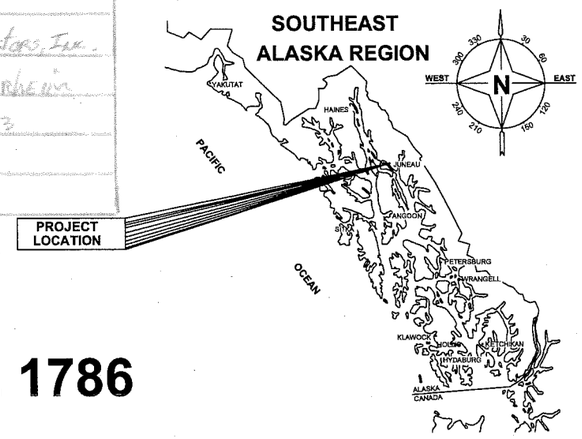
As Built

State of Alaska

Department of Transportation and Public Facilities

Southeast Region

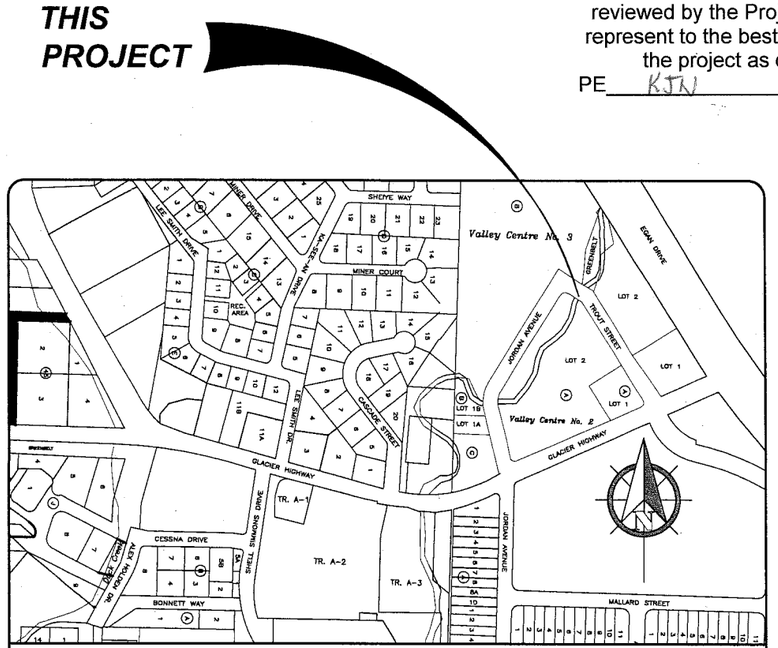
Construction: North Pacific Erectors, Inc.
Project Engineer: Kraig Nordheim
START DATE: April 8, 2013
End Date: July 31, 2013



JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE REPLACEMENT NO. 1786
PROJECT No. 69561/AC-BR-0003(151)

JUNEAU, ALASKA

THIS PROJECT



VICINITY MAP

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KJN Date 9/10/13

PROJECT SUMMARY

NEW PILE-SUPPORTED BRIDGE SPAN = 50 FT
LENGTH OF BASE BID MAINLINE PAVING = 140 FT
WIDTH OF BASE BID MAINLINE PAVING = 24 FT
LENGTH OF PROJECT = 217 FT

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION: URBAN LOCAL ROAD
PROJECT TYPE: BRIDGE REPLACEMENT
PROJECT DESIGN LIFE: 50 YEARS

	LAST YEAR WITH TRAFFIC DATA	CONSTRUCTION YEAR +1	MID-LIFE YEAR	FUTURE YEAR
	2010	2013	2038	2063
ADT**	4370	4440	5020	5690
DHV	520	530	600	680
PEAK HOUR FACTOR	0.9	0.9	0.9	0.9
DIRECTIONAL DISTRIBUTION	55/45	55/45	55/45	55/45
PERCENT COMMERICAL TRUCKS	11.5%	11.5%	11.5%	11.5%
COMPOUND GROWTH RATE		0.50%	0.50%	0.50%
PEDESTRIANS (NUMBER/DAY)	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
BICYCLISTS (NUMBER/DAY)	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

DESIGN VEHICLE FOR TURNING: WB-50
DESIGN VEHICLE FOR LOADING: HS25
EQUIVALENT AXLE LOADS: 3,150,000 LBS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

E-13.00 SEIMENT CONTROL SYSTEM (SILT BARRIER)
G-00.01 STANDARD GUARDRAIL HARDWARE (NUTS, BOLTS, WASHERS)
G-04.07 STEEL POST W-BEAM GUARDRAIL
I-21.01 PARALLEL CURB RAMP
L-23.01 JUNCTION BOX FOR ELECTROLIER
T-21.02 PAVEMENT MARKING APPLICATIONS

PLANS PREPARED BY
PND ENGINEERS, INC.

PROJECT INDEX

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\A1.DWG TAB:A1

PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

APPROVED: Chuck Correa 4/4/12
REGIONAL PRE-CONSTRUCTION ENGINEER — DATE
CHARLES W. CORREA, P.E.

APPROVED: Al Clough 5.14.2012
DIRECTOR, SOUTHEAST REGION — DATE
ALBERT H. CLOUGH, CPG

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:
Maureen A Hanson 10/29/13
CONSTRUCTION PROJECT MANAGER — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	69561/AC-BR-0003(151)	2012	A1	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

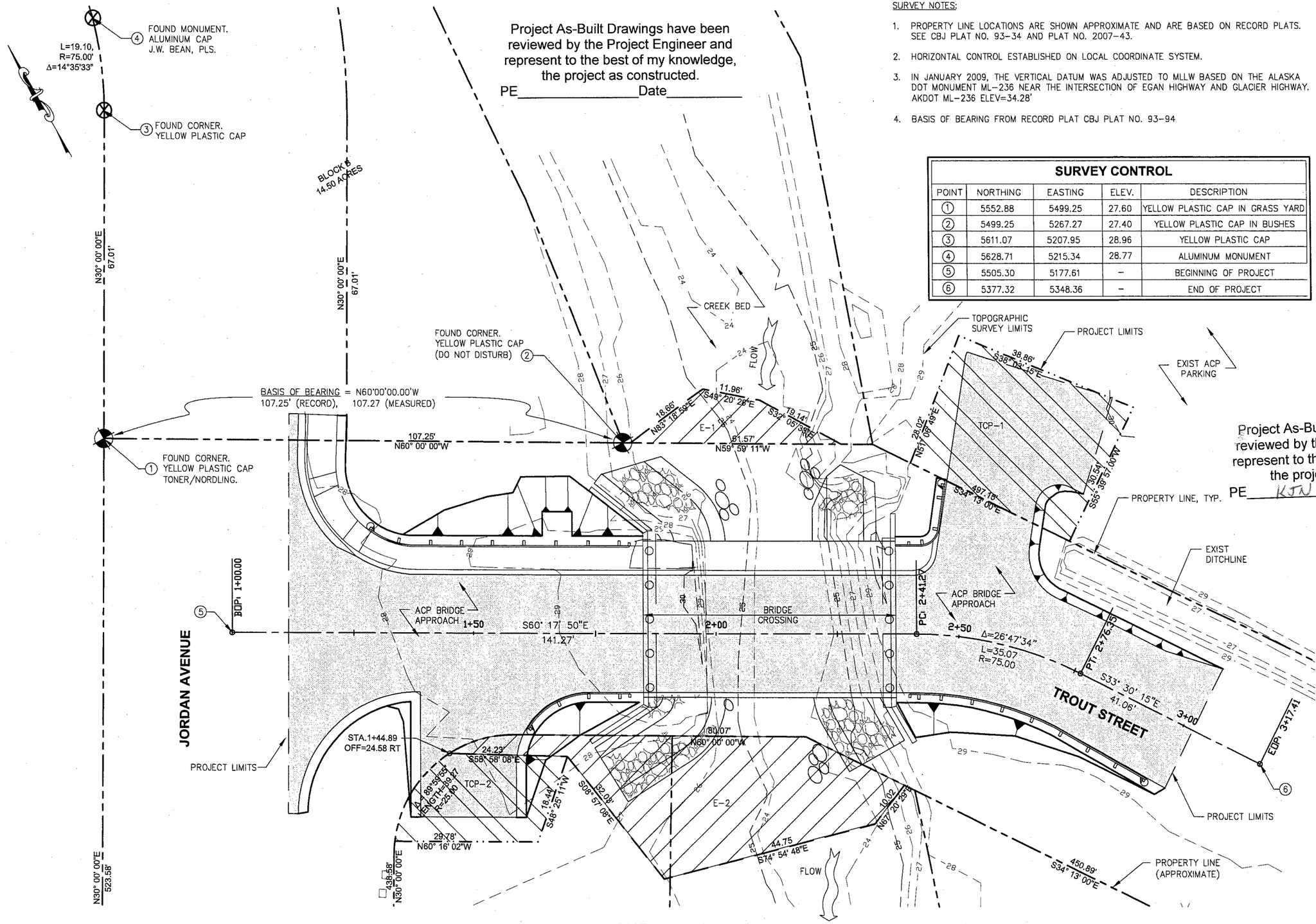
PE_____Date_____

SURVEY NOTES:

1. PROPERTY LINE LOCATIONS ARE SHOWN APPROXIMATE AND ARE BASED ON RECORD PLATS. SEE CBJ PLAT NO. 93-34 AND PLAT NO. 2007-43.
2. HORIZONTAL CONTROL ESTABLISHED ON LOCAL COORDINATE SYSTEM.
3. IN JANUARY 2009, THE VERTICAL DATUM WAS ADJUSTED TO MLLW BASED ON THE ALASKA DOT MONUMENT ML-236 NEAR THE INTERSECTION OF EGAN HIGHWAY AND GLACIER HIGHWAY. AKDOT ML-236 ELEV=34.28'
4. BASIS OF BEARING FROM RECORD PLAT CBJ PLAT NO. 93-94

SURVEY CONTROL

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
(1)	5552.88	5499.25	27.60	YELLOW PLASTIC CAP IN GRASS YARD
(2)	5499.25	5267.27	27.40	YELLOW PLASTIC CAP IN BUSHES
(3)	5611.07	5207.95	28.96	YELLOW PLASTIC CAP
(4)	5628.71	5215.34	28.77	ALUMINUM MONUMENT
(5)	5505.30	5177.61	-	BEGINNING OF PROJECT
(6)	5377.32	5348.36	-	END OF PROJECT



1 **SURVEY CONTROL**

SCALE IN FEET

0 10 20 FT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\A2.DWG

NICK MOOTHART

TAB: A2 Wednesday, April 11, 2012 1:06:14 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PROPERTY LINES

SURVEY CONTROL

FOUND CORNER

TEMPORARY CONSTRUCTION PARCEL (TCP)

EASEMENT (E)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJW Date 9/10/13

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA — Christopher Siegfried — CE-7559 — REGISTERED PROFESSIONAL ENGINEER — 4-11-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

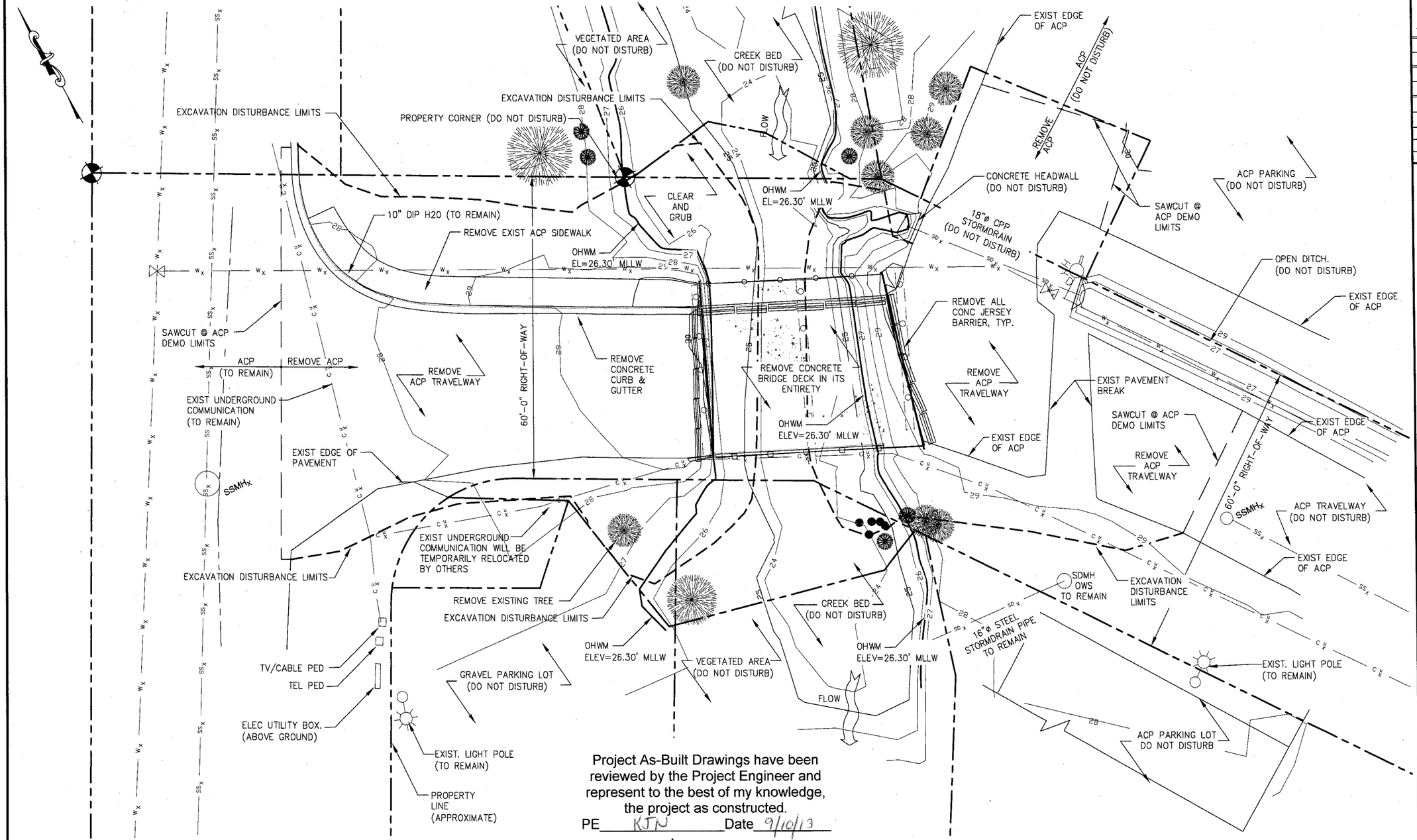
DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

SURVEY CONTROL

PROJECT DESIGNATION	
69561/AC-BR-0003(151)	
STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
A2	29



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13

SURVEY NOTES:

1. TOPOGRAPHY BASED UPON FIELD SURVEY BY PND CONDUCTED OCTOBER 2008 AND JULY 2011
2. EXISTING UTILITIES ARE BASED UPON AS-BUILT RECORDS AND SURVEYED INFORMATION. FIELD VERIFY ALL EXISTING UTILITIES.

1 EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE IN FEET
0 10 20 FT.

DEMOLITION NOTES:

1. EXCAVATION DISTURBANCE LIMITS SHOWN ARE APPROXIMATE. FIELD VERIFY BASED ON DESIGN GRADES, TYPICAL SECTIONS AND EXISTING CONDITIONS. FIELD VERIFY EXISTING VEGETATION FOR CLEARING AND GRUBBING. SEE SITE PLAN AND LAYOUT TABLES FOR EXCAVATION DISTURBANCE LIMITS.
2. ASPHALT DEMOLITION LIMITS SHOWN ARE APPROXIMATE. SEE SITE PLAN AND LAYOUT TABLES FOR PROJECT LIMITS.
3. REMOVE, SALVAGE AND SORT EXISTING SUBGRADE MATERIAL FROM EXISTING BRIDGE APPROACH RAMPS. ALL MATERIAL THAT IS DETERMINED TO BE REUSABLE SHALL BE STOCKPILED FOR REUSE DURING CONSTRUCTION. ALL OTHER MATERIAL SHALL BE CONSIDERED WASTE AND DISPOSED OF AT AN APPROVED SITE.
4. SEE A4.0 FOR EXISTING BRIDGE AND BRIDGE STRUCTURE DEMOLITION PLAN.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\A3.DWG

LANCE GREER
TAB: A3 Monday, April 02, 2012 4:32:38 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PROPERTY LINES
STORM DRAIN
SANITARY SEWER
WATER
ELECTRIC (UNDERGROUND)
COMMUNICATION (UNDERGROUND)
LIGHT POLE
SURVEY CONTROL
SSMHx SANITARY SEWER MANHOLE
WATER VALVE
FIRE HYDRANT
TREE (VARIOUS SIZES)

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA — Christopher Grimsrud — CE-7556 — REGISTERED PROFESSIONAL ENGINEER — 4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

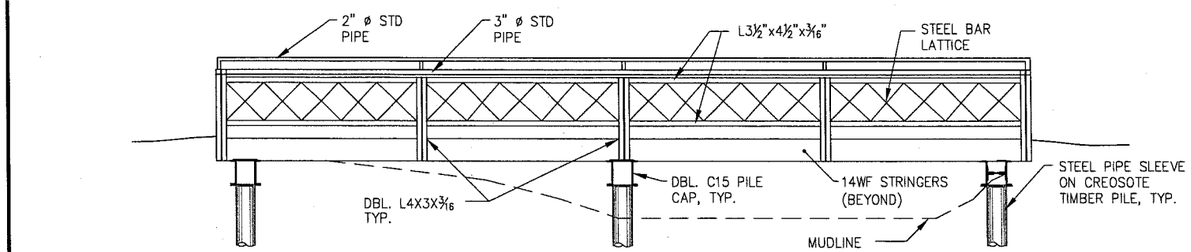
DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

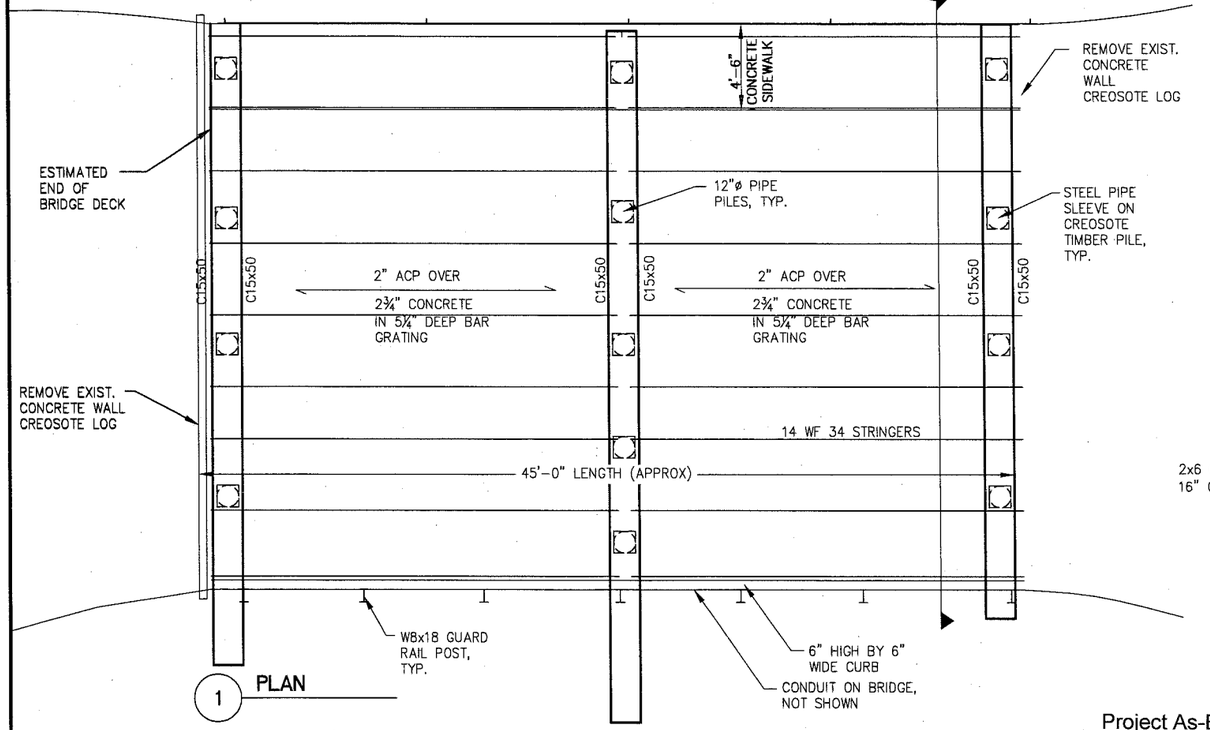
JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

EXISTING CONDITIONS AND DEMOLITION PLAN

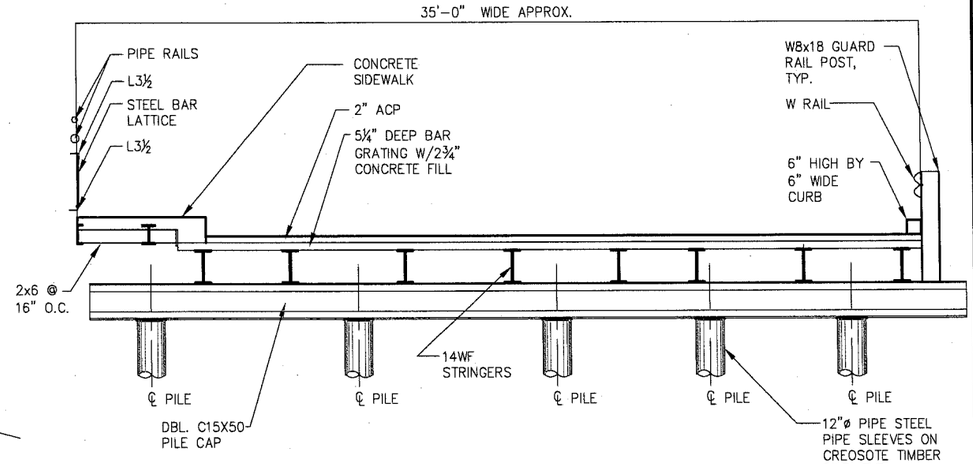
PROJECT DESIGNATION	
69561/AC-BR-0003(151)	
STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
A3	29



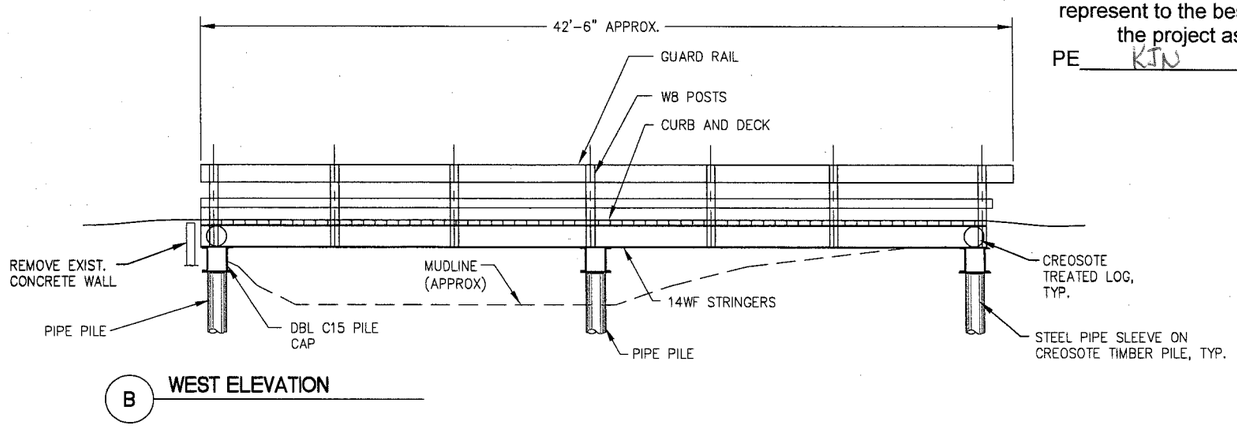
A **EAST ELEVATION**



1 **PLAN**



C **TYPICAL SECTION**



B **WEST ELEVATION**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13

NOTES:

