 2     | EB             | POSTS WIDER THAN 7'                |
| ㉑        | 364+55    |        | X   | OM-3L           | TYPE III OBJECT MARKER | 12"X36"  | 3.00      | 1            | 2"X2"     | PST  | SEE NOTE 2     | WB             | MOUNT AT END OF GUARDRAIL          |
| ㉒        | 364+55    | X      |     | OM-3L           | TYPE III OBJECT MARKER | 12"X36"  | 3.00      | 1            | 2"X2"     | PST  | SEE NOTE 2     | EB             |                                    |
| ㉓        | 370+45    |        | X   | M10-2           | 29                     | 6"X8"    | .67       | 1            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ㉔        | 370+45    |        | X   | M10-2           | 29                     | 6"X8"    | .67       |              |           |      |                | EB             | MOUNT ON SAME POST AS ㉓            |
| ㉕        | 402+00    | X      |     | R2-1            | SPEED LIMIT 55         | 30"X36"  | 7.50      | 2            | 2"X2"     | PST  | SEE NOTE 2     | EB             |                                    |
| ㉖        | 402+00    |        | X   | R2-1            | SPEED LIMIT 55         | 30"X36"  | 7.50      | 2            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ㉗        | 423+00    |        | X   | M10-2           | 30                     | 6"X8"    | .67       | 1            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ㉘        | 423+00    |        | X   | M10-2           | 30                     | 6"X8"    | .67       |              |           |      |                | EB             | MOUNT ON SAME POST AS ㉗            |
| ㉙        | 466+00    |        | X   | D9-100          | CAMERA SYMBOL          | 24"X24"  | 4.8       | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | WB             |                                    |
| ㉚        |           |        |     | D9-100          | SCENIC VIEW            | 24"X6"   | 1.00      |              |           | PST  | SEE NOTE 2     |                | MOUNT BELOW ㉙                      |
| ㉛        |           |        |     | D9-B            | 1000 Ft.               | 24"X6"   | 1.00      |              |           | PST  | SEE NOTE 2     |                | MOUNT BELOW ㉚                      |
| ㉜        | 468+80    |        |     |                 | SALVAGE EXIST. SIGN    |          |           |              |           | PST  | SEE NOTE 2     |                | SALVAGE AND RELOCATE EXISTING SIGN |
| ㉝        | 473+20    |        | X   | D9-14           | PARKING SYMBOL         | 24"X24"  | 4.00      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | WB             |                                    |
| ㉞        |           |        |     | D9-14           | PARKING                | 24"X6"   | 1.00      |              |           | PST  | SEE NOTE 2     |                | MOUNT BELOW ㉝                      |
| ㉟        |           |        |     | D9-L            | ←                      | 24"X6"   | 1.00      |              |           | PST  | SEE NOTE 2     | EB             | MOUNT BELOW ㉞                      |
| ㊱        | 476+00    | X      |     | R1-1            | STOP                   | 30"X30"  | 6.25      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | WB             |                                    |
| ㊲        | 476+05    |        | X   | M10-2           | 31                     | 6"X8"    | .67       | 1            | 2"X2"     | PST  | SEE NOTE 2     | WB             |                                    |
| ㊳        | 476+05    |        | X   | M10-2           | 31                     | 6"X8"    | .67       |              |           |      |                | EB             | MOUNT ON SAME POST AS ㊲            |
| ㊴        | 476+05    | X      |     | R5-1A           | WRONG WAY              | 30"X30"  | 2.25      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | EB             | DELETED                            |
| ㊵        | 476+27    | X      |     | R5-1            | DO NOT ENTER           | 30"X30"  | 2.25      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | EB             |                                    |
| ㊶        | 478+32    | X      |     | R5-1A           | WRONG WAY              | 30"X30"  | 2.25      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | EB             | DELETED                            |
| ㊷        | 478+45    | X      |     | R6-2L           | ← ONE WAY              | 30"X30"  | 5.0       | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | EB             |                                    |
| ㊸        | 482+50    | X      |     | D9-14           | PARKING SYMBOL         | 24"X24"  | 4.00      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | EB             |                                    |
| ㊹        |           |        |     |                 | PARKING                | 24"X6"   | 1.00      |              |           |      |                |                | MOUNT BELOW ㊸                      |
| ㊺        |           |        |     | D9-R            | →                      | 24"X6"   | 1.00      |              |           |      |                |                | MOUNT BELOW ㊹                      |
| ㊻        | 488+50    | X      |     | D9-100          | CAMERA SYMBOL          | 24"X24"  | 4.00      | 1            | 2.5"X2.5" | PST  | SEE NOTE 2     | EB             |                                    |
| ㊼        |           |        |     | D9-100          | SCENIC VIEW            | 24"X6"   | 1.00      |              |           |      |                |                | MOUNT BELOW ㊻                      |
| ㊽        |           |        |     | D9-B            | 1000 Ft.               | 24"X6"   | 1.00      |              |           |      |                |                | MOUNT BELOW ㊼                      |
| ㊾        | "E" 12+00 |        | X   | W5-3            | ONE LANE BRIDGE        | 30"X30"  | 6.25      | 1            | 2.5"X2.5" | PST  |                | WB             | INSTALL APPROX 100' FROM BRIDGE    |
| ㊿        | "E" 17+00 | X      |     | W5-3            | ONE LANE BRIDGE        | 30"X30"  | 6.25      | 1            | 2.5"X2.5" | PST  |                | EB             | INSTALL APPROX 100' FROM BRIDGE    |

