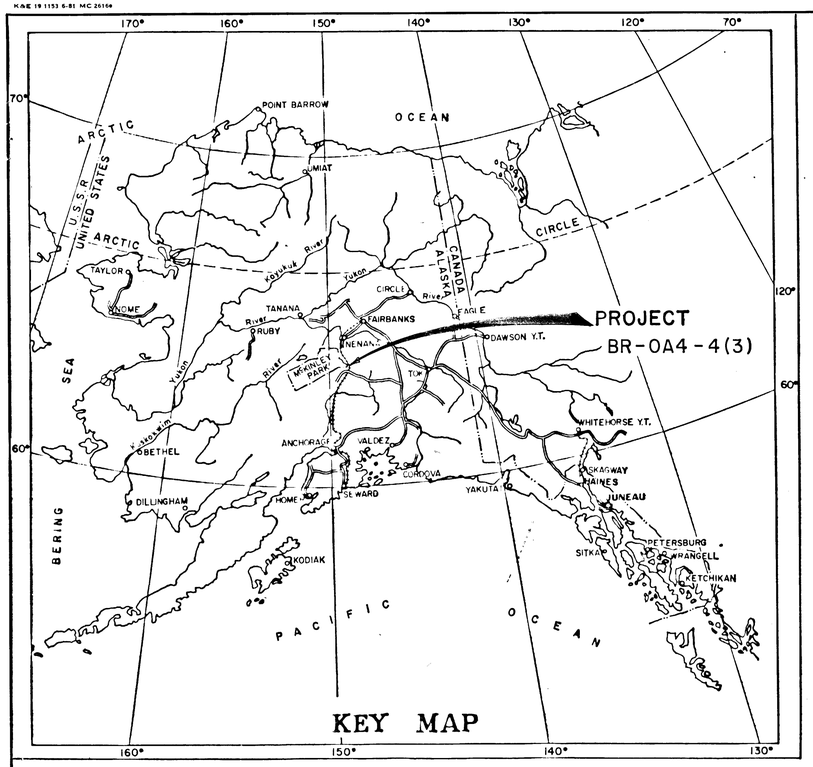
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0A4-4(3)	1986	1	12

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT



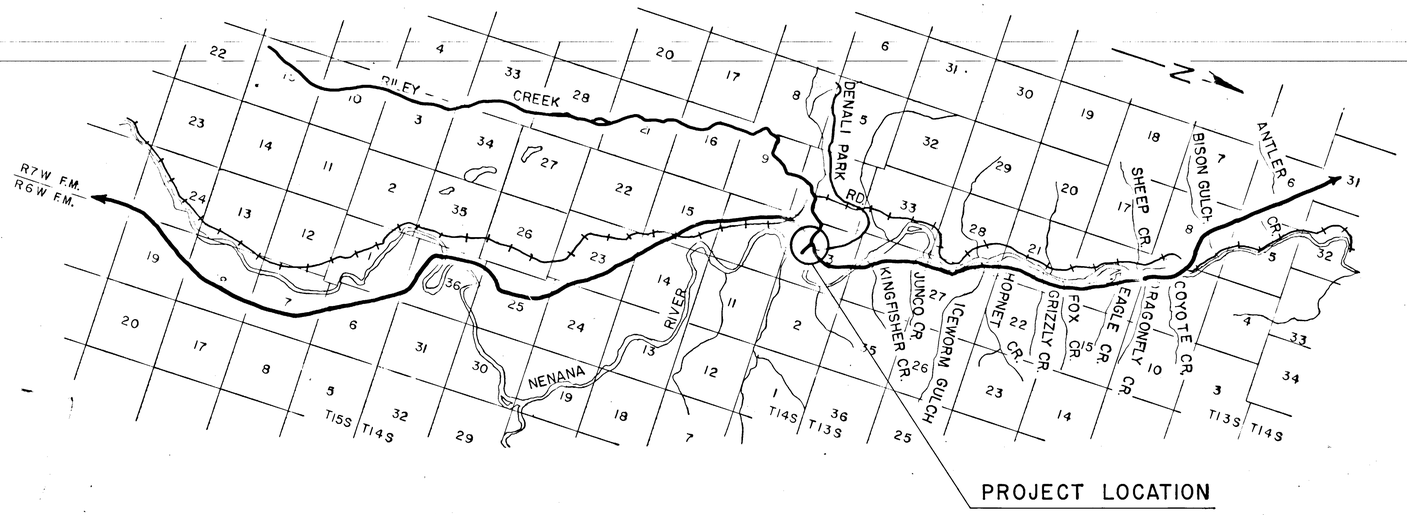
INDEX OF SHEETS

SHEET	DESCRIPTION
1	TITLE SHEET
2	GENERAL LAYOUT & ESTIMATE OF QUANTITIES
3	PIER DETAILS
4-5	LOG OF TEST HOLES
6-12	AS BUILT PLANS

The following Standard Drawings apply to this project:
A-1, C-01.02, C-02.00, C-03.01,

AS-BUILT PLANS

BR-0A4-4(3)/63323
RILEY CREEK BRIDGE REPAIR



DESIGN DESIGNATION

ADT	1986	1175
ADT	1996	1910
DHV	14 %	267
D		45/55
T		13 %
V		60

Field Work Began: 2-9-87
Field Work Ended: 4-27-87
Contractor: Lake Otis Nursery and Greenhouse
Resident Engineer: Nancy Shanley 1987

STATE OF ALASKA 49TH
Ralph Swarthout
CE 5037
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

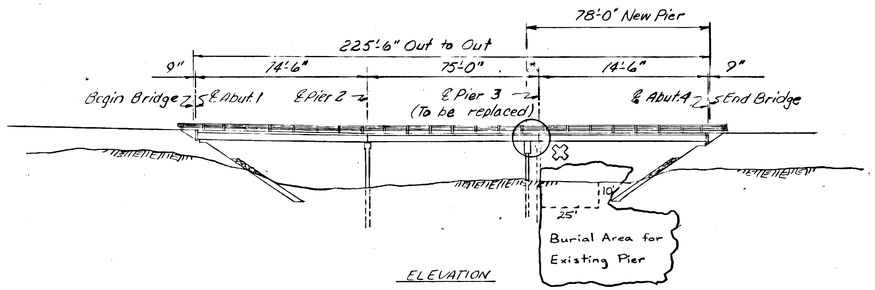
APPROVED
Stephen Lisiak Date 10/6/86
DESIGN CHIEF, NORTHERN REGION DESIGN & CONSTRUCTION

K&E 10 1153

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0A4- 4 (3)	1986	2	12

* Centerline Box Beam to Centerline Span 2/Span 3 Joint: Upstream 2'-10¾"
Downstream 2'-10¼"

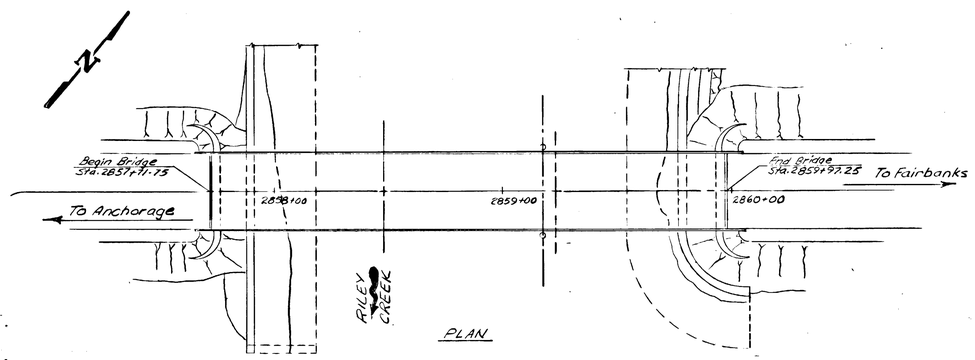
GRADE DATA (See As Built Plans)



ELEVATION

PILE TIP ELEVATIONS AT EXISTING PIER No.3						
Upstream Pile			℄ Pile			Dwn. Strm. Pile
1524.9	1527.5	1527.8	1525.3	1526.3	1525.1	1524.0

✠ Girders will have a hanger bar connection added @ existing Pier 3, see Drawing No. 2.



PLAN

RILEY CREEK GENERAL LAYOUT

INDEX

REPAIR PLANS — DWG. NO.

GENERAL LAYOUT 1
PIER DETAILS 2
LOG OF TEST HOLES 3,4

AS BUILT PLANS

GENERAL LAYOUT 1732
FOUNDATION PLAN 1733
ABUTMENT DETAILS 1734
WINGWALL DETAILS 1735
PIER DETAILS 1736
SUPERSTRUCTRUE DETAILS 1737
BRIDGE RAILING DETAILS 1738

GENERAL NOTES

SPECIFICATIONS (Design): AASHTO Standard Specifications for Highway Design, 1983, Edition, with latest interim specifications.

SPECIFICATIONS (Construction): State of Alaska Standard Specifications for Highway Construction, 1981, with Standard Modifications and the Special Provisions.

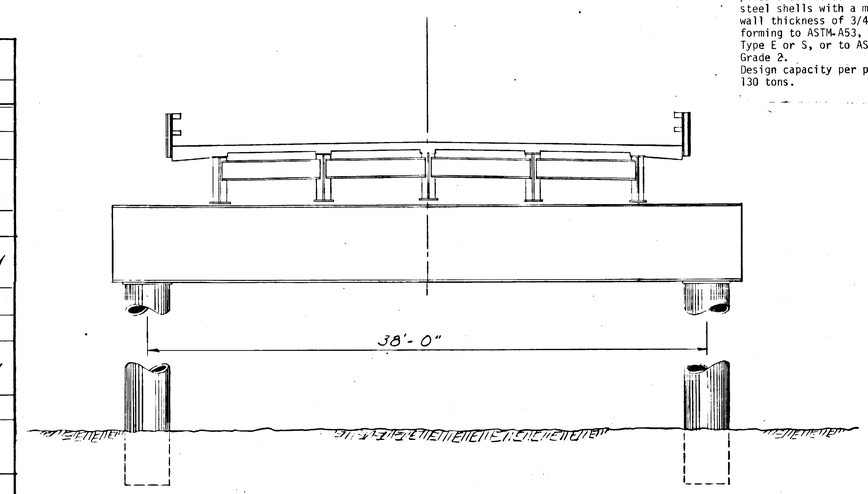
LIVE LOAD: HS20-44

UNIT STRESSES
Structural Steel: A36 F_y=36,000 psi F_s=20,000 psi
A572 F_y=50,000 psi F_s=27,000 psi

CONCRETE: All Concrete shall be Class A

STRUCTURAL STEEL: All structural steel shall be A36 unless otherwise noted.
All steel to steel connections shall be made with A325 bolts of the diameters shown.

PILING: All structural steel pipe piles shall be 36" diameter steel shells with a minimum wall thickness of 3/4" conforming to ASTM-A53, Grade B, Type E or S, or to ASTM A252, Grade 2.
Design capacity per pile is 130 tons.



TYPICAL SECTION

ESTIMATE OF QUANTITIES

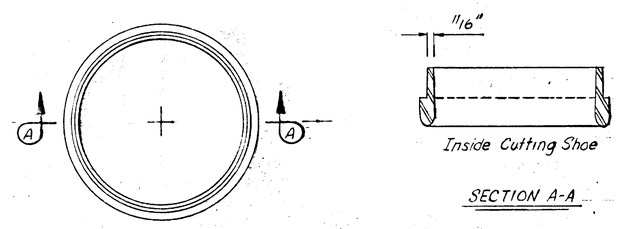
ITEM NO	ITEM	UNIT	QUANTITY
109(2)	DBE & WBE Adjustments	C.S.	All Required
110(1)	Mobilization	L.S.	All Required
114(1)	Const. Surveying by the Contractor	L.S.	All Required
115(1)	Traffic Maintenance	L.S.	All Required
202(1)	Removal of Structures and Obstructions	Lump Sum	All Required
* 504(1)	Structural Steel Furnished, Fabricated and Erected	Lump Sum	All Required
505(6P)	Structural Steel Pipe Piles, Driven	Each	2
505(6P)	Structural Steel Pipe Piles, Furnished	Linear Foot	~~131~~ 130.01

* Includes approximately 21,340 lbs A36

HYDRAULIC & HYDROLOGIC SUMMARY		
Flood Frequency	50 Year	100 Year
Exceedance Probability	2%	1%
Drainage Area	135 Sq. mi.	135 Sq. mi.
Design Discharge	5911 cfs	7362 cfs
Design High Water	1568.6 ft.	1569.1 ft.