1. COATINGS ON PILES, STRINGERS, PILECAPS AND RAILINGS CONTAIN LEAD; HANDLE AND DISPOSE OF PER SPECIFICATIONS.
2. DEMOLISH EXISTING BRIDGE INCLUDING RAILS, DECK, PILES, PILECAPS, STRINGERS, CREOSOTE LOGS, CONCRETE AT ABUTMENTS, CONDUIT ON BRIDGE AND ALL ELSE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\A4.DWG

LANCE GREER
TAB: A4 Monday, April 02, 2012 4:32:33 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA — Christopher Gionetti — CE-7559 — REGISTERED PROFESSIONAL ENGINEER — 4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY:

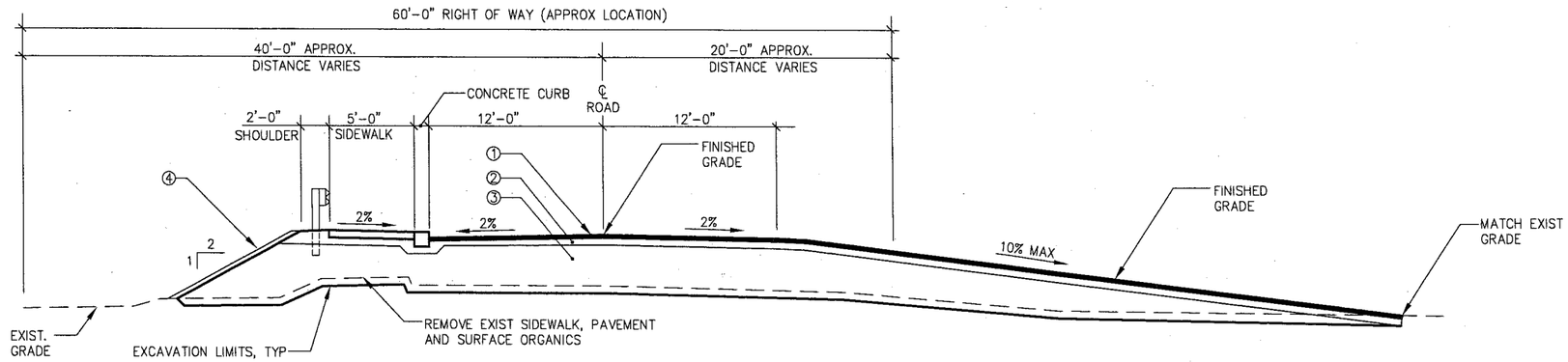
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

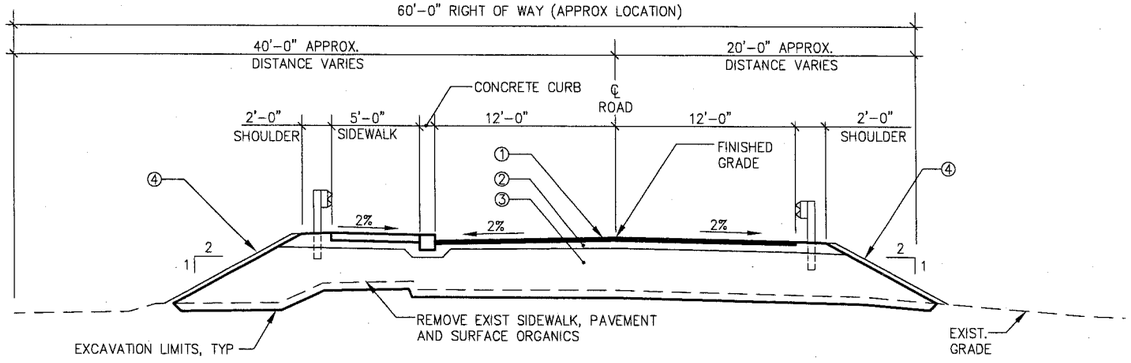
JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

BRIDGE DEMOLITION PLAN

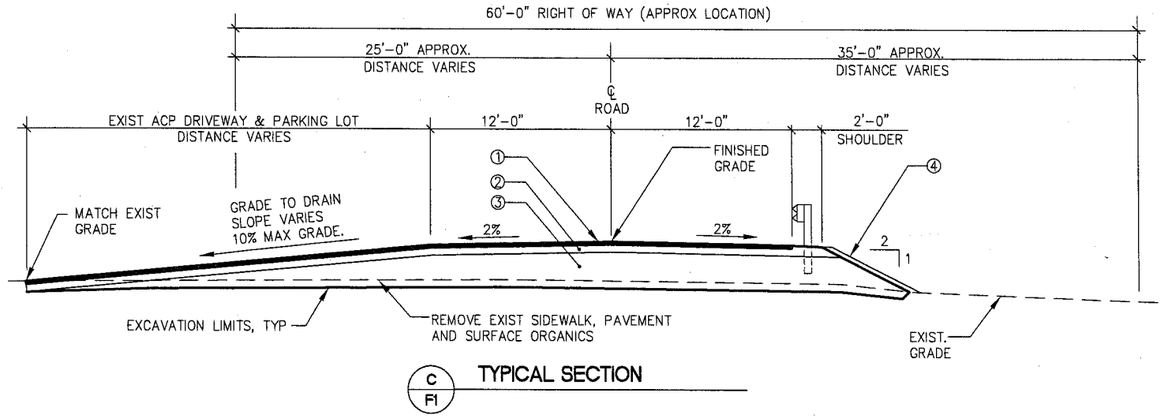
PROJECT DESIGNATION	
69561/AC-BR-0003(151)	
STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
A4	29



A/F1 TYPICAL SECTION

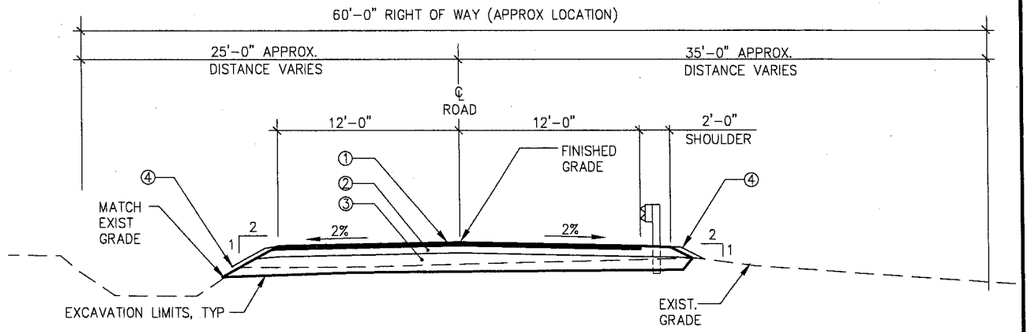


B/F1 TYPICAL SECTION



C/F1 TYPICAL SECTION

MATERIAL SCHEDULE	
SYMBOL	MATERIAL DESCRIPTION
①	2 1/4" ASPHALT CONCRETE, TYPE II, CLASS B
②	6" AGGREGATE BASE COURSE, GRADING D-1
③	BORROW, SELECTED MATERIAL, TYPE A (TO COMPETENT SUBGRADE)
④	4" TOPSOIL AND SEED



D/F1 TYPICAL SECTION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
Christopher Gianotti
CE-7558
REGISTERED PROFESSIONAL ENGINEER
4-2-12

DESIGNED BY: NAM

DRAWN BY: NAM

PATH: N:\09XX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\B1.DWG

TAB: B1 Monday, April 02, 2012 4:32:29 PM LANCE GREER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

TYPICAL ROAD SECTIONS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	B1	29

PLANS PREPARED BY
PND ENGINEERS, INC.

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
202 (13)	EXISTING BRIDGE REMOVAL	LUMP SUM	ALL REQ'D
203 (5)	BORROW, SELECTED MATERIAL, TYPE A	CUBIC YARD	~~750~~ 0
203 (19)	UNCLASSIFIED EXCAVATION	LUMP SUM	ALL REQ'D
205 (5)	STREAM DIVERSION AND DEWATERING	LUMP SUM	ALL REQ'D
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	TON	334.95 ~~300~~
401 (1)	ASPHALT CONCRETE, TYPE II, CLASS B	TON	133.28 ~~125~~
401 (2)	ASPHALT CEMENT, GRADE PG 58-28	TON	~~7.5~~ 6.68
501 (4)	CLASS A CONCRETE	LUMP SUM	ALL REQ'D
501 (7)	PRECAST CONCRETE MEMBERS - VOIDED DECK PLANKS	EACH	8
505 (5)	FURNISH STRUCTURAL STEEL PILES	LINEAR FOOT	900
505 (6)	DRIVE STRUCTURAL STEEL PILES	EACH	10
507 (6)	STEEL BRIDGE RAILINGS	LUMP SUM	ALL REQ'D
508 (1)	WATERPROOF MEMBRANE	LUMP SUM	ALL REQ'D
606 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	~~157~~ 132.2
608 (1A)	SIDEWALK, 6 INCHES THICK	SQUARE YARD	53.69 ~~54~~
608 (6)	CURB RAMP	EACH	2
609 (2S)	CURB AND GUTTER, TYPE STANDARD	LINEAR FOOT	~~100~~ 94.0
611 (1)	RIPRAP, CLASS I	CUBIC YARD	76.93 ~~150~~
615 (7)	STANDARD SIGNS	LUMP SUM	ALL REQ'D.
618 (4)	SEEDING	LUMP SUM	ALL REQ'D.
620 (1)	TOPSOIL	SQUARE YARD	455.93 ~~600~~
621 (2)	SHRUB (WILLOWS)	EACH	~~30~~ 45
633 (2)	SILT BARRIER	LINEAR FOOT	~~300~~ 440
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D.
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D.
641 (2)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CONTINGENT SUM	$3000
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D.
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D.
643 (29)	PUBLIC INFORMATION PROGRAM	LUMP SUM	ALL REQ'D.
644 (6)	VEHICLES	LUMP SUM	ALL REQ'D.
662 (1)	ELECTRICAL & COMMUNICATIONS CONDUIT	LUMP SUM	ALL REQ'D.
670 (1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQ'D.

505(11)	Load Test CO 1	Lump Sum	$24,271.65
505(11a)	Load Test CO 2	Lump Sum	$6,591.21
203(6)	Borrow CO3	TON	$29,461.92
606(1a)	W-Beam Guardrail CO3	Lump Sum	$1,758.60
202(13a)	Removal of Pavement CO 3	Lump Sum	$970.49
202(1)	Removal of Structures & Obstructions CO 3	Lump Sum	$283.09
503(1)	REINFORCING STEEL CO3	Lump Sum	$1,383.80

BASIS OF ESTIMATE

PAY ITEM	ESTIMATING FACTOR
REMOVAL OF PAVEMENT	750 SY (APPROX)
REMOVAL OF SIDEWALK	100 SY (APPROX)
AGGREGATE BASE COURSE, GRADING D-1	2.0 TON/CY
ASPHALT CONCRETE, TYPE II, CLASS B	125 LB/SY/IN
ASPHALT CEMENT, GRADE PG 58-28	6.0% OF ITEM 401 (1)
UNCLASSIFIED EXCAVATION	850 CY (APPROX)
CLASS A CONCRETE	90 CY (APPROX)
CONCRETE REINFORCEMENT @ ABUTMENT, WING WALLS, SIDWALK AND PILES	10.7 TONS (APPROX)
CONCRETE FORM WORK	1500 SF (APPROX)
WATERPROOF MEMBRANE	1250 SF (APPROX)
STEEL BRIDGE RAILINGS	100 LF (APPROX)
SEEDING	600 SY (APPROX)
4"ø SCH40 PVC ELECTRICAL & COMMUNICATIONS CONDUIT	246 LF (APPROX)
TYPE II JUNCTION BOX	1 EACH

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
Christopher Gianotti
CE-7559
REGISTERED PROFESSIONAL ENGINEER
4-2-12

DESIGNED BY: NAM

DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR
& UPGRADE
TROUT STREET BRIDGE
NO.1786

ESTIMATE OF QUANTITIES

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\C1.DWG
TAB: C1 Monday, April 02, 2012 4:32:25 PM LANCE GREER

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	C1	29

PLANS PREPARED BY
PND ENGINEERS, INC.

CIVIL GENERAL NOTES

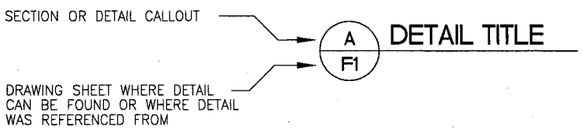
1. MATCH EXISTING FINISH GRADES AT PROJECT LIMITS AND WHERE REQUIRED TO MATCH AT EXISTING ROADS.

2. ALL EXISTING ASPHALT CONCRETE MATERIALS TO BE REMOVED SHALL BE DISPOSED IN A LEGAL MANNER. ALL OTHER REMOVED MATERIALS THAT ARE NOT SUITABLE FOR REUSE ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED OF AT AN APPROVED SITE.

3. THE LOCATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY BE PRESENT HOWEVER ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AS NECESSARY, PRIOR TO BEGINNING WORK. THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD SHALL BE RECORDED ON THE CONTRACTOR'S RECORD DRAWINGS. CONTACT LOCAL UTILITY COMPANIES PRIOR TO ANY/ ALL EXCAVATIONS AT THE FOLLOWING TELEPHONE NUMBERS:

DIAL BEFORE YOU DIG!
586-1333
UNDERGROUND POWER, TELEPHONE, T.V., WATER AND SEWER LINES ARE IN THE AREA. UTILITIES SHOWN HERE DO NOT SUBSTITUTE FOR FIELD LOCATES.

LEGEND



ABBREVIATIONS

#	NUMBER
@	AT
ACP	ASPHALT CONCRETE PAVEMENT
AKDOTPF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVE	AVENUE
AWS	AMERICAN WELDING SOCIETY
B.O.B	BEGINNING OF BRIDGE
BOP	BEGINNING OF PROJECT
BTM	BOTTOM
BTWN	BETWEEN
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CBJ	CITY AND BOROUGH OF JUNEAU
C.I.P	CAST IN PLACE
CJ	CONSTRUCTION JOINT
℄	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
COR	CORNER
CTRD	CENTERED
CTRL	CONTROL
CY	CUBIC YARD
d	DEPTH
DHW	DESIGN HIGH WATER
DIA	DIAMETER
E	EAST
EA	EACH
EG	EXISTING GRADE
ELEV	ELEVATION
E.O.B.	END OF BRIDGE
EOP	END OF PROJECT
EVCE	END VERTICAL CURVE ELEVATION
EXIST	EXISTING
EXP	EXPANSION
FT	FEET
FG	FINISH GRADE
Fy	YIELD STRESS
g	ACCELERATION DUE TO GRAVITY
GALV.	GALVANIZED
H/V	HORIZONTAL/VERTICAL
HDG	HOT DIP GALVANIZED
H/ HORIZ	HORIZONTAL
HWY	HIGHWAY
IE	INVERT ELEVATION
IN	INCH
JT	JOINT
KIPS	THOUSANDS OF POUNDS
KSI	THOUSAND POUNDS PER SQUARE INCH
L	LENGTH
LB	POUND
LF	LINEAR FOOT
LHC	LENGTH OF HORIZONTAL CURVE
LS	LUMP SUM
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
MEAS	MEASURED
MAT'L	MATERIAL
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
N	NORTH
NFS	NON-FROST SUCCEPTIBLE
NO	NUMBER
MAX	MAXIMUM
MIN	MINIMUM
NO	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFSET
OHWM	ORDINARY HIGH WATER MARK
O.O.	OUT TO OUT
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OWS	OIL/WATER SEPARATOR
PC	POINT OF CURVATURE
PND	PND ENGINEERS, INC.
PL	PLATE
PSI	POUNDS PER SQUARE INCH
PT	POINT
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RD	ROAD
RE	RIM ELEVATION
REC	RECORDED
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SDMH	STORM DRAIN MANHOLE
SPEC	SPECIFICATION
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
SY	SQUARE YARD
SYMM	SYMMETRIC
t	THICKNESS
T&B	TOP AND BOTTOM
TBM	TEMPORARY BENCHMARK
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL
VC	VERTICAL CURVE
W	WEST
W/	WITH
X-STRG	EXTRA STRONG

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KJW Date 9/10/13

PLANS PREPARED BY
PND ENGINEERS, INC.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
Christopher Gianotti
CE-7558
REGISTERED PROFESSIONAL ENGINEER
4-2-12

DESIGNED BY: NAM
DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

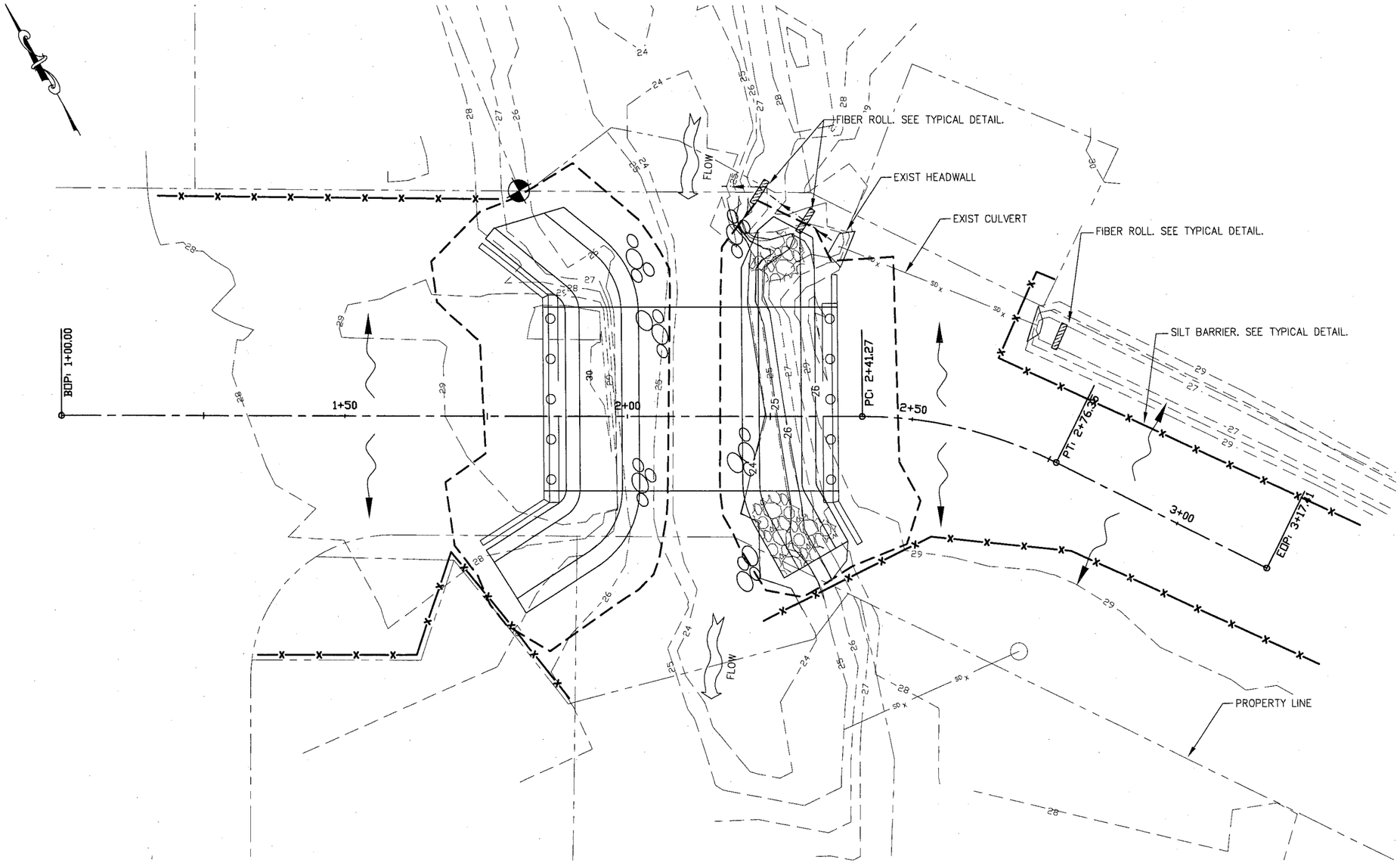
JUNEAU BRIDGE REPAIR
& UPGRADE
TROUT STREET BRIDGE
NO.1786

LEGEND AND ABBREVIATIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\D1.DWG
TAB: D1 Monday, April 02, 2012 4:32:21 PM LANCE GREER

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
69561/AC-BR-0003(151)	2012	D1	29



1 **EROSION CONTROL PLAN**

SCALE IN FEET

0 10 20 FT.

