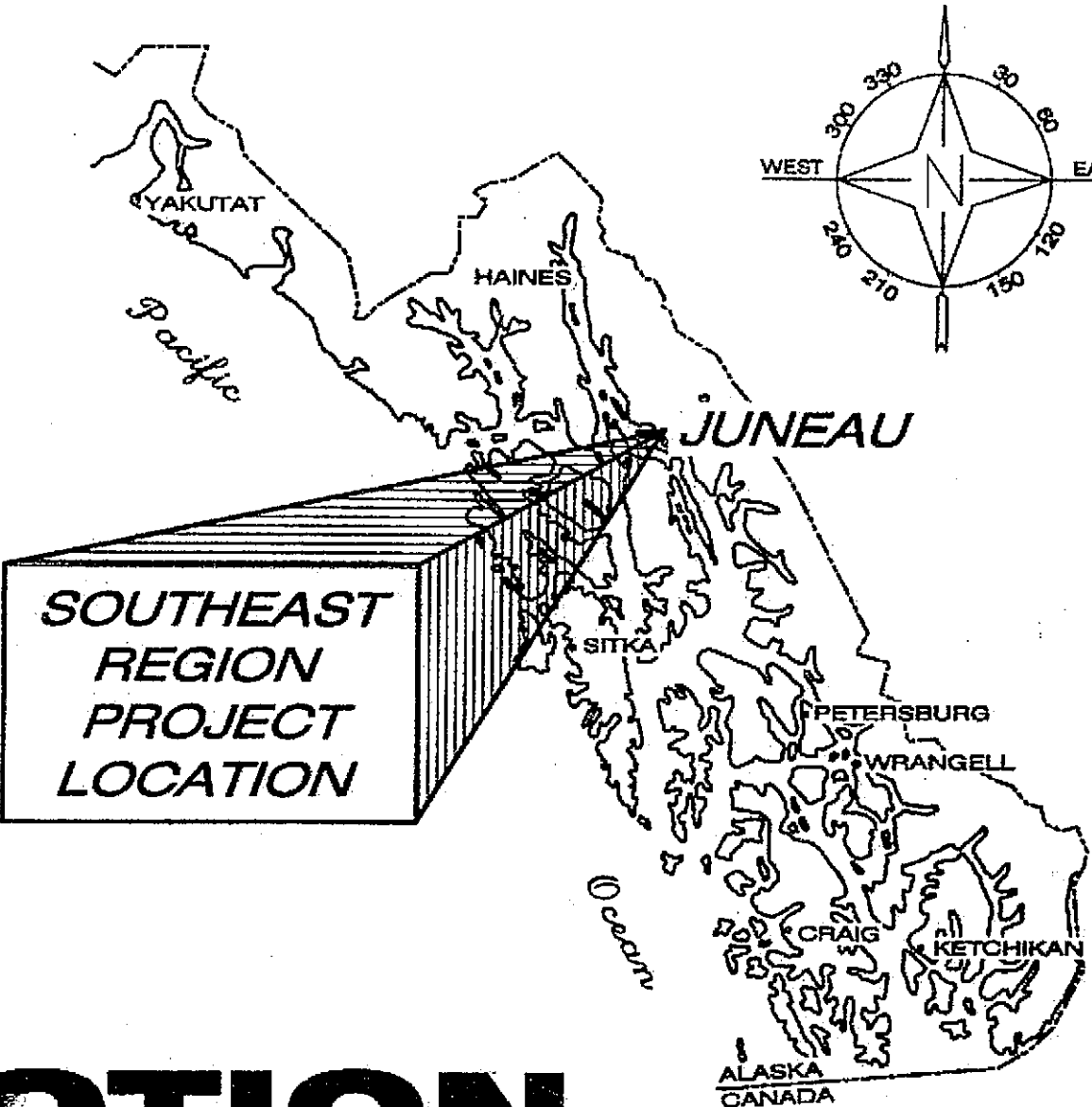


State of Alaska

Department of Transportation
and Public Facilities

S.E. Region Design and Engineering Division
JUNEAU, ALASKA

JNU-EGAN DR/10TH ST INTERSECTION
CAPACITY IMPROVEMENTS-PHASE I
NH-F-093-2(29)~70168



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 7/24/07

As-Built Plans
CONTRACTOR: SEDON, INC.
PROJECT ENGINEER: John Hollatz
BEGIN DATE: MARCH 28, 2005
END DATE: DECEMBER 9, 2006
TOTAL CONTRACT AMOUNT: \$2,362,397.71

JNU-DOUGLAS BRIDGE
DESIGN DESIGNATIONS

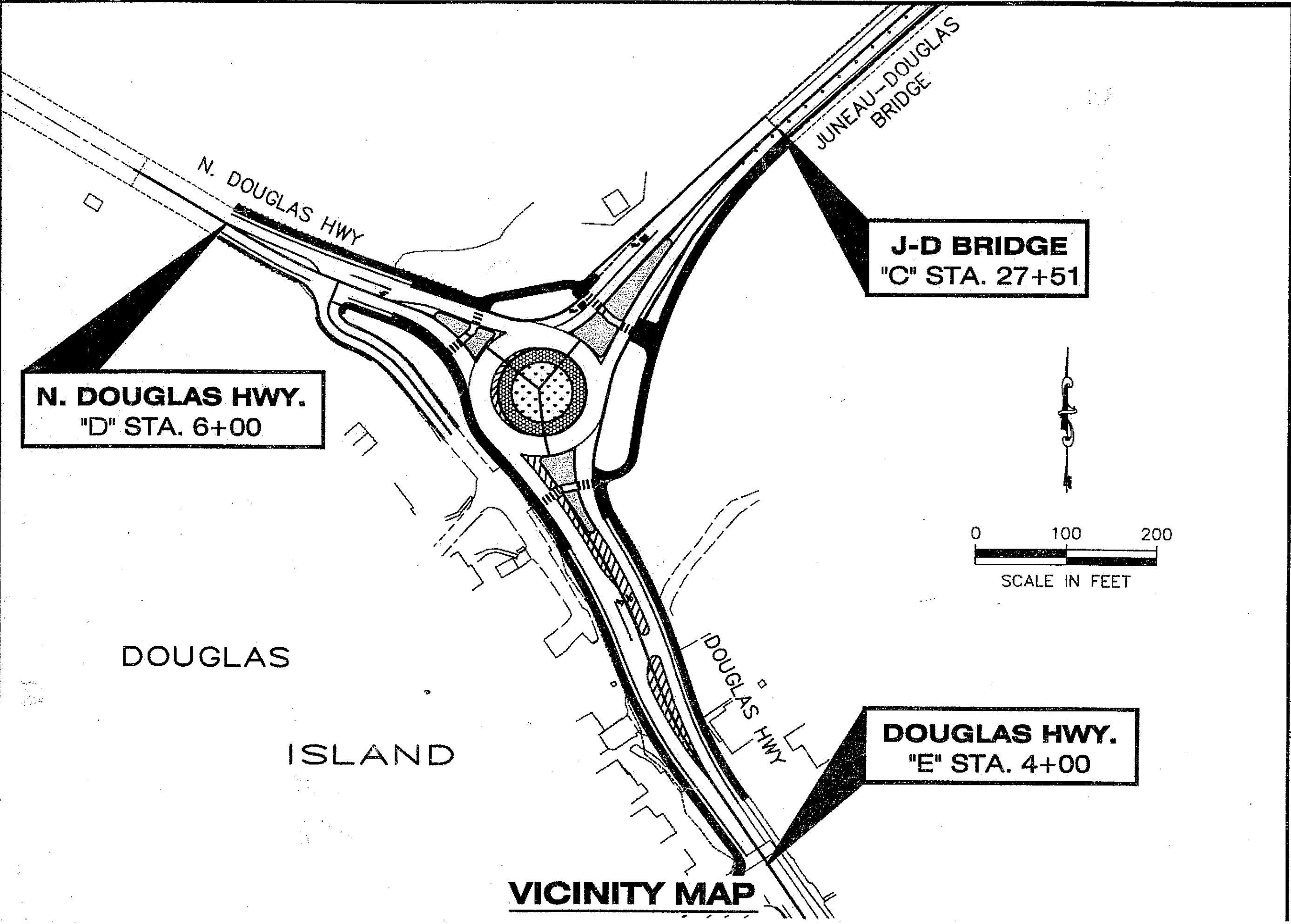
ADT 2006	14,280
ADT 2026	17,420
DHV 12% (2026)	2,060
% T	4%

PROJECT SUMMARY

LENGTH OF PROJECT	0.5 MI.
LENGTH OF GRADING	0.5 MI.
LENGTH OF PAVING	0.5 MI.
WIDTH OF PAVING	VARIES

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	D-22.01	I-21.01	T-20.02	U-03.00
B-04.00	D-23.01	I-22.01	T-21.02	
B-05.00	D-24.00	L-23.01	T-22.03	
C-04.12	D-26.02	S-00.10	T-34.01	
D-01.02	D-35.00	S-05.01	T-52.15	
D-06.10	F-01.01	S-20.10		
D-20.03	I-20.13	S-30.03		



INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2-A3	CONTROL & ALIGNMENT
B1-B3	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
E1-E4	PAVING PLAN
E5	PAVING DETAILS
E6	TRAFFIC ISLAND DETAILS
E7-E8	WALL DETAILS
E9-E10	DRIVEWAY PROFILES
E11-E12	ROADWAY DETAILS
E13	GRADING PLAN
E14	GRADING TABLE
G1-G3	DRAINAGE PLAN
G4-G7	DRAINAGE PROFILES
G8	DRAINAGE SUMMARY
G9-G10	DRAINAGE DETAILS
H1-H5	STRIPING PLAN
L1-L3	ILLUMINATION PLAN
L4	ILLUMINATION TABLES
L5	WIRING DIAGRAM
L6	POWER DIAGRAM
L7	ILLUMINATION DETAILS
M1-M6	PERMANENT TRAFFIC RECORDER
V1-V4	SIGNING PLAN
V5	SIGNING DETAILS
V6-V7	SIGNING SPECIFICATIONS
W1-W3	ROUNDBOUT TRAFFIC CONTROL-STAGE 1 & 2
W4	TRAFFIC CONTROL PLAN
X1-X2	BUS PULLOUT
Y1-Y4	EROSION & SEDIMENT CONTROL PLAN
1-9	BRIDGE DETAILS
Z1-Z2	RIGHT OF WAY PLANS

PATH: Q:\Jnu\70168M\Dr\A1_Tsht2.dwg
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PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING DIVISION



APPROVED: [Signature]
PATRICK J. KEMP
REGIONAL PRE-CONSTRUCTION ENGINEER

7/20/04
DATE

APPROVED: [Signature]
GARY PAXTON
REGIONAL DIRECTOR

7/20/04
DATE

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-2(29)~70168	2004	A1	XX

MONUMENTS (NOT ALL ARE SHOWN)			
POINT	JNU-GRID NORTHING (US FT)	JNU-GRID EASTING (US FT)	DESCRIPTION
13	481896.0498	526152.6259	CL_MON
14	481985.2827	526081.1150	CL_MON
15	482077.6807	525996.6948	CL_MON
16	481332.1959	526660.0540	BC3 RMC-32/ATS-3/777E
41	479874.9557	527827.0830	CL_MON_10TH&EGAN
42	479880.8221	527822.9686	CL_MON_10TH&EGAN
43	480260.6595	527554.5054	CL_MON_12TH&EGAN
51	479093.2183	529215.7221	CL_MON_DOH_WM-967
407	477977.8962	526485.0270	ALCAP3.25 KEOPPLE
408	478001.1300	526431.6923	CL_MON_DOH
409	477859.9875	526529.9620	CL_MON_DOH
410	477733.5552	526615.8337	CL_MON_DOH
411	477287.9380	526926.6125	CL_MON_DOH_MULTIPUNCH
418	478466.1710	526127.8452	CL_MON_DOH
419	478516.3262	526042.8640	CL_MON_DOH
420	478542.3249	525998.7333	CL_MON_DOH
421	479015.8804	525195.3283	CL_MON_DOH
450	482806.7728	525162.6333	CL_MON_DOH
451	482579.3908	525591.5611	CL_MON_DOH
452	482436.9500	525739.4627	CL_MON_DOH
453	482219.4177	525965.3510	CL_MON_DOH
455	480863.3583	527080.2920	CL_MON_DOH

NOTE:
WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS WHICH WILL BE BURIED OR DISTURBED SHALL BE REFERENCED PRIOR TO BEING DISTURBED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION AND A RECORD OF MONUMENT FORM SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD BE USED TO RESET MONUMENTS AS A LAST RESORT.

HORIZONTAL CONTROL

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE DOT/PF 2000 JUNEAU GRID

THE DOT/PF JUNEAU GRID-2000 SYSTEM IS A LOCAL GROUND COORDINATE SYSTEM BASED AT USC&GS FIRST ORDER CONTROL STATION EDDIE. IT RELATES TO AKSPC ZONE 1 NAD83 THROUGH THE FOLLOWING PARAMETERS:

ZONE = NAD83 AKSPC ZONE 1

GRID SCALE = 0.999928875

CONVERGENCE = -0°45'27.28"

TRANSLATION ABOUT USC&GS POINT EDDIE AS FOLLOWS:

AKSPC NORTHING = 2383469.17310 FT US (726482.8570M)

AKSPC EASTING = 2512570.06318 FT US (765832.8870M)

LOCAL NORTHING = 500000.0000 FT US (152400.3048M)

LOCAL EASTING = 500000.0000 FT US (152400.3048M)

BASIS OF COORDINATES FOR THIS PROJECT ESTABLISHED WITH SKI PRO STATIC GPS PROCESSING AND STARNET LEAST SQUARES ADJUSTMENT.

PROJECT SPECIFIC BASIS OF HORIZONTAL CONTROL

95-J-6 : 3" BRASS CAP LOCATED IN CONCRETE CURB ABOVE BRIDGE ABUTMENT AT SOUTHEAST CORNER JD BRIDGE.

#44 JNU-GRID N 478687.1223 FT US, E 526539.2241 FT US
AKSPC N 2361808.8042 FT US, E 2538823.3066 FT US

95-J-7 : 3" BRASS CAP LOCATED IN NORTHERNMOST BREAKWATER OF AURORA HARBOR ON-LINE WITH WALL OF WESTERN BREAKWATER.

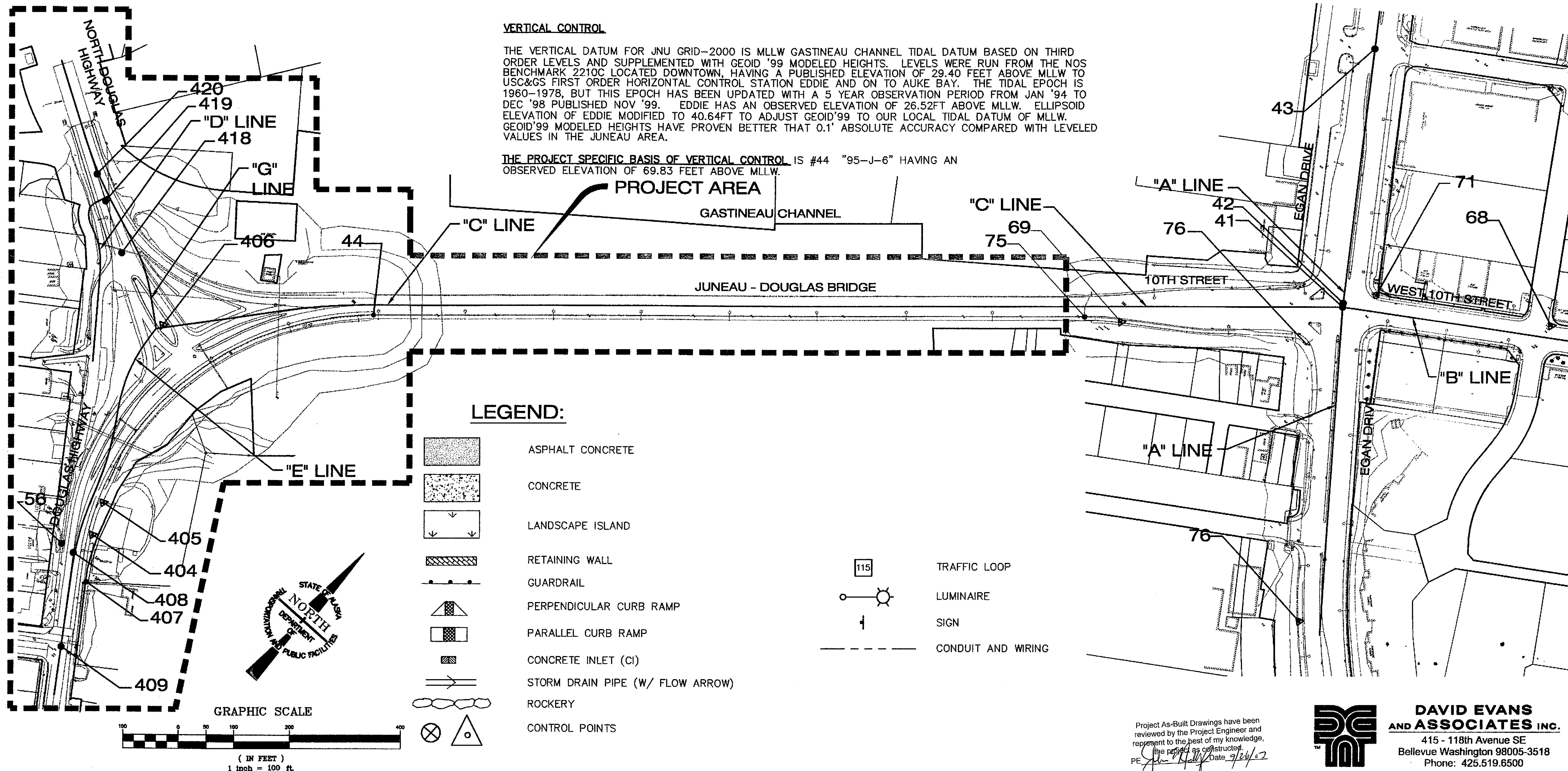
#46 JNU-GRID N 482368.8894 FT US, E 524880.3809 FT US
AKSPC N 2365511.9189 FT US, E 2537213.4023 FT US

VERTICAL CONTROL

THE VERTICAL DATUM FOR JNU GRID-2000 IS MLLW GASTINEAU CHANNEL TIDAL DATUM BASED ON THIRD ORDER LEVELS AND SUPPLEMENTED WITH GEOID '99 MODELED HEIGHTS. LEVELS WERE RUN FROM THE NOS BENCHMARK 2210C LOCATED DOWNTOWN, HAVING A PUBLISHED ELEVATION OF 29.40 FEET ABOVE MLLW TO USC&GS FIRST ORDER HORIZONTAL CONTROL STATION EDDIE AND ON TO AUKE BAY. THE TIDAL EPOCH IS 1960-1978, BUT THIS EPOCH HAS BEEN UPDATED WITH A 5 YEAR OBSERVATION PERIOD FROM JAN '94 TO DEC '98 PUBLISHED NOV '99. EDDIE HAS AN OBSERVED ELEVATION OF 26.52 FT ABOVE MLLW. ELLIPSOID ELEVATION OF EDDIE MODIFIED TO 40.64 FT TO ADJUST GEOID '99 TO OUR LOCAL TIDAL DATUM OF MLLW. GEOID '99 MODELED HEIGHTS HAVE PROVEN BETTER THAN 0.1' ABSOLUTE ACCURACY COMPARED WITH LEVELED VALUES IN THE JUNEAU AREA.