Hydraulic capacity of the structure equals 96,438 c.f.s. at elevation 1583.0 ft. which has an exceedance probability equal to or less than .2%

Anticipated Backwater = 0 feet



SECTION A-A

STEEL PIPE PILE TIP REINFORCING
No Scale
(TYPICAL BOTH PILES)

Deleted: Used 1' x 3/4" steel ring welded flush with the end of the pile

AS-BUILT PLANS

RILEY CREEK BRIDGE REPAIR

ROUTE NO. F-52

GENERAL LAYOUT

No Scale

State of Alaska
DEPARTMENT OF TRANSPORTATION and PUBLIC FACILITIES
Juneau, Alaska

BRIDGE NO. 695
DWNG. NO. 1

STATE OF ALASKA 49TH Dean G. Griggs CE-4462 REGISTERED PROFESSIONAL ENGINEER

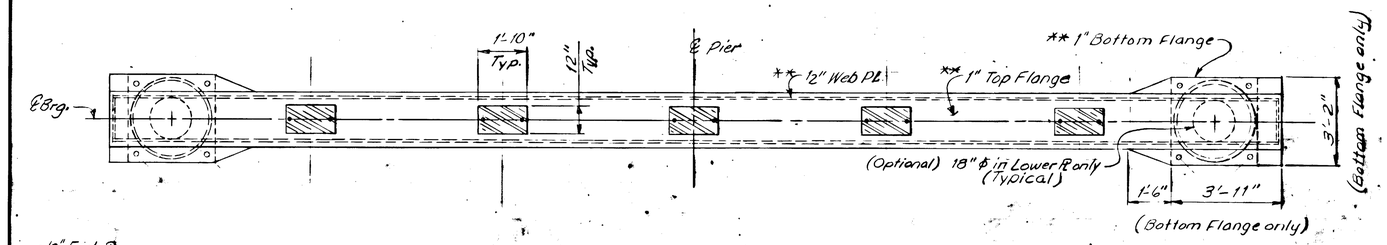
STATE OF ALASKA 49TH Karl Mielke No. CE 1203 REGISTERED PROFESSIONAL ENGINEER

Designed By: MDA Date: 8-86
Checked By: Date:
Drawn By: GLW Date: 8-86
Checked By: Date:
Traced By: Date:

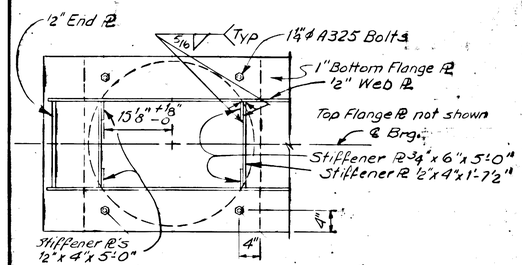
Addendum No.2, Attachment No.2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-OA4-4(3)	1986	3	12

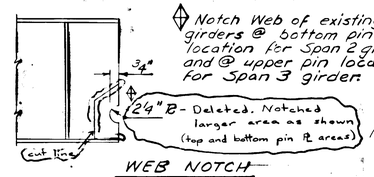
AS-BUILT PLANS



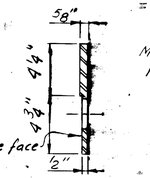
PLAN



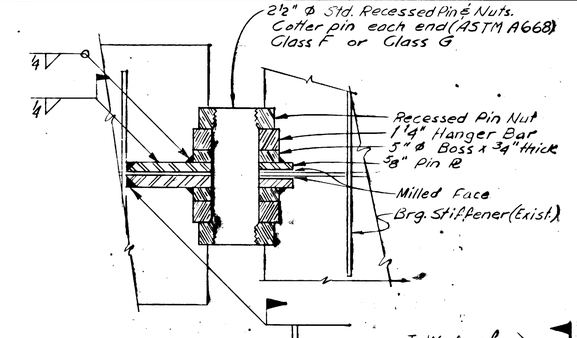
SECTION B-B



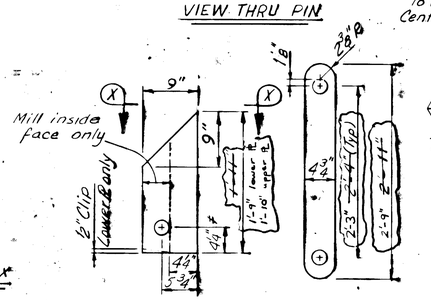
WEB NOTCH



SECTION X-X

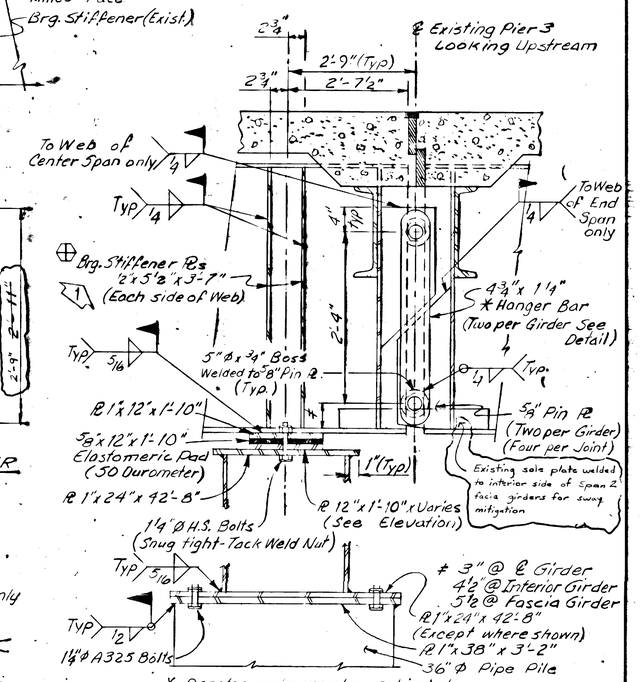


VIEW THRU PIN



PIN Pl's

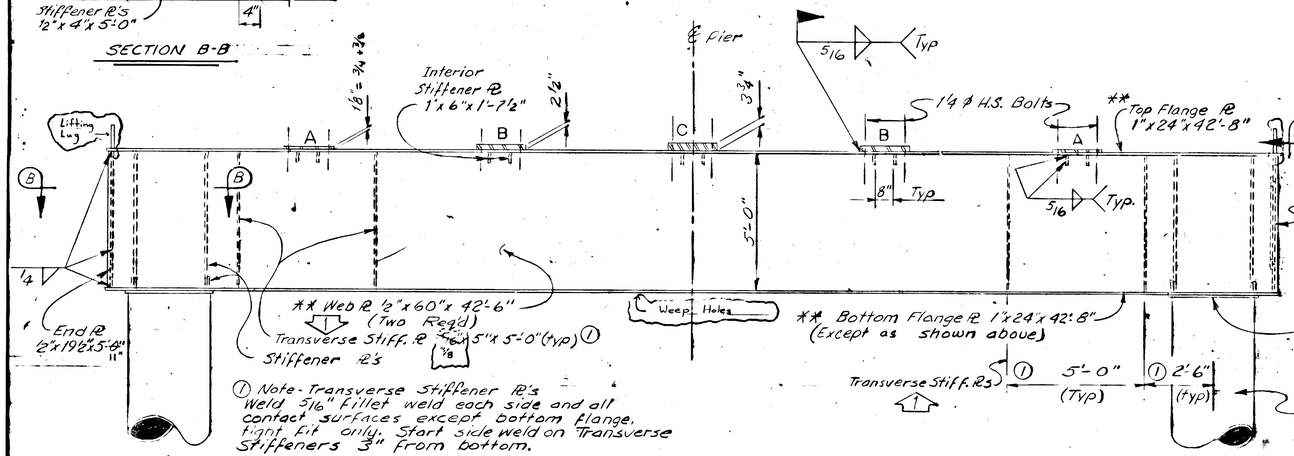
*HANGER BAR



* Denotes main member subject to tensile stress for Charpy Group 3 and non-destructive testing.

HANGER BAR DETAIL, BEARING & CAP DETAIL

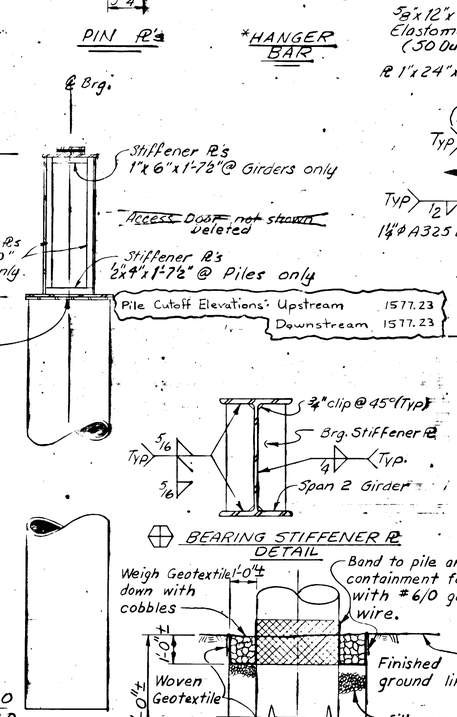
No Scale



① Note - Transverse Stiffener Pl's Weld 5/16" fillet weld each side and all contact surfaces except bottom flange. tight fit only. Start side weld on Transverse Stiffeners 3" from bottom.

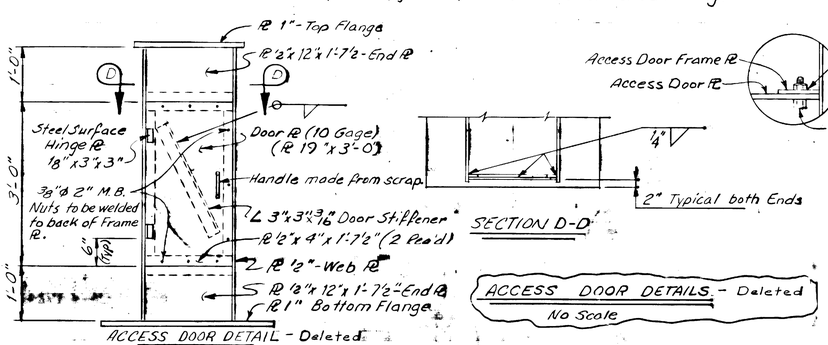
ELEVATION

** Denotes fracture critical member for Charpy Group 3 and non destructive testing.



VIEW A-A

BEARING STIFFENER Pl DETAIL

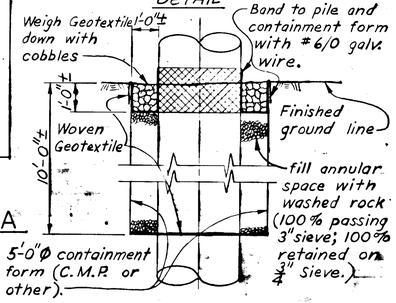


ACCESS DOOR DETAIL - Deleted

SECTION D-D

ACCESS DOOR DETAILS - Deleted

No Scale



PILE/FROST MITIGATION DETAIL

STATE OF ALASKA 49TH STATE Karl Nielke No. CE 1203 REGISTERED PROFESSIONAL ENGINEER

REVISIONS

JJP	9/86	1	Stiffeners Added
MDM	10/86		Pile/Frost Detail Added

RILEY CREEK BRIDGE REPAIR

ROUTE NO. F-52

PIER DETAILS

No Scale

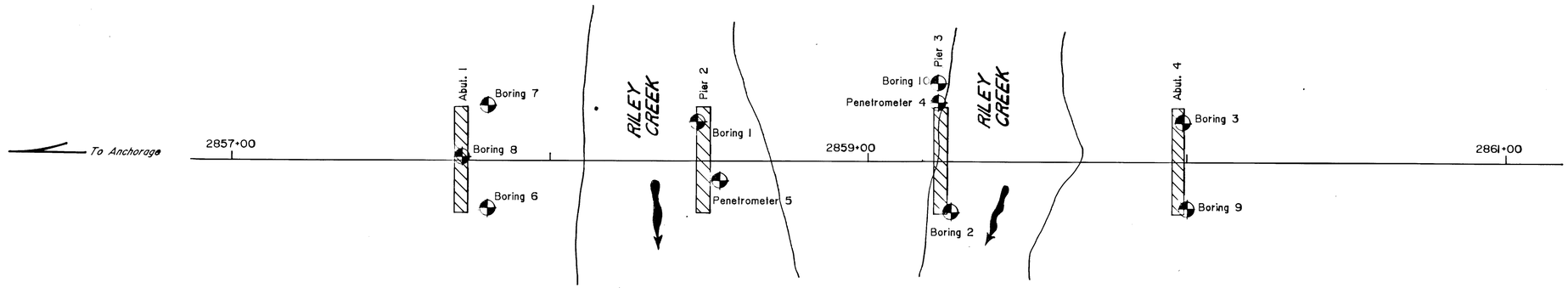
State of Alaska
DEPARTMENT OF TRANSPORTATION and PUBLIC FACILITIES
Juneau, Alaska