NOTES:

1. SEE SHEET E2.0–E4.0 FOR DEWATER AND DIVERSION PLANS. CONTRACTOR SHALL SUBMIT DEWATERING AND DIVERSION PLAN FOR ENGINEER'S REVIEW AND APPROVAL.
2. ALL TEMPORARY STRUCTURES INCLUDING, STREAM DIVERSION MATERIALS , SILT FENCING AND FIBER ROLLS SHALL BE REMOVED FOLLOWING CONSTRUCTION.
3. THE CONTRACTOR SHALL PROTECT EXISTING STORMDRAIN INLETS FROM POLLUTED RUNOFF WITH FILTERING GEOTEXTILE OR SILT BARRIER.
4. SEE STANDARD DETAIL E–13.00 SEDIMENT CONTROL SYSTEM FOR IN–WATER INSTALLATIONS.
5. TEMPORARY COMMUNICATION CONDUIT AND CABLE, SEE SHEET U1.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\E1-E5.DWG

LANCE GREER

TAB: E1 Monday, April 02, 2012 4:31:53 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SILT BARRIER

SWALE

FIBER ROLL

ABUTMENT

PILE

LIMITS OF EXCVATION

SURFACE RUNOFF

26 FG CONTOURS

26 EG CONTOURS

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA Christopher Gianotti CE-7559 REGISTERED PROFESSIONAL ENGINEER 4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

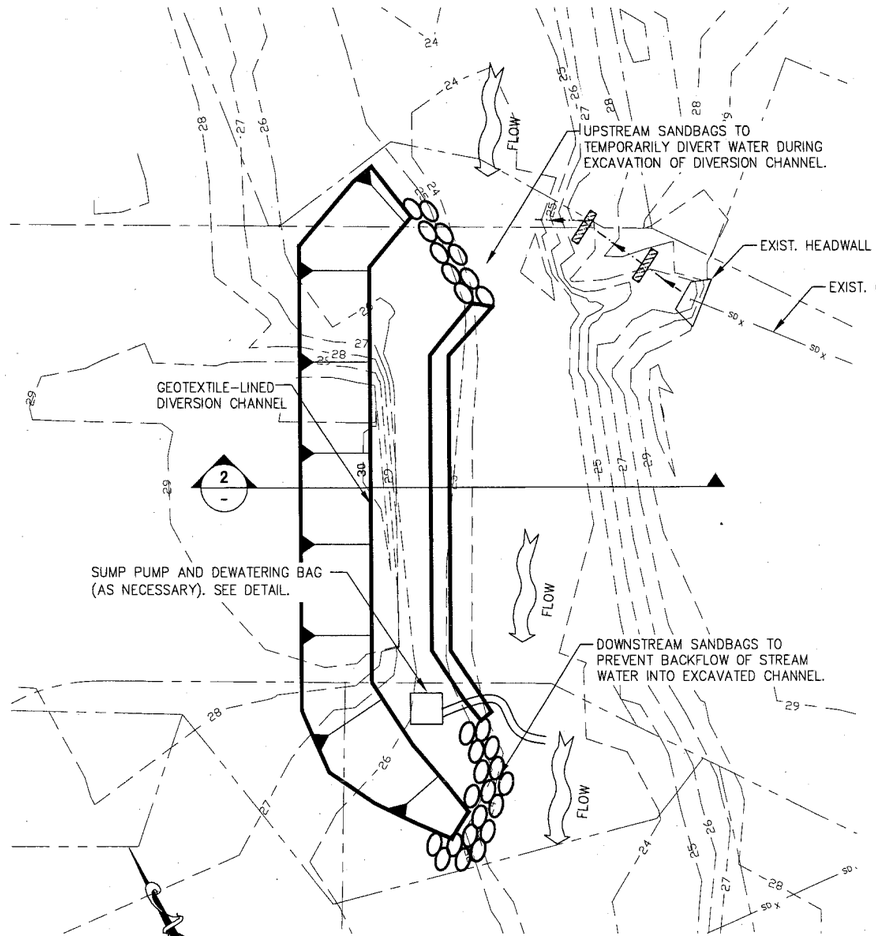
EROSION CONTROL PLAN

PROJECT DESIGNATION

69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012

SHEET NUMBER	TOTAL SHEETS
E1	29



1 PLAN-PHASE 1

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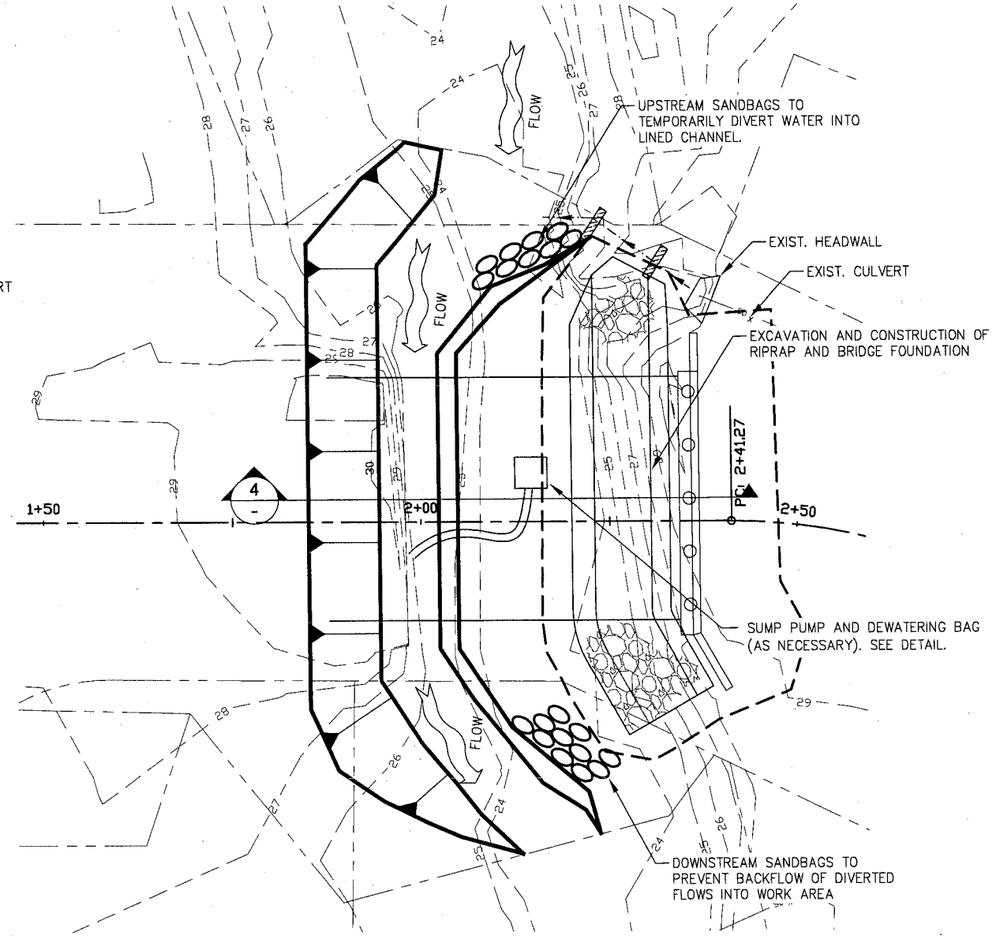

3 PLAN-PHASE 2

SCALE IN FEET
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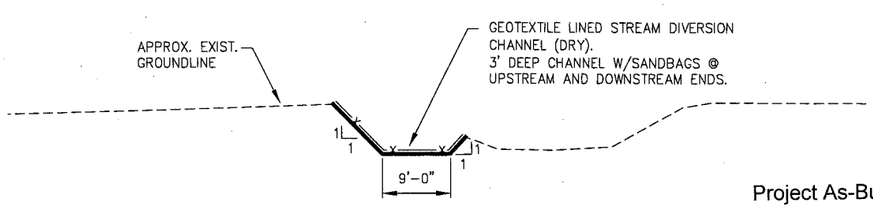

2 SECTION-PHASE 1

SCALE IN FEET
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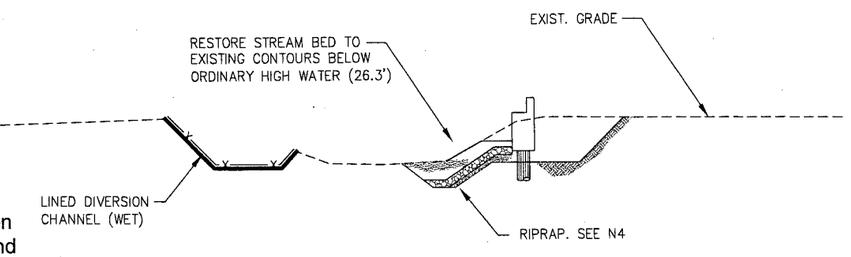


4 SECTION-PHASE 2

SCALE IN FEET
0 10 20 FT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\E1-E5.DWG
LANCE GREER
TAB: E2 Monday, April 02, 2012 4:31:58 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CUTSLOPE TICK MARKS
SANDBAGS
PROPERTY LINE
FLOW STREAM FLOW DIRECTION
-- 26 -- EXIST. CONTOURS
— 26 — FG CONTOURS

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA Christopher Gianotti CC-7559 REGISTERED PROFESSIONAL ENGINEER 4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM
DRAWN BY: NAM

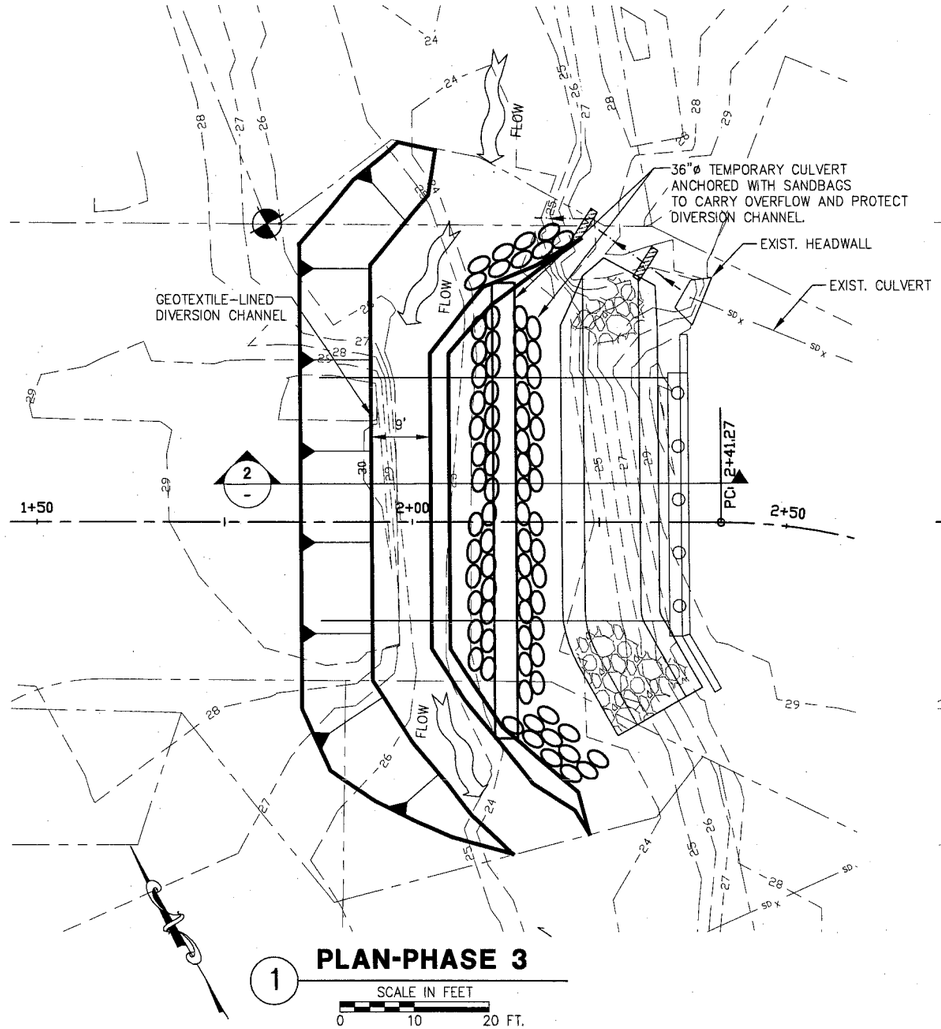
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

DIVERSION AND DEWATERING PLAN

PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
E2	29



1 PLAN-PHASE 3

SCALE IN FEET
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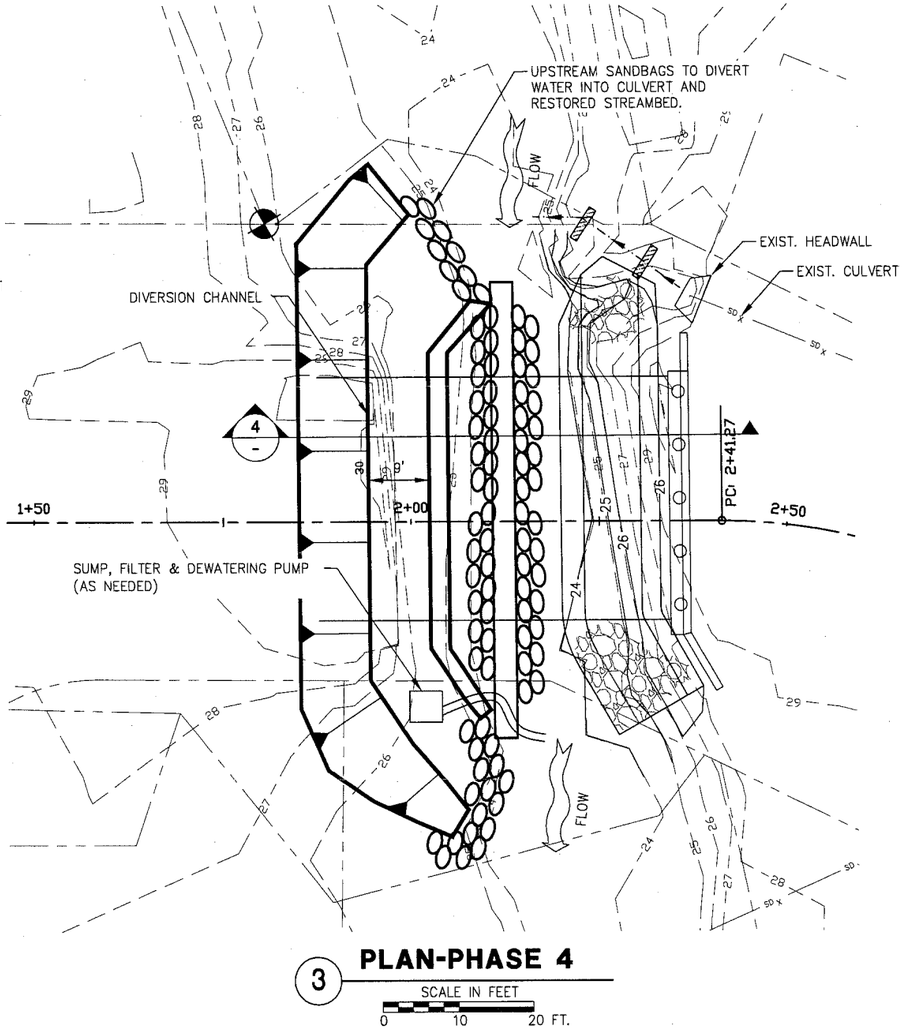
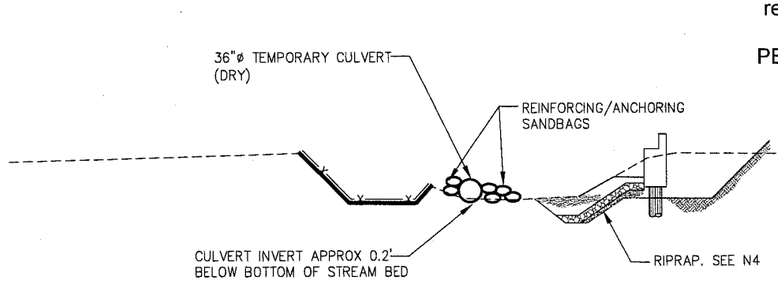


3 PLAN-PHASE 4

SCALE IN FEET
0 10 20 FT.

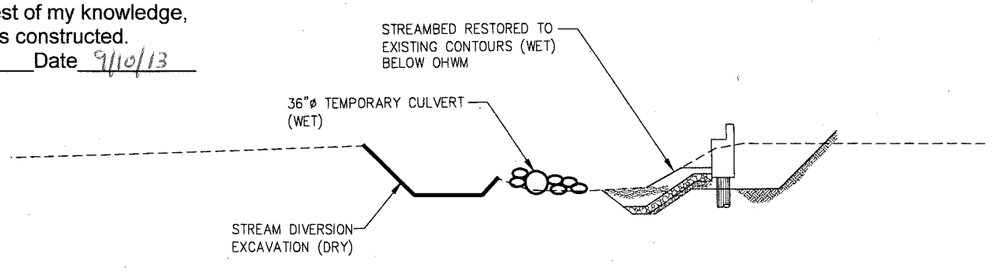
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KTN Date 9/10/13



2 SECTION-PHASE 3

SCALE IN FEET
0 10 20 FT.



4 SECTION-PHASE 4

SCALE IN FEET
0 10 20 FT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\E1-E5.DWG
LANCE GREER
TAB: E3 Monday, April 02, 2012 4:32:03 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SANDBAGS

PROPERTY LINE

FLOW DIRECTION

EXIST. CONTOURS

26 FG CONTOURS

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA — Christopher Gianotti — CE-7559 — REGISTERED PROFESSIONAL ENGINEER — 4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

DRAWN BY: NAM

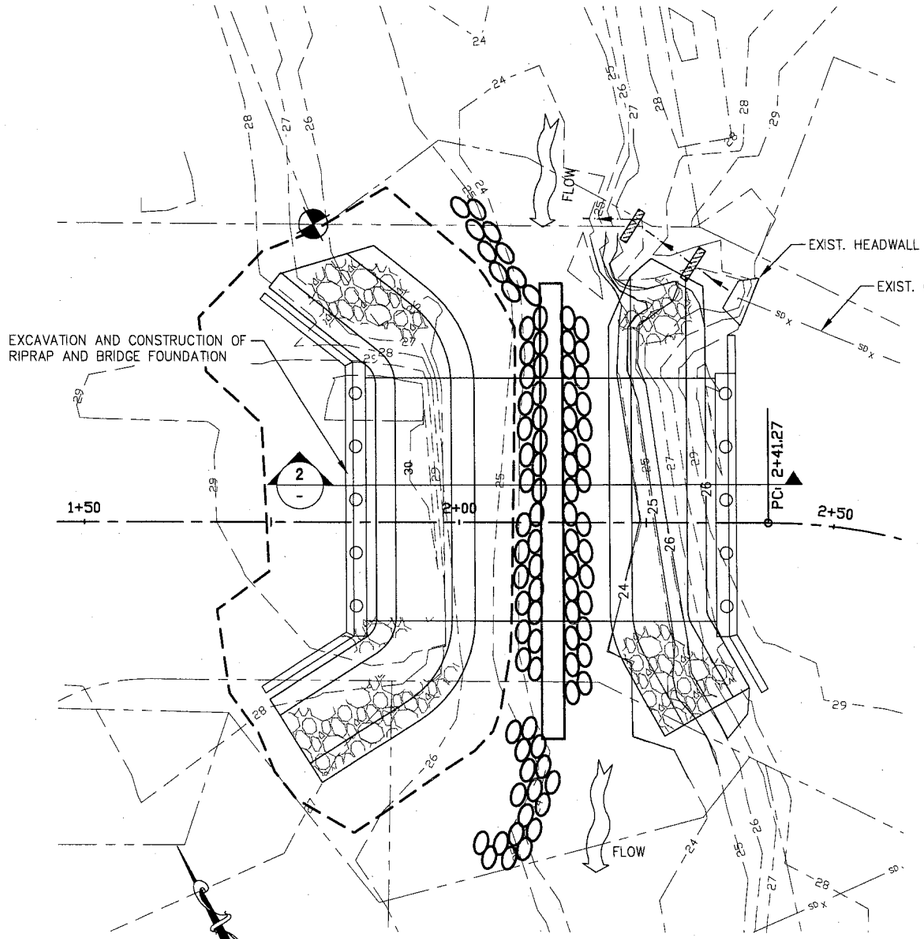
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

DIVERSION AND DEWATERING PLAN

PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
E3	29



1 PLAN-PHASE 5

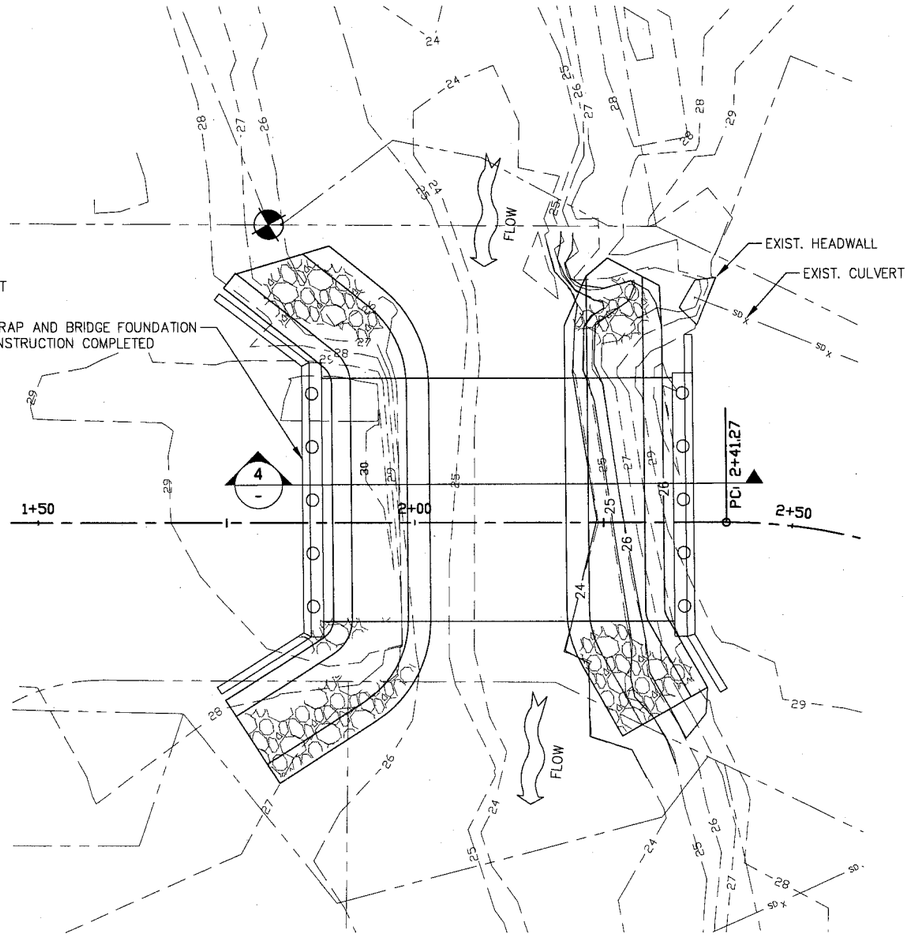
SCALE IN FEET
0 10 20 FT.

2 SECTION-PHASE 5

SCALE IN FEET
0 10 20 FT.

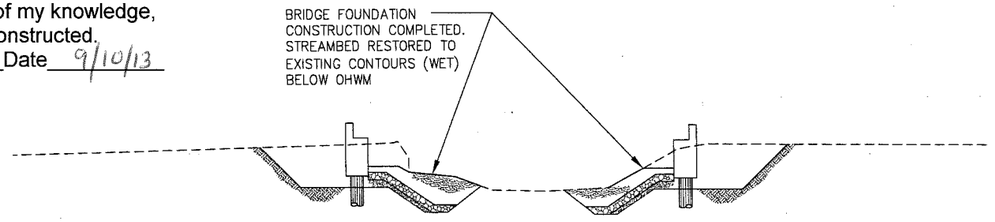
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13



3 PLAN-PHASE 6

SCALE IN FEET
0 10 20 FT.



NOTE: ALL EROSION AND SEDIMENT CONTROLS AND STREAM DIVERSION CONTROLS REMOVED FROM STREAMBED IMMEDIATELY FOLLOWING CONSTRUCTION AND RESTORATION OF ORIGINAL STREAM BED FLOWS.

4 SECTION-PHASE 6

SCALE IN FEET
0 10 20 FT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\E1-E5.DWG

LANCE GREER

TAB: E4 Monday, April 02, 2012 4:32:10 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SANDBAGS

PROPERTY LINE

FLOW — FLOW DIRECTION

EXIST. CONTOURS

—26— FG CONTOURS

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA — Christopher Gianotti — CE-7559 — REGISTERED PROFESSIONAL ENGINEER

4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

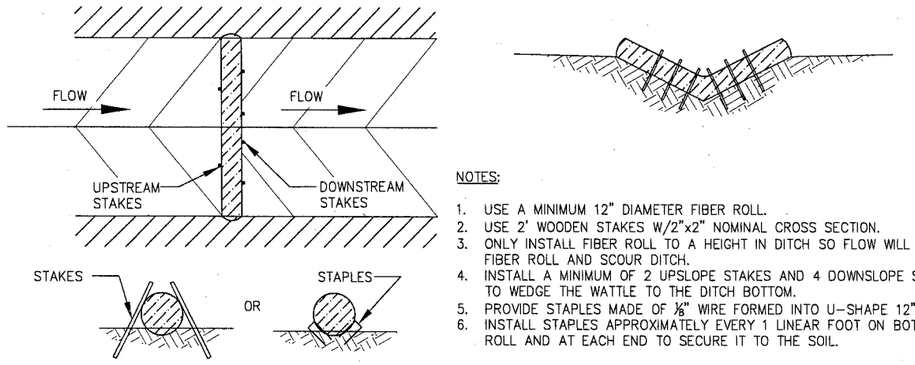
JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

DIVERSION AND DEWATERING PLAN

PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012

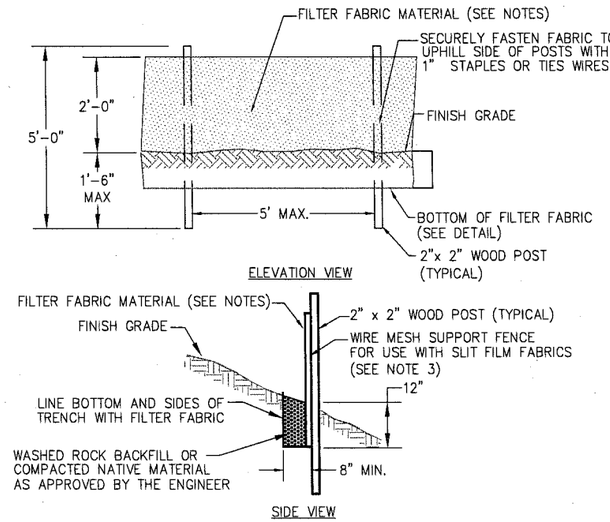
SHEET NUMBER	TOTAL SHEETS
E4	29



NOTES:

1. USE A MINIMUM 12" DIAMETER FIBER ROLL.
2. USE 2' WOODEN STAKES W/2"x2" NOMINAL CROSS SECTION.
3. ONLY INSTALL FIBER ROLL TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND FIBER ROLL AND SCOUR DITCH.
4. INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE THE WATTLE TO THE DITCH BOTTOM.
5. PROVIDE STAPLES MADE OF ⅛" WIRE FORMED INTO U-SHAPE 12" IN LENGTH.
6. INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF FIBER ROLL AND AT EACH END TO SECURE IT TO THE SOIL.