THE PROJECT SPECIFIC BASIS OF VERTICAL CONTROL IS #44 "95-J-6" HAVING AN OBSERVED ELEVATION OF 69.83 FEET ABOVE MLLW.

PROJECT AREA



CONTROL			
POINT	JNU-GRID NORTHING (US FT)	JNU-GRID EASTING (US FT)	ORTHOMETRIC ELEVATION MLLW
44	478687.1223	526539.2241	69.83
46	482368.8894	524880.3809	25.87
47	482184.1245	526095.5280	45.54
48	481610.7770	526473.6577	28.24
50	479039.2466	528949.9337	31.44
56	477999.2566	526404.8547	56.84
57	480245.0311	528311.1031	28.43
68	480099.9760	528127.9135	27.70
69	479585.2882	527548.5223	42.00
71	479930.9356	527857.0424	27.68
72	479397.2511	528154.8871	28.78
75	479548.1382	527493.1477	45.92
76	479780.6561	527825.7356	27.95
404	478048.4886	526435.7363	56.63
405	478105.3882	526410.7766	55.04
406	478419.1828	526271.1533	56.26
454	481232.4036	526668.2611	25.69

Fri, 16/Jul/04 10:23AM OXA
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

DESIGNED BY: S.SOISETH

CHECKED BY: V.SALEMANN
DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

**PROJECT MAP AND
CONTROL DIAGRAM**

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
A2	

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 7/24/04



**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

PROJECT ALIGNMENTS:

"A" LINE - EGAN DRIVE				
DESC.	STATION	TANGENT/CURVE DATA	NORTHING	EASTING
BOP	33+95.82		480613.35	527305.24
		S35°15'05"E 897.19'		
PI	42+93.01		479880.68	527823.07
		S35°02'16"E 6.99'		
PI	43+00.00		479874.95	527827.08
		S38°14'55"E 462.65'		
EOP	47+62.65		479511.62	528113.50

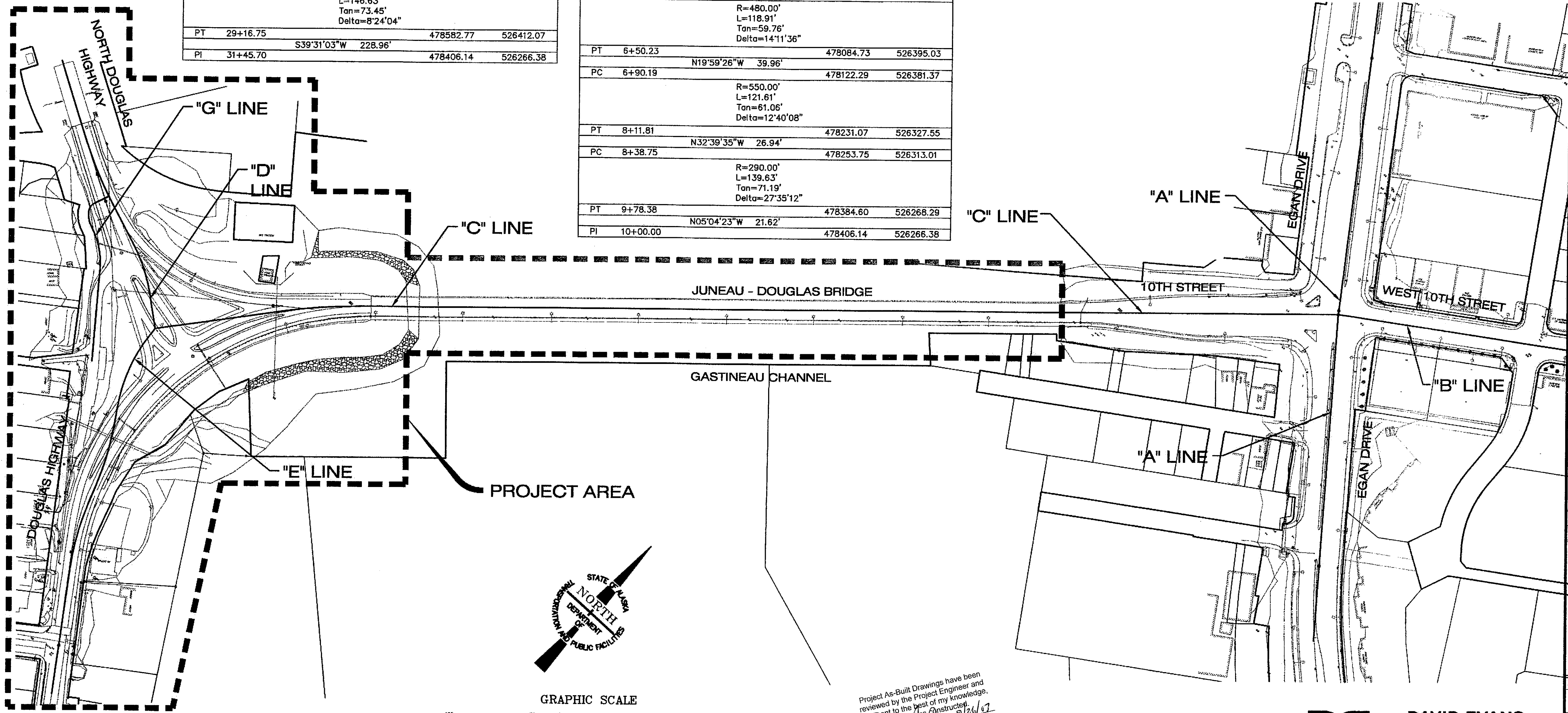
"B" LINE - W. 10TH ST.				
DESC.	STATION	TANGENT/CURVE DATA	NORTHING	EASTING
BOP	10+00.00		479874.95	527827.08
		N55°42'17"E 20.03'		
PI	10+20.03		479886.24	527843.63
		N56°39'22"E 570.72'		
EOP	15+90.75		480199.94	528320.40

"C" LINE - DOUGLAS BRIDGE				
DESC.	STATION	TANGENT/CURVE DATA	NORTHING	EASTING
BOP	10+00.00		479874.95	527827.08
		S47°55'07"W 1770.12'		
PC	27+70.12		478688.65	526513.31
		R=1000.00' L=146.63' Tan=73.45' Delta=8°24'04"		
PT	29+16.75		478582.77	526412.07
		S39°31'03"W 228.96'		
PI	31+45.70		478406.14	526266.38

"D" LINE - NORTH DOUGLAS HWY.				
DESC.	STATION	TANGENT/CURVE DATA	NORTHING	EASTING
BOP	4+80.06		478652.57	525811.70
		S59°29'00"E 157.81'		
PC	6+37.87		478572.43	525947.66
		R=650.00' L=117.25' Tan=58.78' Delta=10°20'07"		
PT	7+55.12		478522.30	526053.47
		S69°49'07"E 85.17'		
PC	8+40.30		478492.92	526133.42
		R=300.00' L=97.56' Tan=49.22' Delta=18°37'58"		
PT	9+37.86		478445.09	526217.96
		S51°11'09"E 62.14'		
PI	10+00.00		478406.14	526266.38

"E" LINE - DOUGLAS HWY.				
DESC.	STATION	TANGENT/CURVE DATA	NORTHING	EASTING
BOP	3+87.29		477859.99	526529.96
		N34°11'02"W 144.04'		
PC	5+31.33		477979.14	526449.03
		R=480.00' L=118.91' Tan=59.76' Delta=14°11'36"		
PT	6+50.23		478084.73	526395.03
		N19°59'26"W 39.96'		
PC	6+90.19		478122.29	526381.37
		R=550.00' L=121.61' Tan=61.06' Delta=12°40'08"		
PT	8+11.81		478231.07	526327.55
		N32°39'35"W 26.94'		
PC	8+38.75		478253.75	526313.01
		R=290.00' L=139.63' Tan=71.19' Delta=27°35'12"		
PT	9+78.38		478384.60	526268.29
		N05°04'23"W 21.62'		
PI	10+00.00		478406.14	526266.38

"G" LINE - SITKA ST. EXTENSION				
DESC.	STATION	TANGENT/CURVE DATA	NORTHING	EASTING
BOP	1+00.00		478526.88	526041.38
		S21°31'33"W 28.41'		
PC	1+28.41		478500.50	526030.97
		R=19.00' L=18.82' Tan=10.26' Delta=56°44'57"		
PCC	1+47.23		478482.57	526033.12
		R=49.37' L=28.71' Tan=14.77' Delta=33°19'06"		
PT	1+75.94		478465.10	526055.39
		S68°32'30"E 4.39'		
PC	1+80.33		478463.49	526059.48
		R=140.00' L=75.68' Tan=38.79' Delta=30°58'25"		
PT	2+56.02		478418.55	526119.23
		S37°34'05"E 79.16'		
EOP	3+35.18		478355.81	526167.49
			478297.03	526212.71



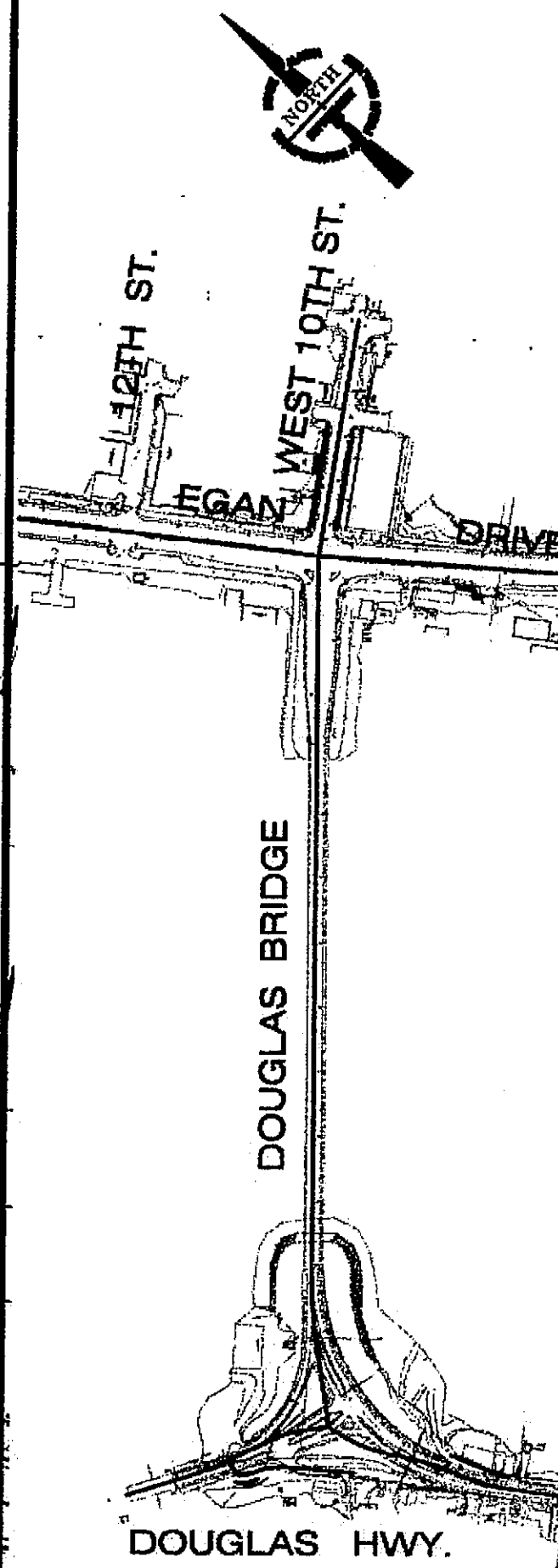
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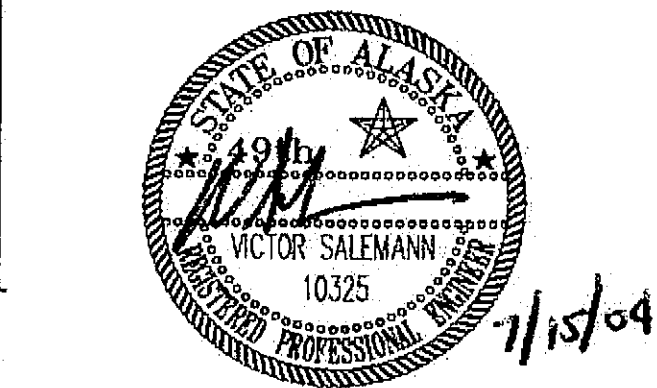
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

ALIGNMENT MAP

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

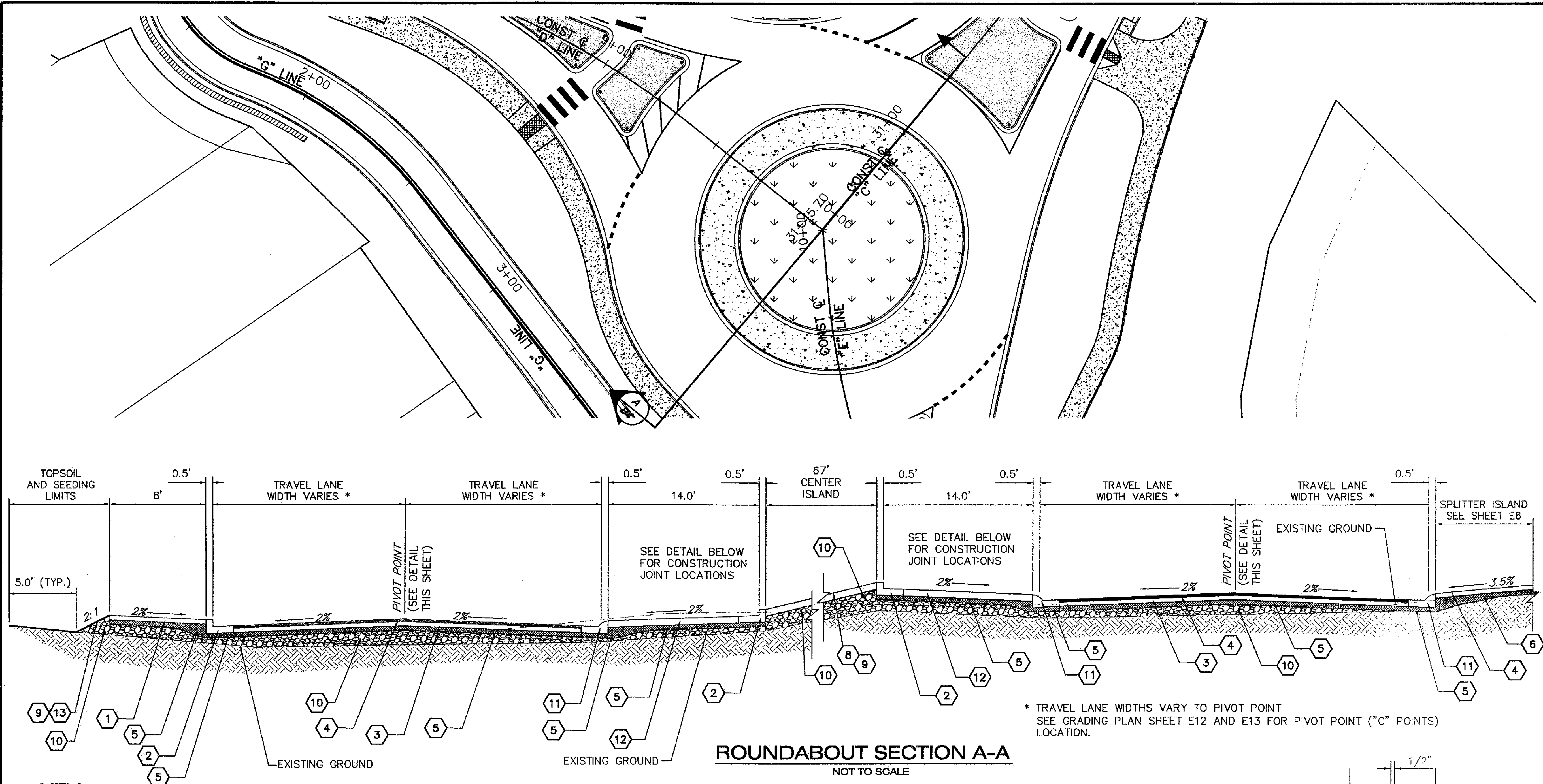
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
A3	



DAVID EVANS
AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge,
the project as constructed.
PE: [Signature] Date: 7/26/04

PATH: P:\G\ALASKA\0000-0006\0300Cadd\3401dws\Roundabout_PSI_XS901.dwg



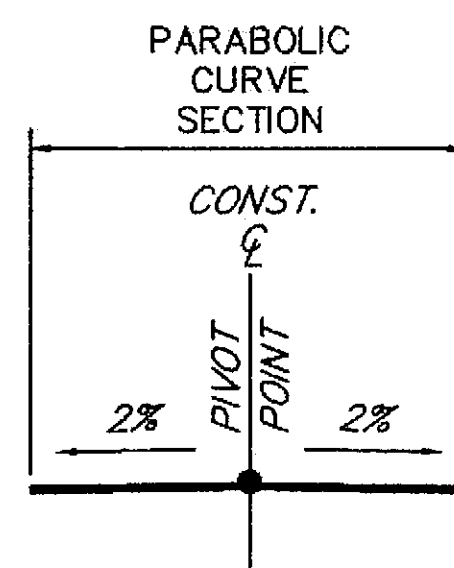
KEY

- 1 4" THICK CONCRETE SIDEWALK
- 2 CURB AND GUTTER, TYPE STANDARD *
- 3 4" ATB **
- 4 2" ASPHALT CONCRETE, SP TYPE A
- 5 4" AGGREGATE BASE COURSE, GRADING D-1
- 6 8" AGGREGATE BASE COURSE, GRADING D-1
- 7 NOT USED
- 8 6" TOPSOIL
- 9 SEEDING
- 10 BORROW TYPE A
- 11 CURB AND GUTTER, TYPE EXPRESSWAY *
- 12 6" CLASS "A" CONCRETE (TRUCK APRON)
- 13 2" TOPSOIL

* APPLY STE-1 ASPHALT FOR TACK COAT TO COLD EDGE BEFORE PAVING.
** APPLY STE-1 ASPHALT FOR TACK COAT OVER ATB BEFORE PAVING.