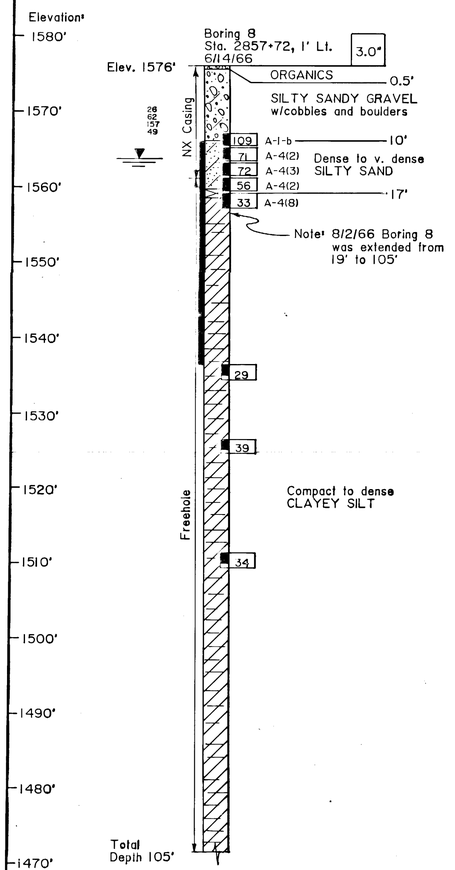
BRIDGE NO. 695

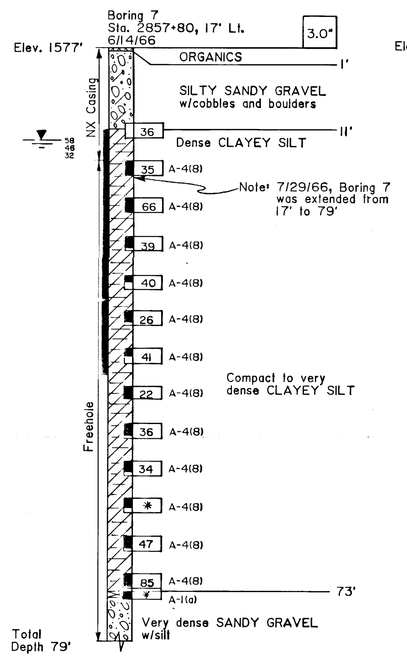
DWNG. NO. 2

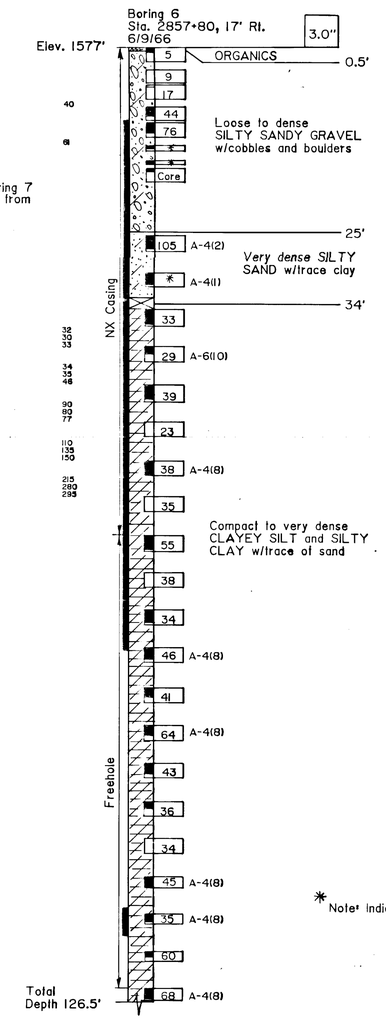
Designed By: MDM Date: 2-86
Checked By: Date:
Drawn By: GJM Date: 2-86
Checked By: Date:
Traced By: Date:

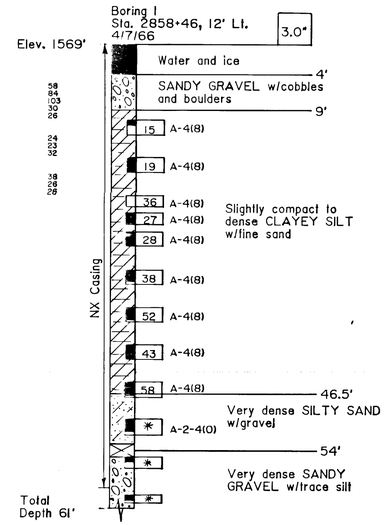
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0A4-4(3)	1986	4	12.

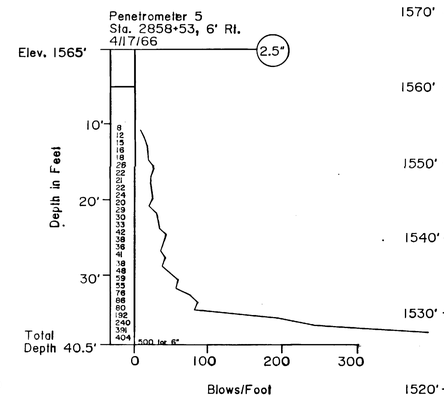












* Note: Indicates 100+ blows/foot or refusal.

BASIC MATERIALS SYMBOLS

Organic
Silt
Cobbles; Boulders
Clay
Gravel
Sand

Note: Significant soil mixtures are shown by combining soil symbols

TYPICAL TEST HOLE SYMBOLS

Plan View

Location of any hole

Section View

Rotary

Auger

Diamond Core

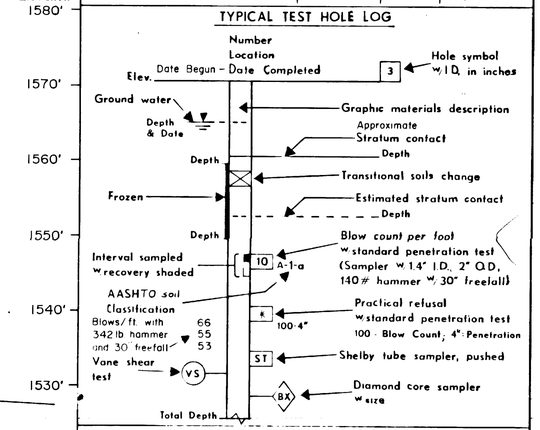
Penetrometer

RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

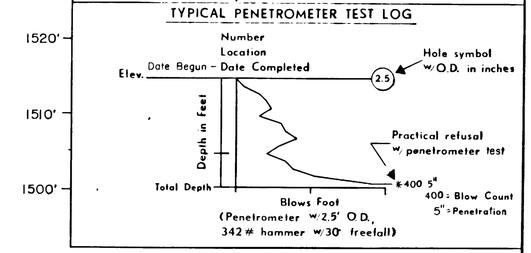
Based on Standard Penetration Test

GRANULAR		COHESIVE	
Blows/ft	Rel. Density	Blows/ft	Consistency
0 - 5	Very Loose	2	Very Soft
6 - 10	Loose	2 - 4	Soft
11 - 20	Firm	5 - 8	Medium
21 - 35	Compact	9 - 15	Stiff
36 - 50	Dense	16 - 30	Very Stiff
51 - 70	Very Dense	31 - 60	Hard
71 +	V Very Dense	61+	Very Hard

TYPICAL TEST HOLE LOG



TYPICAL PENETROMETER TEST LOG



1490'
1480'
1470'

AS-BUILT PLANS

STATE OF ALASKA
49TH
NO. 1349-E
REGISTERED PROFESSIONAL ENGINEER

SOIL GRAIN SIZE DEFINITIONS

Boulder (rounded) ..... >10" Diameter
Cobble (rounded) ..... 3" Diameter - 10" Diameter
Broken rock (angular) ..... >3" Diameter
Gravel (rounded); Stone (angular) ..... #10 Sieve - 3" Diameter
Sand ..... #200 Sieve - #10
Silt/clay ..... < #200 Sieve

Note: Soil classifications are visual only unless AASHTO soil class is shown on the log

LOG OF TEST HOLES

RILEY CREEK BRIDGE

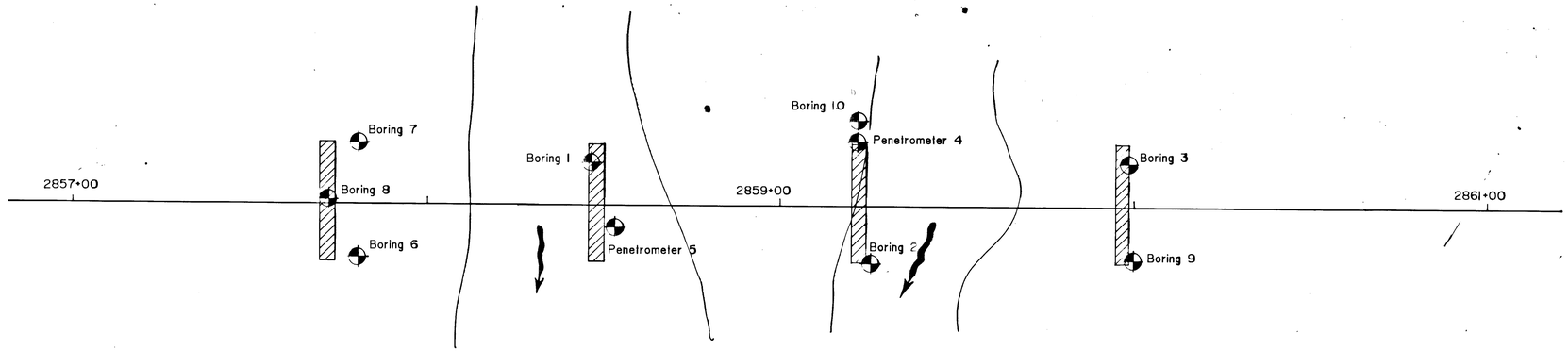
State of Alaska
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
Juneau, Alaska