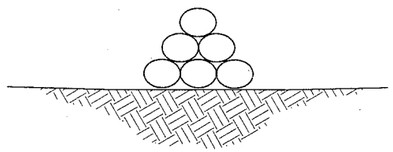
1 FIBER ROLL



NOTES:

1. FILTER FABRIC SHALL BE CUT FROM A CONTINOUS ROLL OF FABRIC. JOINTS SHALL BE KEPT TO A MINIMUM. JOINTS SHALL BE AT SUPPORT POSTS WITH A MINIMUM OF 6" OVERLAP.
2. FILTER FABRIC TYPE SHALL BE APPROVED BY THE ENGINEER.
3. MORE SUPPORT POSTS MAY BE SUBSTITUTED FOR WIRE MESH AS APPROVED BY THE ENGINEER.
4. FILTER FABRIC FENCE SHALL BE REMOVED AFTER UPSLOPE HAS BEEN STABILIZED. RETAINED MATERIALS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF.
5. SILT BARRIER SHALL CONFORM TO STD DRAWING E-13.00, UNLESS OTHERWISE NOTED.

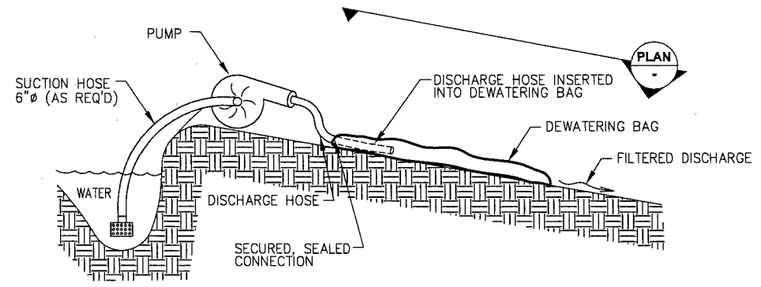
2 SILT BARRIER



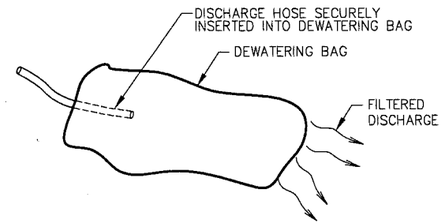
NOTES:

1. SANDBAGS SHALL BE 14"X26" POLYPROPYLENE, OR COMPARABLE, AS APPROVED BY THE ENGINEER.
2. SANDBAGS SHALL BE PLACED TIGHTLY.
3. SANDBAG BARRIERS SHALL BE A MINIMUM OF 3 BAGS HIGH.
4. THE END OF THE BARRIER SHALL BE TURNED UPSLOPE WHERE APPLICABLE.
5. SANDBAG ROWS AND LAYERS SHALL BE STAGGERED TO ELIMINATE GAPS.

3 SAND BAG



SECTION



DISCHARGE BAG PLAN

NOTES:

1. DEWATERING BAG SHALL BE NONWOVEN, POLYPROPYLENE GEOTEXTILE WITH THE FOLLOWING MINIMUM SPECIFICATIONS:

PROPERTY	TEST METHOD	MARV
TENSILE GRAB STRENGTH	ASTM D-4632	270 LBS
ELONGATION	ASTM D-4632	50%
PUNCTURE	ASTM D-4833	165 LBS
MULLEN BURST	ASTM D-3786	525 PSI
TRAPEZOIDAL TEAR	ASTM D-4533	100 LBS
UV RESISTANCE	ASTM D-4355	70%
APPARENT OPENING SIZE	ASTM D-4751	100 SIEVE
PERMITTIVITY	ASTM D-4491	0.94 SEC^-1
WATER FLOW RATE	ASTM D-4491	75GPM/SQFT

4 SUMP PUMP W/DEWATERING BAG

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KTN Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\E1-E5.DWG
LANCE GREER
TAB: E5 Monday, April 02, 2012 4:32:16 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA Christopher Gianotti CE-7559 REGISTERED PROFESSIONAL ENGINEER
A-21Z

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

DRAWN BY: NAM

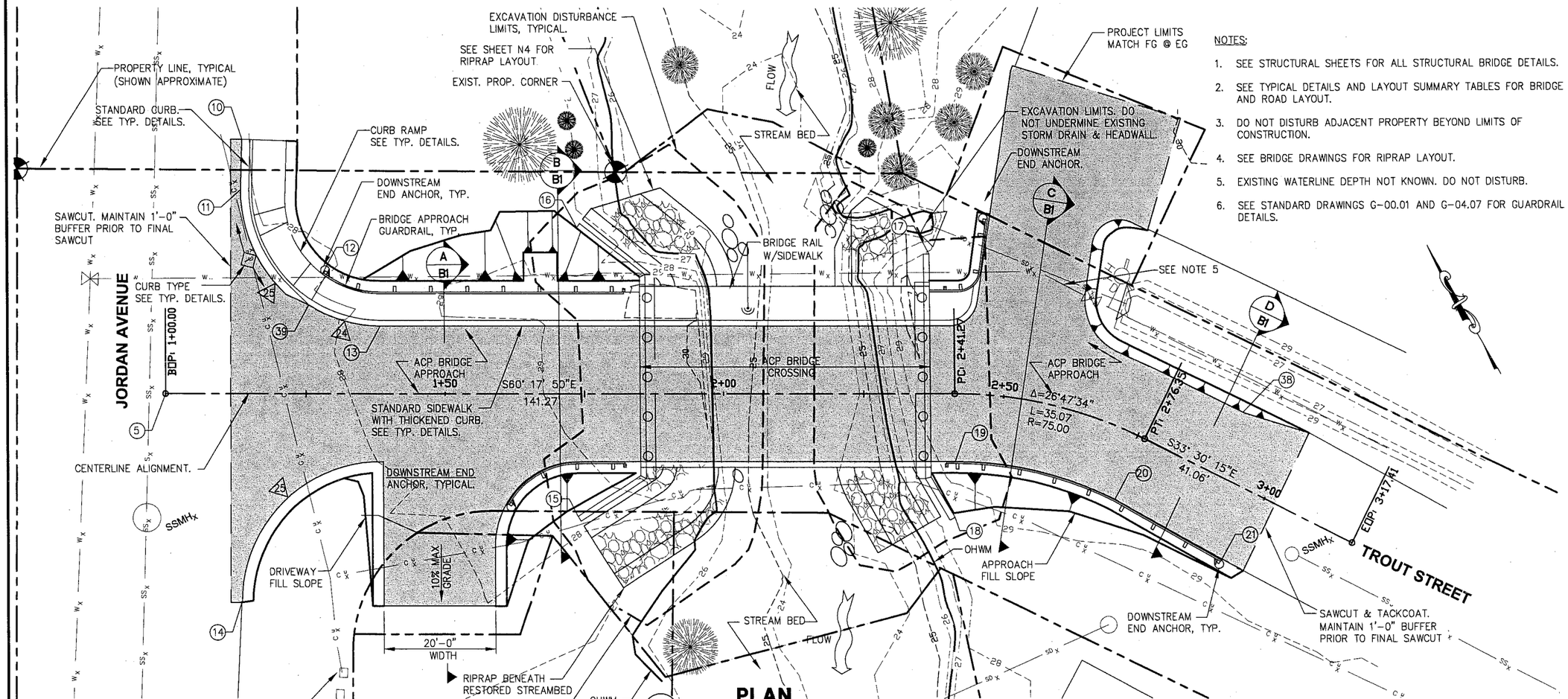
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

EROSION CONTROL & DIVERSION AND DEWATERING DETAILS

PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
E5	29



1 **PLAN**

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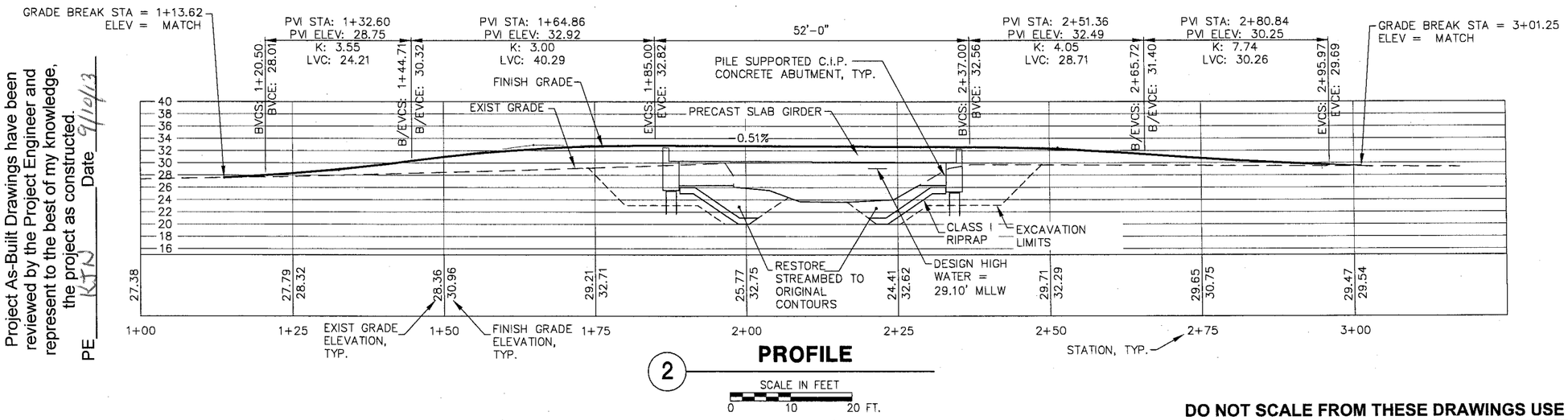


2 **PROFILE**

SCALE IN FEET
0 10 20 FT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KTN Date 9/12/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

NOTES:

1. SEE STRUCTURAL SHEETS FOR ALL STRUCTURAL BRIDGE DETAILS.
2. SEE TYPICAL DETAILS AND LAYOUT SUMMARY TABLES FOR BRIDGE AND ROAD LAYOUT.
3. DO NOT DISTURB ADJACENT PROPERTY BEYOND LIMITS OF CONSTRUCTION.
4. SEE BRIDGE DRAWINGS FOR RIPRAP LAYOUT.
5. EXISTING WATERLINE DEPTH NOT KNOWN. DO NOT DISTURB.
6. SEE STANDARD DRAWINGS G-00.01 AND G-04.07 FOR GUARDRAIL DETAILS.

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\F1.DWG

LANCE GREER
TAB: F1 Monday, April 02, 2012 4:31:48 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

- AC PAVEMENT
- EDGE OF ACP
- RADIUS (25)
- LAYOUT POINT (5)
- GUARD RAIL
- RIPRAP, SEE SHEET N4
- ROCK CLUSTERS, SEE SHEET. N4
- EXIST. HYDRANT
- CURB TYPE (#)

CHECKED BY: CMG

STATE OF ALASKA
Christopher Gianotti
CE-7559
REGISTERED PROFESSIONAL ENGINEER
4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM
DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

TROUT STREET PLAN AND PROFILE

PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
F1	29

ROAD LAYOUT

POINT	STATION	OFFSET (FT) LEFT	OFFSET (FT) RIGHT	ELEV.	DESCRIPTION
⑤	TROUT STREET 1+00.00	0			℄ BP, N=5505.30, E=5177.61
⑥	TROUT STREET 3+17.41	0		–	℄ EP, N=5377.31, E=5348.36
⑩	TROUT STREET 1+13.67	44.90		MATCH	CORNER ACP
⑪	TROUT STREET 1+14.80	36.00		–	PC, ACP/BEGIN STD CURB
⑫	TROUT STREET 1+28.00	21.15		–	GUARDRAIL END TERMINAL
⑬	TROUT STREET 1+38.39	12.00		–	PT, ACP
⑭	TROUT STREET 1+13.39		37.00	MATCH	PC, ACP
⑮	TROUT STREET 1+73.65		21.60	–	BACK CORNER, ABUT WINGWALL
⑯	TROUT STREET 1+73.70	29.30		–	BACK CORNER, ABUT WINGWALL
⑰	TROUT STREET 2+37.00	24.65		–	BACK CORNER, ABUT WINGWALL
⑱	TROUT STREET 2+41.20		21.85		BACK CORNER, ABUT WINGWALL
⑲	TROUT STREET 2+41.30		12.00	–	PC, ACP
⑳	TROUT STREET 2+76.35		12.00	–	PT, ACP
㉑	TROUT STREET 2+98.00		13.00	–	GUARDRAIL END TERMINAL
㉒	TROUT STREET 1+38.80		12.00	–	PT/CORNER, ACP
㉓	TROUT STREET 1+38.80		37.50	MATCH	CORNER ACP
㉔	TROUT STREET 1+58.80		37.50	MATCH	CORNER ACP
㉕	TROUT STREET 1+58.80		27.00	–	PC, ACP
㉖	TROUT STREET 1+60.90		19.60	–	GUARDRAIL END TERMINAL
㉗	TROUT STREET 1+73.80		12.00	–	PC, ACP
㉘	TROUT STREET 2+40.50	12.00		–	PC, ACP
㉙	TROUT STREET 2+44.50	16.30		–	PT, ACP
㉚	TROUT STREET 2+45.00	21.50		–	PT, GUARDRAIL
㉛	TROUT STREET 2+45.80	31.00		–	GUARDRAIL END TERMINAL
㉜	TROUT STREET 2+47.50	58.40		MATCH	COR, ACP
㉝	TROUT STREET 2+65.40	55.20		MATCH	COR, ACP
㉞	TROUT STREET 2+65.30	34.40		MATCH	PC, ACP
㉟	TROUT STREET 2+59.50	29.50		–	PT, ACP
㊱	TROUT STREET 2+60.00	20.85		–	PC, ACP
㊲	TROUT STREET 2+67.40	12.00		MATCH	COR, ACP
㊳	TROUT STREET 2+89.90	12.00		–	COR, ACP
㊴	TROUT STREET 1+25.70	15.90		–	TRANSITION CURB

NOTE:
1. WHERE ELEVATIONS ARE NOT PROVIDED, DETERMINE BY PROFILE AND TYPICAL SECTIONS.
2. SEE STRUCTURAL SHEETS FOR ALL STRUCTURAL DETAILS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KJW Date 9/10/13

PLANS PREPARED BY
PND ENGINEERS, INC.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
Christopher Gianotti
PE-7559
REGISTERED PROFESSIONAL ENGINEER
4-2-12

DESIGNED BY: NAM
DRAWN BY: NAM

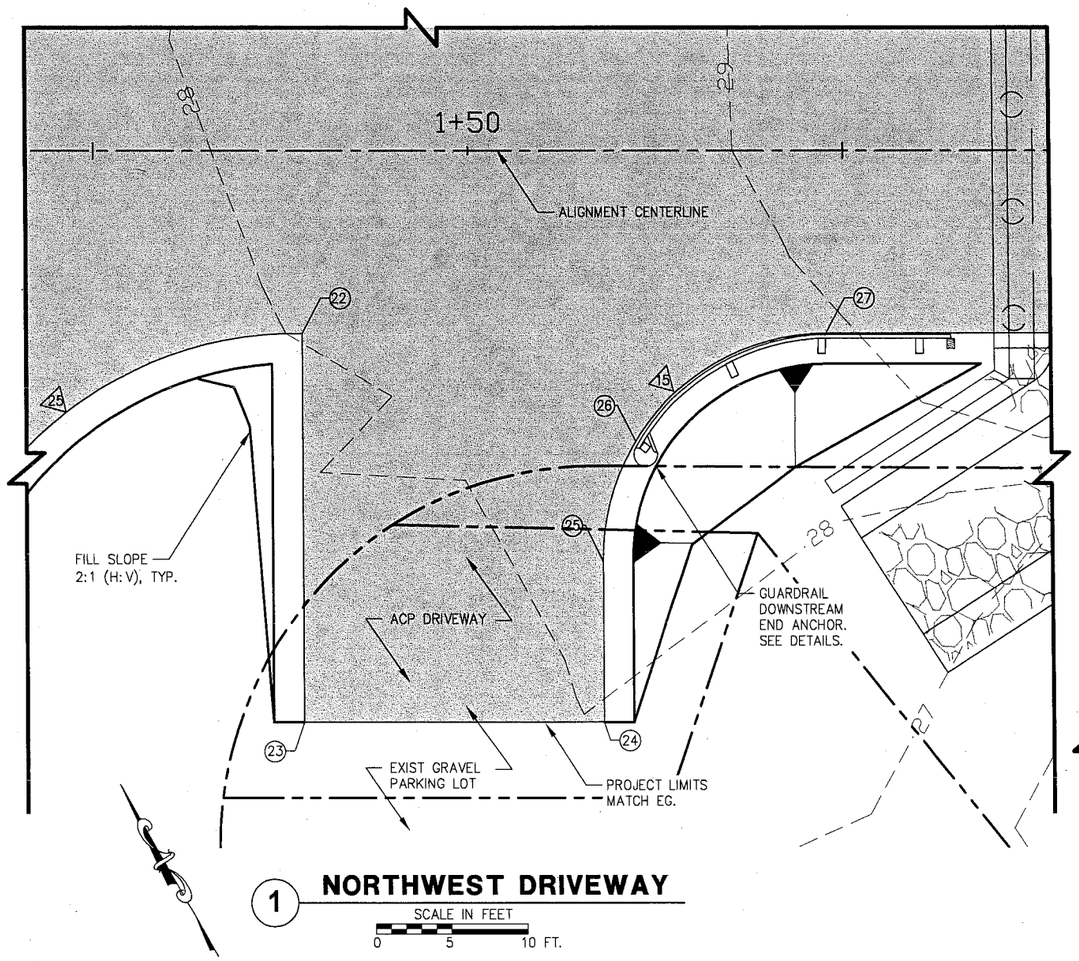
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR
& UPGRADE
TROUT STREET BRIDGE
NO.1786

ROAD LAYOUT TABLE

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\F2.DWG
TAB: F2 Monday, April 02, 2012 4:31:42 PM LANCE GREER

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	F2	29



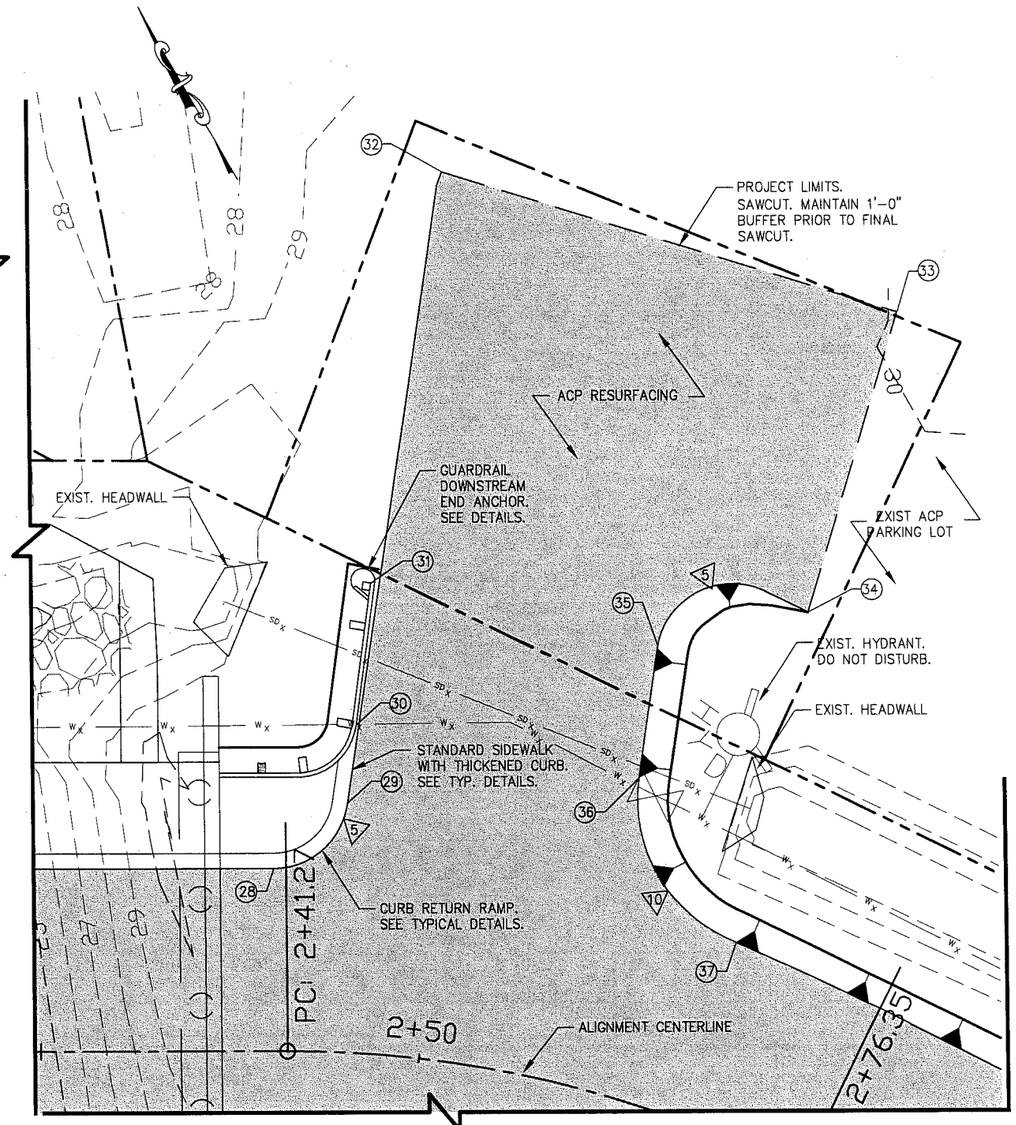
1 NORTHWEST DRIVEWAY

SCALE IN FEET
0 5 10 FT.