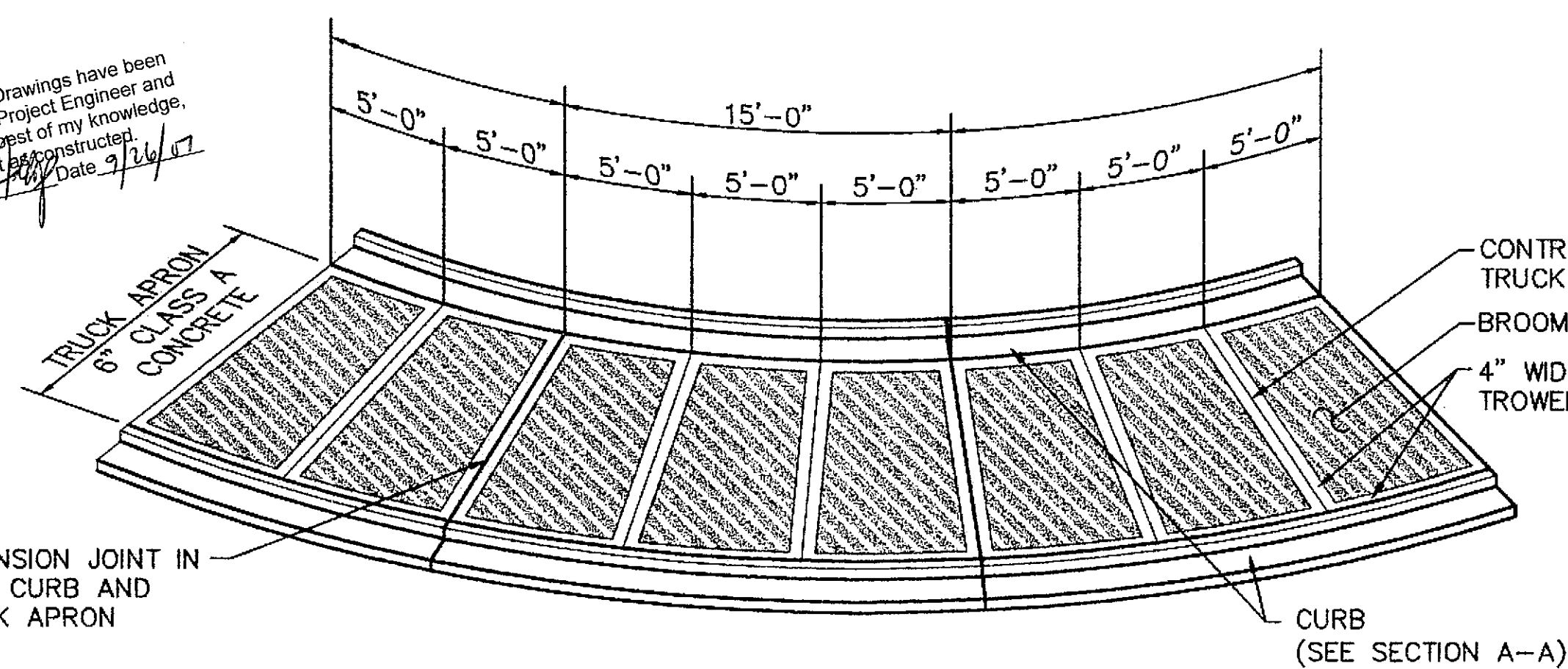
PIVOT POINT DETAIL

NOT TO SCALE



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 7/26/07

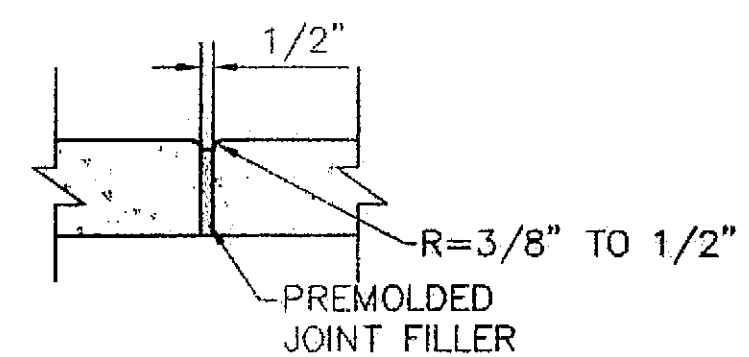
EXPANSION JOINT IN BOTH CURB AND TRUCK APRON



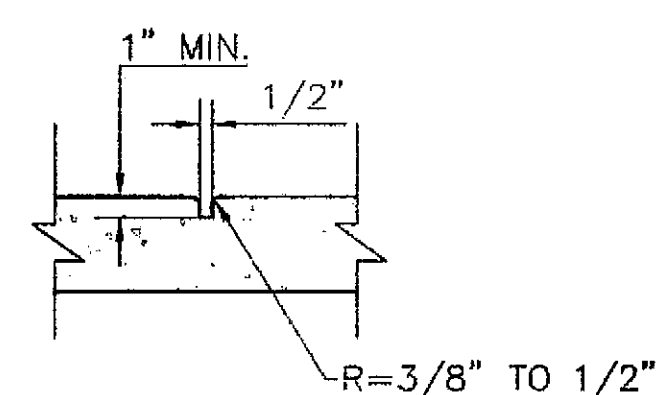
TRUCK APRON EXPANSION JOINT DETAIL

NOT TO SCALE

EXPANSION JOINT DETAIL



CONTRACTION JOINT DETAIL



DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

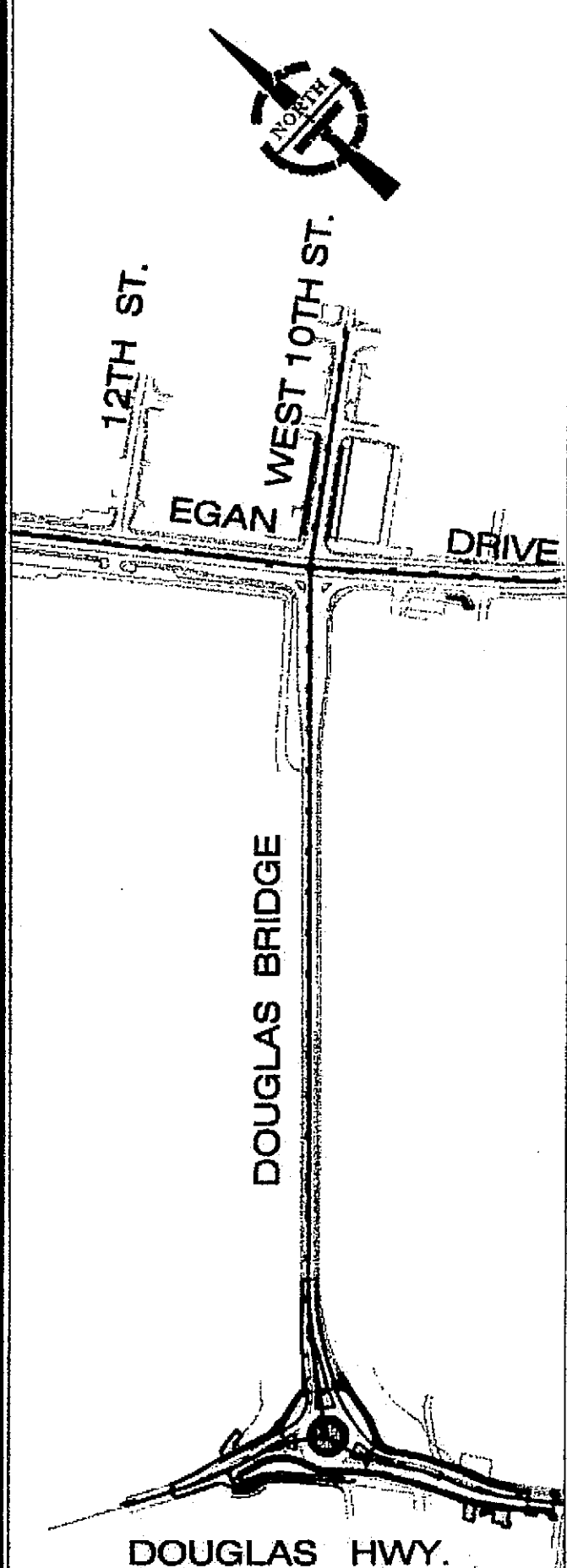
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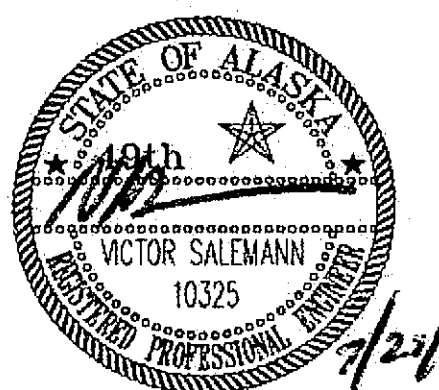
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: V.VASKELIS



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
+ PUBLIC FACILITIES
STATEWIDE DESIGN + ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

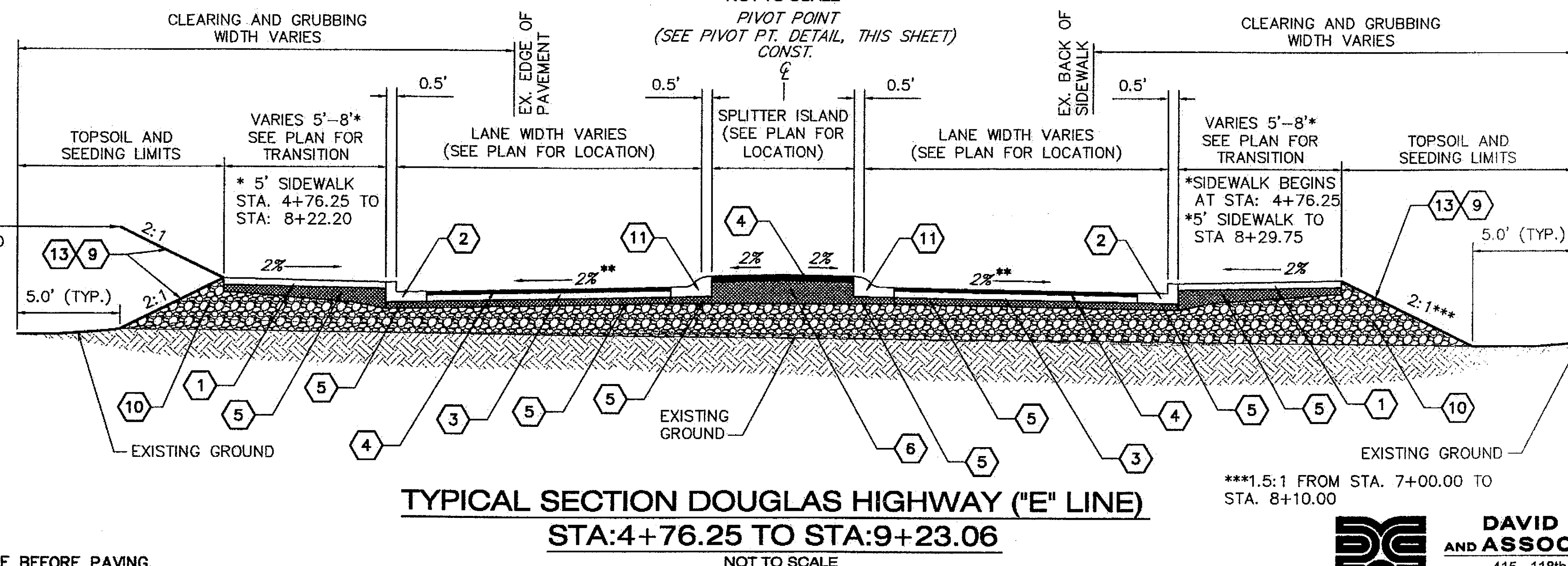
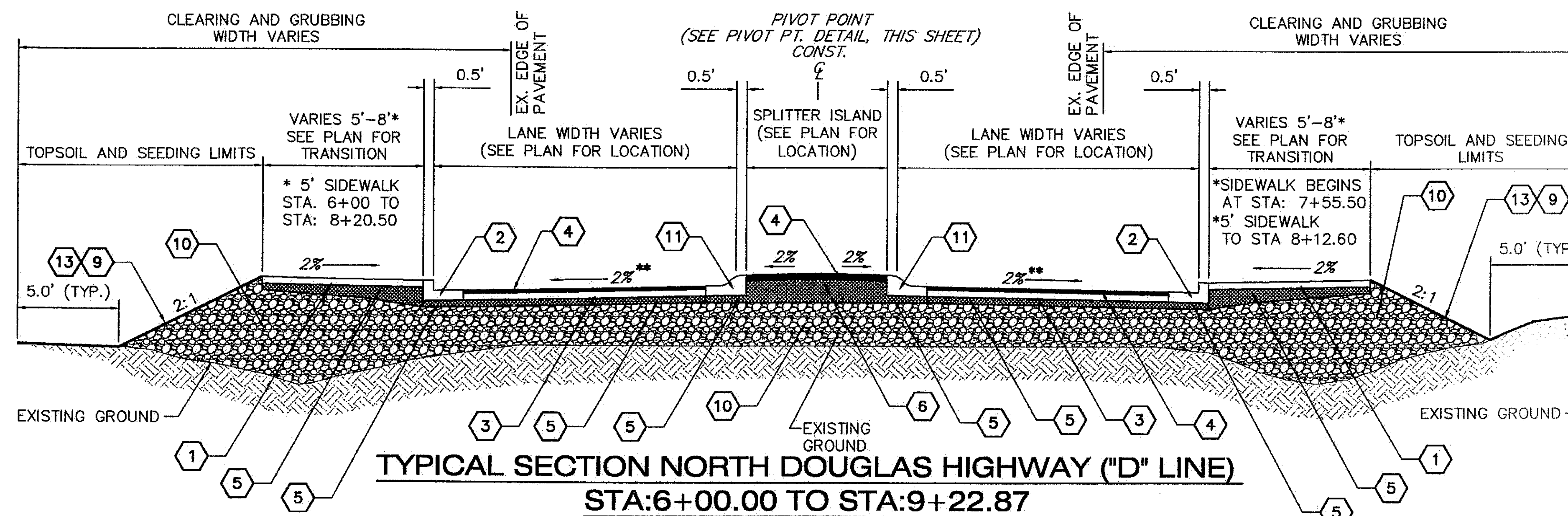
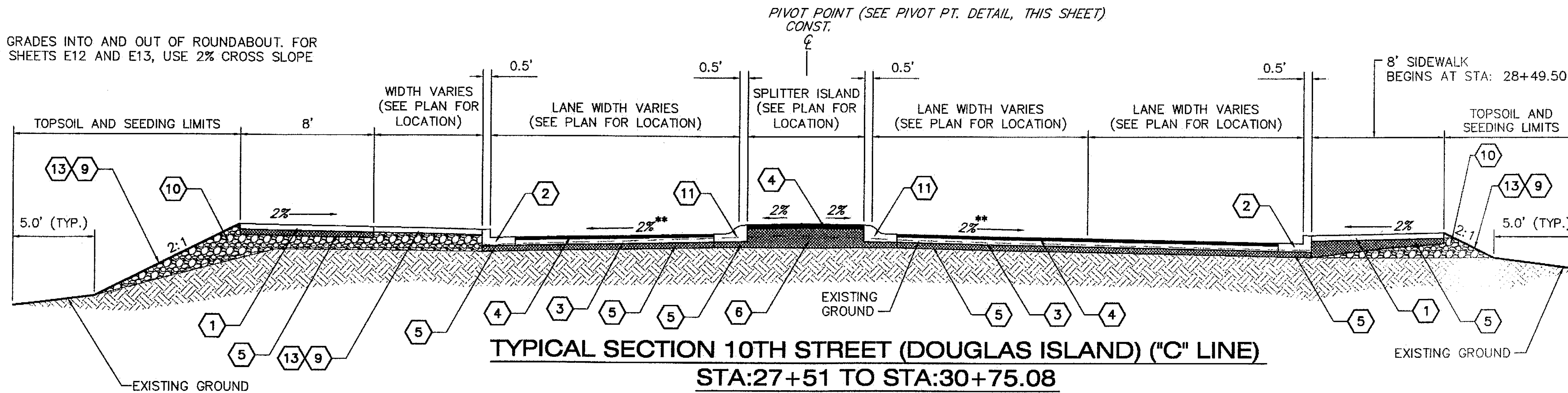
ROADWAY SECTIONS

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
B1	

** SEE SHEETS E12 AND E13 FOR GRADES INTO AND OUT OF ROUNDABOUT. FOR GRADE POINTS NOT SHOWN ON SHEETS E12 AND E13, USE 2% CROSS SLOPE



PIVOT POINT DETAIL
NOT TO SCALE

KEY

- 1 4" THICK CONCRETE SIDEWALK
- 2 CURB AND GUTTER, TYPE STANDARD *
- 3 4" ATB **
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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge.
PE: [Signature] Date: 7/26/04

Wed, 28/Jul/04 01:48PM OXA
PLOT: PSPACE 14(F) OR MSPAGE 14(F)
LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

DESIGNED BY: V.VASKELIS

CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
+ PUBLIC FACILITIES
STATEWIDE DESIGN + ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDABOUT

ROADWAY SECTIONS

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEETS
B2	

DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

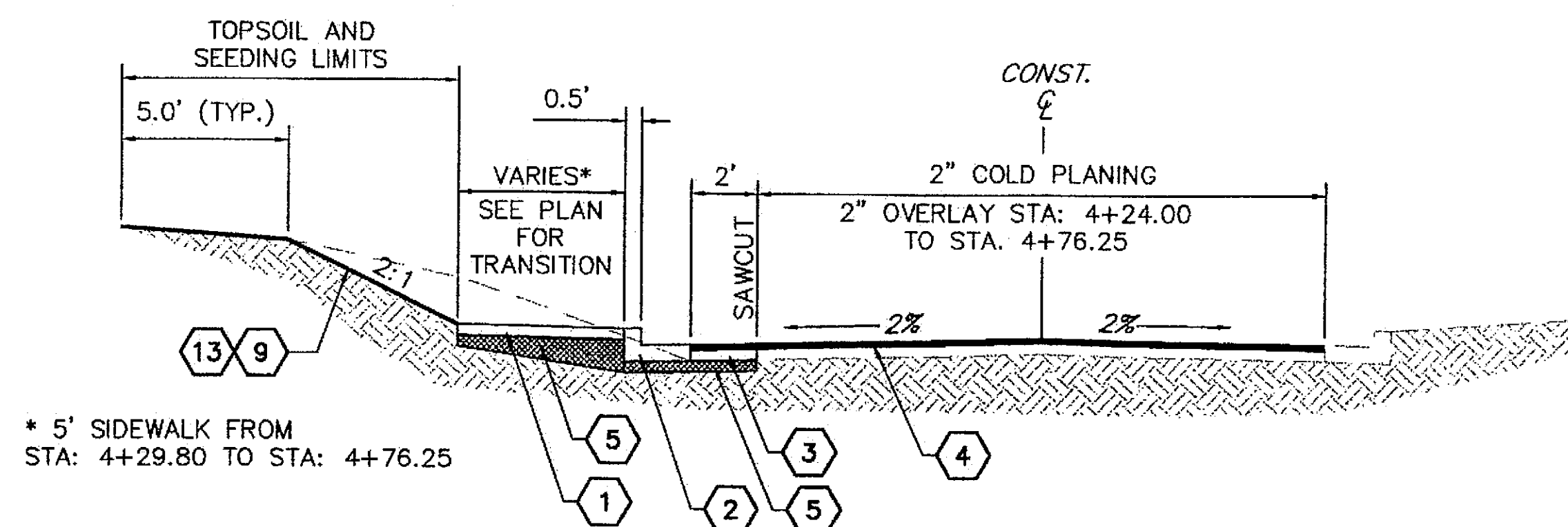
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KEY

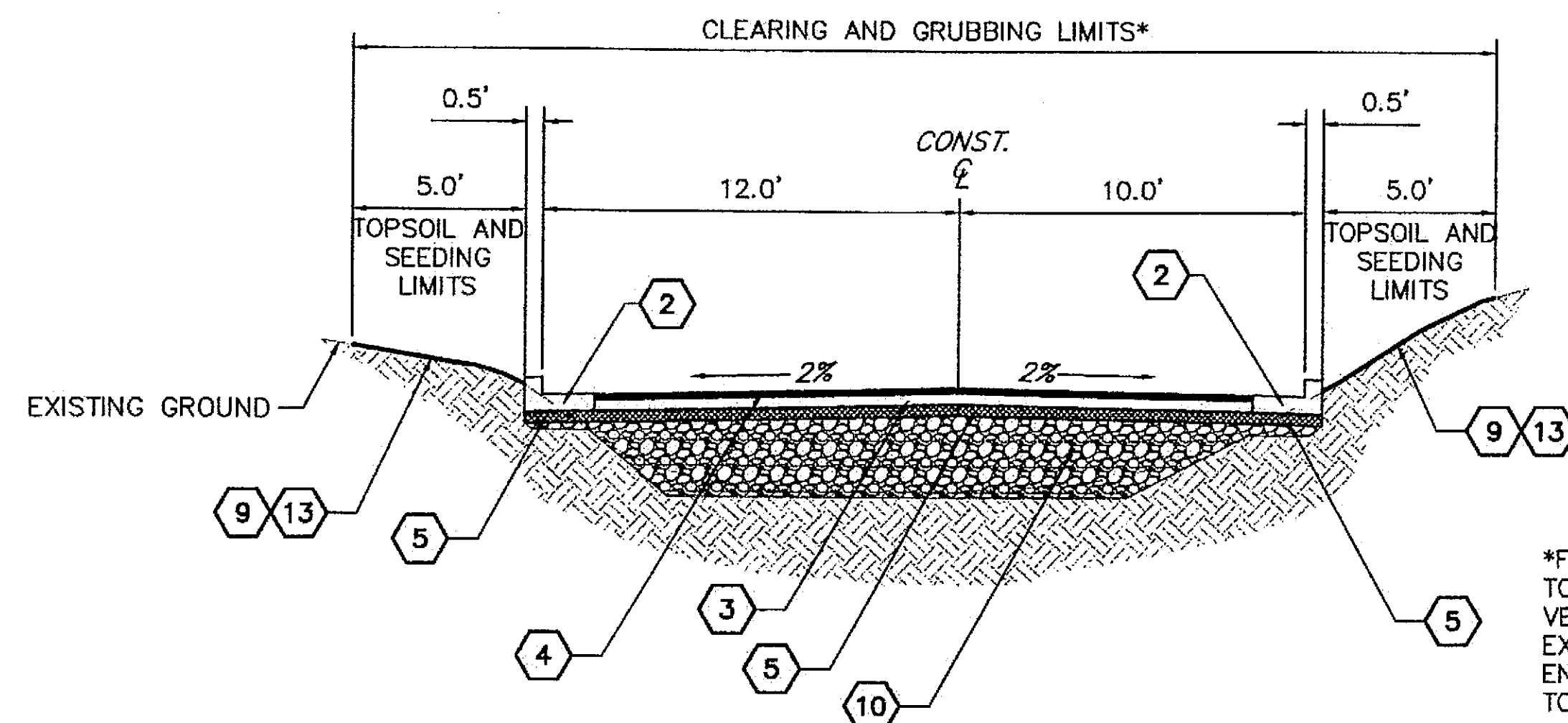
- 1 4" THICK CONCRETE SIDEWALK
- 2 CURB AND GUTTER, TYPE STANDARD *
- 3 4" ATB **
- 4 2" ASPHALT CONCRETE, SP TYPE A
- 5 4" AGGREGATE BASE COURSE, GRADING D-1
- 6 8" AGGREGATE BASE COURSE, GRADING D-1
- 7 NOT USED
- 8 6" TOPSOIL
- 9 SEEDING
- 10 BORROW TYPE A
- 11 CURB AND GUTTER, TYPE EXPRESSWAY *
- 12 6" CLASS "A" CONCRETE (TRUCK APRON)
- 13 2" TOPSOIL

- * APPLY STE-1 ASPHALT FOR TACK COAT TO COLD EDGE BEFORE PAVING.
- ** APPLY STE-1 ASPHALT FOR TACK COAT OVER ATB BEFORE PAVING.

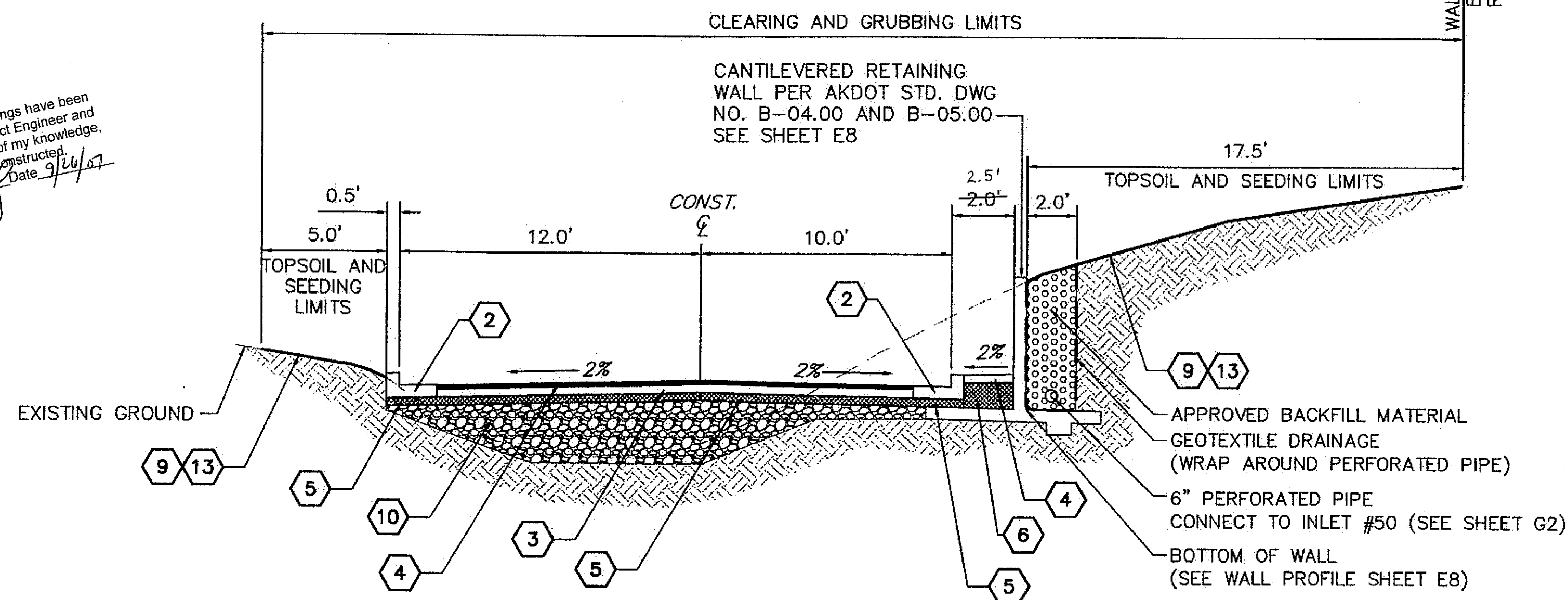
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 7/26/07



TYPICAL SECTION DOUGLAS HIGHWAY ("E" LINE)
STA:4+04.25 TO STA:4+76.25
NOT TO SCALE



TYPICAL SECTION SITKA STREET EXTENSION ("G" LINE)
STA:1+18.00 TO STA:1+40.00
STA:2+10.00 TO STA:4+08.00
NOT TO SCALE



TYPICAL SECTION SITKA STREET EXTENSION ("G" LINE)
STA:1+40.00 TO STA:2+10.00
NOT TO SCALE



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Phone: 425.519.6500

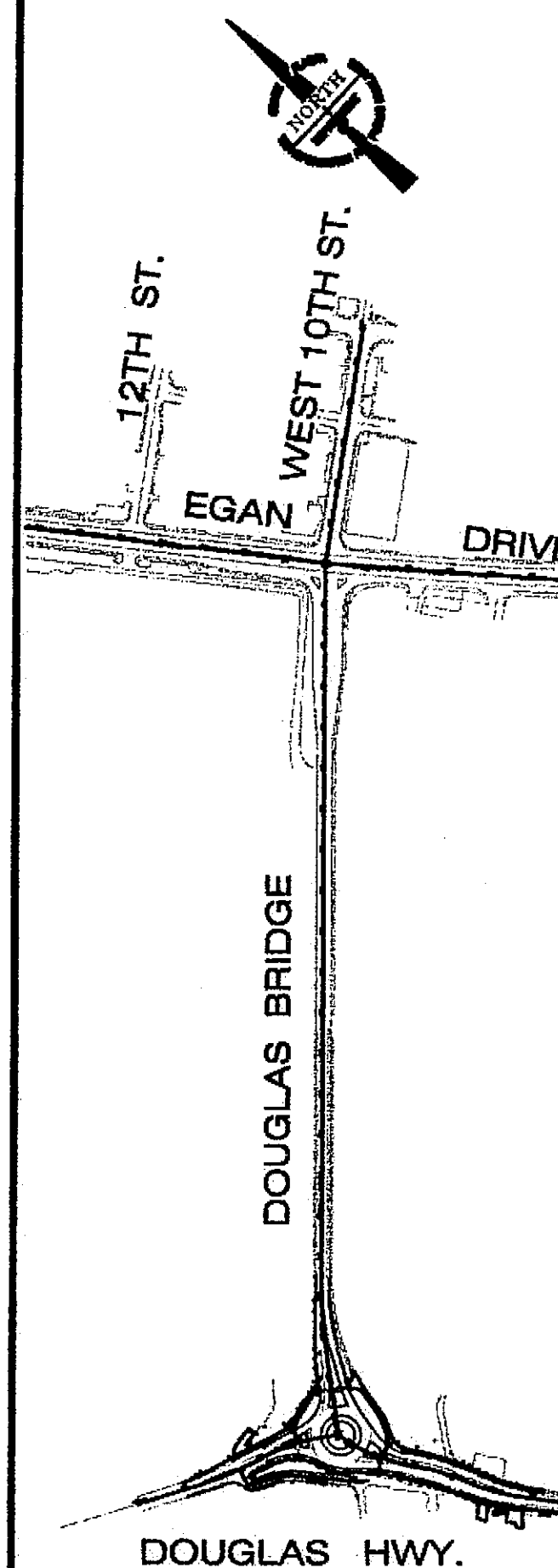
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PSPACE 1-M(F) OR MSPACE 1-M(F)
LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: V.VASKELIS



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
+ PUBLIC FACILITIES
STATEWIDE DESIGN + ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

ROADWAY SECTIONS

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
B3	

ESTIMATE OF QUANTITIES

Item No	Pay Item	Pay Unit	Roundabout	Bridge	Quantity
202 (1)	Removal of Structures and Obstructions	Lump Sum	All Required		All Required
202 (4)	Removal Of Culvert Pipe	Lump Sum	All Required		All Required
202 (6)	Removal Of Manholes	Each	3 2		2 3
202 (8)	Removal Of Inlets	Each	3 4		4 3
203 (3)	Unclassified Excavation	Lump Sum	All Required		All Required
203 (6)	Borrow, Co 4	Cubic Yard	6500 0		0 6500
301 (1)	Aggregate Base Course, Grading D-1	Ton	2500 3547.44		3547.44 2500
306 (1)	ATB	Ton	2000		1942.74 2000
401 (1)	Asphalt Concrete SP, Type A	Ton	1100	650	1091.73 1100
401 (2)	Asphalt Cement, Grade PG 64-28	Ton	146	39	208.83 146
401 (3)	Asphalt Price Adjustment	Contingent Sum	All Required	All Required	All Required
402 (1)	STE-1 Asphalt For Tack Coat	Ton	3 5	2 0	3 72 5 5
408 (1)	Pavement Cold Planing	Square Yard	220	5000	5072.60 5220
501 (1)	Class A Concrete	Lump Sum		All Required	All Required
501 (2)	Class A-A Concrete	Lump Sum		All Required	All Required
501 (9)	Expansion Joint Replacement	Linear Foot		110	110
501(10)	Expansion Joint Modification	Linear Foot		37	37
501(11)	Drill and Bond Dowels	Each		71	71
501(12)	Navigation Clearance Gauge	Lump Sum		All Required	All Required
501(13)	Cantilevered Wall	Square Yard	110 83.11		83.11 110
503 (2)	Epoxy Coated Reinforcing Steel	Lump Sum		All Required	All Required
512 (1)	Rockery Wall	Square Yard	70		73.51 70
603(17-18)	18 Inch Pipe	Linear Foot	1128 987		987 1128
603(17-24)	24 Inch Pipe	Linear Foot	187 348		348 187
604 (1)	Storm Sewer Manhole	Each	11 14		14 11
604 (4)	Adjust Existing Manhole	Each	7 8		8 7
604 (5)	Inlet, Type A	Each	12 11		11 12
604 (8)	Manhole Oil/Water Separator	Each	3		3
605 (3)	6 Inch Perforated Pipe Underdrain	Lineal Foot	190 162		162 190
605 (5)	Porous Backfill Material	Cubic Yard	63 49.50		49.50 63
606 (1)	W-Beam Guardrail	Linear Foot	480 465		465 480
606 (6)	Remove & Disposing of Guardrail	Lineal Foot	708 1093		1093 708
606(11)	Extruder Terminal (ET-2000)	Each	4		4
606(12)	Guardrail/Bridge Rail Connection	Each		2	2
608 (1a)	Concrete Sidewalk, 4 Inches Thick	Square Yard	1340 1417.45		1417.45 1340
608 (6)	Curb Ramp	Each	13 9		9 13
609 (2a)	Curb And Gutter, Type Standard	Linear Foot	3062 2951		2951 3062
609 (2c)	Curb And Gutter, Type Expressway	Linear Foot	1122 1147		1147 1122
615 (1)	Standard Signs	Square Foot	440 441.25		441.25 440
615 (5)	Delineator, Flexible	Each	21 24		24 21
618 (1)	Seeding	Acre	1 0.73		0.73 1
619 (1)	Mulching	Square Yard	4000 3545.62		3545.62 4000
620 (1)	Topsoil	Square Yard	4000 3182.07		3182.07 4000
625 (1)	Pipe Hand Rail	Linear Foot	236		236
627(10)	Adjust of Valve Box	Each	3 11		11 3
633 (1)	Silt Fence	Lineal Foot	1500 661		661 1500
639 (1)	Residence Driveway	Each	3		3
639 (2)	Commercial Driveways	Each	2		2
640 (1)	Mobilization And Demobilization	Lump Sum	All Required	All Required	All Required
641 (1)	Erosion And Pollution Control Administration	Lump Sum	All Required	All Required	All Required
641 (2)	Erosion And Pollution Control	Contingent Sum	All Required	All Required	All Required
641 (5)	Inlet Protection	Each	37 10	2 0	10 39
641 (6)	Rock Check Dam	Each	7 3		3 7
641 (7)	Temporary Sediment Trap	Each	2 0		0 2
642 (1)	Construction Surveying	Lump Sum	All Required		All Required
642 (3)	Three Person Survey Party	Hour	250 3.36		3.36 250
642 (4)	Set Primary Monument	Each	2		2
642(10)	Monument Case	Each	2		2
642(12)	Final Traverse	Lump Sum	All Required		All Required
643 (2)	Traffic Maintenance	Lump Sum	All Required	All Required	All Required
643 (3)	Permanent Construction Signing	Lump Sum	All Required		All Required
643(15)	Flagging	Contingent Sum	All Required	All Required	All Required
643(25)	Traffic Control	Contingent Sum	All Required	All Required	All Required
660 (6)	Highway Lighting System Complete	Lump Sum	All Required		All Required
660 (8)	Temporary Illumination System Complete	Lump Sum	All Required		All Required
660(14)	Navigation Channel Light Replacement	Each		6	6
661 (1)	Load Center, Type 1	Each	1		1
669 (1)	Permanent Traffic Counter System Complete	Lump Sum	All Required		All Required
670 (10)	Methyl Methacrylate Pavement Markings	Lump Sum	All Required	All Required	All Required

ESTIMATE OF QUANTITIES
ADDITIVE ALTERNATE A

Item No	Pay Item	Pay Unit	Roundabout	Bridge	Quantity
121 (1)	BUS STOP, Co 4 DELETED	Lump Sum	All Required 0		0 All Required
121 (1a)	Modified Bus Stop, Co 4	Lump Sum	All REQ'D		All REQ'D
203 (3a)	Extra Milling, Co 2	Lump Sum	All REQ'D		All REQ'D
203 (6a)	Borrow, Co 4	TON	7468.06		7468.06
501 (9a)	Expansion Joint Extra Work, Co 3	Lump Sum		All REQ'D	All REQ'D
604 (3a)	Reconstruct Existing Sewer Manhole, Co 2	Lump Sum	All REQ'D		All REQ'D
604 (3b)	Reconstruct Storm Drain Manhole, Co 3	Lump Sum	All REQ'D		All REQ'D
615 (7)	Sign No. 1 Modification, Co 2	Lump Sum	All REQ'D		All REQ'D
643 (2a)	Extra Traffic Maintenance, Co 3	Lump Sum		All REQ'D	All REQ'D
662 (1)	Electrical Extra Work, Co 5	Lump Sum	All REQ'D		All REQ'D
671 (1)	Drainage System Modification, Co 2	Lump Sum	All REQ'D		All REQ'D
672 (1)	Adjust Utilities in Driveway #3, Co 2	Lump Sum	All REQ'D		All REQ'D
673 (1)	Pedestrian Ramp to Sitka Street, Co 2	Lump Sum	All REQ'D		All REQ'D
674 (1)	Overlay Sitka Street Extension, Co 2	Lump Sum	All REQ'D		All REQ'D

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 9/24/07

General Notes:

All ground disturbed by new construction shall be reseeded or resod.