Date July, 1986
Approved

BRIDGE NO. 695
DWNG. NO. 3

NORTHERN TRADING ASSOC 138-3 5-71 457984

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0A4-4(3)	1986	5	12



BASIC MATERIALS SYMBOLS

Organic
Cobbles; Boulders
Gravel
Sand
Silt
Clay

Note: Significant soil mixtures are shown by combining soil symbols

TYPICAL TEST HOLE SYMBOLS

Plan View
Location of any hole

Section View
Rotary
Auger
Diamond Core
Penetrometer

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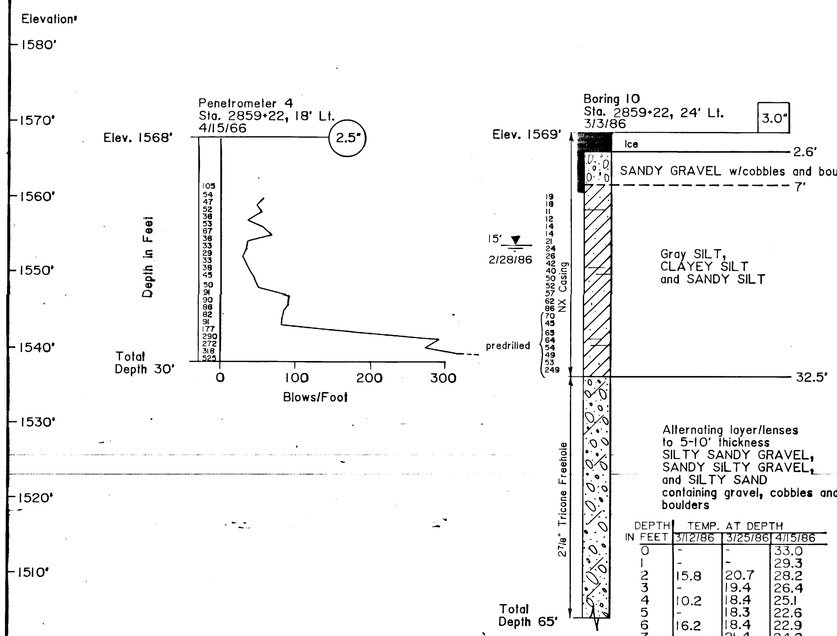
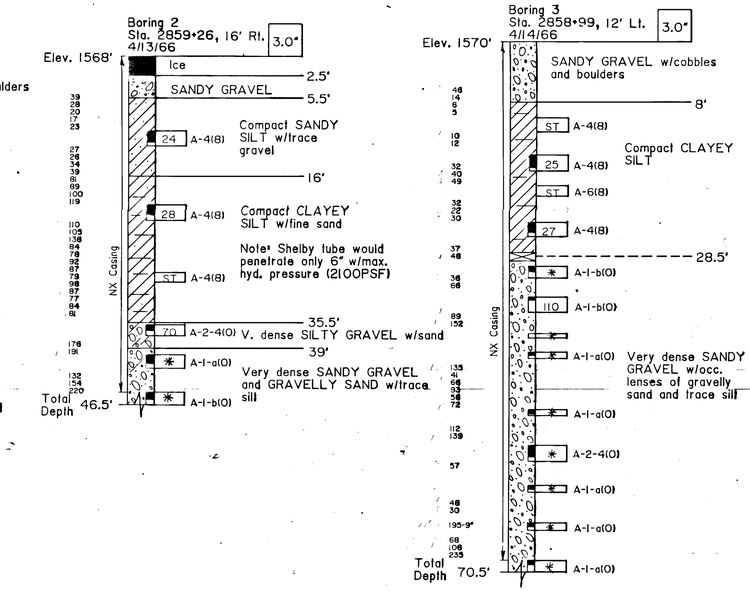
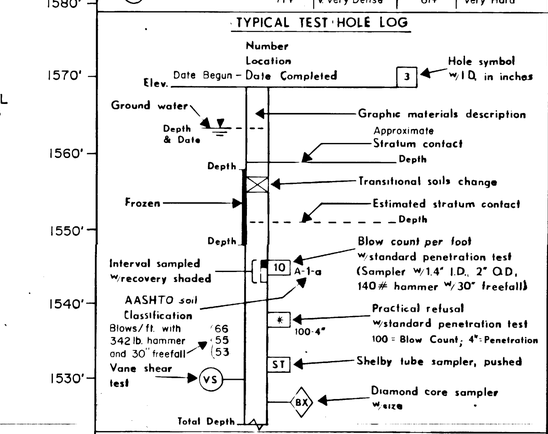
Based on Standard Penetration Test

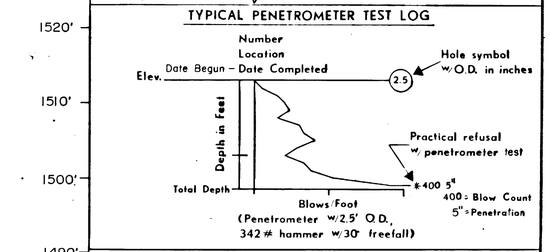
GRANULAR		COHESIVE	
Blows/ft	Rel. Density	Blows/ft	Consistency
0 - 5	Very Loose	2	Very Soft
6 - 10	Loose	2 - 4	Soft
11 - 20	Firm	5 - 8	Medium
21 - 35	Compact	9 - 15	Stiff
36 - 50	Dense	16 - 30	Very Stiff
51 - 70	Very Dense	31 - 60	Hard
71+	V Very Dense	61+	Very Hard



DEPTH IN FEET	TEMP. AT DEPTH 3/12/86	3/25/86	4/15/86
0	-	-	33.0
1	-	-	29.3
2	15.8	20.7	28.2
3	-	19.4	26.4
4	10.2	18.4	25.1
5	-	18.3	22.6
6	16.2	18.4	22.9
7	-	21.4	24.2
8	19.5	23.4	25.9
9	-	25.1	27.5
10	26.2	27.0	29.4
11	-	28.8	30.9
12	25.5	30.5	31.9
13	-	31.8	32.4
14	31.92	32.3	32.7
15	-	32.7	33.0
16	33.2	33.0	33.2
18	33.7	33.5	33.6
20	34.03	33.9	33.9
22	34.3	34.2	34.2
24	34.43	34.4	34.4
26	34.6	34.5	34.6
28	34.7	34.7	34.7
30	34.78	34.8	34.8
32	34.83	34.8	34.8
34	34.85	34.85	34.9
36	34.87	34.9	34.9
38	34.9	34.9	34.9
40	34.92	34.9	34.95
41	-	-	34.97
42	34.93	34.95	
43	-	34.95	
43.5	34.94		







AS-BUILT PLANS

STATE OF ALASKA
49TH
NO. 1349-E
REGISTERED PROFESSIONAL ENGINEER

SOIL GRAIN SIZE DEFINITIONS

Boulder (rounded)_____>10" Diameter
Cobble (rounded)_____3" Diameter - 10" Diameter
Broken rock (angular)_____>3" Diameter
Gravel (rounded); Stone (angular)___#10 Sieve - 3" Diameter
Sand_____#200 Sieve – #10
Silt/clay_____<#200 Sieve

Note: Soil classifications are visual only unless AASHTO soil class is shown on the log.

LOG OF TEST HOLES

RILEY CREEK BRIDGE

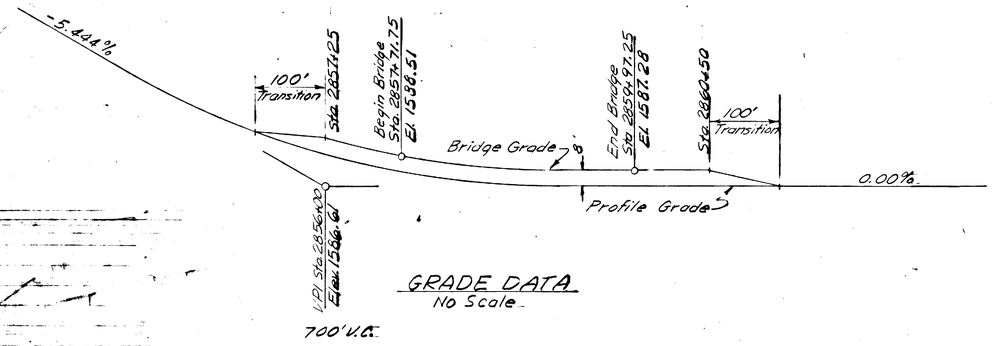
State of Alaska
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
Juneau, Alaska

Date July, 1986
Approved

BRIDGE NO. 695
DWNG. NO. 4

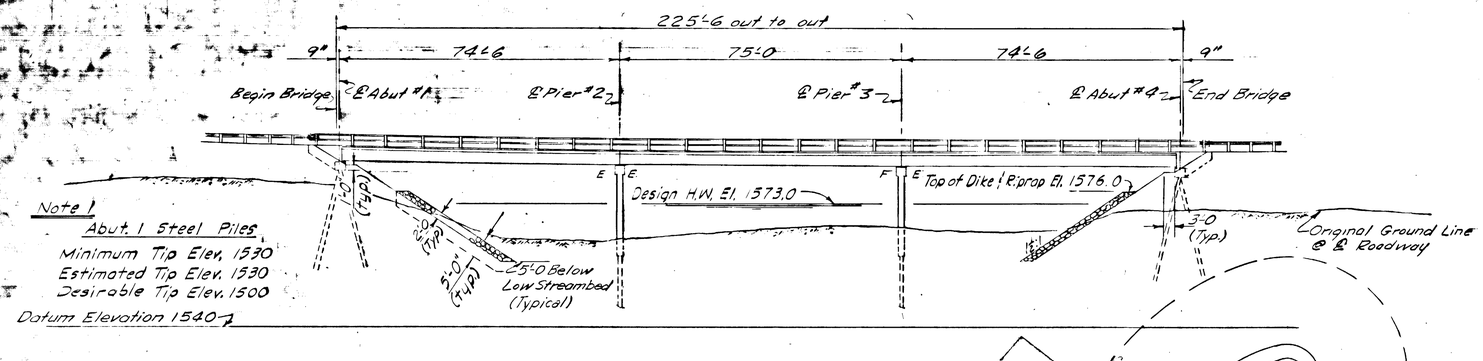
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F - 037 - 2 (14)	1967	32	77**
	BR-OA4-4 (3)	1986	6	12

AS BUILT PLANS
J. Chalupnik 1967
J. Lane Date 1968-69
Project Engineer
No Changes CORRECTIONS TRANSFERED
Tracings CSS Date 11-70
Checked LAC Date 11-70



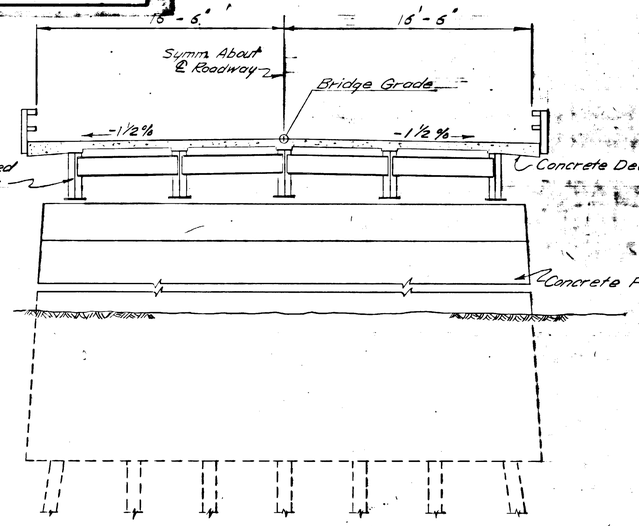
GRADE DATA
No Scale

PILE TIP ELEVATIONS		
Location	Desirable	Estim.
Abut. 1	See Note 1	
Pier 2	1522	1517
Pier 3	1532	1527
Abut. 4	1540	1535

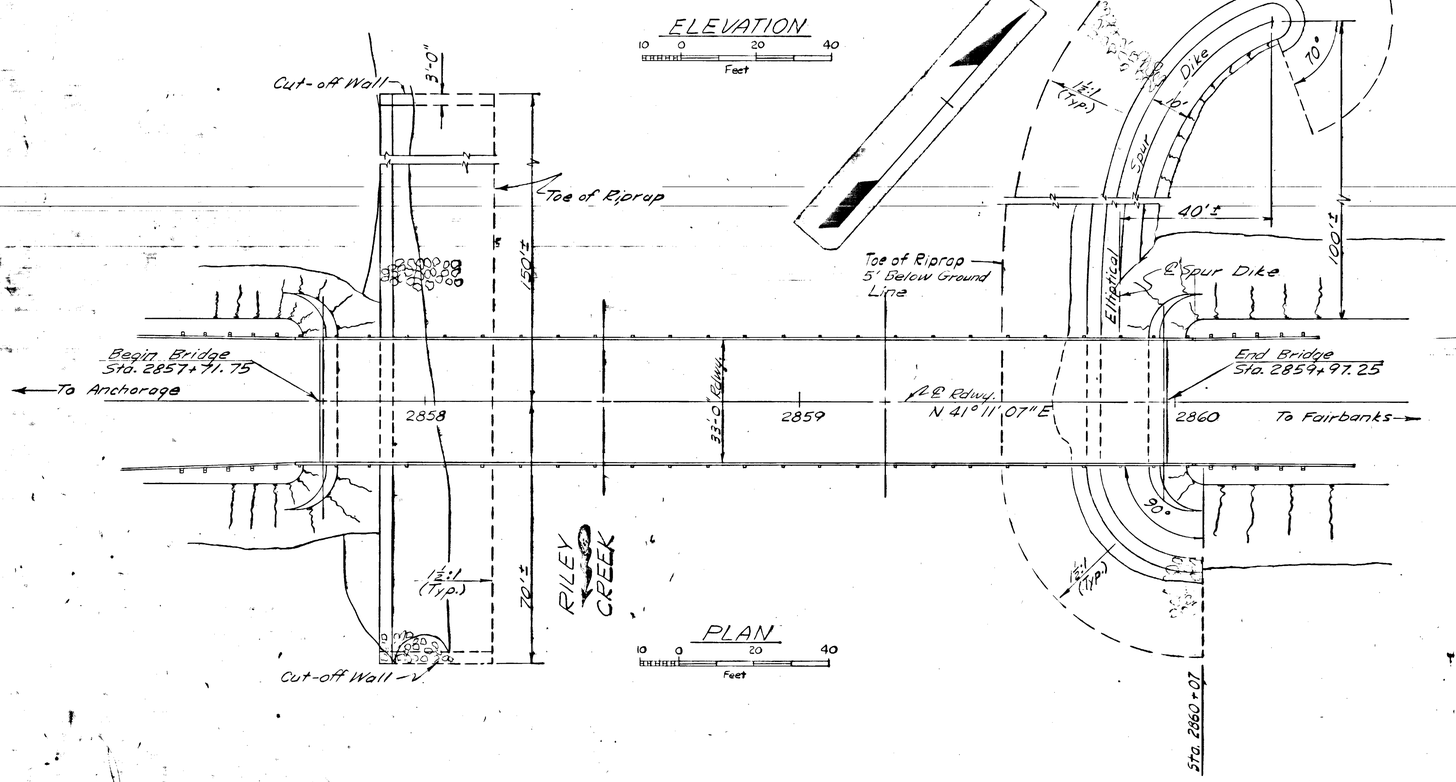


Note 1
Abut. 1 Steel Piles
Minimum Tip Elev. 1530
Estimated Tip Elev. 1530
Desirable Tip Elev. 1500