## SIGNING NOTES

1. SIGNS SHALL BE INSTALLED SO THE BOTTOM OF THE SIGN PANEL IS 7 FEET ABOVE THE ROADWAY.
2. SEE STD. DWG. S-30.01 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
3. ALL SIGN POSTS SHALL BE TELESCOPING PERFORATED GALVANIZED SQUARE STEEL POSTS.
4. ALL WOOD POSTS SHALL BE PRESSURE TREATED.
5. ALL NEW SIGNS SHALL BE UNFRAMED UNLESS OTHERWISE NOTED.
6. ALL EXISTING SIGNS NOT BEING RELOCATED SHALL BE DISMANTLED BY THE CONTRACTOR AND STOCKPILED AT THE STATE OF ALASKA, D.O.T./P.F. MAINTENANCE STATION AS DIRECTED BY THE ENGINEER.
7. SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
8. REMOVE ALL EXISTING PIPELINE AERIAL MILE POST SIGNS.
9. REMOVE ALL EXISTING SNOW PLOW MARKERS AT GUARDRAIL END TERMINALS

### ADDITIONAL SIGNS

| LOCATION |         |        |          |                  |       |      |
|----------|---------|--------|----------|------------------|-------|------|
| SIGN NO. | STATION | OFFSET | CODE NO. | LEGEND           | SIZE  | AREA |
| 51       | 213+00  | RT     | 53-1     | SCHOOL BUS AHEAD | 36X36 | 9    |
| 52       | 233+00  | LT     | 53-1     | SCHOOL BUS AHEAD | 36X36 | 9    |
| 53       | 256+25  | RT     | 53-1     | SCHOOL BUS AHEAD | 36X36 | 9    |
| 54       | 273+00  | RT     | RM-070   | STORE SYMBOL     | 24X24 | 4    |
| 55       | 273+00  | RT     | RM-020   | TRAILER SYMBOL   | 24X24 | 4    |
| 56       | 273+00  | RT     |          | ←                | 24X6  | 1    |
| 57       | 281+25  | LT     | RM-070   | STORE SYMBOL     | 24X24 | 4    |
| 58       | 281+25  | LT     | RM-020   | TRAILER SYMBOL   | 24X24 | 4    |
| 59       | 281+25  | LT     |          | ←                | 24X6  | 1    |
| 60       | 283+00  | LT     |          | SCHOOL BUS AHEAD | 36X36 | 9    |
| 61       | 478+45  | LT     | R6-2R    | ONE WAY          | 18X24 | 3    |

|                                      |       |                        |
|--------------------------------------|-------|------------------------|
| PATH: P:\HNS\67436\DR\ - SIGNSUM 1=1 |       |                        |
| BY:                                  | DATE: | DESCRIPTION OF CHANGE: |
|                                      |       |                        |
| <b>RECORD OF REVISIONS</b>           |       |                        |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

HAINES  
HAINES HIGHWAY  
WELLS BRIDGE TO LITTLE BOULDER CREEK  
PROJECT NO. NH-F-095-6(14) - 71483  
**SIGNING SUMMARIES**

NOTE: DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

|                                     |                   |
|-------------------------------------|-------------------|
| ALASKA DESIGNED BY: C. HAKARI       | PROJECT NO. 71483 |
| DRAWN BY: C. ANDERSON               | DATE: 1998        |
| CHECKED BY: T.W. MOORE / M. LUKSHIN | SHEET K13         |