Basis Of Estimate

ITEM	PAY ITEM	ESTIMATING FACTOR
203 (3)	Unclassified Excavation	550 C.Y.
203 (6)	Borrow, Type "A"	1.80 Tons/C.Y.
301 (1)	Aggregate Base Course, Grading D-1	1.96 Tons/C.Y.
401 (1)	Asphalt Concrete, SP, Type A	117lb./S.Y.-In depth
401 (2)	Asphalt Cement, PG 64-28	6% of 401 (1)
402 (1)	STE-1 Asphalt For Tack Coat	0.1 Gal/S.Y. 253 Gal./Ton
501 (1)	Class A Concrete	70 C.Y.

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ADDENDUM NUMBER

ATTACHMENT NUMBER

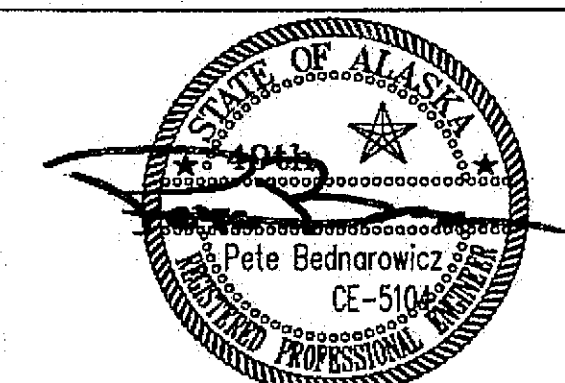
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

JNU-EGAN DR/10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168

ESTIMATE OF QUANTITIES

DESIGNED BY: Russ Kraemer



CHECKED BY: Pete Bednarowicz

DRAWN BY: Dave Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JNU-EGAN DR/10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168

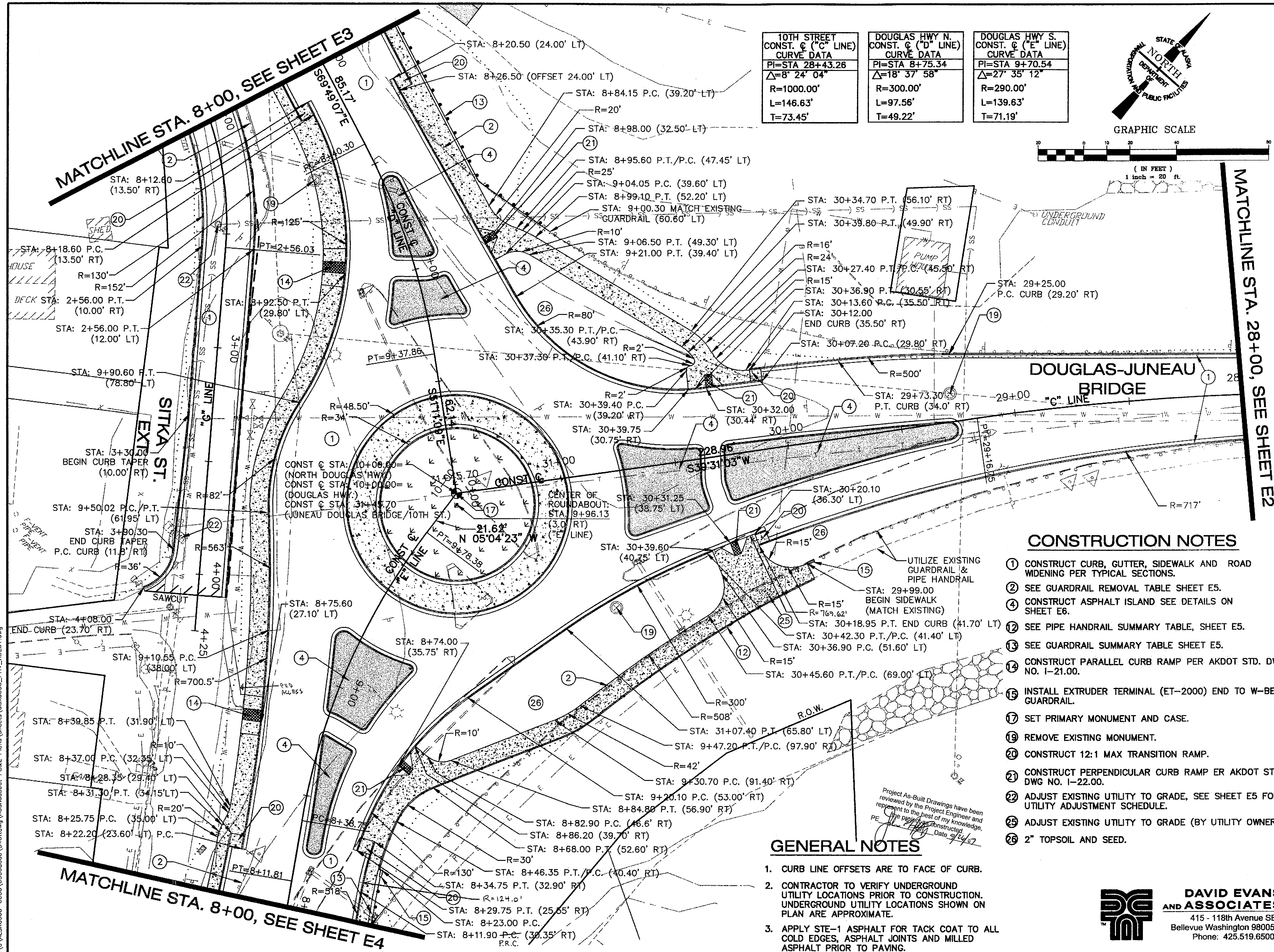
ESTIMATE OF QUANTITIES

PROJECT DESIGNATION NUMBER

NH-F-093-2(29)-(70168)

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
C1	??

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
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12TH ST.
WEST 10TH ST.
EGAN DRIVE
DOUGLAS BRIDGE
DOUGLAS HWY.
SHEET E2

DESIGNED BY: S.SOISETH

CHECKED BY: V.SALEMANN
DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

PAVING PLAN

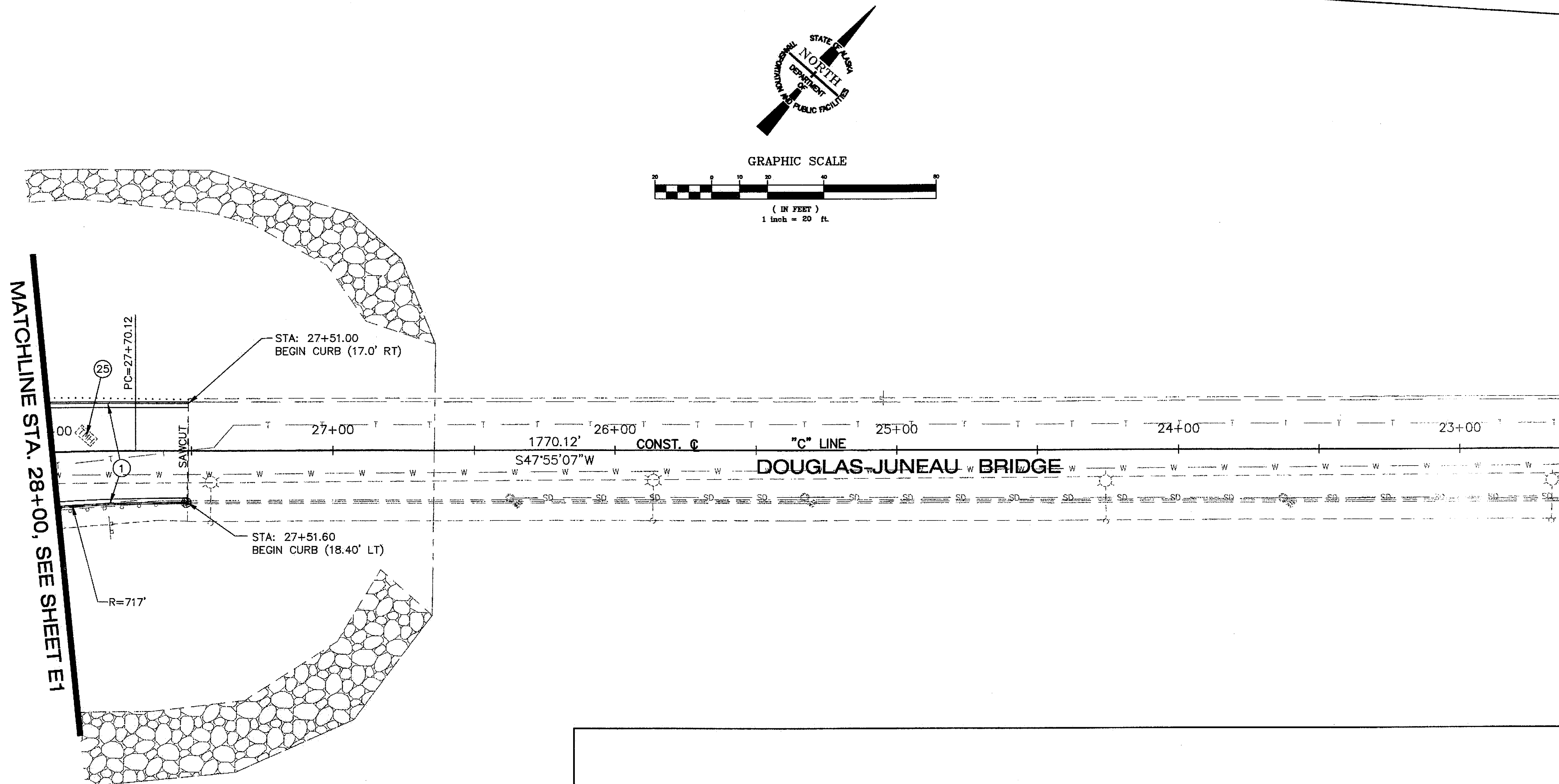
PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEETS
E1	

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415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

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GENERAL NOTES

1. CURB LINE OFFSETS ARE TO FACE OF CURB.
2. CONTRACTOR TO VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. UNDERGROUND UTILITY LOCATIONS SHOWN ON PLAN ARE APPROXIMATE.
3. APPLY STE-1 ASPHALT FOR TACK COAT TO ALL COLD EDGES, ASPHALT JOINTS AND MILLED ASPHALT PRIOR TO PAVING.

CONSTRUCTION NOTES

1. CONSTRUCT CURB, GUTTER, SIDEWALK AND ROAD WIDENING PER TYPICAL SECTIONS.
25. ADJUST EXISTING UTILITY TO GRADE (BY UTILITY OWNER)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 7/24/07



**DAVID EVANS
AND ASSOCIATES INC.**
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Bellevue Washington 98005-3518
Phone: 425.519.6500

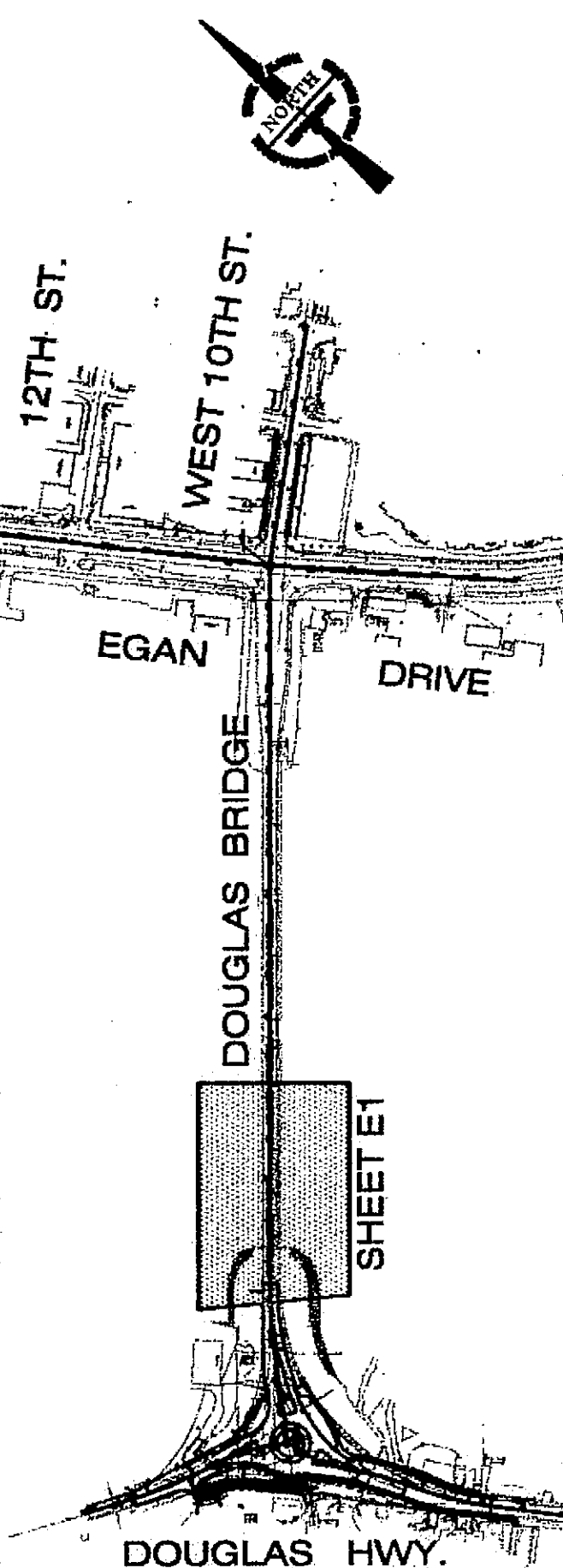
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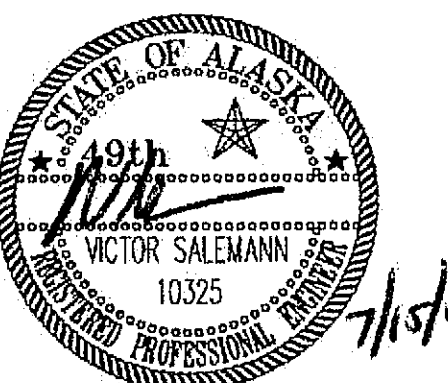
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
**JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT**

PAVING PLAN

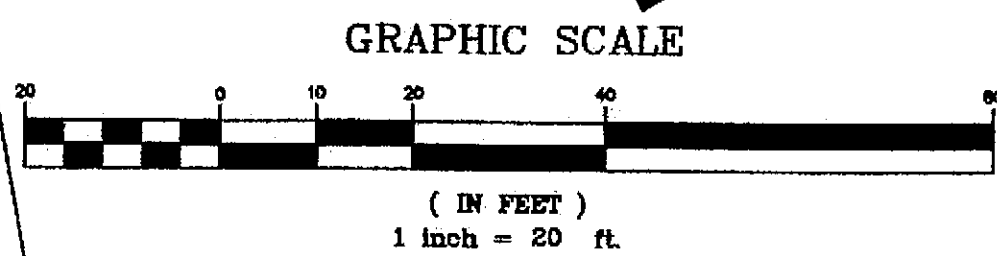
PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
E2	

REVISED SITKA ST. ALIGNMENT "NG" LINE

STATION	DESCRIPTION	CURVE INFORMATION
1+00.00: ("D" 7+66.00)	B.O.P.	TAN. LENGTH = 28.41'
1+28.41	P.C.	R=19.0', L=18.82'
1+47.23	P.C.C.	TAN = 10.26, DELTA = 63.03.32
1+75.94	P.T.	R=49.37, L=28.71
1+78.46	P.C.	TAN = 14.77, DELTA = 37.01.16
2+10.07	P.T.	TAN LENGTH = 2.52
3+06.74	E.O.P.	R=58.47, L=31.61
		TAN = 16.02, DELTA = 34.25.01
		TAN LENGTH = 176.67



DOUGLAS HWY N. CONST. & ("D" LINE) CURVE DATA
PI=STA 6+96.50
Δ=10° 20' 07"
R=650.00'
L=117.25'
T=58.78'

SEE REVISED SITKA ST
ALIGNMENT INFO.