ELEVATION
10 0 20 40
Feet



TYPICAL SECTION
1 0 5 10 15
Feet



PLAN
10 0 20 40
Feet

TOTAL ESTIMATED QUANTITIES					AS BUILT
ITEM	QUANTITIES				
	UNIT	SUPER.	SUBSTR.	TOTAL	
Class I, Excavation for Structures	Cu. Yd.		100	100	55.44
Structural Steel Piles Furnished & Driven	Lin. Ft.		1104	1104	1266.7
Removal of Structures and Obstructions	Lump Sum			All Req'd.	
Class "A" Concrete	Cu. Yd.	180.9	124.7	305.6	
Reinforcing Steel	Lb.	37,520	14,440	51,960	
Structural Steel, Furnished, Fabricated & Erected	Lb.	141,940		141,940	
Bridge Railing	Lin. Ft.	480		480	
Riprap (Class II)	Cu. Yd.			1260	

DRAWING INDEX

DESCRIPTION	DWG. NO.
GENERAL LAYOUT	1732
FOUNDATION PLAN	1733
ABUTMENT DETAILS	1734
WINGWALL DETAILS	1735
PIER DETAILS	1736
SUPERSTRUCTURE DETAILS	1737
BRIDGE RAILING DETAILS	1738
LOG OF TEST BORING NO. 1	1739
LOG OF TEST BORING NO. 2	1740

RILEY CREEK BRIDGE
Route No. F-52
GENERAL LAYOUT

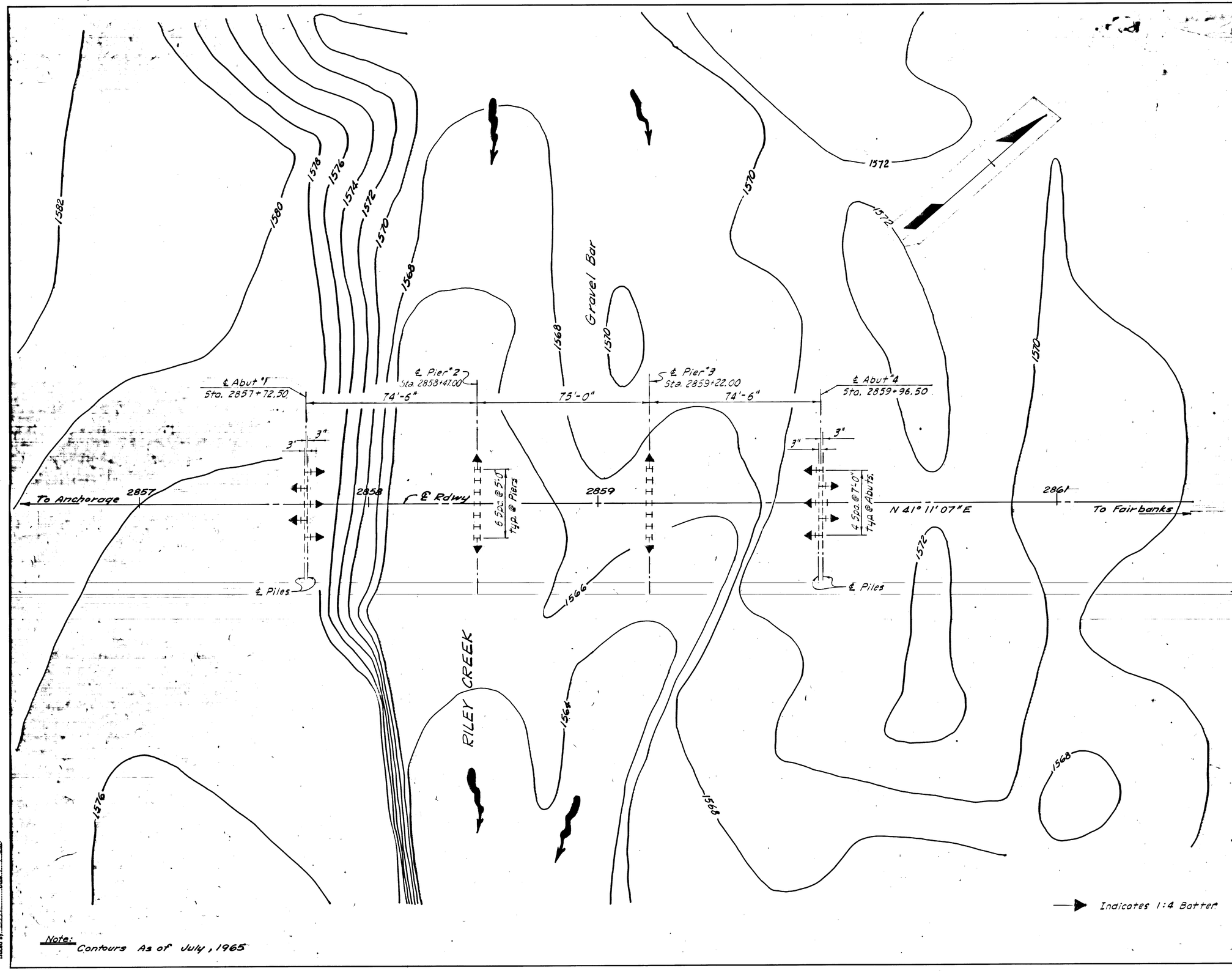
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 5/16/67
Approved [illegible]

BRIDGE NO. 695
DWNG. NO. 1732

Traced By: Date:

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F - 037 - 2 (14)	1967	33	77
	BR-0A4-4 (3)	1986	7	12



Note: Contours As of July, 1965

GENERAL NOTES

Specifications:

Design: A. A. S. H. O. Standard Specifications for Highway Bridges, 1961 Edition with revisions.

Construction: State of Alaska Standard Specifications for Highway Construction, July, 1965, and the Special Provisions.

Live Load: HS20-44

Unit Stresses:

Reinforced Concrete: Fc = 1,200 psi, Fs = 20,000 psi, N = 10.

Structural Steel: Bending stress in extreme fiber.

Type of Steel	Thickness	Allowable Stress
A-36	All	20,000 psi
A-441	3/4" & Under	27,000 psi

Concrete: All concrete shall be Class "A" with a minimum compressive strength of 3,000 psi at 28 days.

Reinforcing Steel: All reinforcing steel shall be intermediate grade.

Structural Steel: Bottom flange plates of girders shall be A-441 steel. All other structural steel shall be A-36 unless otherwise shown on the plans or noted in the specifications. Field connections shall be made with 7/8" ϕ high strength bolts conforming to ASTM A-325 except as otherwise shown.

Piles: Type: 10BP57 steel piles.
Design Load: 40 tons - abutment piles
45 tons - pier piles

AS BUILT PLANS
J. Cholupnik 1967
J. Lane Date 1968-69
Project Engineer
No changes CORRECTIONS TRANSFERED
Tracings CLS Date 11-70
Checked LBC Date

RILEY CREEK BRIDGE

Route No. F-52

FOUNDATION PLAN

10 0 20 40
Feet

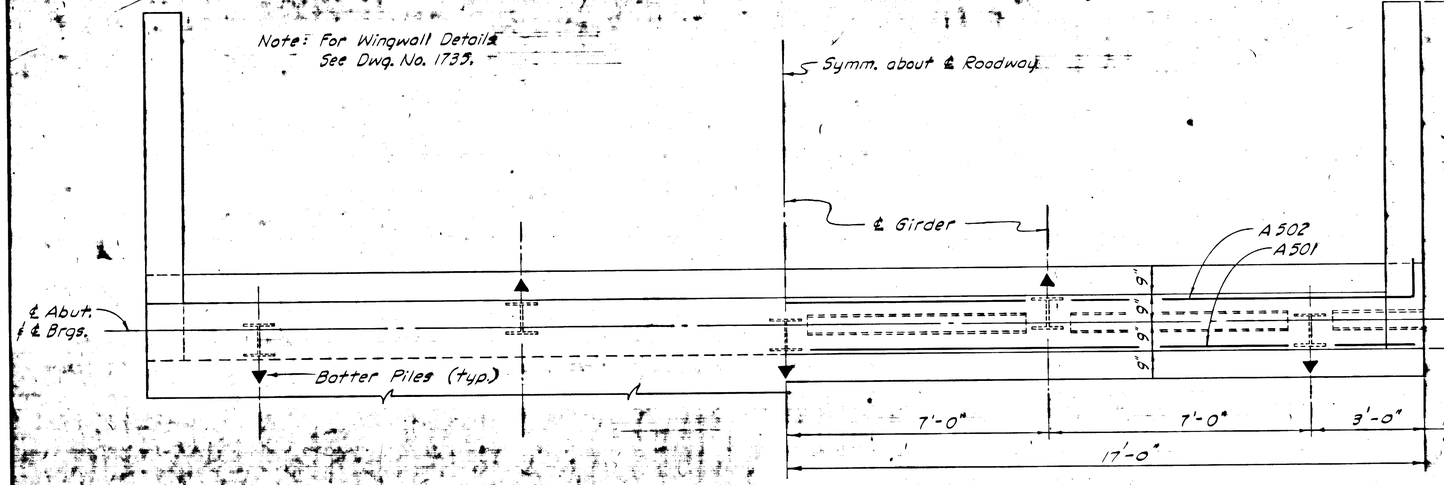
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 5/10/67
Approved

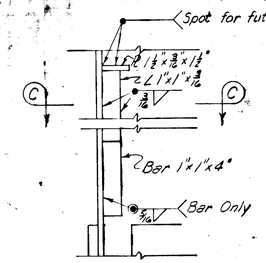
BRIDGE NO. 695
DWNG. NO. 1733

Traced By: DKP Date: 1-7-66

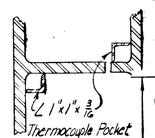
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F - 037 - 2 (14)	1967	34	77
	BR-0A4-4 (3)	1986	8	12



PLAN



DETAIL "B"
not to scale



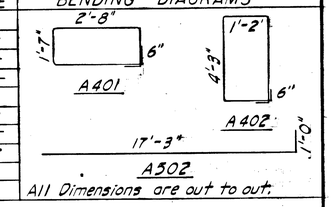
SECTION C-C
not to scale

Note: Install Thermocouple Pockets on the three forward battered piles at Abutment No. 1 only.