NOTE:
1. SEE STANDARD DRAWING G-04.07 FOR STEEL GUARDRAIL DETAILS

SURVEY NOTES:

1. SEE SITE PLAN AND LAYOUT TABLES FOR ALL LAYOUT INFORMATION.



2 SOUTHEAST DRIVEWAY

SCALE IN FEET
0 5 10 FT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJM Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\G1.DWG

LANCE GREER
TAB: G1 Monday, April 02, 2012 4:31:37 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PROPERTY LINES

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA
Christopher Gianotti
CE-7559
REGISTERED PROFESSIONAL ENGINEER
4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

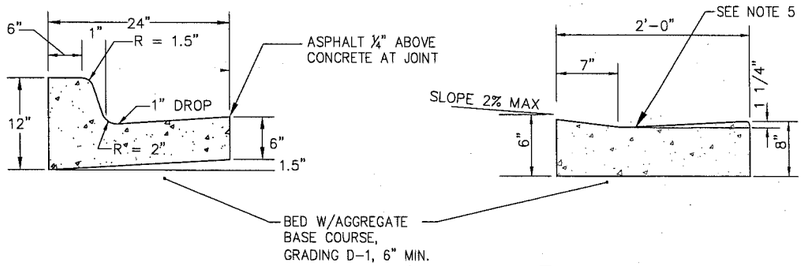
DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

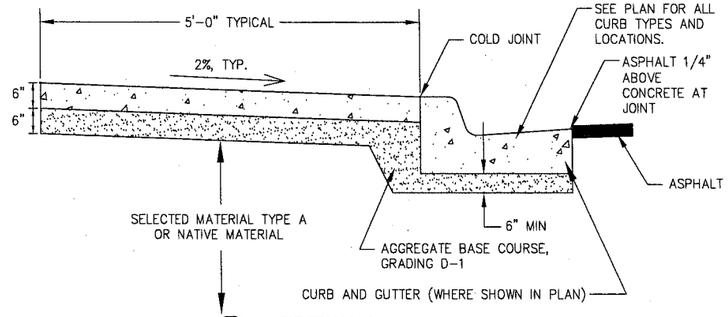
DRIVEWAYS & INTERSECTIONS

PROJECT DESIGNATION	
69561/AC-BR-0003(151)	
STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
G1	29

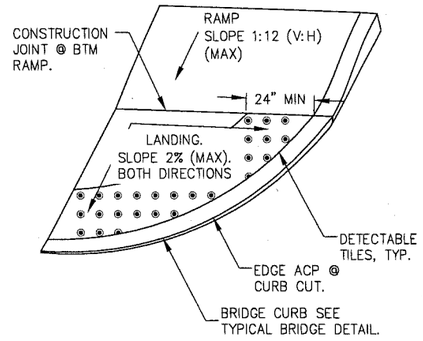


1 TYPE I STANDARD CURB AND GUTTER

2 ADA CURB CUT

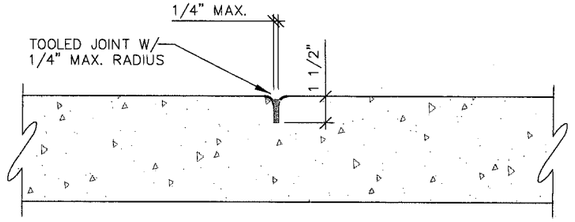


5 SIDEWALK



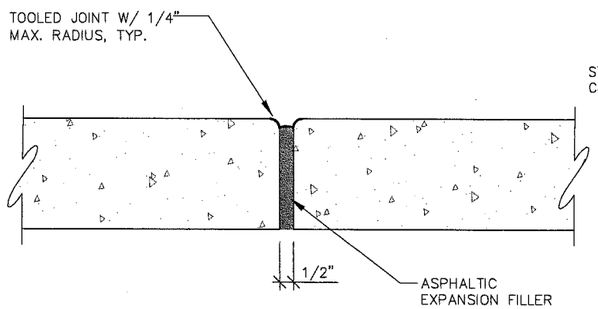
7 CURB RETURN RAMP

NOTES:
1. ALL JOINTS AND SEAMS SHALL BE EDGED.
2. EXPANSION JOINTS SHALL BE MAX ½", MIN ¼", WITH NO GAPS FOR WATER INTRUSION.
3. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES.
4. "CONCRETE INTERNATIONAL CORPORATION", "CURECRETE DISTRIBUTION" OR "CONCORD INDUSTRIAL COATINGS PTY. LTD. ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS.
5. TRANSITION AT CURB CUTS SHALL BE FLUSH (LEVEL) AND FREE OF ABRUPT CHANGES, AS SHOWN.



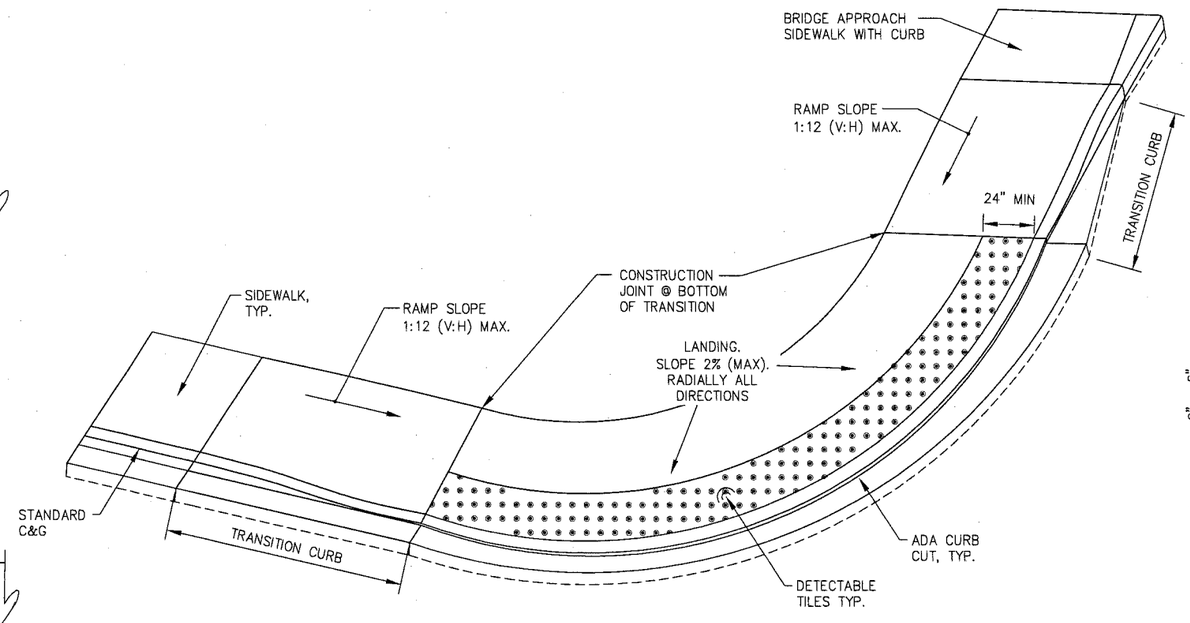
NOTES:
1. CONTROL JOINTS SHALL BE LOCATED AT 6'-0" O.C. TYP.

3 SIDEWALK CONTROL JOINT



NOTES:
1. EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM 30'-0" O.C.

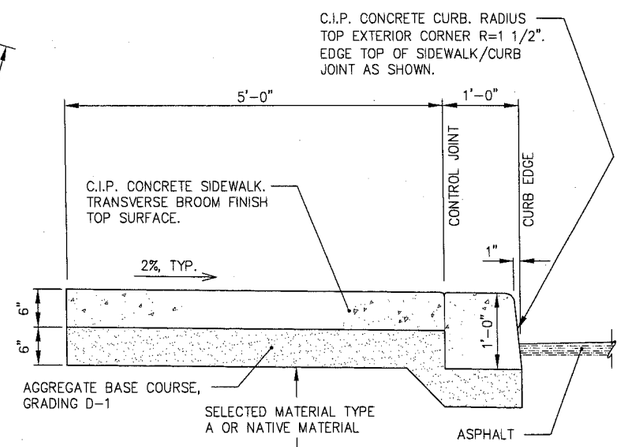
4 SIDEWALK EXPANSION JOINT



6 CURB RAMP

NOTES:

1. INSTALL DETECTABLE TILES THE FULL WIDTH OF RAMP AND DEPTH AS SHOWN. CURB RAMP SHALL CONFIRM TO STANDARD DRAWING I-21.01.



8 SIDEWALK SECTION AT THICKENED CURB

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJW Date 9/10/13

PLANS PREPARED BY PND ENGINEERS, INC.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

DESIGNED BY: NAM
DRAWN BY: NAM

TYPICAL DETAILS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\J1.DWG
TAB: J1 Monday, April 02, 2012 4:31:32 PM LANCE GREER

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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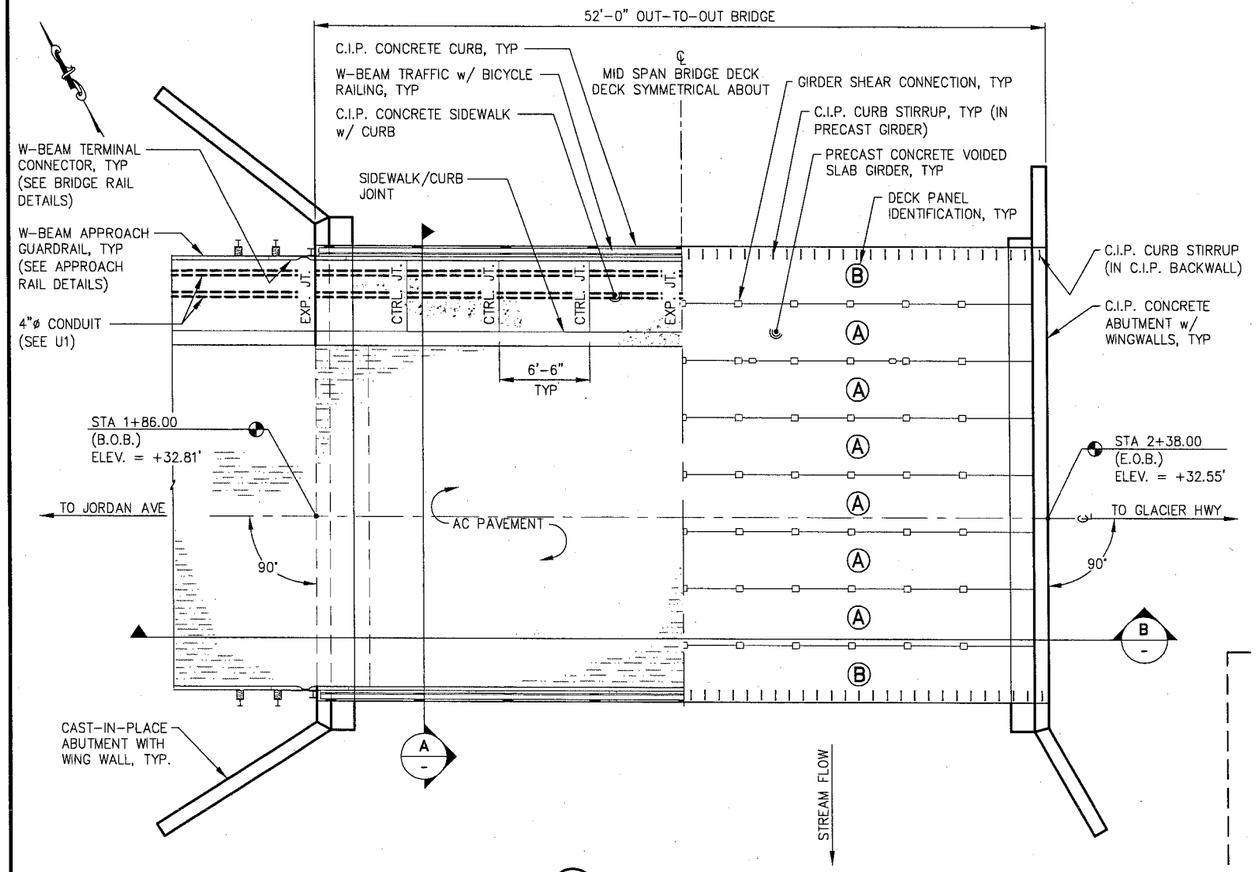
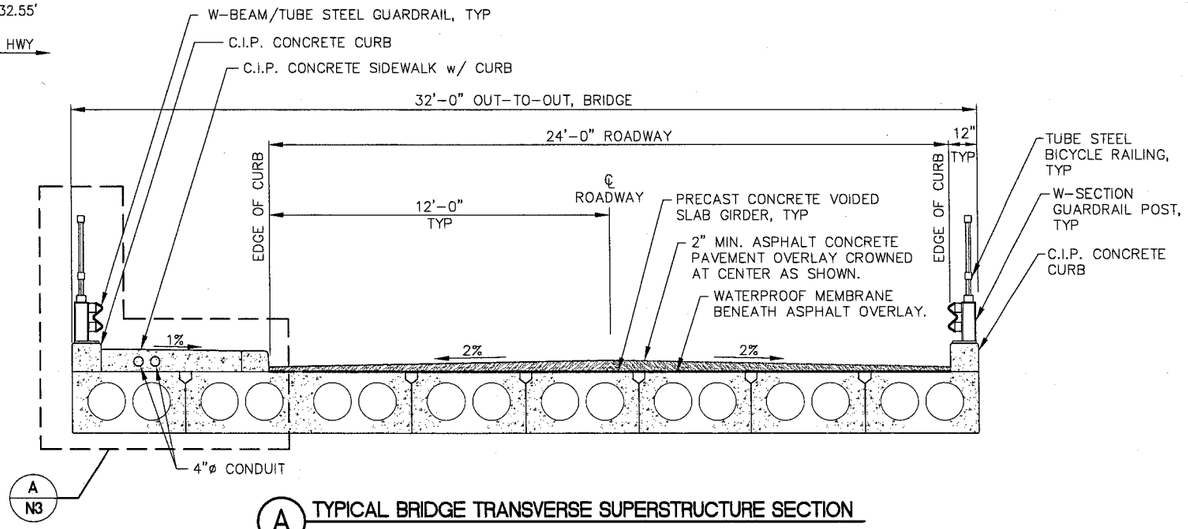
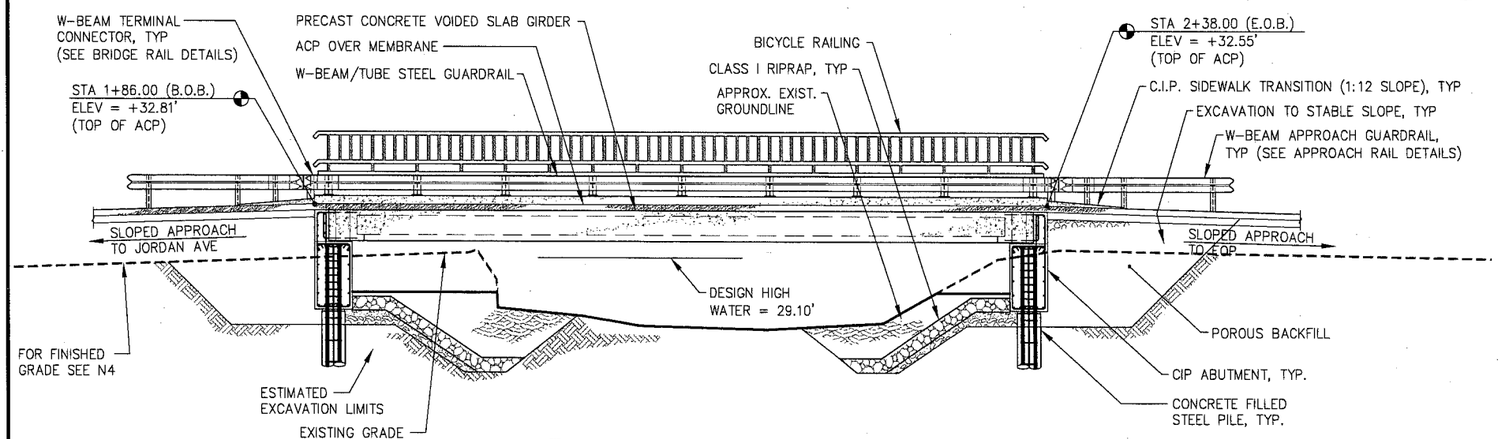


1 BRIDGE DECK - PLAN

BRIDGE DRAWING INDEX	
TITLE	DRAWING NO.
BRIDGE PLAN AND SECTIONS	N1
BRIDGE SITE PLAN	N2
TYPICAL SIDEWALK SECTION AND DETAILS	N3
RIPRAP PLAN AND SECTION	N4
BRIDGE ABUTMENT NO. 1 (NORTHWEST)	N5
BRIDGE ABUTMENT NO. 2 (SOUTHEAST)	N6
ABUTMENT DETAILS	N7
BRIDGE VOIDED SLAB GIRDERS	N8
BRIDGE RAIL ON CURB	N9
BRIDGE RAIL DETAILS	N10



A TYPICAL BRIDGE TRANSVERSE SUPERSTRUCTURE SECTION



B BRIDGE - LONGITUDINAL SECTION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJM Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

BRIDGE PLAN AND SECTIONS

STATE OF ALASKA — Christopher Gianotti — CE-7559 — REGISTERED PROFESSIONAL ENGINEER — 4-2-12

DESIGNED BY: JD/MB/CG
DRAWN BY: LRG

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N1.DWG
TAB: N1 Monday, April 02, 2012 4:34:43 PM LANCE GREER

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
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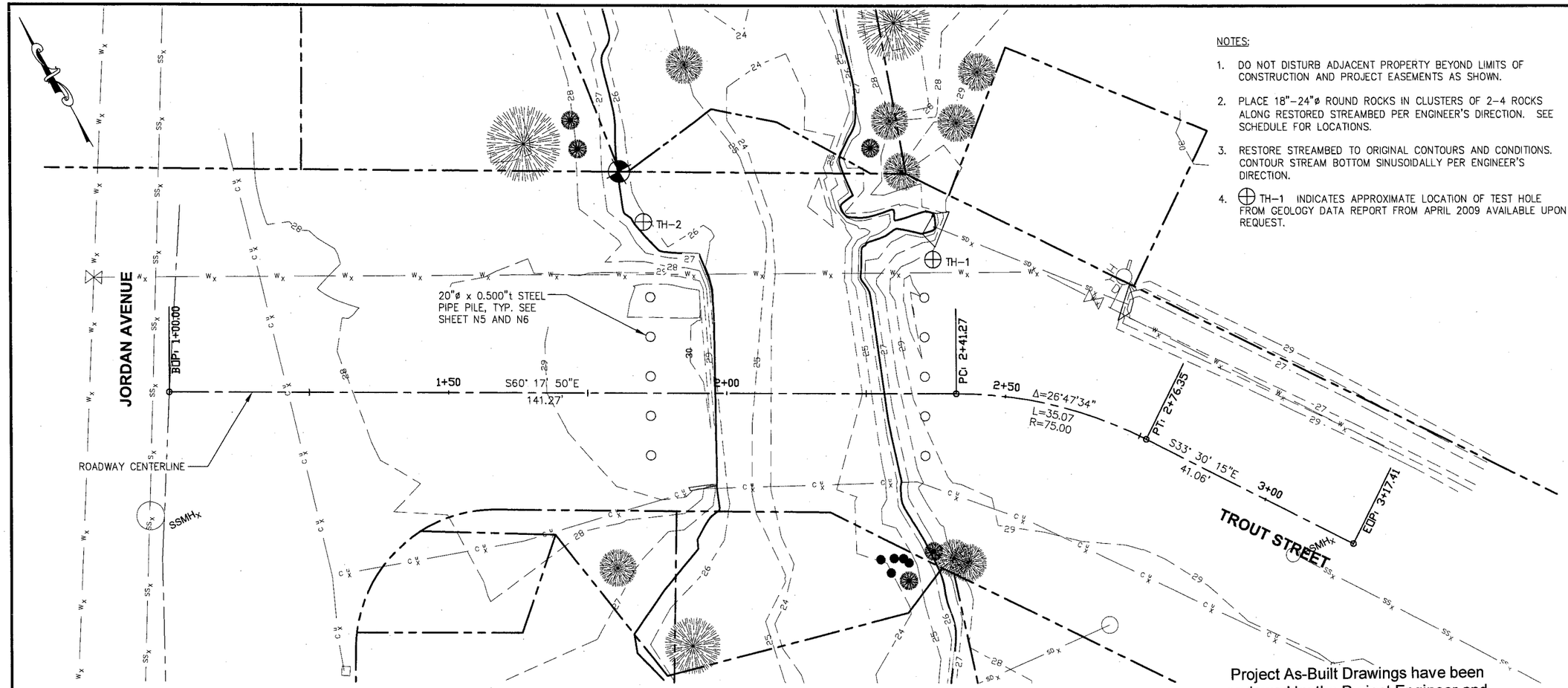
PLANS PREPARED BY PND ENGINEERS, INC.



NOTES:

1. DO NOT DISTURB ADJACENT PROPERTY BEYOND LIMITS OF CONSTRUCTION AND PROJECT EASEMENTS AS SHOWN.
2. PLACE 18"–24"ø ROUND ROCKS IN CLUSTERS OF 2–4 ROCKS ALONG RESTORED STREAMBED PER ENGINEER'S DIRECTION. SEE SCHEDULE FOR LOCATIONS.
3. RESTORE STREAMBED TO ORIGINAL CONTOURS AND CONDITIONS. CONTOUR STREAM BOTTOM SINUSOIDALLY PER ENGINEER'S DIRECTION.
4. ⊕ TH–1 INDICATES APPROXIMATE LOCATION OF TEST HOLE FROM GEOLOGY DATA REPORT FROM APRIL 2009 AVAILABLE UPON REQUEST.

1 BRIDGE SITE PLAN

SCALE IN FEET
0 10 20 FT.

HYDROLOGIC AND HYDRAULIC SUMMARY

RETURN PERIOD	2 yrs	50 yrs	100 yrs	500 yrs
EXCEEDANCE PROBABLILY	50%	2%	1%	0.2%
DESIGN DESCHARGE (cfs)	99 cfs	329 cfs	389 cfs	530 cfs
DESIGN HIGH WATER (ft MLLW)	26.3 ft	28.8 ft	29.1 ft	29.6 ft
DRAINAGE AREA	2.6 SQUARE MILES FOR THIS CROSSING			
ANTICIPATED ADDITIONAL BACKWATER (ft)	0.0	0.0	0.0	0.0
CONTRACTION SCOUR (ft)	0.0	0.0	0.0	0.0
ABUTMENT SCOUR (ft)	0.0	0.0	0.0	0.0
PIER SCOUR (ft)	NA	NA	NA	NA

PILE DATA TABLE

DRIVING CRITERIA					*DESIGN DATA*		
LOCATION	*PILE TYPE*	*MNIMUM PENETRATIO N (ft)*	*ESTIMATED TIP ELEVATION (ft)*	*DRIVING RESISTANCE (KIPS)*	*STRENGTH I FACTORED LOAD (KIPS)*	*NOMINAL RESISTANCE (KIPS)*	*RESISTANCE FACTOR, ø*
ABUTMENT 1	20"øx0.500"t STEEL PIPE	90	–65	265	171	265	0.65
ABUTMENT 2	20"øx0.500"t STEEL PIPE	90	–65	265	171	265	0.65

STRUCTURAL GENERAL NOTES

1.0 DESIGN CRITERIA

1.1 CODE

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION, 2010 WITH LATEST INTERIM SPECIFICATIONS

1.2 LOADS

1.1 LIVE LOADS: HL 93
1.2 DEAD LOADS: INCLUDES 60 PSF FOR ACP WEARING SURFACE
1.3 SEISMIC PARAMETERS:
PGA= 0.169g
S_s = 0.393g
S1 = 0.213g
SITE CLASS E
LIQUEFACTION POTENTIAL HIGH
AASHTO 7% PROBABLILITY OF EXCEEDENCE IN 75 YEARS
1.4 HYDRAULIC CRITERIA: SEE SUMMARY TABLE THIS SHEET.

2.0 MATERIALS

2.1 STEEL PILING
USE STEEL PIPE PILING CONFORMING TO API 5L x 46 (Fy= 46 KSI) HOT–DIP GALVANIZE PILES IN ACCORDANCE WITH ASTM A123. USE CONICAL TIPS. WELD SPLICE PILES IN ACCORDANCE WITH AWS D1.1 AND UT ALL WELDED SPLICES.

2.2 CONCRETE REINFORCING
USE CONCRETE REINFORCING CONFORMING WITH ASTM A615, GRADE 60 EXCEPT WHERE REINFORCING IS DESIGNATED TO BE WELDED. WHERE WELDED USE REINFORCING CONFORMING TO ASTM A A706 GRADE 60. WELD IN ACCORDANCE WITH AWS D1.4.