CONST. & STA: 1+00 (SITKA ST.)=
CONST. & STA: 7+42.19 (N. DOUGLAS HWY.)

NORTH DOUGLAS HIGHWAY

MATCHLINE STA. 8+00, SEE SHEET E1

CONSTRUCTION NOTES

- CONSTRUCT CURB, GUTTER, SIDEWALK AND ROAD WIDENING PER TYPICAL SECTIONS.
- SEE GUARDRAIL REMOVAL TABLE SHEET E5.
- CONSTRUCT CANTILEVER RETAINING WALL AKDOT STD. DWG B-04.00 AND B-05.00 AND DETAIL SHEET E8.
- SEE GUARDRAIL SUMMARY TABLE, SEE SHEET E5.
- CONSTRUCT PARALLEL CURB RAMP PER AKDOT STD. DWG NO. 1-21.00.
- INSTALL EXTRUDER (ET-2000) TERMINAL END TO W-BEAM GUARDRAIL.
- INSTALL GUARDRAIL/BRIDGERAIL CONNECTION.
- SET PRIMARY MONUMENT AND CASE.
- REMOVE EXISTING MONUMENT
- CONSTRUCT 12:1 MAX TRANSITION RAMP.
- CONSTRUCT COMMERCIAL DRIVEWAY PER AKDOT STD. DWG NO. 1-20.13.. SEE SHEET E10 FOR PROFILE.

GENERAL NOTES

- CURB LINE OFFSETS ARE TO FACE OF CURB.
- CONTRACTOR TO VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. UNDERGROUND UTILITY LOCATIONS SHOWN ON PLAN ARE APPROXIMATE.
- APPLY STE-1 ASPHALT FOR TACK COAT TO ALL COLD EDGES, ASPHALT JOINTS AND MILLED ASPHALT PRIOR TO PAVING.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date 7/24/07

SITKA ST. CONST. & ("G" LINE) CURVE DATA	PI=STA 1+37.76	PI=STA 1+62.15	PI=STA 2+15.99
Δ=56° 44' 57"	Δ=34° 37' 20"	Δ=32° 16' 40"	
R=19.00'	R=49.37'	R=140.00'	
L=18.82'	L=29.83'	L=78.87'	
T=10.26'	T=15.39'	T=40.51'	



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AND ASSOCIATES INC.**
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Bellevue Washington 98005-3518
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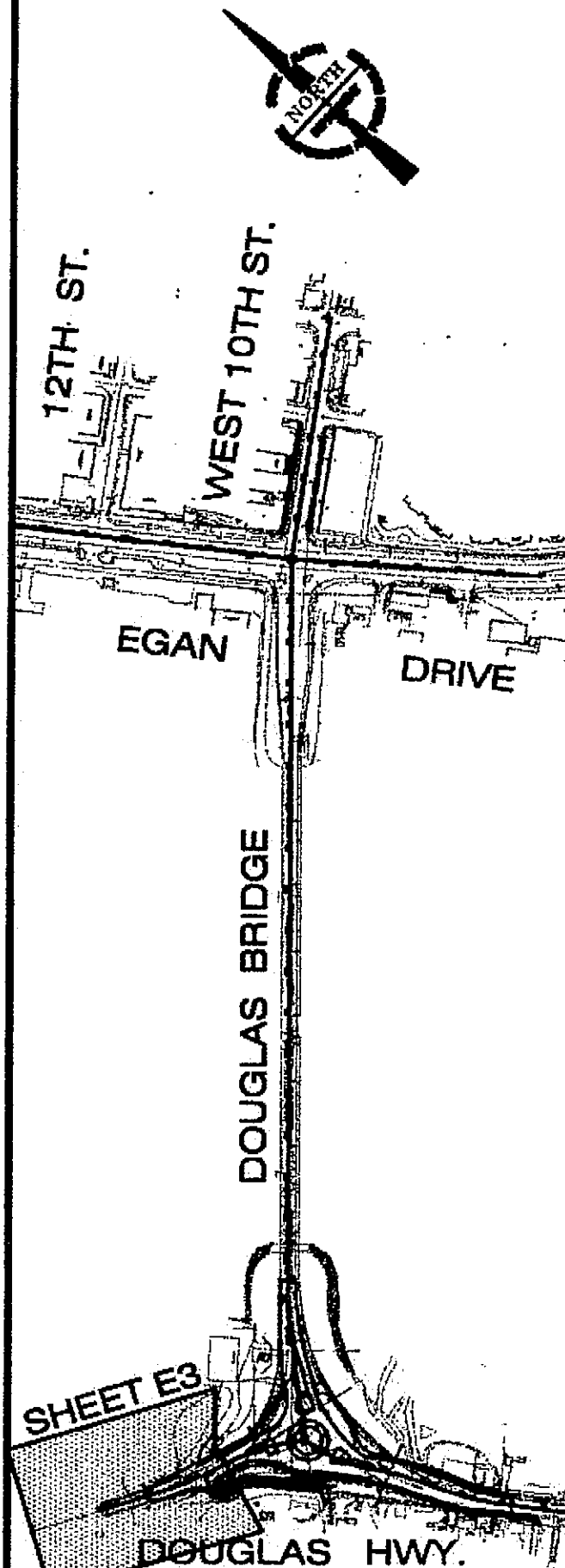
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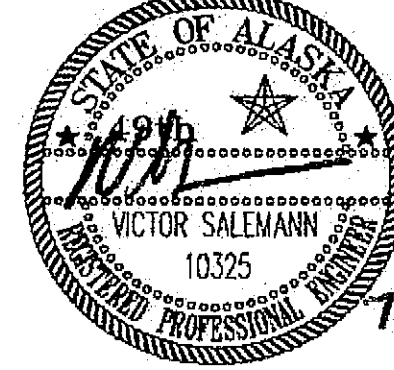
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

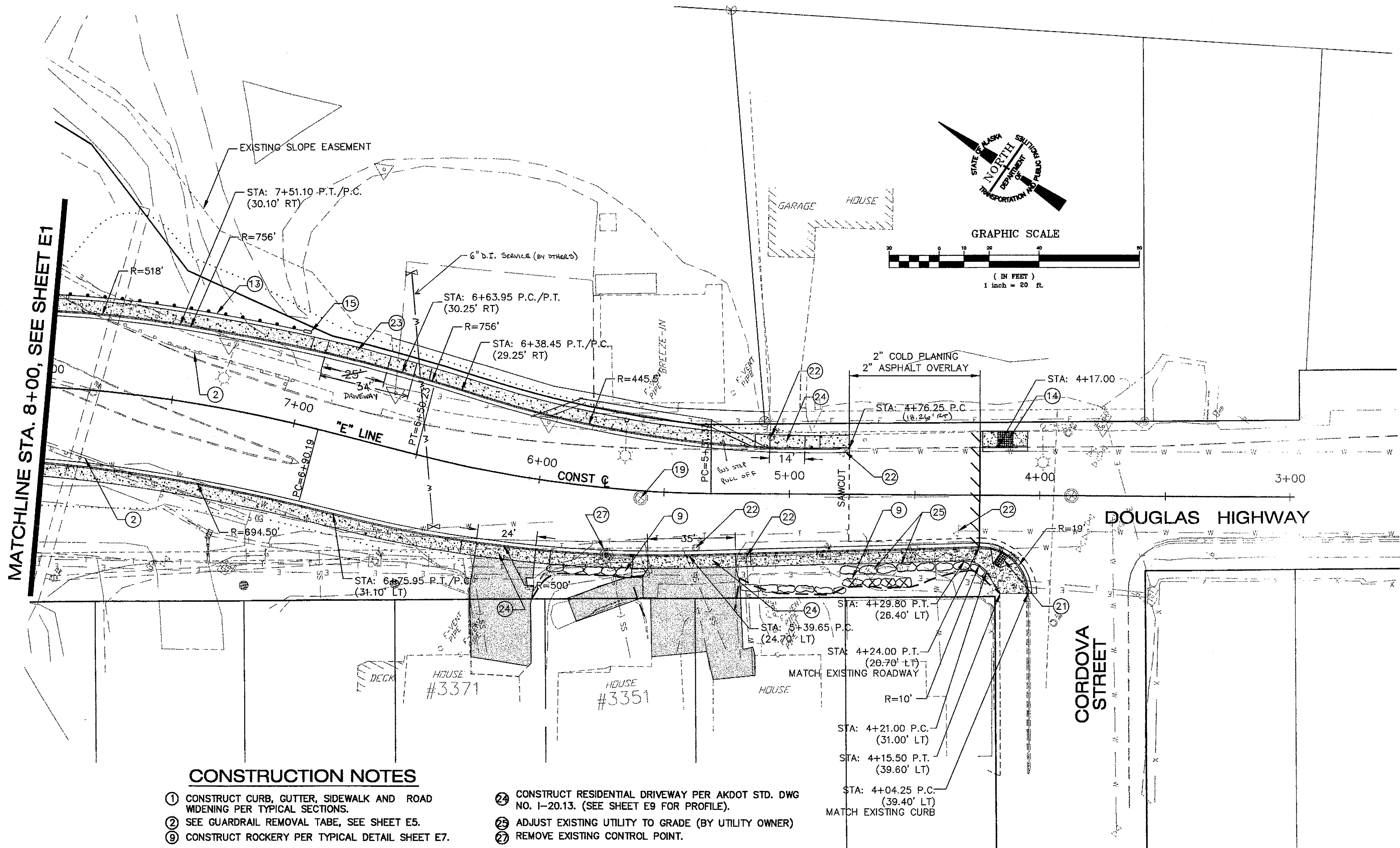
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

PAVING PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
E3	



CONSTRUCTION NOTES

1. CONSTRUCT CURB, GUTTER, SIDEWALK AND ROAD WIDENING PER TYPICAL SECTIONS.
2. SEE GUARDRAIL REMOVAL TAB, SEE SHEET E5.
3. CONSTRUCT ROCKERY PER TYPICAL DETAIL SHEET E7.
4. SEE GUARDRAIL SUMMARY TABLE SHEET E5.
5. CONSTRUCT PARALLEL CURB RAMP PER AKDOT STD. DWG NO. 1-21.00.
6. INSTALL EXTRUDER TERMINAL (ET-2000) TO W-BEAM GUARDRAIL.
7. REMOVE EXISTING MONUMENT
8. CONSTRUCT PERPENDICULAR CURB RAMP PER AKDOT STD. DWG NO. 1-22.00.
9. ADJUST EXISTING UTILITY TO GRADE, SEE SHEET E5 FOR UTILITY ADJUSTMENT SCHEDULE.
10. CONSTRUCT COMMERCIAL DRIVEWAY PER AKDOT STD. DWG NO. 1-20.13.

11. CONSTRUCT RESIDENTIAL DRIVEWAY PER AKDOT STD. DWG NO. 1-20.13. (SEE SHEET E9 FOR PROFILE).
12. ADJUST EXISTING UTILITY TO GRADE (BY UTILITY OWNER)
13. REMOVE EXISTING CONTROL POINT.

GENERAL NOTES

1. CURB LINE OFFSETS ARE TO FACE OF CURB.
2. CONTRACTOR TO VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. UNDERGROUND UTILITY LOCATIONS SHOWN ON PLAN ARE APPROXIMATE.
3. APPLY STE-1 ASPHALT FOR TACK COAT TO ALL COLD EDGES, ASPHALT JOINTS AND MILLED ASPHALT PRIOR TO PAVING.

DOUGLAS HWY S. CONST. C ('E' LINE) CURVE DATA	
PI=STA 7+51.00 $\Delta=12^{\circ} 40' 08''$ R=550' L=121.61' T=61.06'	PI=STA 5+90.78 $\Delta=14^{\circ} 11' 36''$ R=480' L=118.91' T=59.76'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 7/24/07



DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
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Phone: 425.519.6500

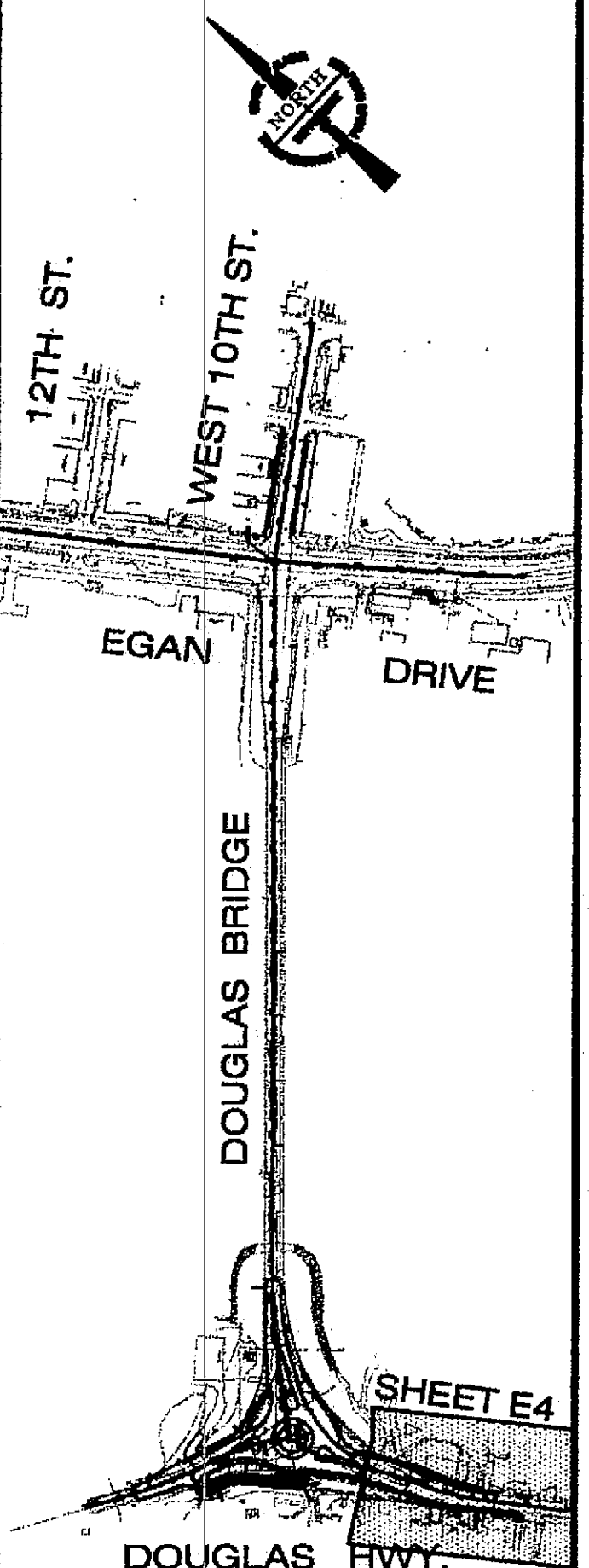
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LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

PAVING PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
E4	

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UTILITY ADJUSTMENT SCHEDULE

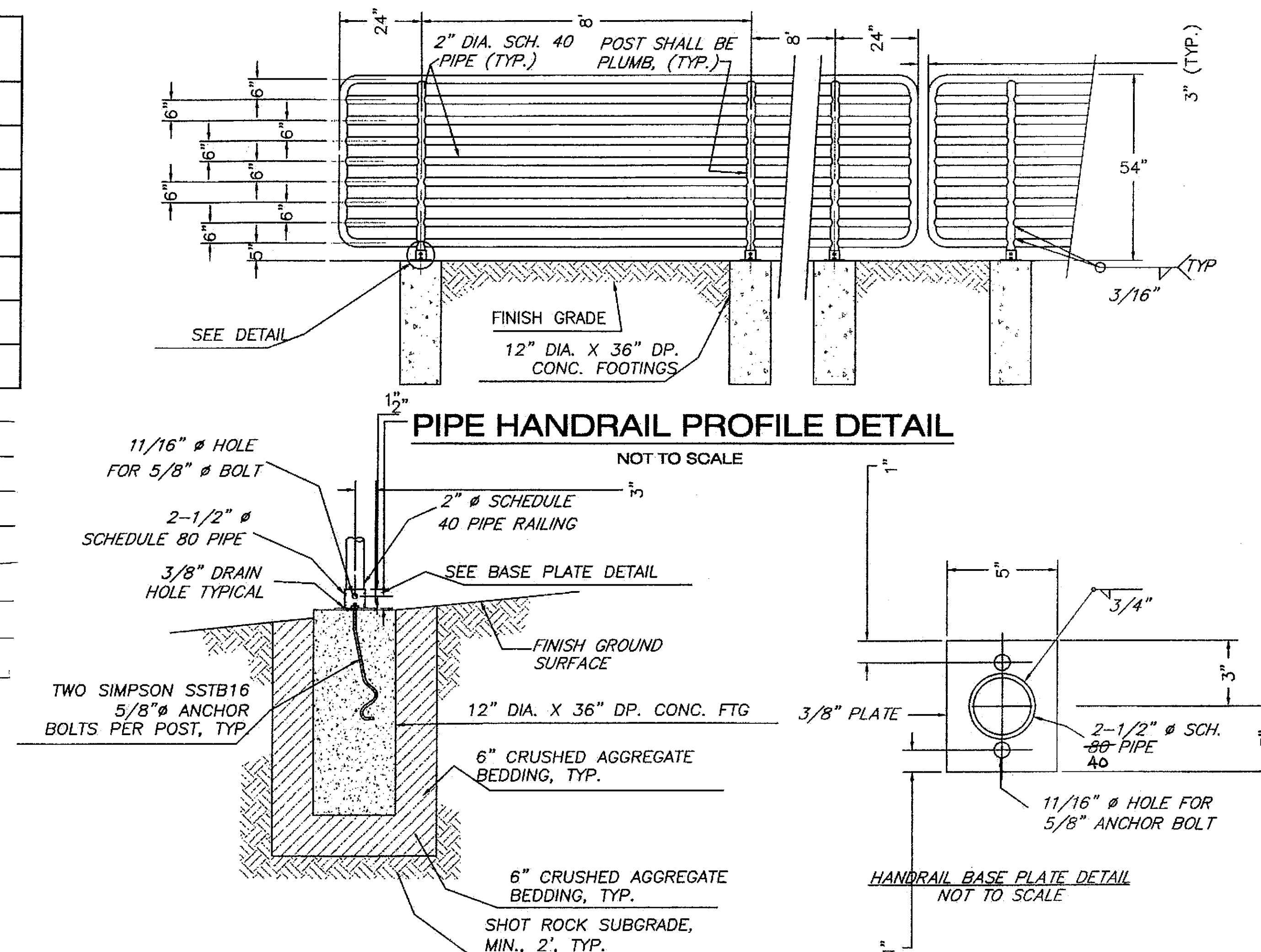
STATION	LT	RT	TYPE	EXISTING EL.	PROPOSED EL.	REMARKS
4+32.20 "E" LINE	14.2'		WATER VALVE			WATER VALVE IN OVERLAY AREA.
4+78.20 "E" LINE		17.3'	WATER VALVE	57.80'	57.80'	RELOCATE OUT OF PROPOSED GUTTER
5+07.40 "E" LINE		22.8'	SS MH	58.03'	58.30'	RAISE MH 0.27'
5+16.90 "E" LINE	25.1'		WATER VALVE	58.08'	58.08'	RELOCATE OUT OF PROP. DW CURB CUT
5+36.80 "E" LINE	21.9'		SS MH	57.74'	57.40'	LOWER MH 0.34'
2+45.80 "G" LINE (2+24.00' NEW "G" LINE)		3.7'	SS MH	45.42'	50.23'	RAISE MH 4.81'
3+65 New "G" LINE		10'	ELECTRICAL MH			
7+80 "E" LINE	6	6	SDMH			
30+60 "C" LINE	75'		SDMH			
4+10 "E" LINE	25'		SDMH			
3+15 New "G" LINE	20'		5 VALVE CLUSTER (WATER)			RAISE APPROX. 1.0'
6+50 "D" LINE	37'		WATER VALVE			
2+10 NEW "G" LINE	5'		WATER VALVE			
5+15 "E" LINE	32'		SDMH			