REINFORCING STEEL — ONE ABUTMENT

LOCATION	MARK	NO.	SIZE	LENGTH	TYPE
Cap	A401	34	4	9'-6"	Bent
	A601	34	6	3'-6"	—
	A801	10	8	33'-6"	—
Backwall	A402	32	4	11'-10"	Bent
	A501	5	5	33'-6"	—
	A502	10	5	18'-3"	Bent

BENDING DIAGRAMS



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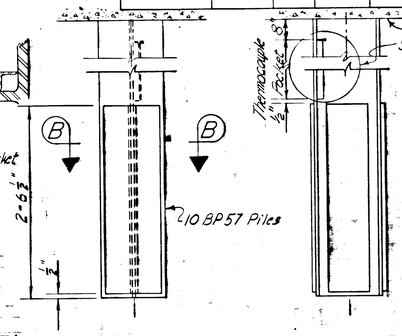
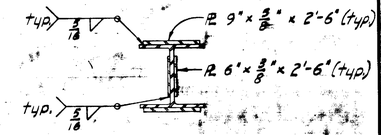


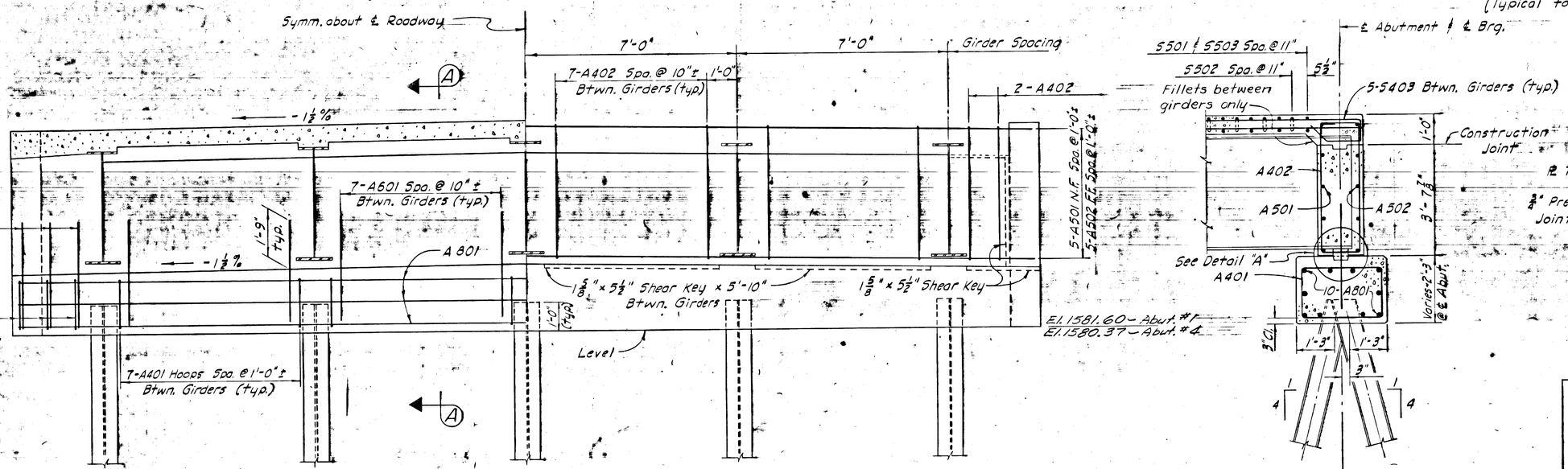
PILE TIP DETAILS

(Typical for all Piles except as noted)



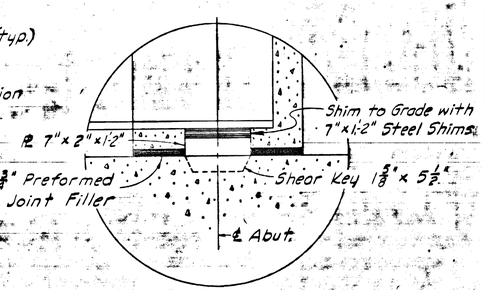
SECTION B-B

Note: Welding may be done in Shop or field.



ELEVATION

SECTION A-A



DETAIL "A"
No Scale

RILEY CREEK BRIDGE

ROUTE NO. F-52

ABUTMENT DETAILS

12 0 1 2 3 4 5 in. Feet

Except as noted.

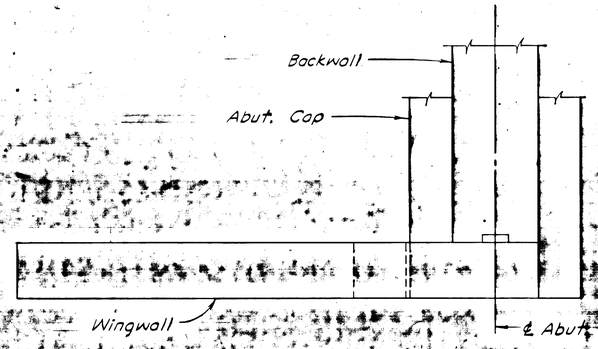
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 5/10/67
Approved

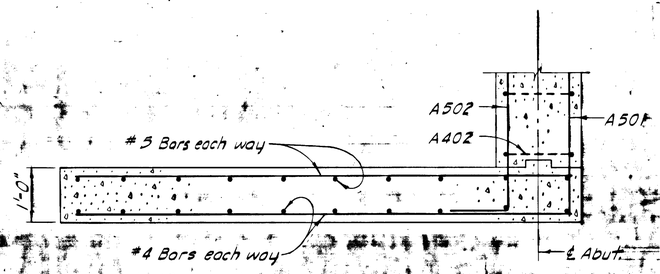
BRIDGE NO. 695
DWNG. NO. 1734

Checked By DJV Date 8/1/66
Traced By RK Date 8/1/66

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F - 037 - 2 (14)	1967	35	77
	BR-0A4-4 (3)	1986	9	12



PLAN

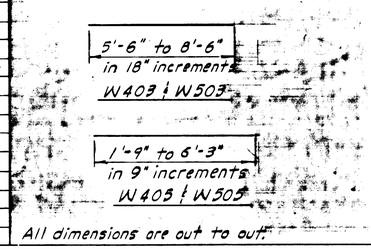


SECTION B-B

REINFORCING STEEL — ONE WINGWALL

MARK	NO.	SIZE	LENGTH	TYPE
W401	1	4	8'-3"	Bent
W402	1	4	2'-0"	—
W403	3	4	Varies	—
W404	1	4	8'-11"	—
W405	7	4	Varies	—
W406	1	4	6'-3"	—
W407	2	4	4'-3"	—
W501	1	5	8'-3"	Bent
W502	1	5	2'-0"	—
W503	3	5	Varies	—
W504	2	5	8'-11"	—
W505	7	5	Varies	—
W506	1	5	6'-3"	—
W507	2	5	4'-3"	—
W601	3	6	8'-11"	

BENDING DIAGRAMS



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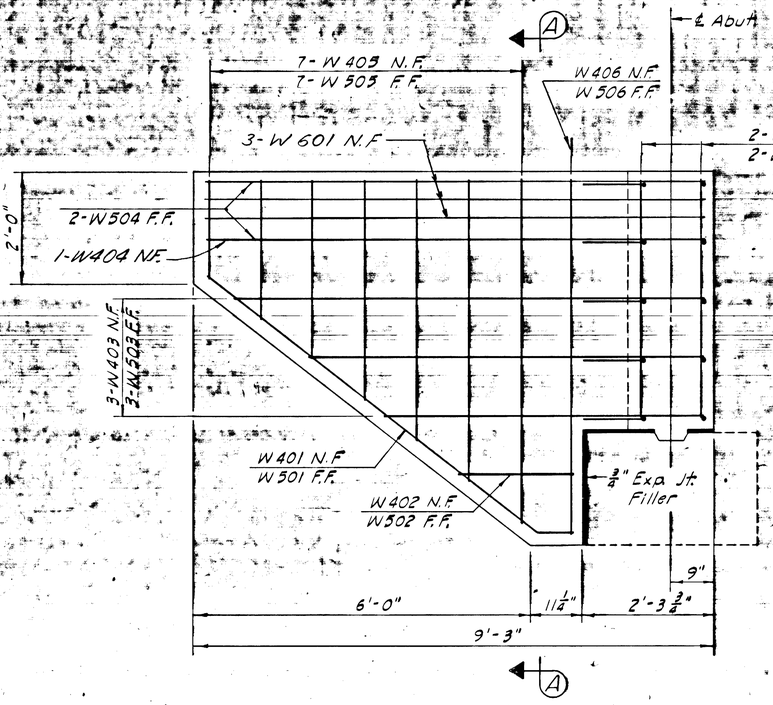
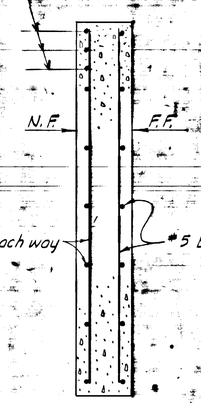
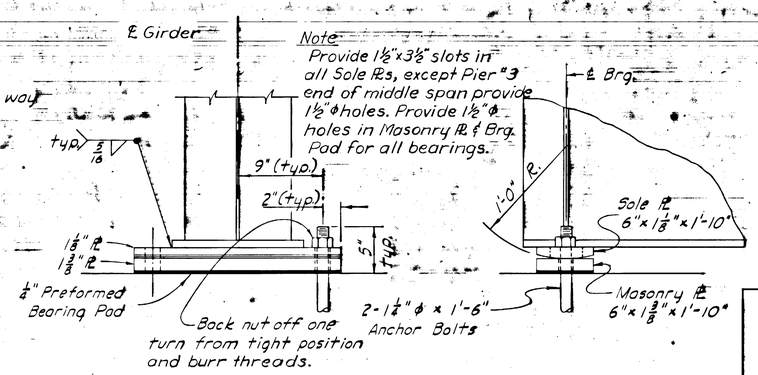


ELEVATION



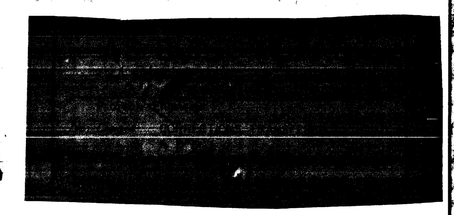
SECTION A-A



PIER BEARING DETAILS

12 6 0 1 2
Inches Feet

(20 Req'd.)



RILEY CREEK BRIDGE

ROUTE NO. F-52

WINGWALL DETAILS

12 6 0 1 2 3 4
Inches Feet

Except as noted.

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 5/10/62
Approved [signature]

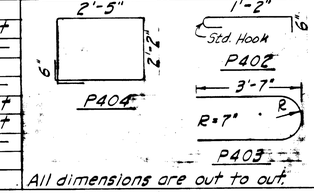
BRIDGE NO. 695
DWNG. NO. 1735

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F - 037 - 2 (14)	1967	36	77
	BR-0A4-4 (3)	1986	10	12

REINFORCING STEEL — ONE PIER

LOCATION	MARK	NO.	SIZE	LENGTH	TYPE
Cap	P404	31	4	10'-2"	Bent
	P801	8	8	30'-6"	—
Shaft	P401	42	4	30'-0"	—
	P402	136	4	2'-2"	Bent
	P403	42	4	7'-10"	Bent
	P701	64	7	21'-6"	—