2.3 CAST IN PLACE CONCRETE
USE CLASS A CONCRETE WITH A 28 DAY STRENGTH OF fc' = 4,000 PSI.

2.4 PRE–CAST, PRE–STRESSED CONCRETE VOIDED SLAB GIRDERS
USE CLASS AA CONCRETE WITH A 28 DAY STRENGTH OF fc' = 6,000 PSI

2.5 STRUCTURAL STEEL
USE THE FOLLOWING GRADES OF STEEL:
PLATE ASTM A36
W SECTIONS ASTM A992
PIPE ASTM A53, GRADE B
HSS ASTM A500 GRADE B, Fy = 46 KSI

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KTJ Date 9/10/13

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N2.DWG
LANCE GREER
TAB: N2 Monday, April 02, 2012 4:34:37 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA — Christopher Gimmell — CE-7559 — REGISTERED PROFESSIONAL ENGINEER — 4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

DRAWN BY: NAM

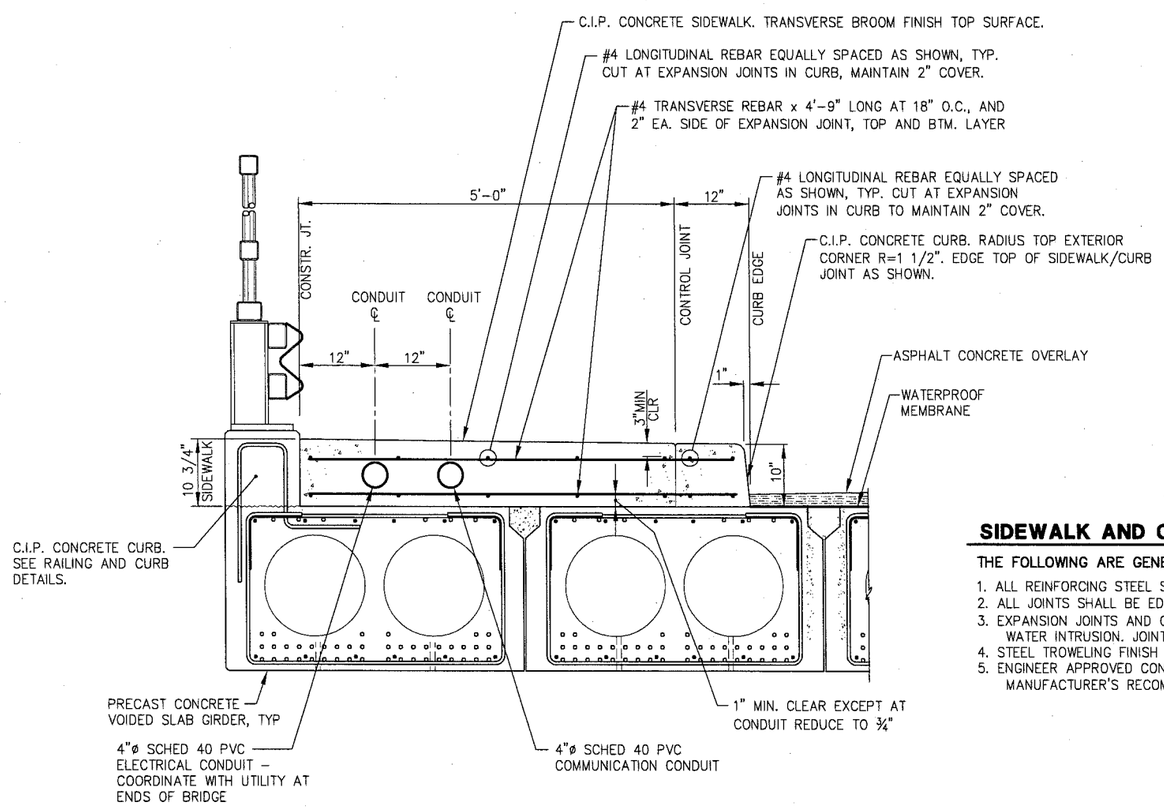
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

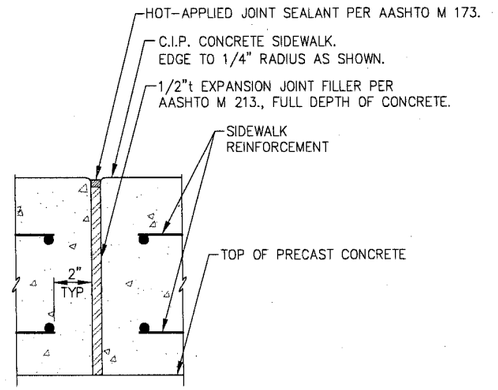
JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

BRIDGE SITE PLAN

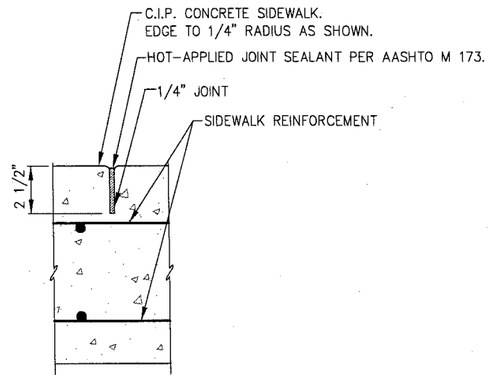
PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
N2	29





B SIDEWALK CONTROL JOINT DETAIL AT BOB AND EOB



C SIDEWALK CONTROL JOINT DETAIL

SIDEWALK AND CURB GENERAL NOTES

THE FOLLOWING ARE GENERAL NOTES THAT APPLY TO SIDEWALK CONSTRUCTION:

1. ALL REINFORCING STEEL SHALL HAVE MINIMUM OF 2" CONCRETE COVER EXCEPT AS NEEDED.
2. ALL JOINTS SHALL BE EDGED.
3. EXPANSION JOINTS AND CONTROL JOINTS SHALL BE MAX. ½", MIN. ¼", WITH NO GAPS FOR WATER INTRUSION. JOINTS SHALL BE LOCATED AS SHOWN ON BRIDGE PLAN.
4. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISH ON ALL SIDEWALK SURFACES.
5. ENGINEER APPROVED CONCRETE CURING COMPOUND SHALL BE APPLIED, PER MANUFACTURER'S RECOMMENDATIONS, TO ALL EXPOSED SIDEWALK SURFACES.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJW Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE
NO.1786

STATE OF ALASKA — Christopher Gianotti — CE-7559 — REGISTERED PROFESSIONAL ENGINEER
4-2-12

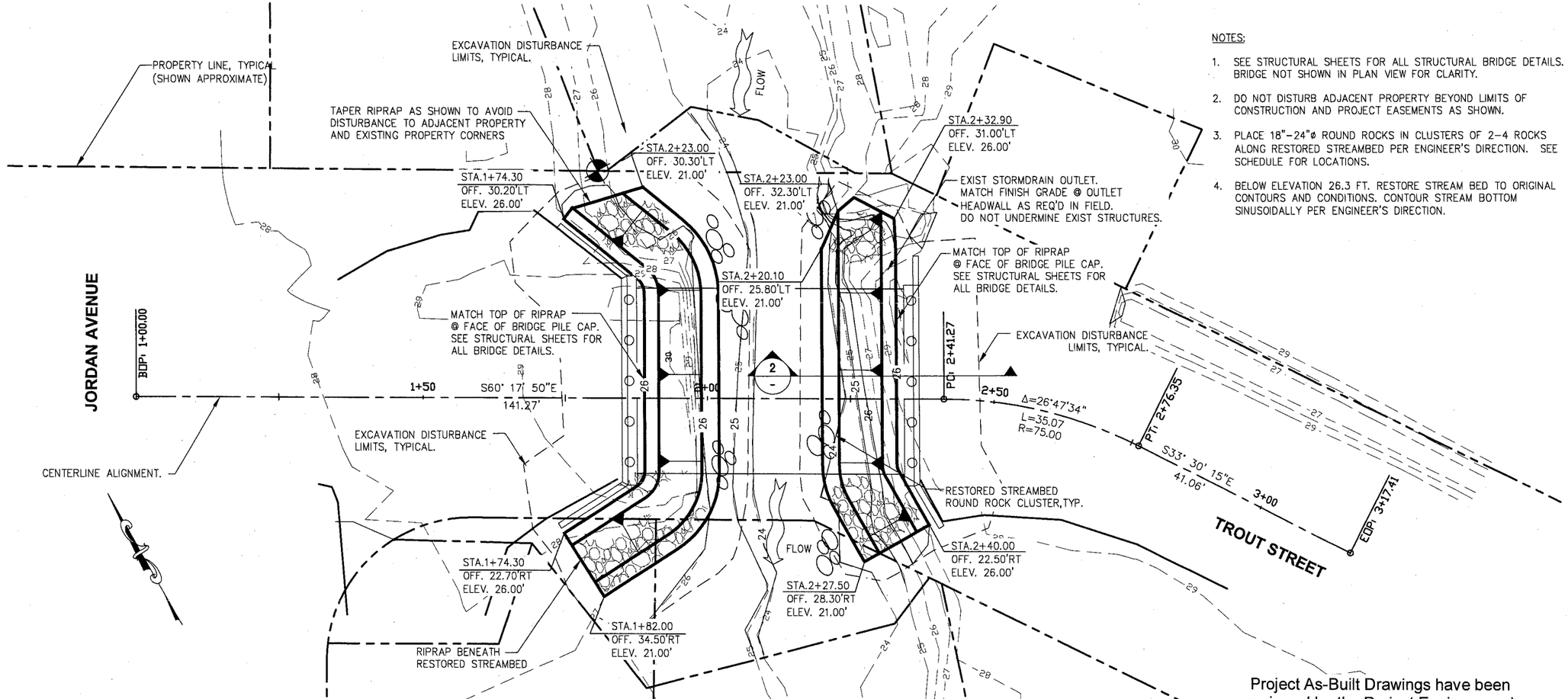
TYPICAL SIDEWALK SECTION AND DETAILS

DESIGNED BY: JLD
DRAWN BY: JLD / LRG

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N3.DWG
TAB: N3 Monday, April 02, 2012 4:34:33 PM LANCE GREER

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	N3	29

PLANS PREPARED BY PND ENGINEERS, INC.



NOTES:

1. SEE STRUCTURAL SHEETS FOR ALL STRUCTURAL BRIDGE DETAILS. BRIDGE NOT SHOWN IN PLAN VIEW FOR CLARITY.
2. DO NOT DISTURB ADJACENT PROPERTY BEYOND LIMITS OF CONSTRUCTION AND PROJECT EASEMENTS AS SHOWN.
3. PLACE 18"–24"ø ROUND ROCKS IN CLUSTERS OF 2–4 ROCKS ALONG RESTORED STREAMBED PER ENGINEER'S DIRECTION. SEE SCHEDULE FOR LOCATIONS.
4. BELOW ELEVATION 26.3 FT. RESTORE STREAM BED TO ORIGINAL CONTOURS AND CONDITIONS. CONTOUR STREAM BOTTOM SINUSOIDALLY PER ENGINEER'S DIRECTION.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13

ROUND ROCK CLUSTER SCHEDULE

STATION	OFFSET (FT) LEFT	OFFSET (FT) RIGHT	DESCRIPTION
TROUT STREET 2+03		11.5	3 ROCKS
TROUT STREET 2+06	14		4 ROCKS
TROUT STREET 2+01	27		3 ROCKS
TROUT STREET 2+20	32		5 ROCKS
TROUT STREET 2+22		6.5	4 ROCKS
TROUT STREET 2+21		28	3 ROCKS
TROUT STREET 1+94	30.5		4 ROCKS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVILIN4.DWG

LANCE GREER
TAB: N4 Monday, April 02, 2012 4:31:27 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA — Christopher Blanott — CE-7559 — REGISTERED PROFESSIONAL ENGINEER — 4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM

DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

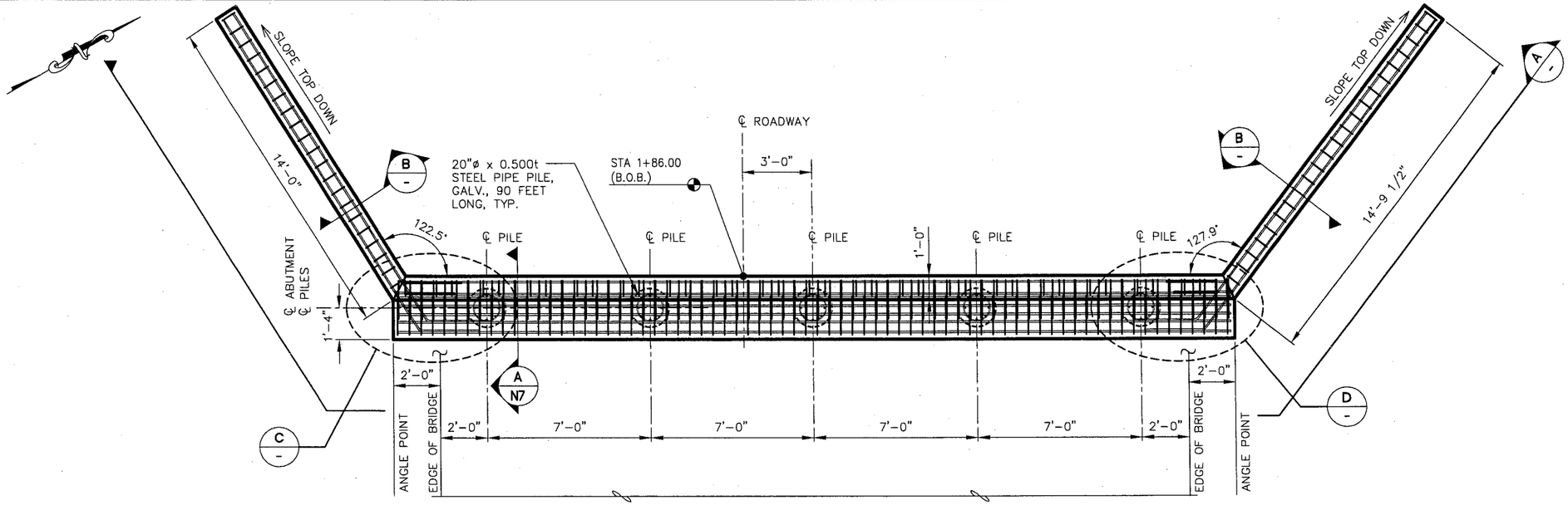
JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

RIPRAP PLAN AND SECTION

PROJECT DESIGNATION
69561/AC-BR-0003(151)

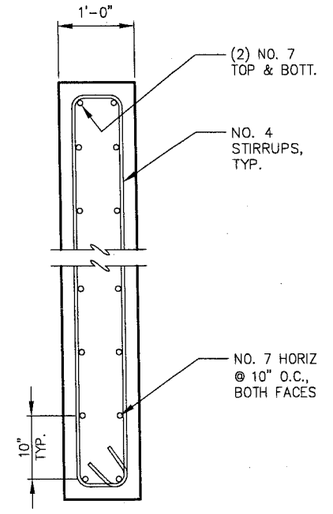
STATE	YEAR
ALASKA	2012

SHEET NUMBER	TOTAL SHEETS
N4	29

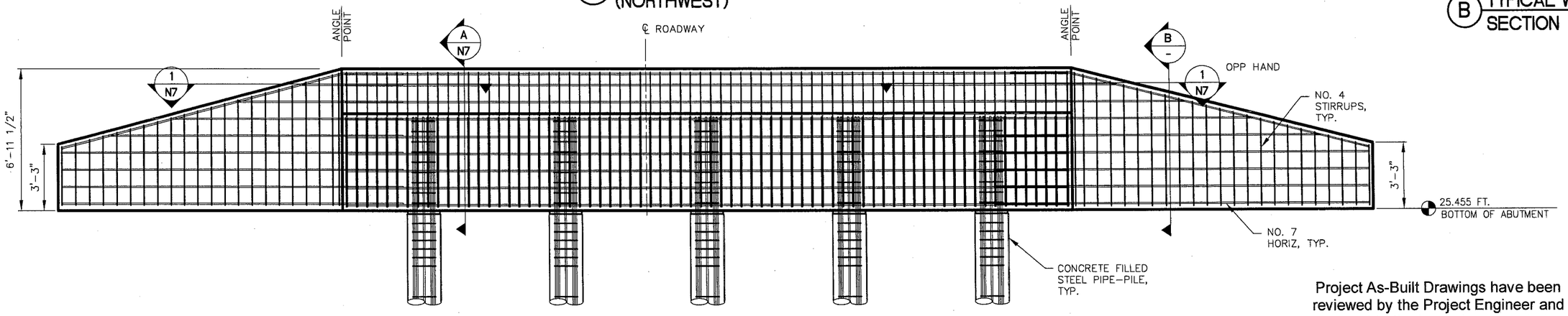


1 BRIDGE ABUTMENT NO. 1 - PLAN (NORTHWEST)

SCALE IN FEET
0 2 4ft.

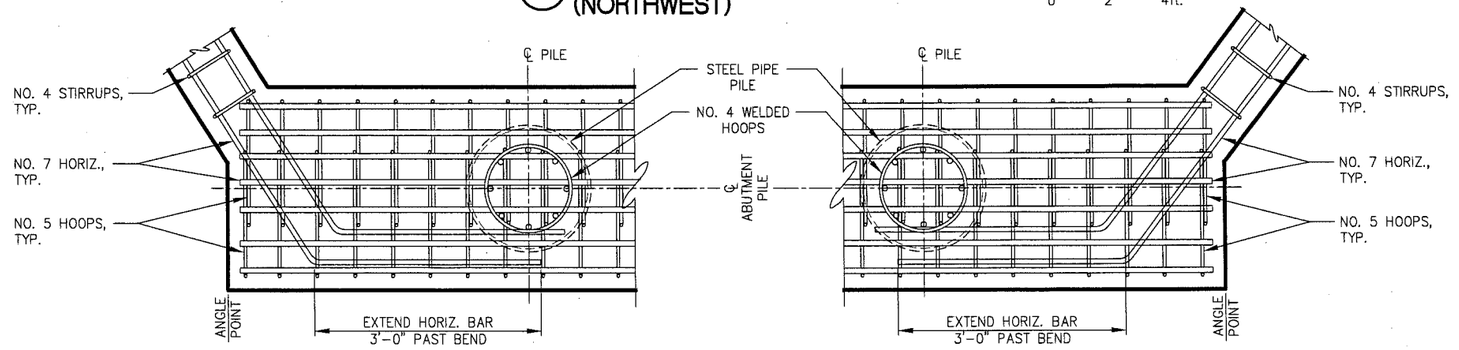


B TYPICAL WING WALL SECTION



A BRIDGE ABUTMENT NO. 1 - ELEVATION (NORTHWEST)

SCALE IN FEET
0 2 4ft.



C BRIDGE ABUTMENT AT ANGLE POINT

D BRIDGE ABUTMENT AT ANGLE POINT

PLANS PREPARED BY PND ENGINEERS, INC.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJN Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
Christopher Cinotti
PE-7559
REGISTERED PROFESSIONAL ENGINEER
4-2-12

DESIGNED BY: MB/CG
DRAWN BY: LRG

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N5.DWG
TAB: N5 Monday, April 02, 2012 4:34:29 PM LANCE GREER

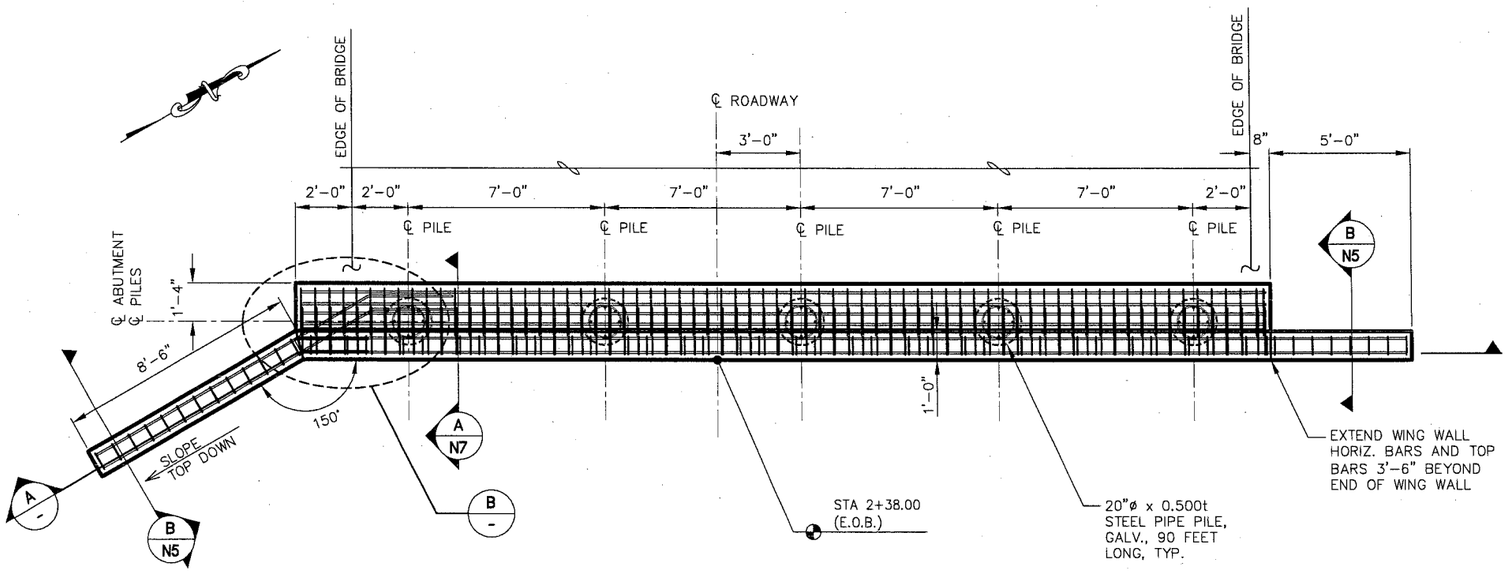
REVISIONS NO.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

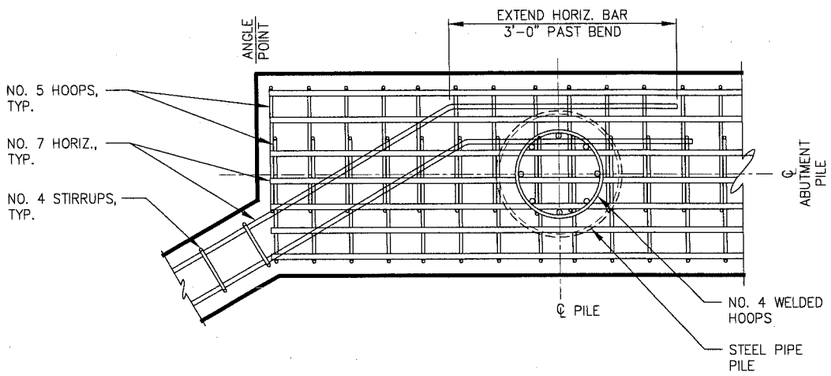
BRIDGE ABUTMENT NO. 1 (NORTHWEST)

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
69561/AC-BR-0003(151)	2012	N5	29

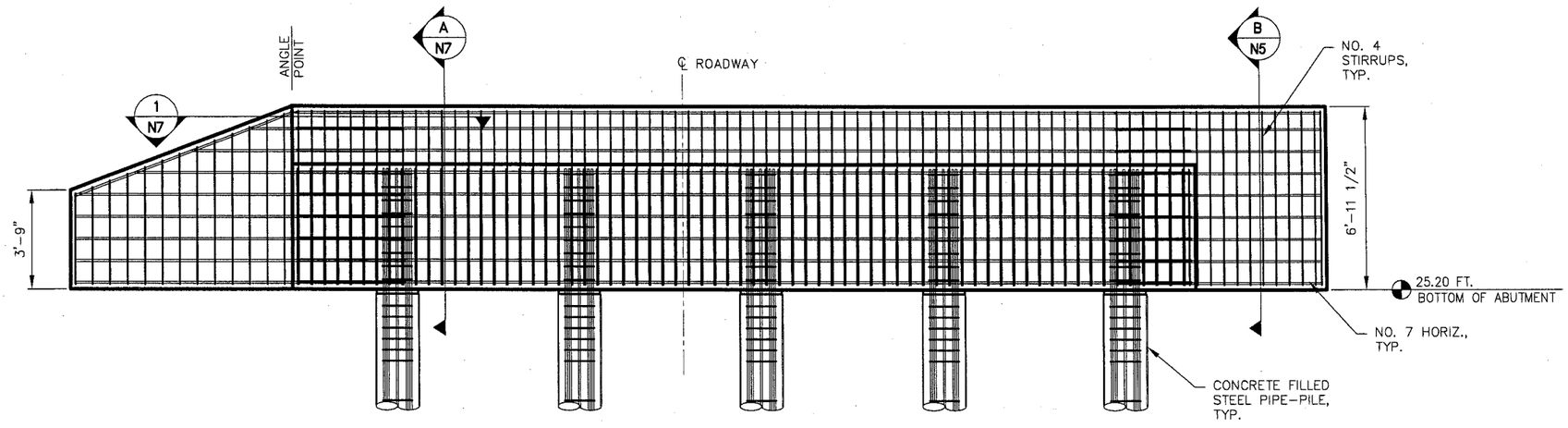


1 BRIDGE ABUTMENT NO. 2 - PLAN (SOUTHEAST)

SCALE IN FEET
0 2 4ft.