GUARDRAIL REMOVAL TABLE

STATION & OFFSET	QUANTITY	REMARKS
STA 29+99.00 (52.50'LT) "C" LINE TO 7+03.00 (17.00'RT) "E" LINE	350	REMOVE EXISTING GUARDRAIL AND POST.
STA 8+20.00 (22.50'LT) "D" LINE TO 9+00 (60.00'RT) "D" LINE LT	59	REMOVE EXISTING GUARDRAIL AND POST.
STA 6+00 (18.40'LT) "D" LINE TO 7+27.00 (17.50'LT) "D" LINE	125	REMOVE EXISTING GUARDRAIL AND POST.
STA 7+60.00 (30.00'RT) "D" LINE TO 8+55.00 (60.00'RT) "D" LINE	82	REMOVE EXISTING GUARDRAIL AND POST.
STA 7+09.00 (41.00'LT) "E" LINE TO 8+27.00 (17.00'LT) "E" LINE	92	REMOVE EXISTING GUARDRAIL AND POST.
STA 6+00.00 (18.5' RT) "D" LINE TO 8+50.00 (60.00'RT) "D" LINE	265	" " " " " "

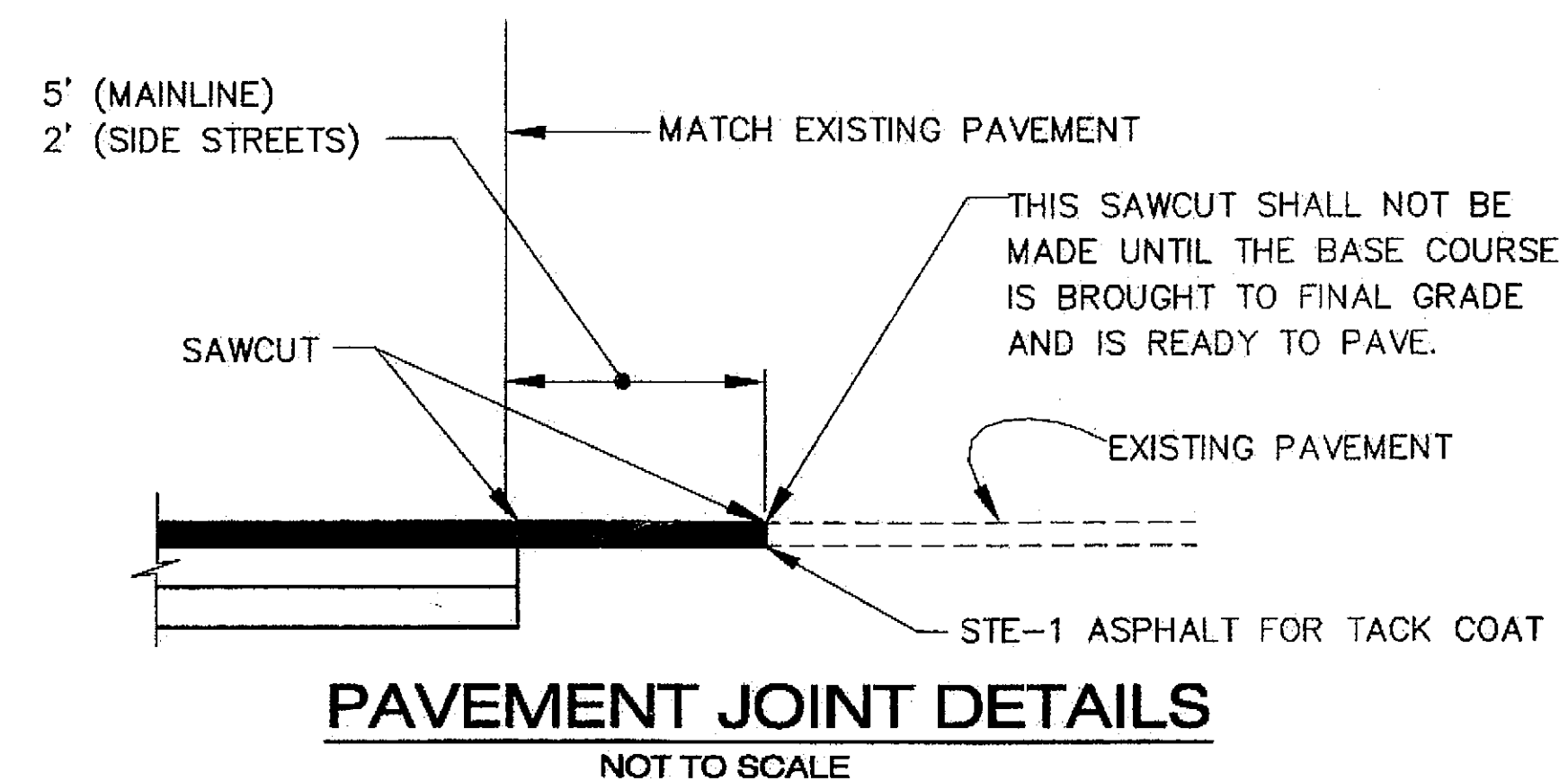
GUARDRAIL SUMMARY TABLE

STATION & OFFSET	QUANTITY	REMARKS
STA 7+05 (37.0'RT) "E" LINE TO 8+23 (38.0'RT) "E" LINE	122	INSTALL NEW W-BEAM GUARDRAIL WITH STEEL POST PER AKDOT STD. DWG. NO. G-04.06S
STA 7+94 (36.5'LT) "D" LINE TO 9+00 (61.0'LT) "D" LINE	123	INSTALL NEW W-BEAM GUARDRAIL WITH STEEL POST PER AKDOT STD. DWG. NO. G-04.06S
STA 6+00 (18.0'LT) "D" LINE TO 7+37 (36.0'LT) "D" LINE	134	INSTALL NEW W-BEAM GUARDRAIL WITH STEEL POST PER AKDOT STD. DWG. NO. G-04.06S
STA 6+00 (19.0'RT) "D" LINE TO 7+00 (19.3'RT) "D" LINE	101	INSTALL NEW W-BEAM GUARDRAIL WITH STEEL POST PER AKDOT STD. DWG. NO. G-04.06S



PIPE HANDRAIL SUMMARY TABLE

STATION & OFFSET	QUANTITY	REMARKS
STA 8+23.00 (37.0'RT) "E" LINE TO 29+99.00 (60.7'LT) "C" LINE	236	CONSTRUCT PIPE HANDRAIL PER DETAIL (SEE ABOVE)



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 7/29/07



DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

Fr, 16/Jul/04 10:26AM OXA
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

12TH ST.
WEST 10TH ST.
EGAN DRIVE
DOUGLAS BRIDGE
DOUGLAS HWY.

DESIGNED BY: S.SOISETH

STATE OF ALASKA
19th
VICTOR SALEMANN
10325
PROFESSIONAL ENGINEER
7/15/04

CHECKED BY: V.SALEMANN
DRAWN BY: O. AHRENSFELD

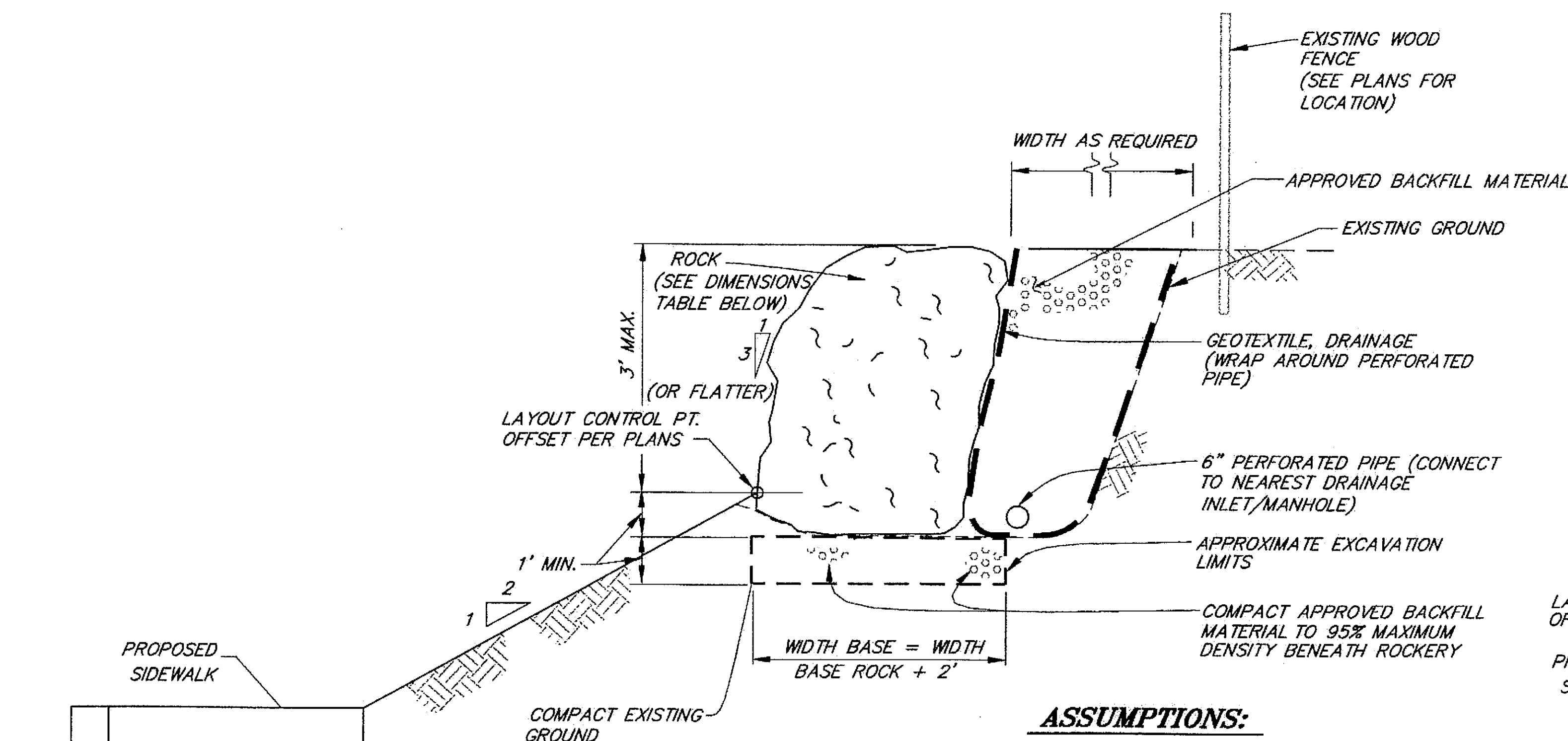
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

PAVING DETAILS

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
E5	

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ASSUMPTIONS:

γ = SOIL UNIT WEIGHT = 120 LB/FT³
 ϕ = SOIL PHI ANGLE = 33°
S.F. (SLIDING) = SAFETY FACTOR = 1.5
S.F. (OVERTURN) = SAFETY FACTOR = 1.5
NO TRAFFIC SURCHARGE WITHIN 12' OF TOP OF WALL

THE ROCKERY SHALL BE CONSTRUCTED OF ROCKS WHICH CONFORM TO THE FOLLOWING TABLE:

	*AVERAGE DIMENSION	MINIMUM WEIGHT
TOP 3 FT. OF WALL	30" TO 36"	1000 LBS.
3 TO 6 FT. FROM TOP OF WALL	36" TO 42"	2500 LBS.

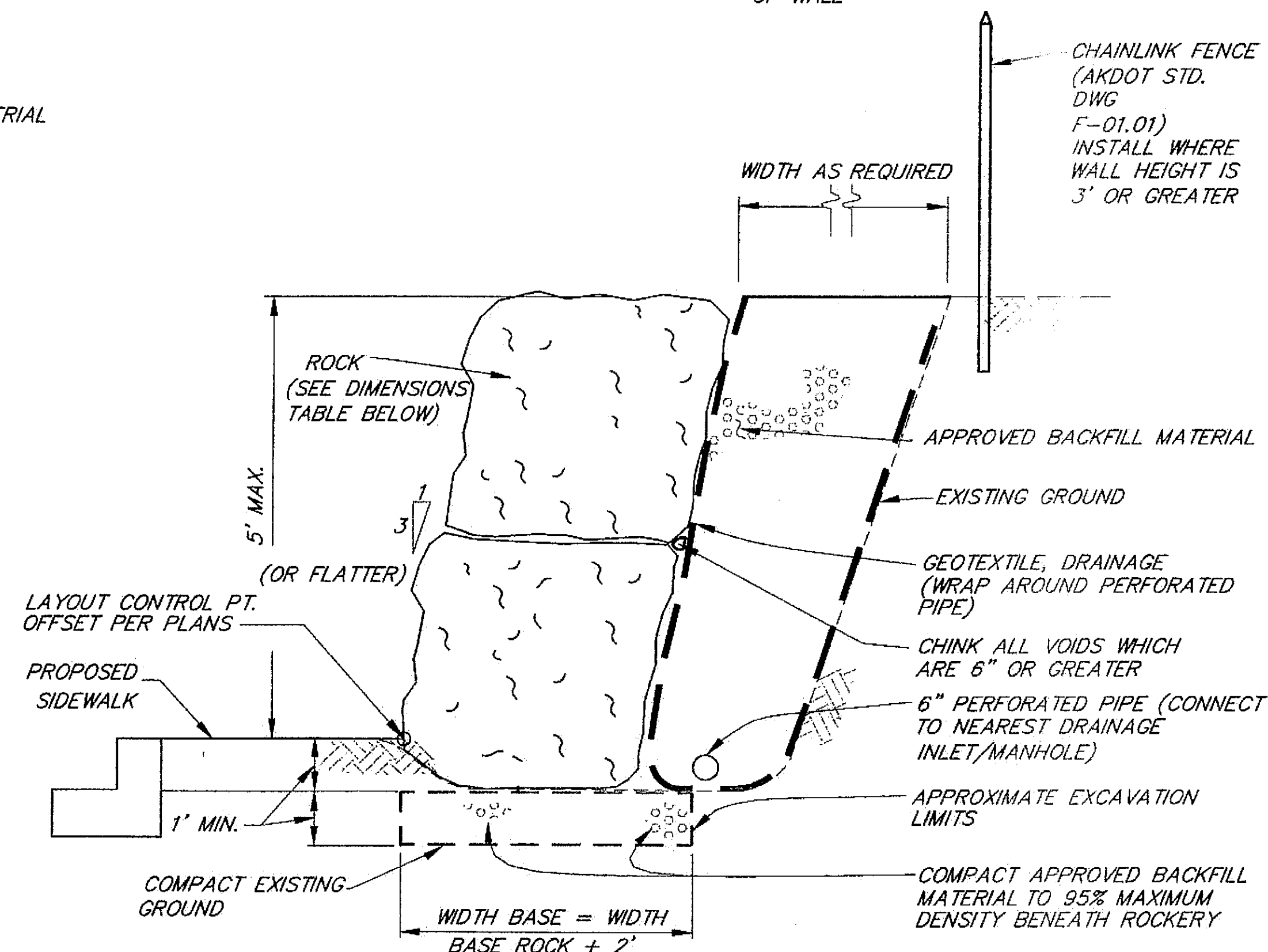
* ROCKS SHALL BE FLAT, LEDGER TYPE SHAPE FOR MAXIMUM STABILITY.

DOUGLAS HIGHWAY ROCKERY #1

ROCKERY	BEGIN STA. (OFFSET)	END STA. (OFFSET)	MAX. WALL HEIGHT	EXPOSED WALL AREA
1	4+51.00 (36.00' LT) "E" LINE	4+78 (36.00' LT) "E" LINE	3'	55 SQ. FT.
1A	4+20 (30' LT) "E" LINE	4+80 (27' LT) "E" LINE	3'	
1B	4+78 (36' LT) "E" LINE	5+20 (36' LT) "E" LINE	3'	

ROCKERY #1 END VIEW DETAIL (LOOKING DOWN STATION)

NOT TO SCALE



THE ROCKERY SHALL BE CONSTRUCTED OF ROCKS WHICH CONFORM TO THE FOLLOWING TABLE:

	*AVERAGE DIMENSION	MINIMUM WEIGHT
TOP 3 FT. OF WALL	30" TO 36"	1000 LBS.
3 TO 6 FT. FROM TOP OF WALL	36" TO 42"	2500 LBS.

* ROCKS SHALL BE FLAT, LEDGER TYPE SHAPE FOR MAXIMUM STABILITY.

DOUGLAS HIGHWAY ROCKERY #2

ROCKERY	BEGIN STA. (OFFSET)	END STA. (OFFSET)	MAX. WALL HEIGHT	EXPOSED WALL AREA
2	5+55.00 (31.00' LT) "E" LINE	5+92.00 (33.00' LT) "E" LINE	5'	130 SQ. FT.