BENDING DIAGRAMS



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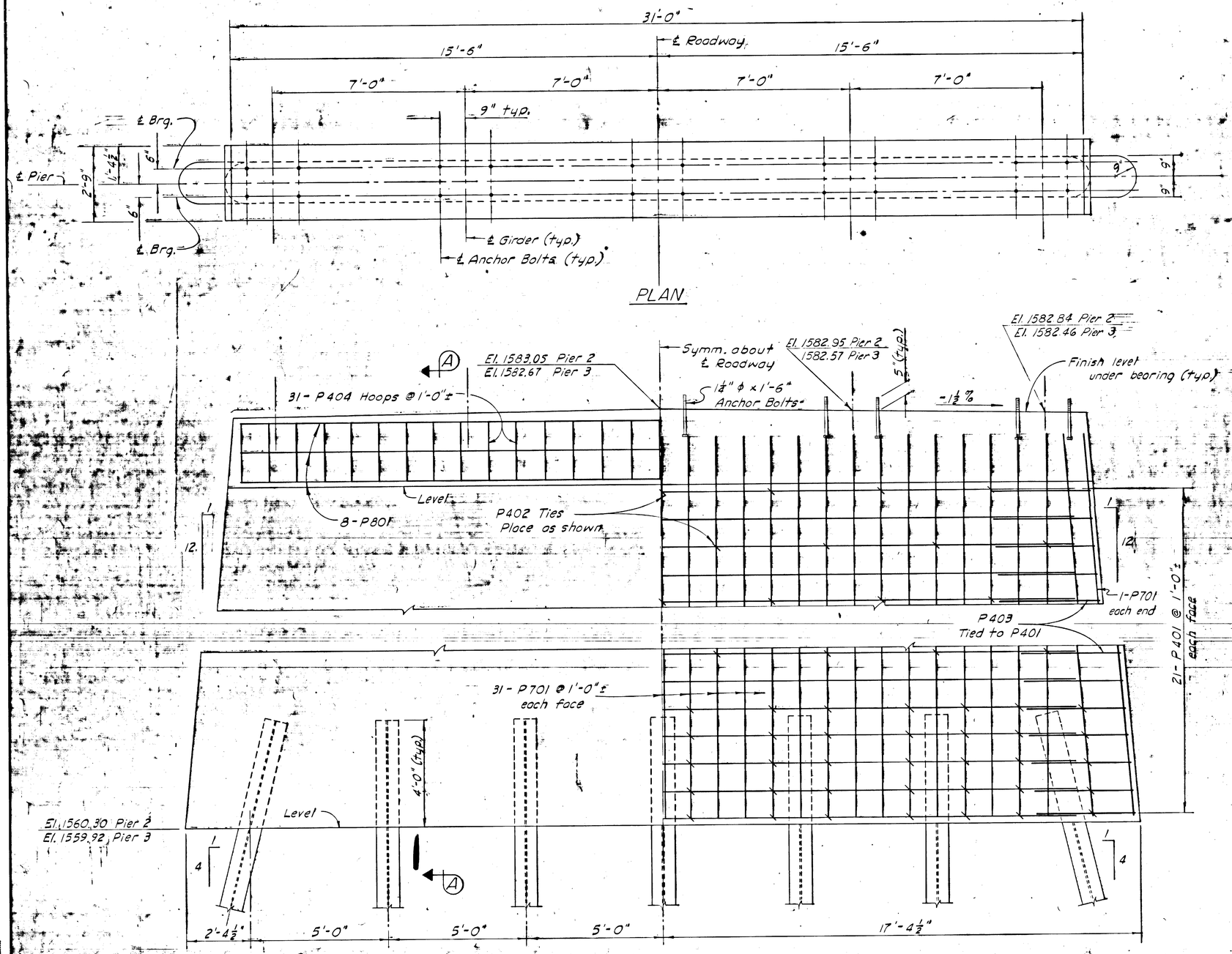
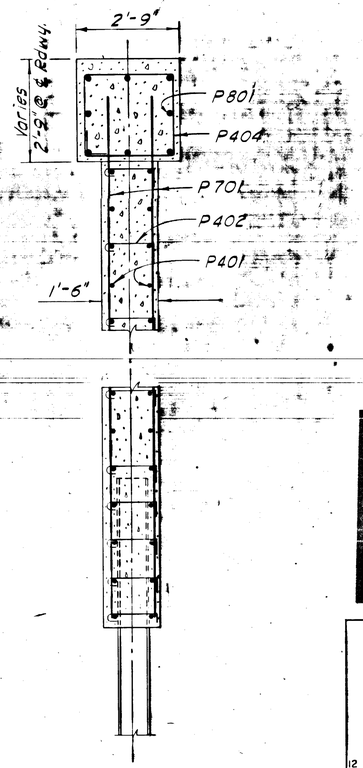




RILEY CREEK BRIDGE

ROUTE NO. F-52

PIER DETAILS

12 0 1 2 3 4 5
In. Feet

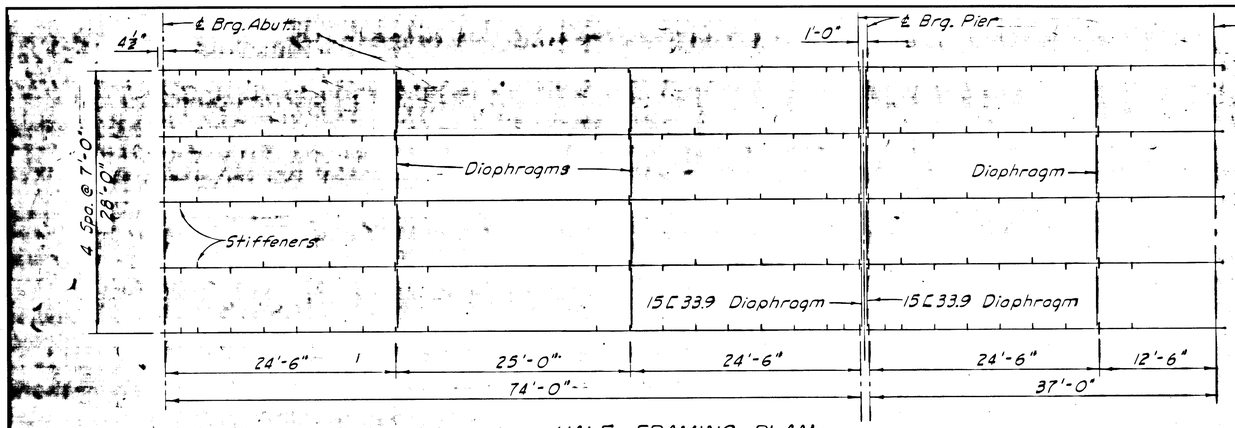
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 5/10/67
Approved

BRIDGE NO. 695
DWNG. NO. 1736

Checked By: Date:
Traced By: Date:

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0A4-4 (3)	1986	11	12	ALASKA	F-037-2(14)	1967	37	77



HALF FRAMING PLAN

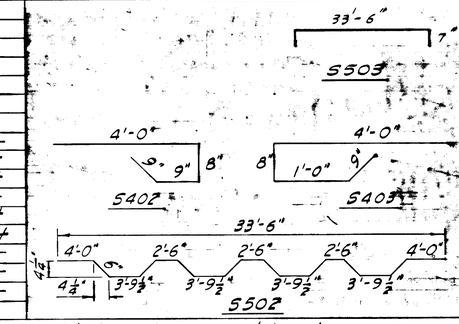
No Scale

AS BUILT PLANS
J. Chalupnik
J. Lane Date 1967 1968-69
Project Engineer
No Changes CORRECTIONS TRANSFERED
Tracings CSS Date 11-70
Checked LAE Date 11-70

SLAB REINFORCING STEEL

MARK	NO.	SIZE	LENGTH	TYPE
S401	150	4	38'-0"	—
S402	80	4	6'-2"	Bent
S403 (Abut)	40	4	6'-5"	Bent
S501	240	5	33'-6"	—
S502	237	5	34'-8"	Bent
S503	240	5	34'-8"	Bent
S504	168	5	38'-0"	—
S601	12	6	33'-6"	—
S602	32	6	6'-6"	—

BENDING DIAGRAMS



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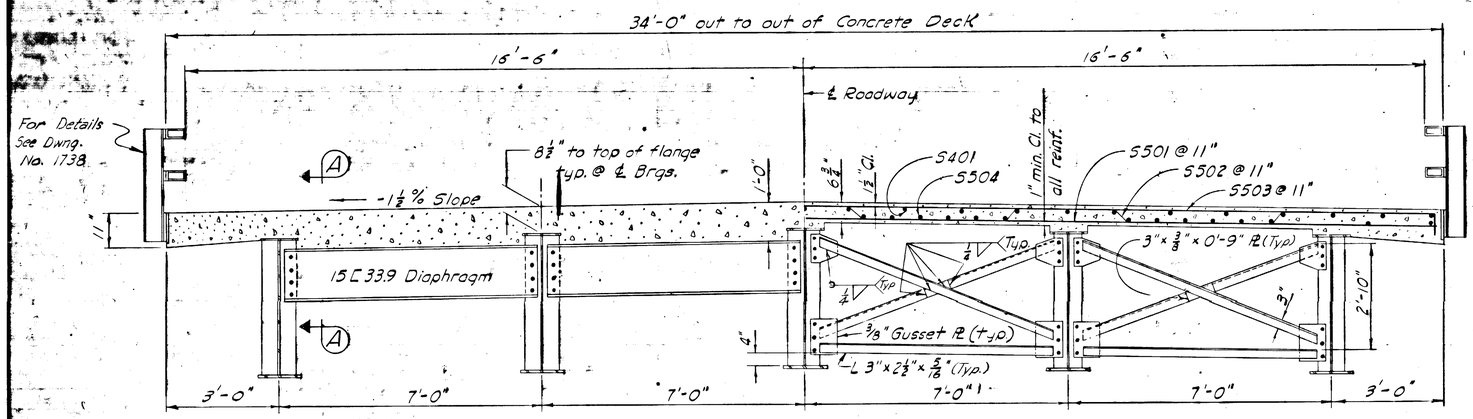
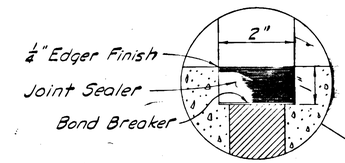
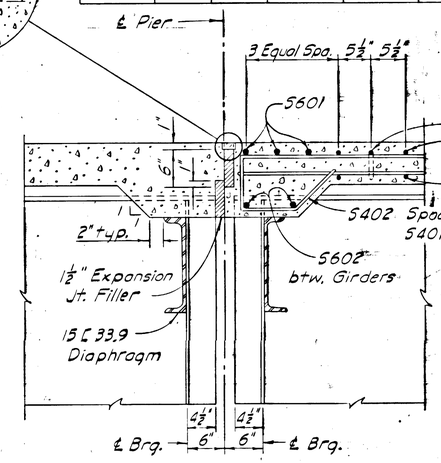


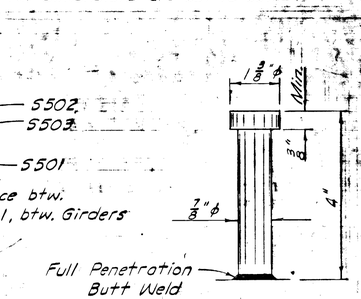
NEAR PIER — NEAR MIDSPAN

TYPICAL SECTION



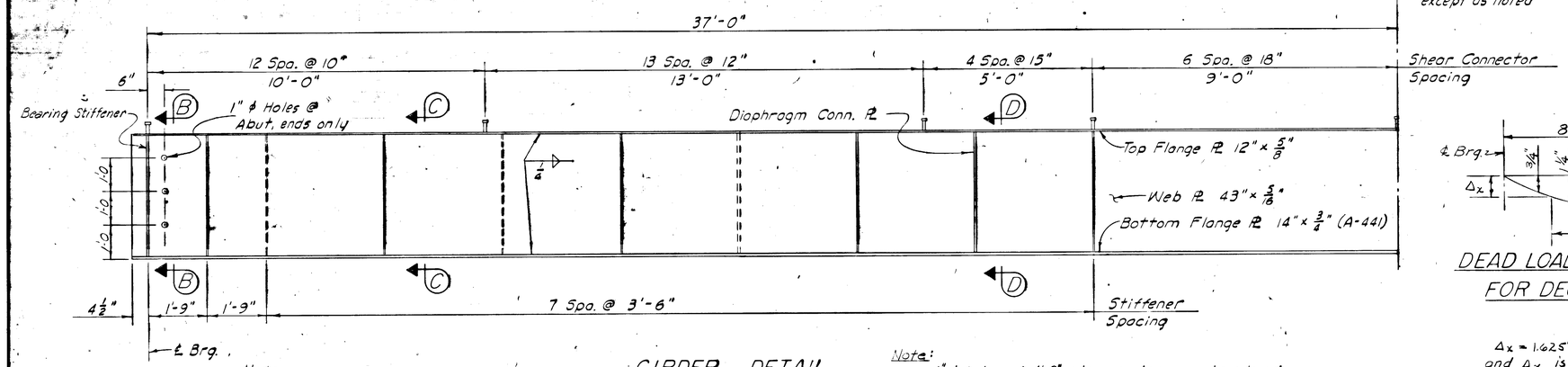


SECTION A-A @ PIER



STUD TYPE SHEAR CONNECTOR DETAIL

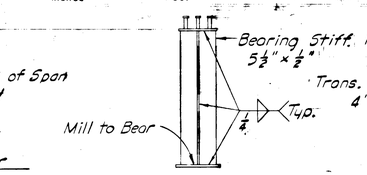
No Scale



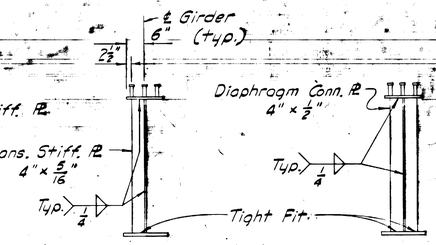
Note
Transverse stiffeners shall be placed on alternate sides of interior girders and on the inside of exterior girders.