B BRIDGE ABUTMENT AT ANGLE POINT



A BRIDGE ABUTMENT NO. 2 - ELEVATION (SOUTHEAST)

SCALE IN FEET
0 2 4ft.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KJN Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PLANS PREPARED BY
PND ENGINEERS, INC.

CHECKED BY: CMG

STATE OF ALASKA
Christopher Gianotti
CE-7558
REGISTERED PROFESSIONAL ENGINEER
4-2-12

DESIGNED BY: BN/MB
DRAWN BY: LRG

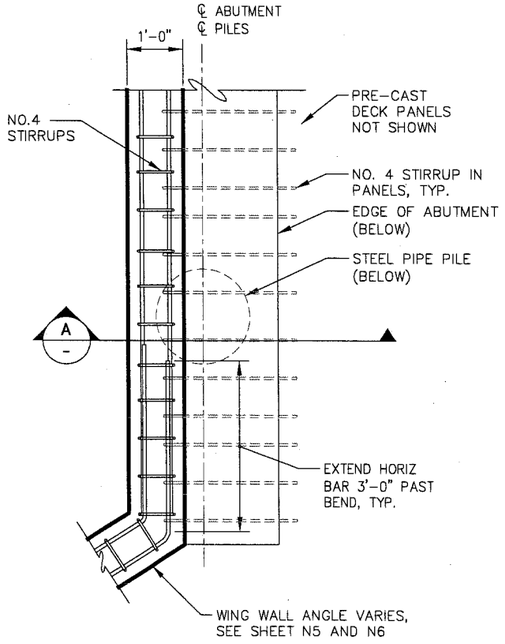
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

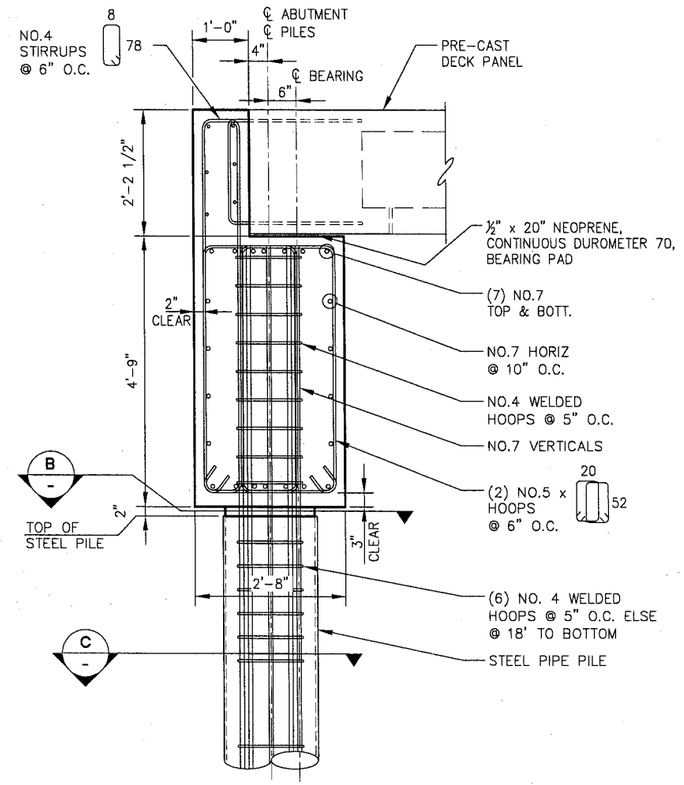
BRIDGE ABUTMENT NO. 2 (SOUTHEAST)

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N6.DWG
TAB: N6 Monday, April 02, 2012 4:34:24 PM LANCE GREER

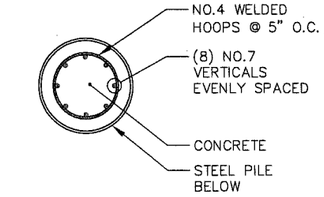
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	N6	29



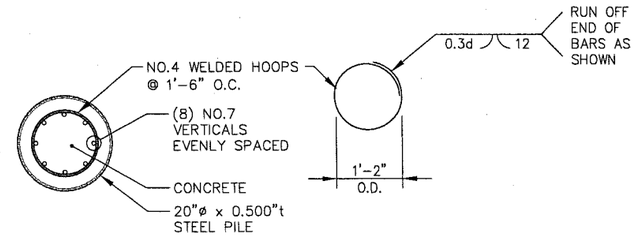
1 TYPICAL BRIDGE ABUTMENT WING WALL DETAIL



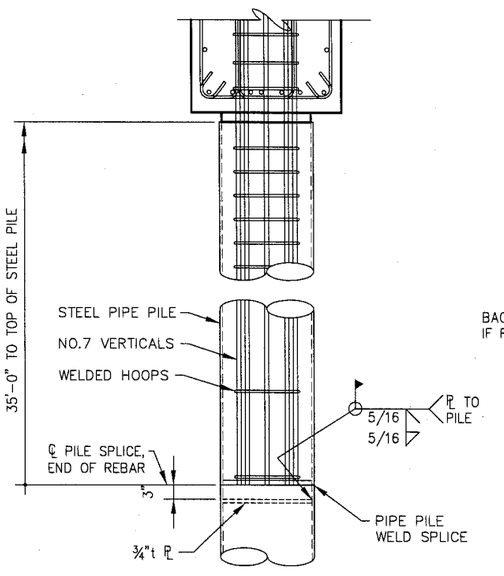
A PILE TO ABUTMENT CONNECTION SECTION



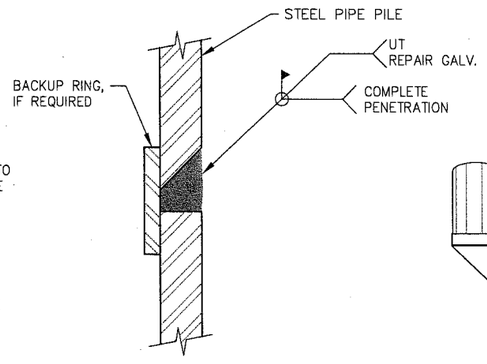
B TYPICAL PILE DETAILS



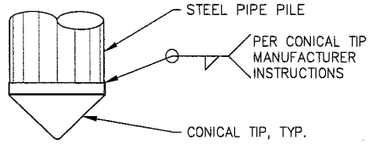
C WELDED HOOP DETAIL



D END OF CONCRETE IN PILE



E TYPICAL PIPE PILE WELD SPLICE



F PILE TIP DETAIL

TYPICAL ALL STEEL PILES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJW Date 9/10/13

PLANS PREPARED BY PND ENGINEERS, INC.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

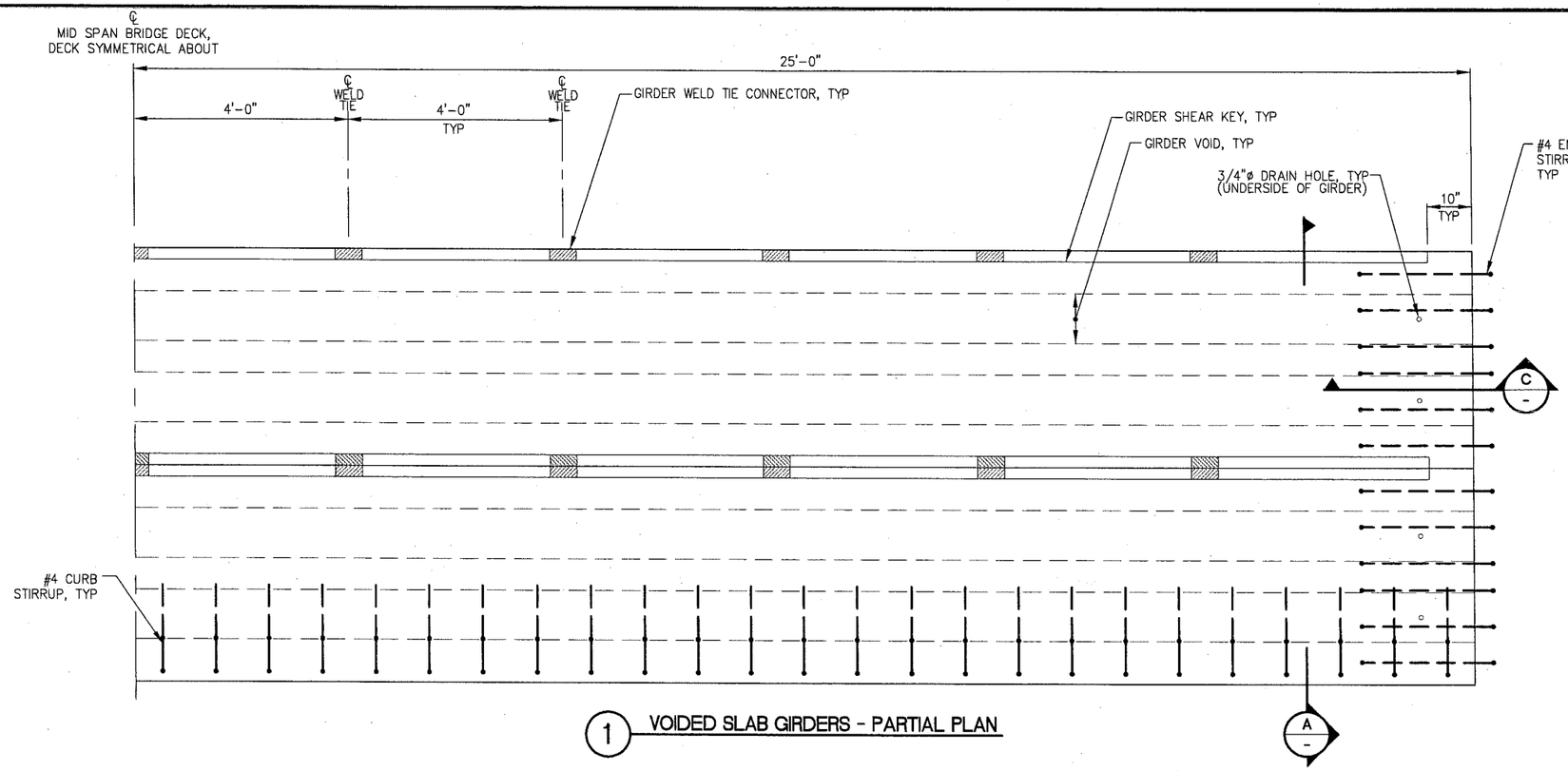
JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

ABUTMENT DETAILS

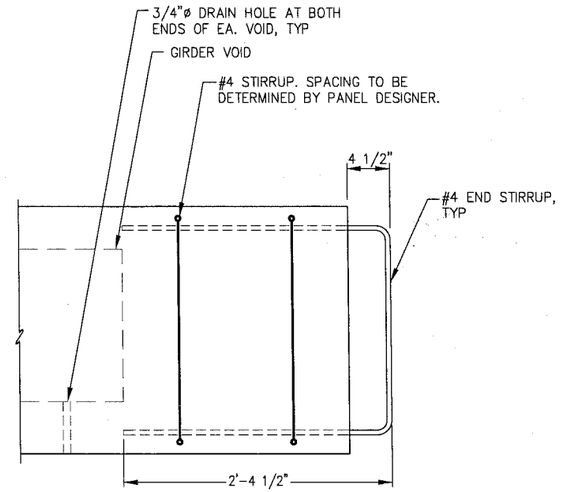
DESIGNED BY: BN/MB
DRAWN BY: LRG

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N7.DWG
TAB: N7 Monday, April 02, 2012 4:34:20 PM LANCE GREER

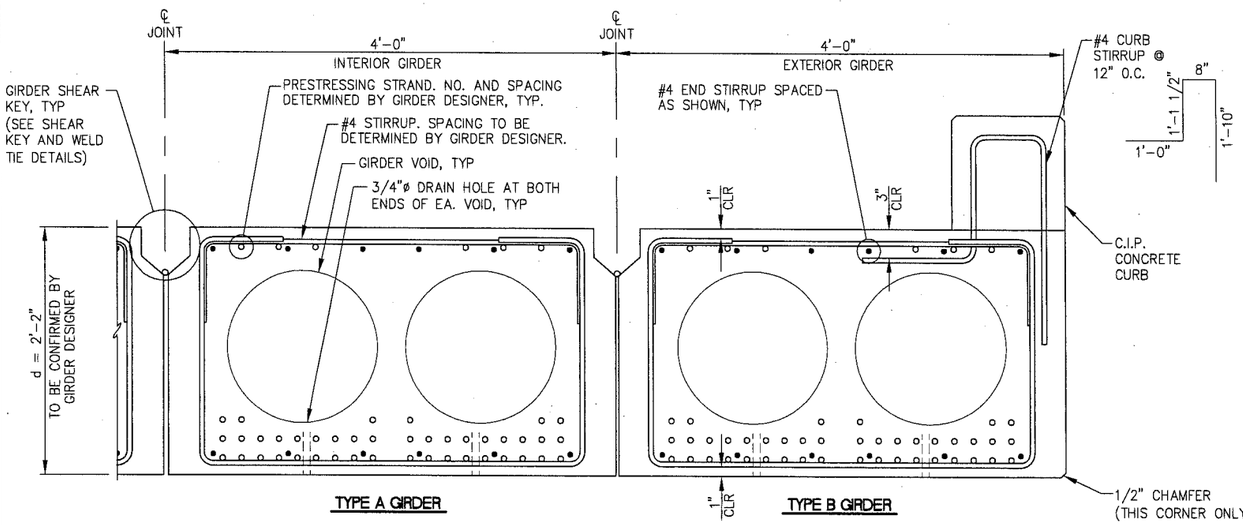
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	N7	29



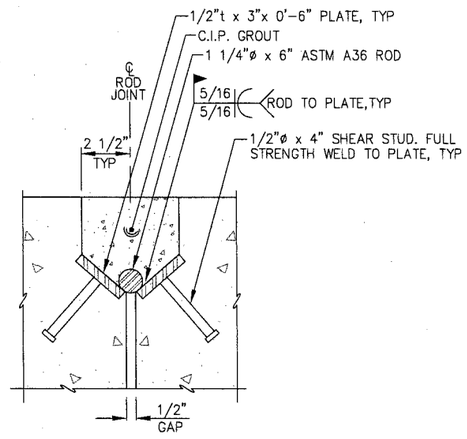
1 VOIDED SLAB GIRDERS - PARTIAL PLAN



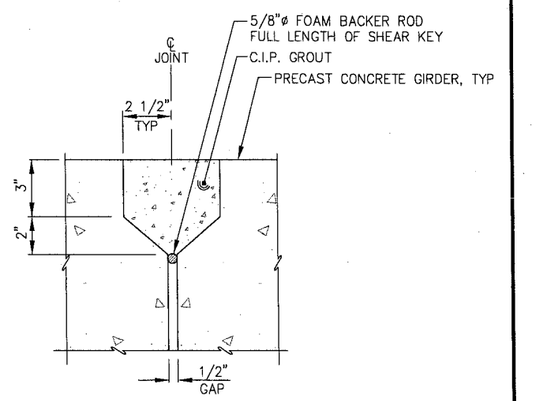
C VOIDED SLAB GIRDER END DETAIL



A VOIDED SLAB GIRDER SECTION



B TYPICAL WELDED TIE DETAIL



D TYPICAL GROUT JOINT DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KJW Date 9/10/13

VOIDED SLAB GIRDER GENERAL NOTES

GENERAL: THE FOLLOWING ARE GENERAL NOTES THAT APPLY TO FABRICATION OF PRESTRESS CONCRETE GIRDERS:

- PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
- PROVIDE A MAGNESIUM FLOAT FINISH ON ROADWAY SURFACE OF THE PRECAST MEMBER. ROUGHEN SURFACE UNDER C.I.P. CURB.
- PROVIDE LIFTING EMBEDMENTS AS REQUIRED.

PLANS PREPARED BY PND ENGINEERS, INC.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA, CHRISTOPHER J. DENOTTI, CE-7558, REGISTERED PROFESSIONAL ENGINEER, 4-2-12

DESIGNED BY: JLD

DRAWN BY: JLD / LRG

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N8.DWG

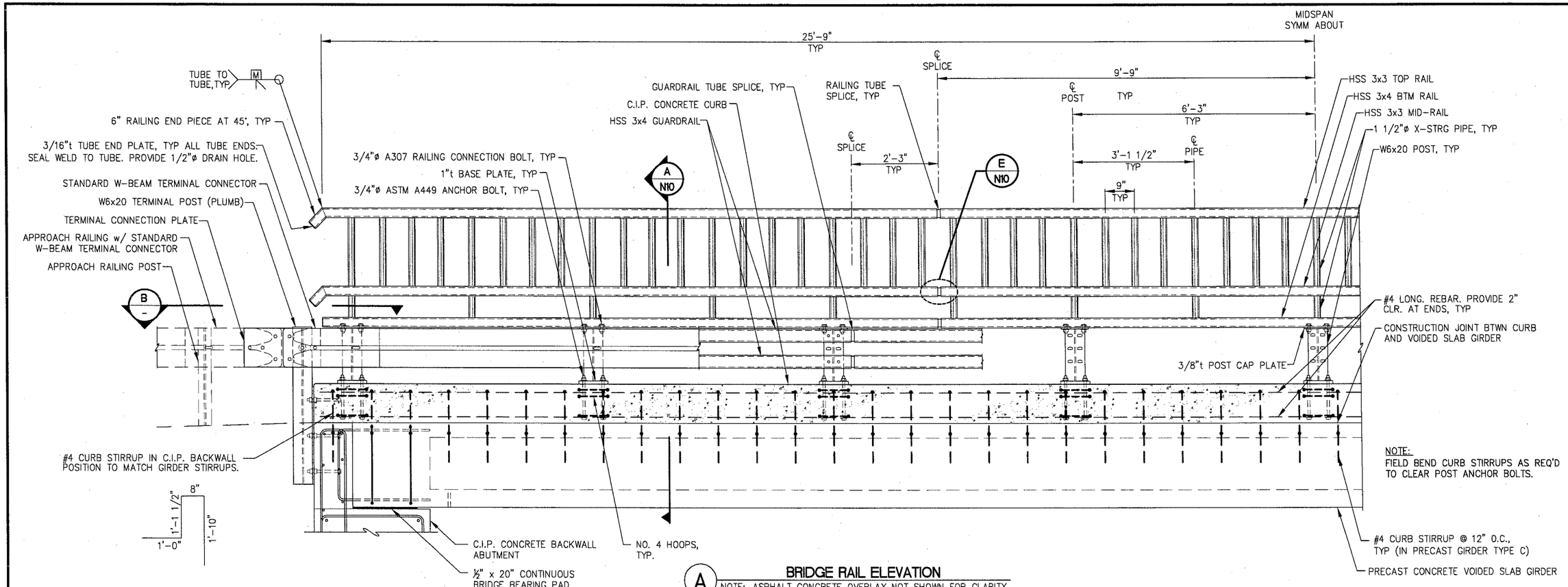
TAB: N8 Monday, April 02, 2012 4:34:14 PM LANCE GREER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

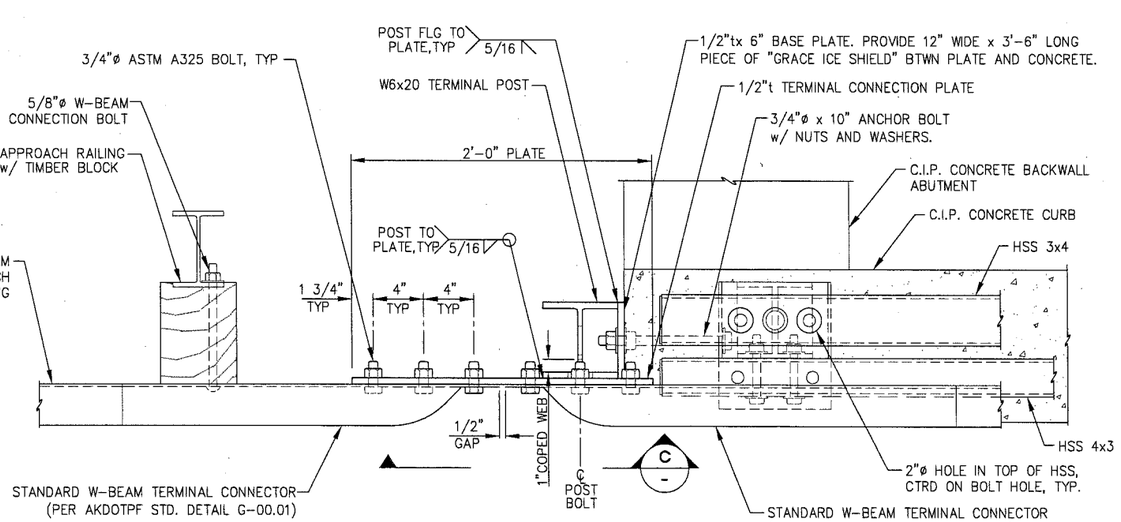
BRIDGE VOIDED SLAB GIRDERS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	N8	29



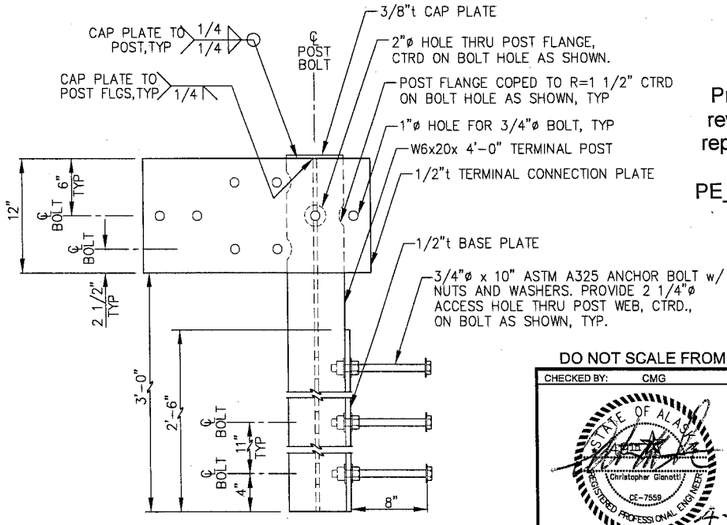
A BRIDGE RAIL ELEVATION

NOTE: ASPHALT CONCRETE OVERLAY NOT SHOWN FOR CLARITY. BRIDGE SHOWN LEVEL. ACTUAL BRIDGE SLOPED.



B END BRIDGE RAIL

NOTE: POST CAP PLATE NOT SHOWN FOR CLARITY.



C END POST DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE KTJ Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
Christopher Glanott
CE-7559
REGISTERED PROFESSIONAL ENGINEER
4-2-12

DESIGNED BY: JLD
DRAWN BY: JLD / LRG

PLANS PREPARED BY PND ENGINEERS, INC.

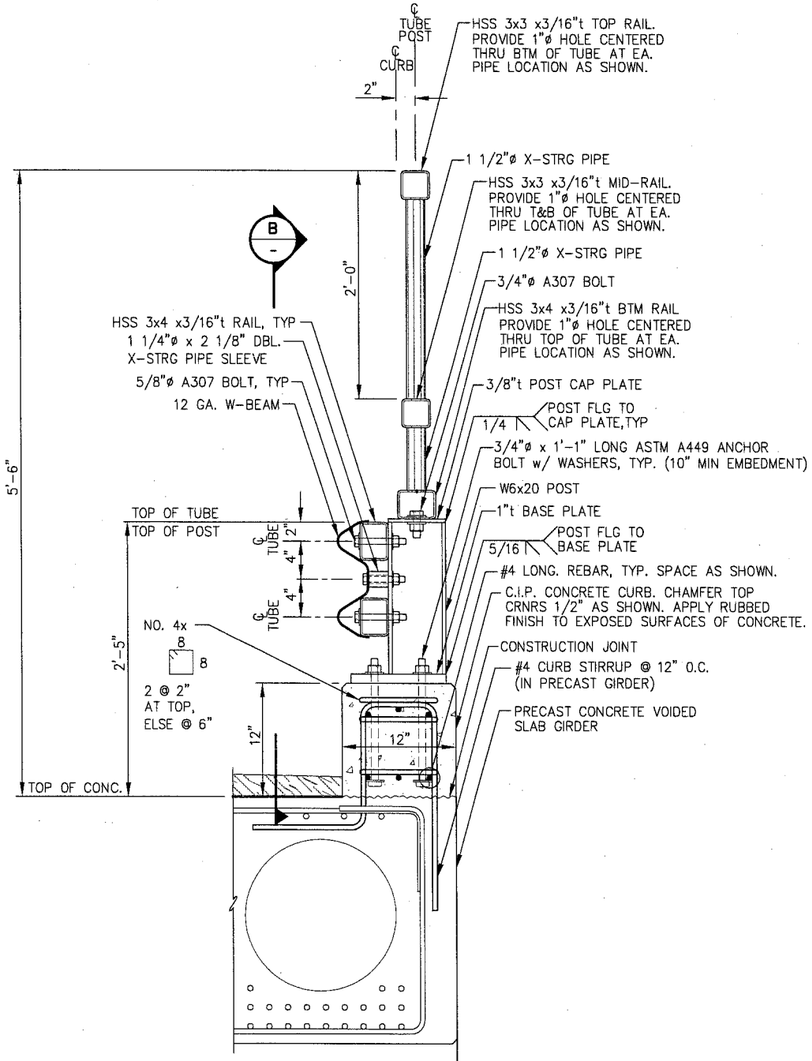
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

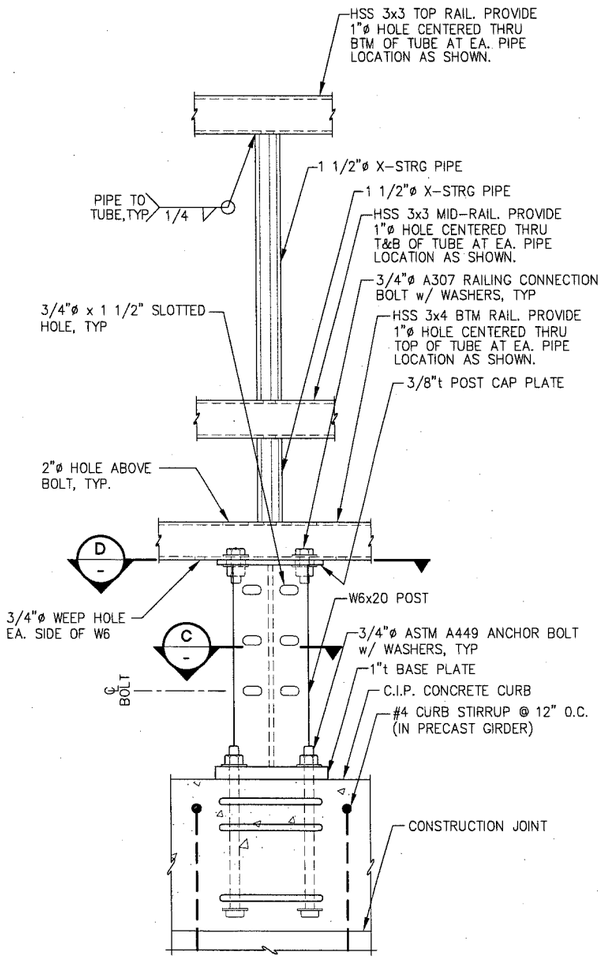
BRIDGE RAIL ON CURB

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N9.DWG
TAB: N9 Monday, April 02, 2012 4:34:10 PM LANCE GREER

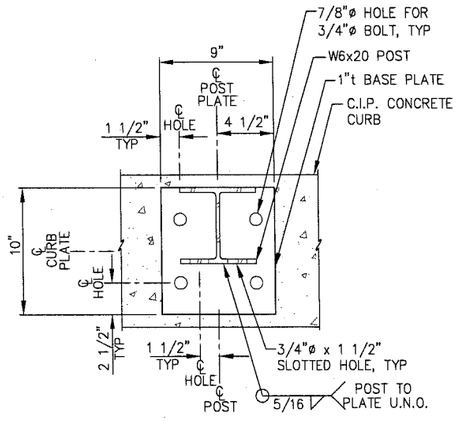
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	N9	29



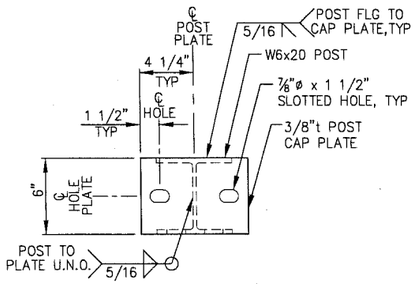
A TYPICAL BRIDGE RAIL SECTION



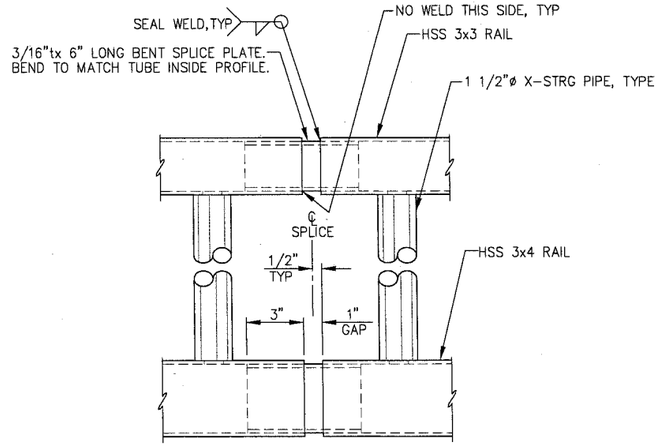
B TYPICAL BICYCLE RAILING POST DETAIL
NOTE: TUBE RAIL AND W-BEAM NOT SHOWN FOR CLARITY



C TYPICAL POST BASE DETAIL



D TYPICAL RAIL POST CAP DETAIL



E TYPICAL BICYCLE RAIL SPLICE DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KJW Date 9/10/13

PLANS PREPARED BY
PND ENGINEERS, INC.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: CMG

STATE OF ALASKA
REGISTERED PROFESSIONAL ENGINEER
Christopher Gianotti
CE-7558
4-2-12

DESIGNED BY: JLD
DRAWN BY: LRG

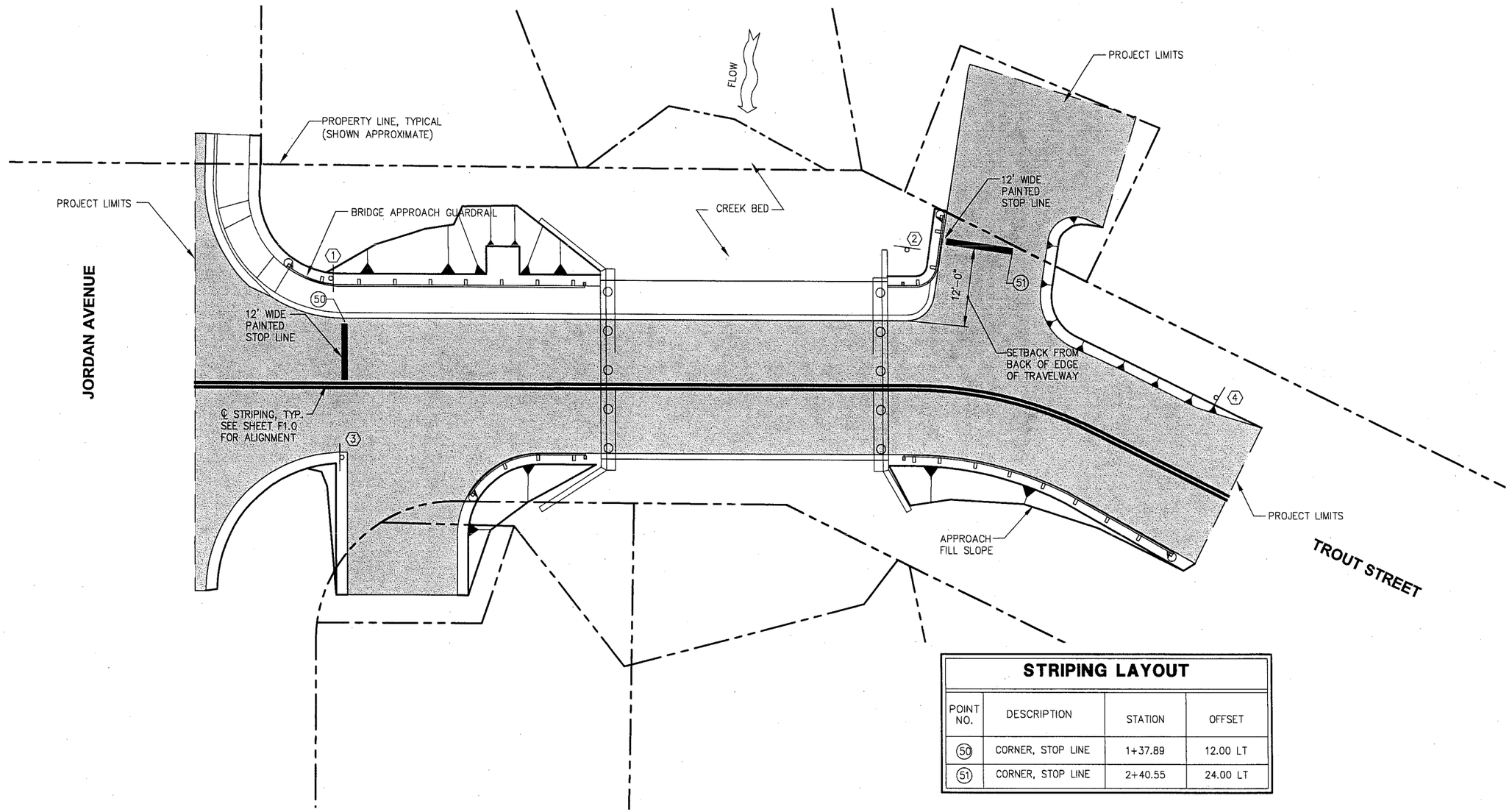
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE TROUT STREET BRIDGE NO.1786

BRIDGE RAIL DETAILS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\4 STRUCTURAL\N10.DWG
TAB: N10 Monday, April 02, 2012 4:34:00 PM LANCE GREER

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			69561/AC-BR-0003(151)	2012	N10	29



NOTES:

1. ℄ STRIPING WITHIN PROJECT LIMITS OF ALIGNMENT ONLY. STRIPING SHALL BE DOUBLE 4" THICK YELLOW PER T21.02.
2. STOP LINE STRIPING SHALL PARALLEL JORDAN AVEUNE ALIGNMENT AS SHOWN. STRIPING SHALL BE 12" THICK, 12' WIDE, WHITE PER ASDS.

STRIPING & SIGNAGE

SCALE IN FEET
0 10 20 FT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KJW Date 9/10/13

STRIPING LAYOUT

POINT NO.	DESCRIPTION	STATION	OFFSET
50	CORNER, STOP LINE	1+37.89	12.00 LT
51	CORNER, STOP LINE	2+40.55	24.00 LT

SIGNING SCHEDULE

SIGN NO.	* CODE NO.	DESCRIPTION	SIGN SIZE (INCH)	POST SIZE (INCH)	STATION	OFFSET
1	R1-1	STOP SIGN	30 x 30	2.0 O.D., TYP.	1+36.04	19.16 LT
2	R1-1	STOP SIGN	30 x 30	2.0 O.D., TYP.	2+40.55	24.71 LT
3	R2-1	20 MPH SPEED LIMIT SIGN	24 x 30	2.0 O.D., TYP.	1+37.87	12.92 RT
4	R2-1	20 MPH SPEED LIMIT SIGN	24 x 30	2.0 O.D., TYP.	2+92.37	15.24 LT

* CODES FROM U.S. DOT FEDERAL HIGHWAY ADMINISTRATION ASDS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\P1.DWG
LANCE GREER
TAB: P1 Monday, April 02, 2012 4:31:21 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SIGN

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA
Christopher Mario Bonnotti
CE-7559
REGISTERED PROFESSIONAL ENGINEER
4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM
DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

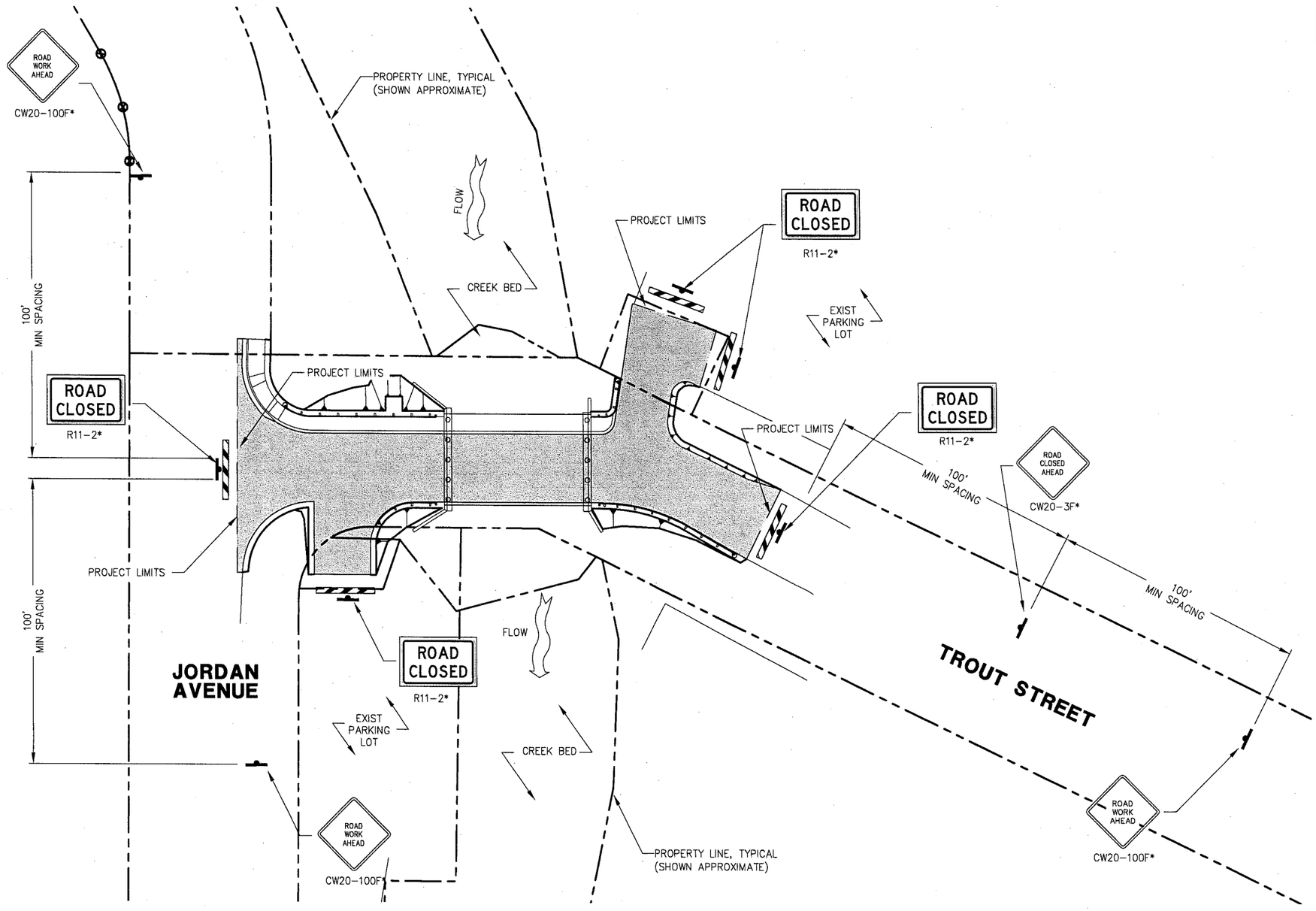
JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

STRIPING AND SIGNAGE PLAN

PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012

SHEET NUMBER	TOTAL SHEETS
P1	29



NOTES:

1. A TRAFFIC CONTROL PLAN IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MOBILIZATION OR WORK ONSITE.
2. *SEE ASDS FOR ALL SIGN REFERENCES SHOWN.

TRAFFIC CONTROL PLAN

SCALE IN FEET
0 20 40 FT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KJW Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\S1.DWG
LANCE GREER
TAB: S1 Monday, April 02, 2012 4:31:16 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

TYPE III BARRIER
SIGN*

PLAN LEGEND

CHECKED BY: CMG

STATE OF ALASKA
Christopher Gianotti
CE-7558
REGISTERED PROFESSIONAL ENGINEER
4-27-12

PLANS PREPARED BY PND ENGINEERS, INC.
DESIGNED BY: NAM
DRAWN BY: NAM

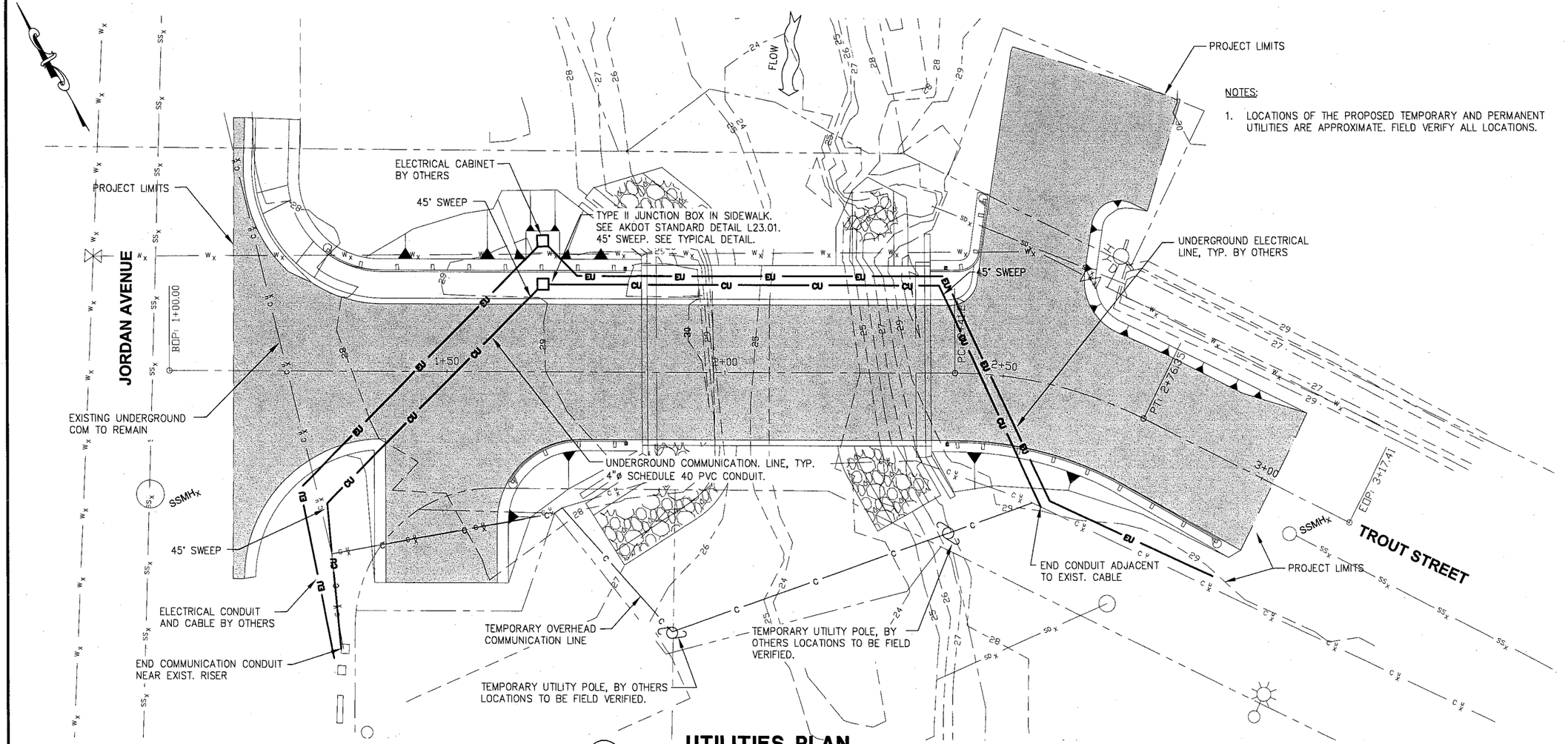
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
S1	29

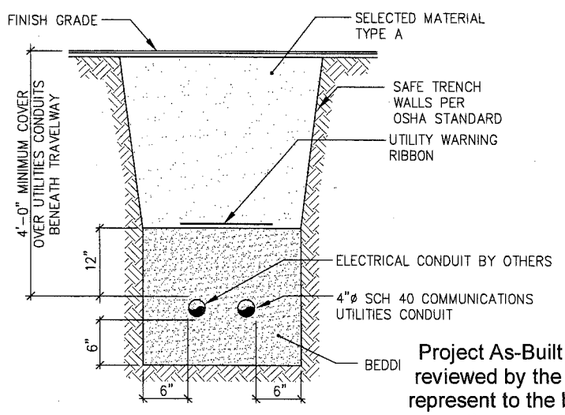


NOTES:

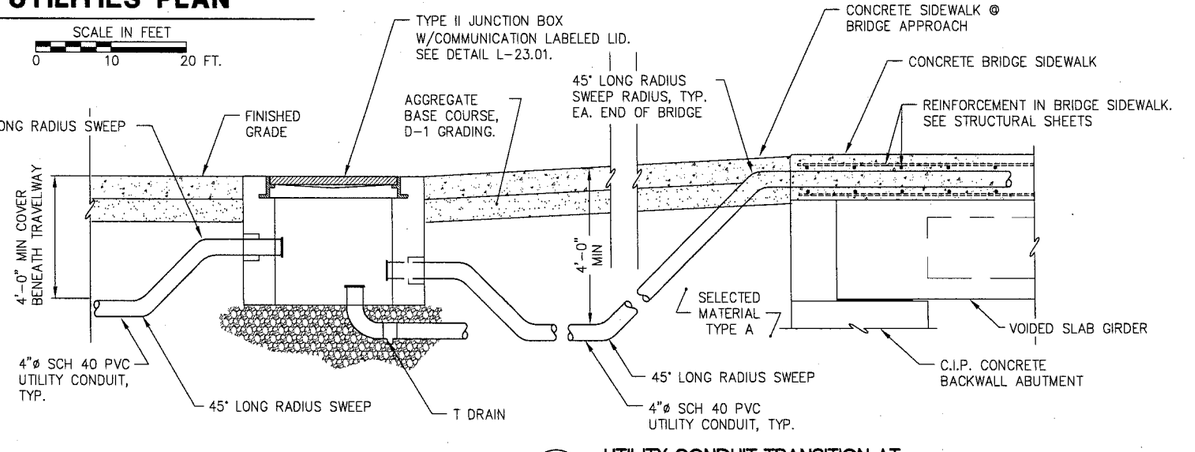
1. LOCATIONS OF THE PROPOSED TEMPORARY AND PERMANENT UTILITIES ARE APPROXIMATE. FIELD VERIFY ALL LOCATIONS.

1 UTILITIES PLAN

SCALE IN FEET
0 10 20 FT.



A UTILITY TRENCH SECTION



B UTILITY CONDUIT TRANSITION AT BRIDGE ABUTMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE KJN Date 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\09XXX\092026 TROUT STREET BRIDGE\DRAWINGS\PND\3 CIVIL\U1.DWG

LANCE GREER
TAB: U1 Monday, April 02, 2012 4:32:48 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

- C — OVERHEAD COMMUNICATION (TEMPORARY)
- CU — UNDERGROUND COMMUNICATION
- TEMPORARY POLE
- EU — UNDERGROUND ELECTRICAL

CHECKED BY: CMG

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — Christopher M. Garnett — CE-7559 — 4-2-12

PLANS PREPARED BY PND ENGINEERS, INC.

DESIGNED BY: NAM
DRAWN BY: NAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE NO.1786

STRIPING AND SIGNAGE PLAN

PROJECT DESIGNATION
69561/AC-BR-0003(151)

STATE	YEAR
ALASKA	2012
SHEET NUMBER	TOTAL SHEETS
U1	29