GIRDER DETAIL

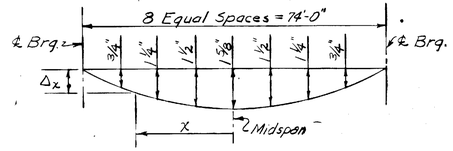
Note:
1" ϕ holes at 4'-0" min. spacing may be placed in the girder web of exterior girders for falsework support at the contractor's option. Holes shall be 6" min. distance from stiffeners.



SECTION B-B



SECTION C-C — SECTION D-D



DEAD LOAD DEFLECTION DIAGRAM FOR DECK SLAB

No Scale

$\Delta_x = 1.625" - .001187x^2$, where x is in feet and Δ_x is in inches.
Shop Camber for total dead load deflection shall be 1⅞" at ℄ span (parabolic).

RILEY CREEK BRIDGE

ROUTE NO. F-52

SUPERSTRUCTURE DETAILS

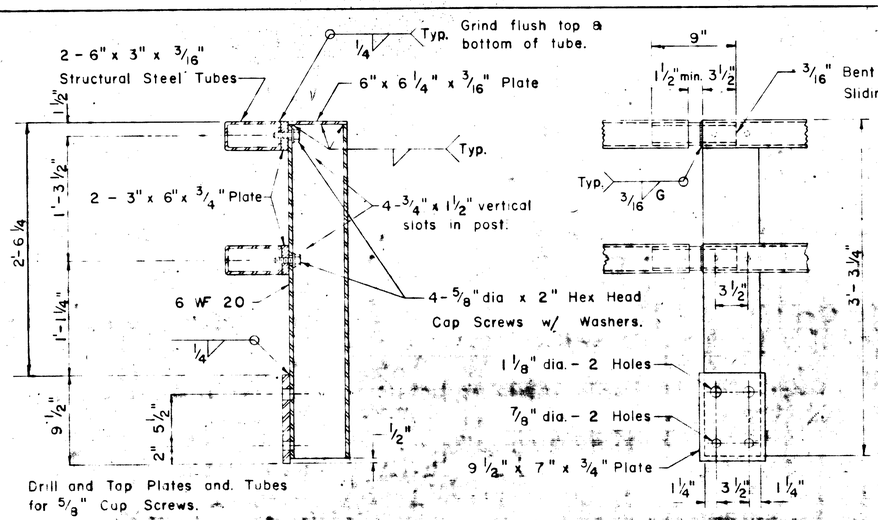
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 5/10/67
Approved [signature]

BRIDGE NO. 695
DWNG. NO. 1737

Traced By: R.H.C. Date: 8/1/67

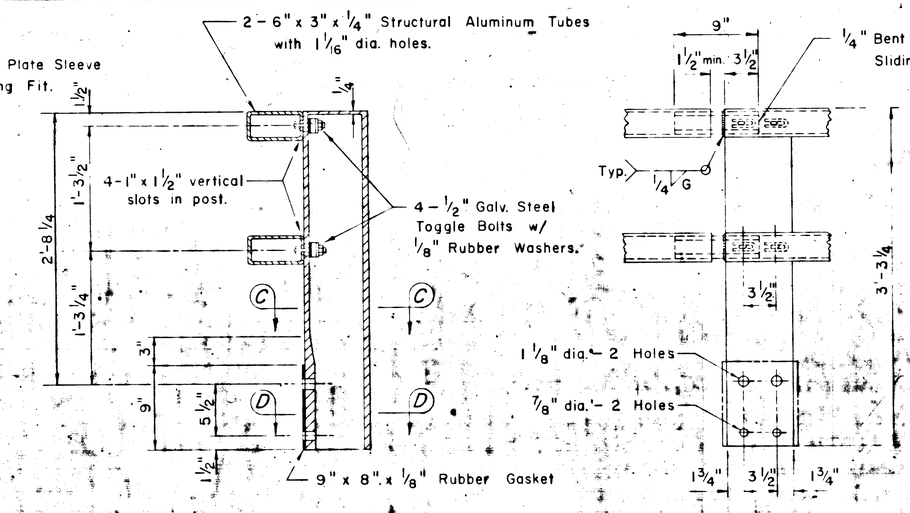
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-037-2(14)	1967	38	77
	BR-0A4-4 (3)	1986	12	12.



SECTION B-B

EXPANSION JOINT

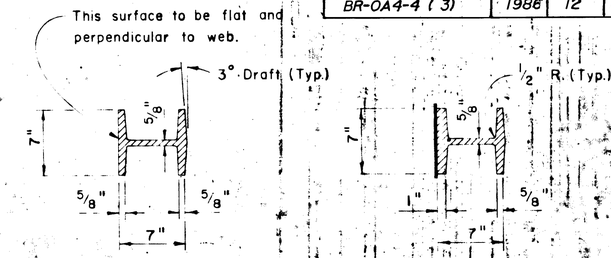
STEEL RAIL AND POST



SECTION B-B

EXPANSION JOINT

ALUMINUM RAIL AND CAST POST

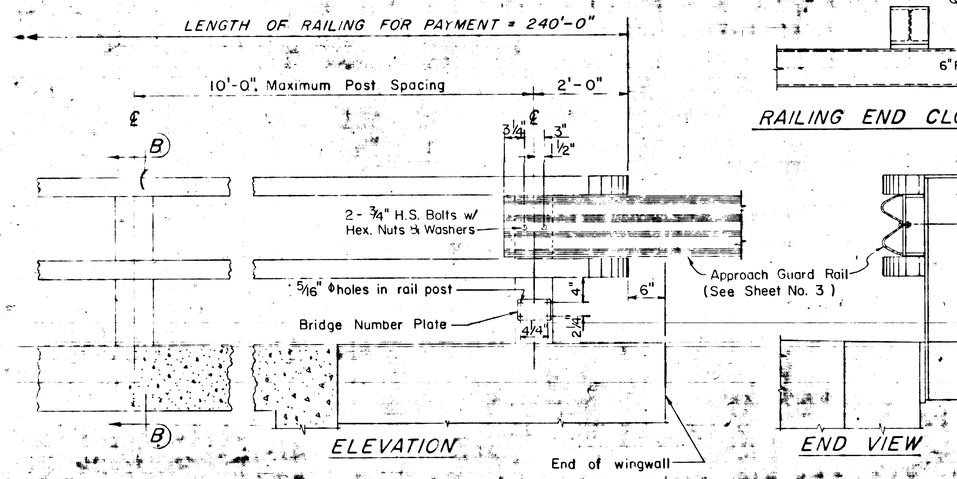


SECTION C-C

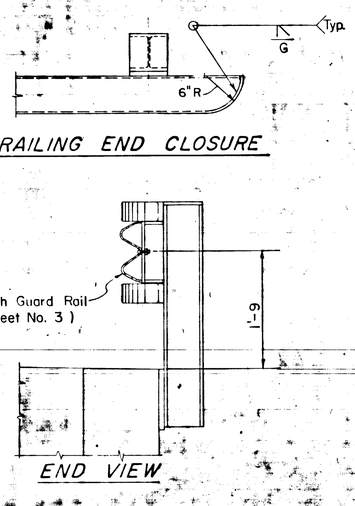
SECTION D-D

NOTES

(1) All railing, posts, anchor assemblies and other steel components shall be galvanized after fabrication. Galvanized steel shims shall be furnished by the contractor as required.
(2) Locate bridge number plate on right side of roadway at each end of bridge as shown.
(3) Bridge number plate to be furnished by the state.
(4) Increase gap in railing expansion joint to match deck joints as required. See Railing Layout for joint spacing.
(5) All bolts and cap screws shall have locking nuts or lock washers.
(6) 1/8" thick rubber washers shall be used where steel washers come in contact with aluminum railing or posts.

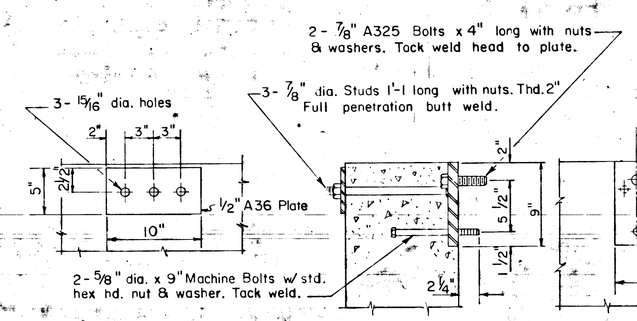


ELEVATION

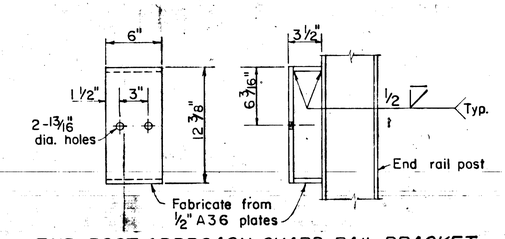


RAILING END CLOSURE

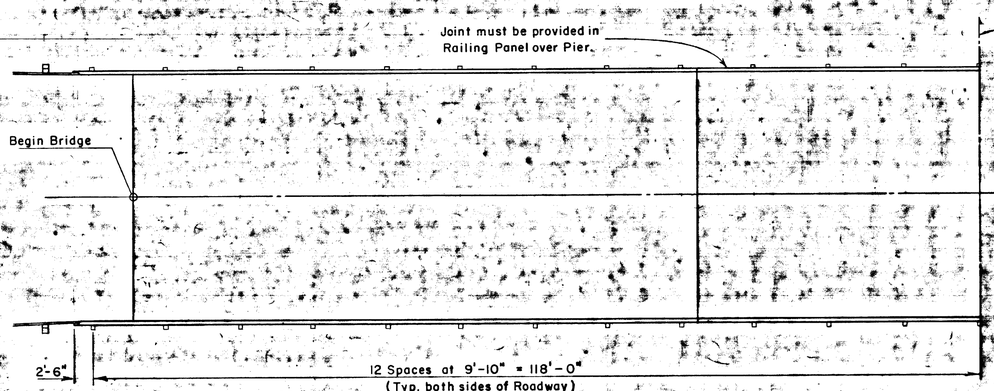
END VIEW



WINGWALL ANCHOR PLATE ONLY

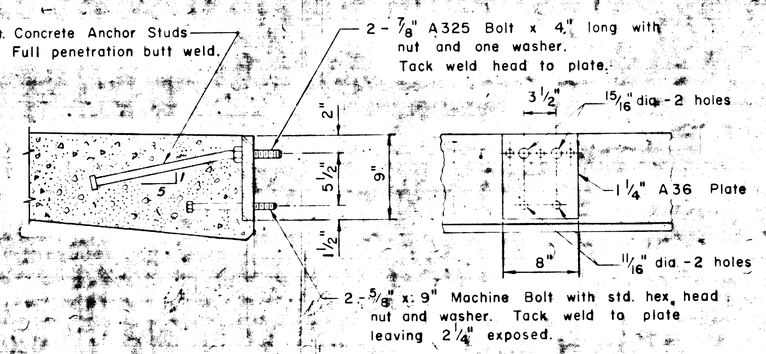


END POST APPROACH GUARD RAIL BRACKET
(4 Req'd.)



RAILING LAYOUT

NOTE:
Railing expansion joints must be provided in panels over the roadway joints at each pier and at 30'-0" maximum intervals throughout the bridge.



ANCHOR PLATE DETAILS
(Use With Aluminum or Steel Railing)

Project Engineer
No Changes CORRECTION [redacted]

RILEY CREEK BRIDGE
ROUTE NO. F-52
BRIDGE RAILING DETAILS
No Scale

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

12/20/67
APPROVED

BRIDGE NO. 695
DWG. NO. 1738