ROCKERY #2 END VIEW DETAIL (LOOKING DOWN STATION)

NOT TO SCALE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 7/26/07

ASSUMPTIONS:

γ = SOIL UNIT WEIGHT = 120 LB/FT³
 ϕ = SOIL PHI ANGLE = 33°
S.F. (SLIDING) = SAFETY FACTOR = 1.5
S.F. (OVERTURN) = SAFETY FACTOR = 1.5
NO TRAFFIC SURCHARGE WITHIN 12' OF TOP OF WALL

CHAINLINK FENCE (AKDOT STD. DWG F-01.01) INSTALL WHERE WALL HEIGHT IS 3' OR GREATER

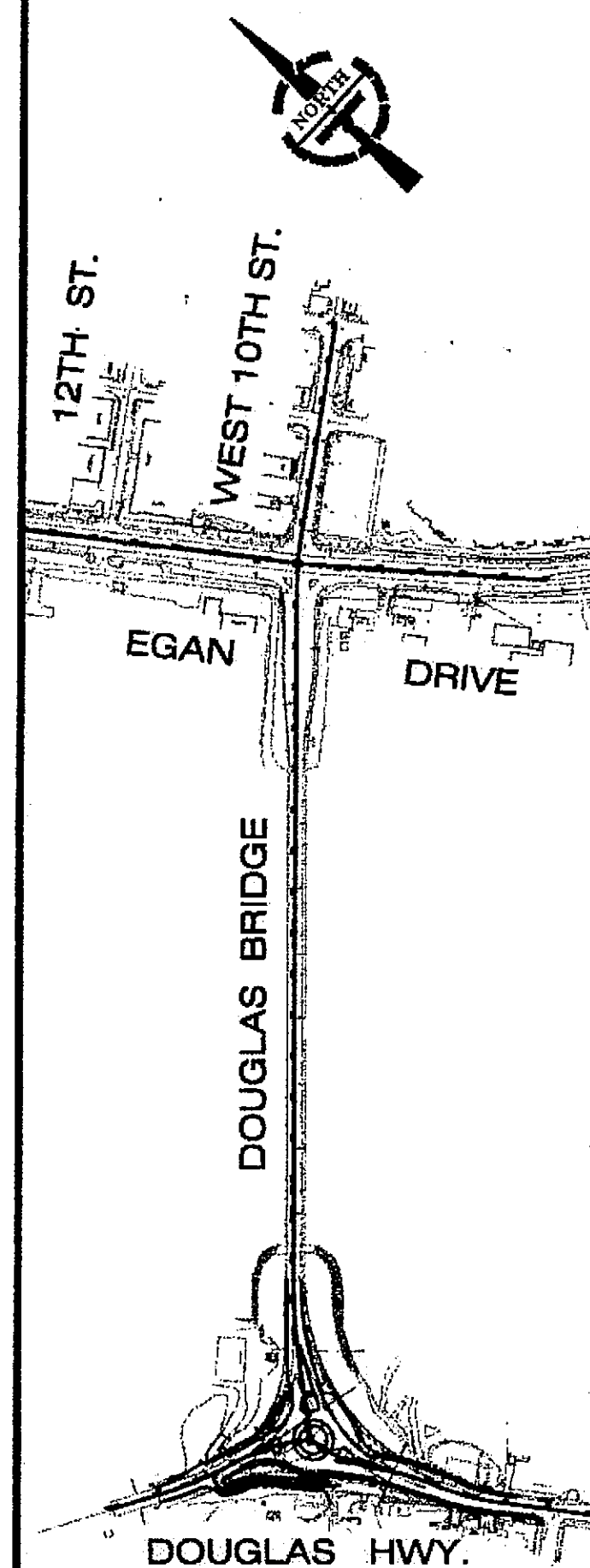
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LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

ROCKERY DETAILS

PROJECT DESIGNATION NUMBER

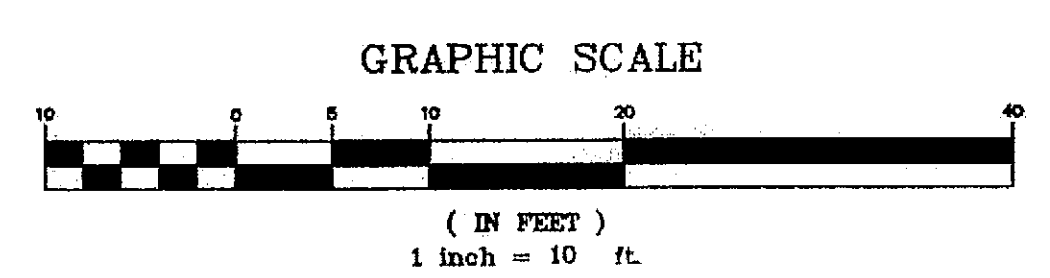
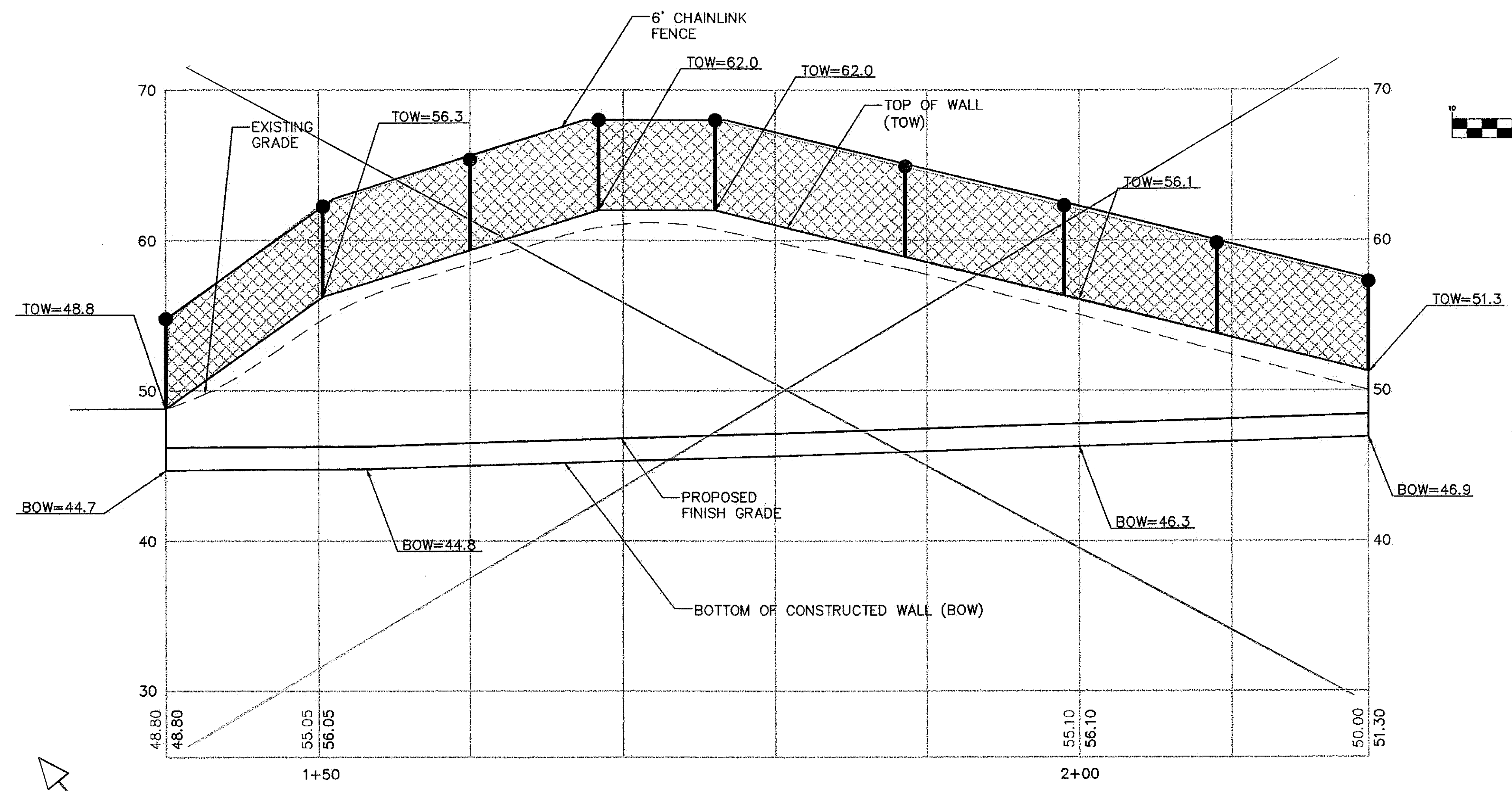
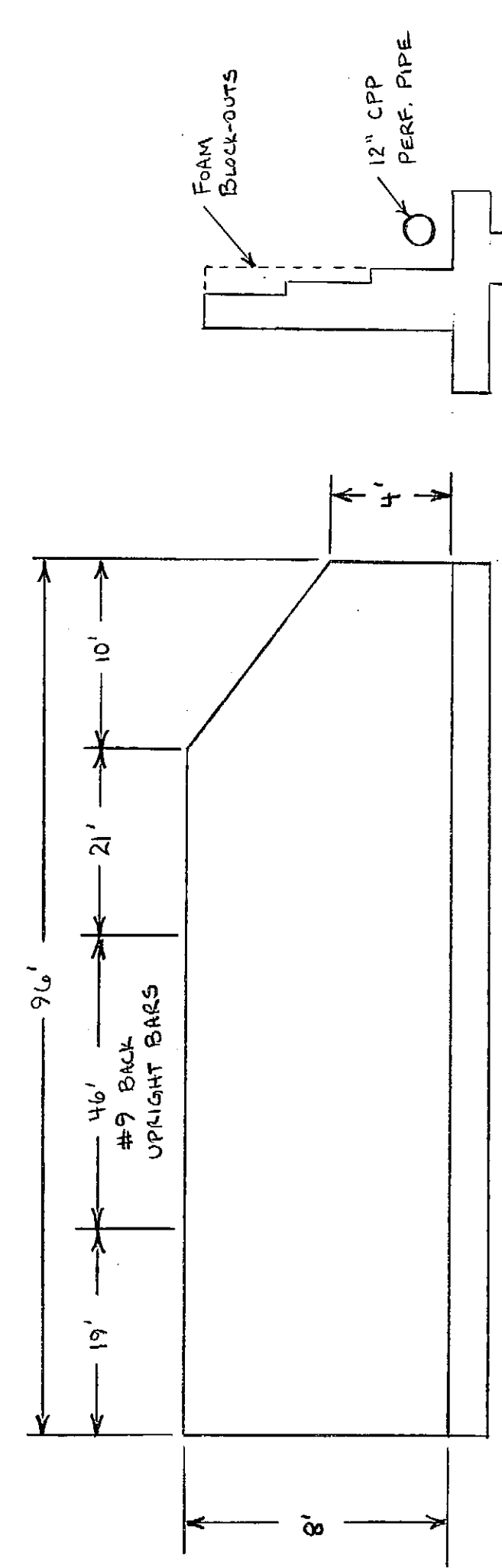
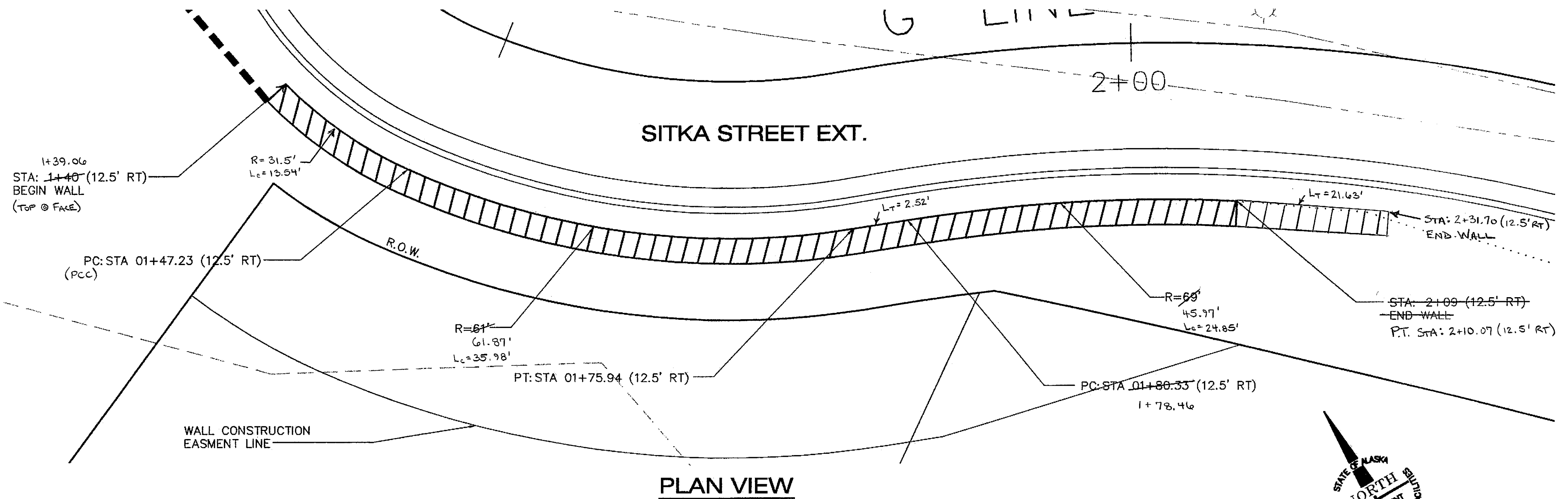
NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
E7	



DAVID EVANS
AND ASSOCIATES INC.
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Bellevue Washington 98005-3518
Phone: 425.519.6500

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GENERAL NOTES

1. CONSTRUCT WALL PER AKDOT STD. DWG NO. B-04.00 AND B-05.00.
2. LAYOUT CONTROL PT IS AT BOTTOM FACE OF EXPOSED WALL. SEE TYPICAL SECTION SHEET B3 FOR OFFSETS.
3. CONSTRUCT 6' CHAINLINK FENCE PER AKDOT STD. DWG NO. F-01.01. OFFSET FENCE 2' FROM TOPBACK OF WALL.
4. ROCK MAY BE ENCOUNTERED DURING WALL EXCAVATION.



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PSPACE 1=1(F) OR MSPACE 1=1(F)
LAYOUT TAB: Layout1

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No.	DATE	DESCRIPTION

12TH ST.
WEST 10TH ST.
EGAN DRIVE
DOUGLAS BRIDGE
DOUGLAS HWY.

DESIGNED BY: S.SOISETH

CHECKED BY: V.SALEMANN
DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
VICTOR SALEMANN
10325
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

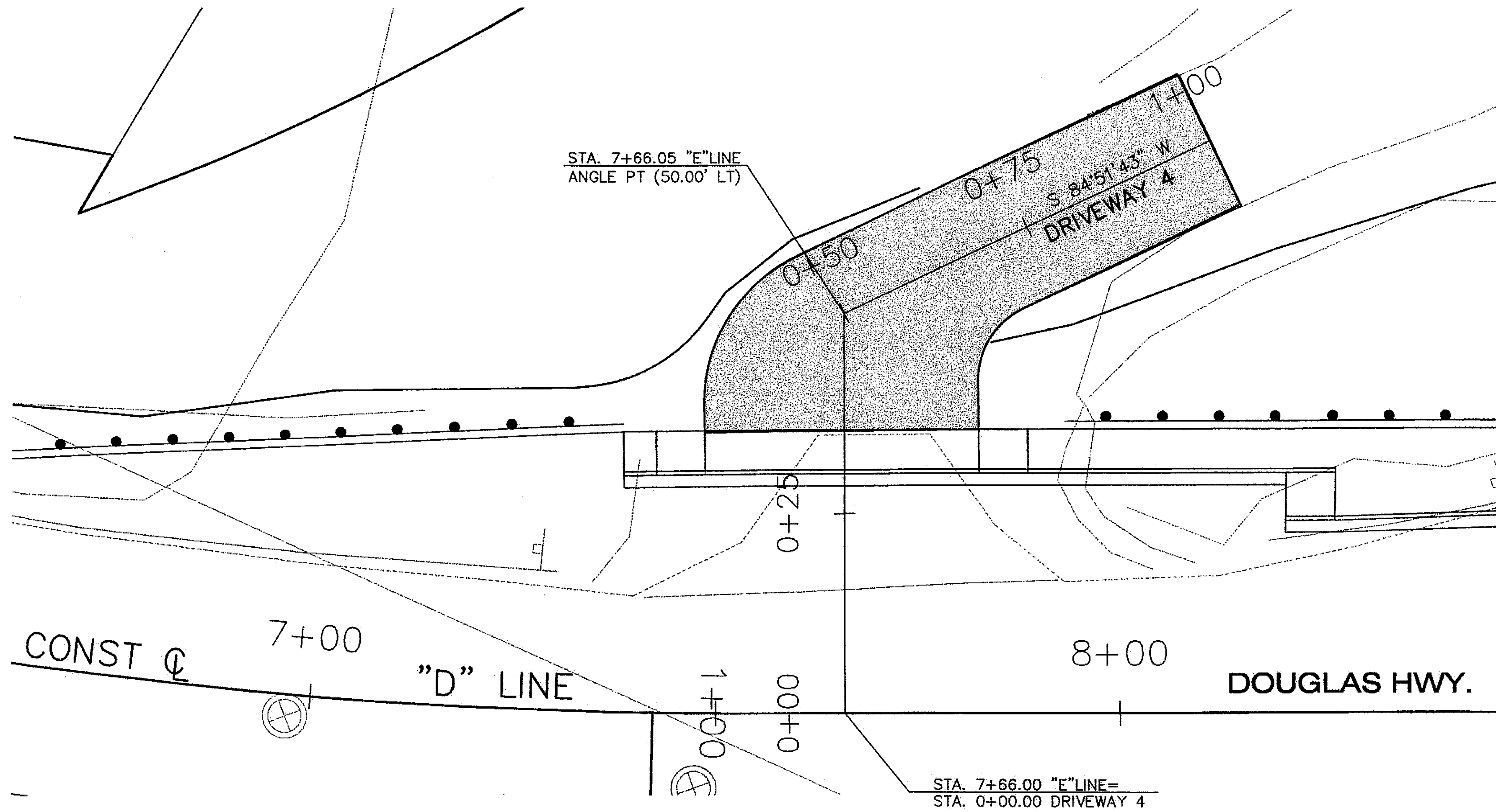
WALL DETAIL

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)~70168

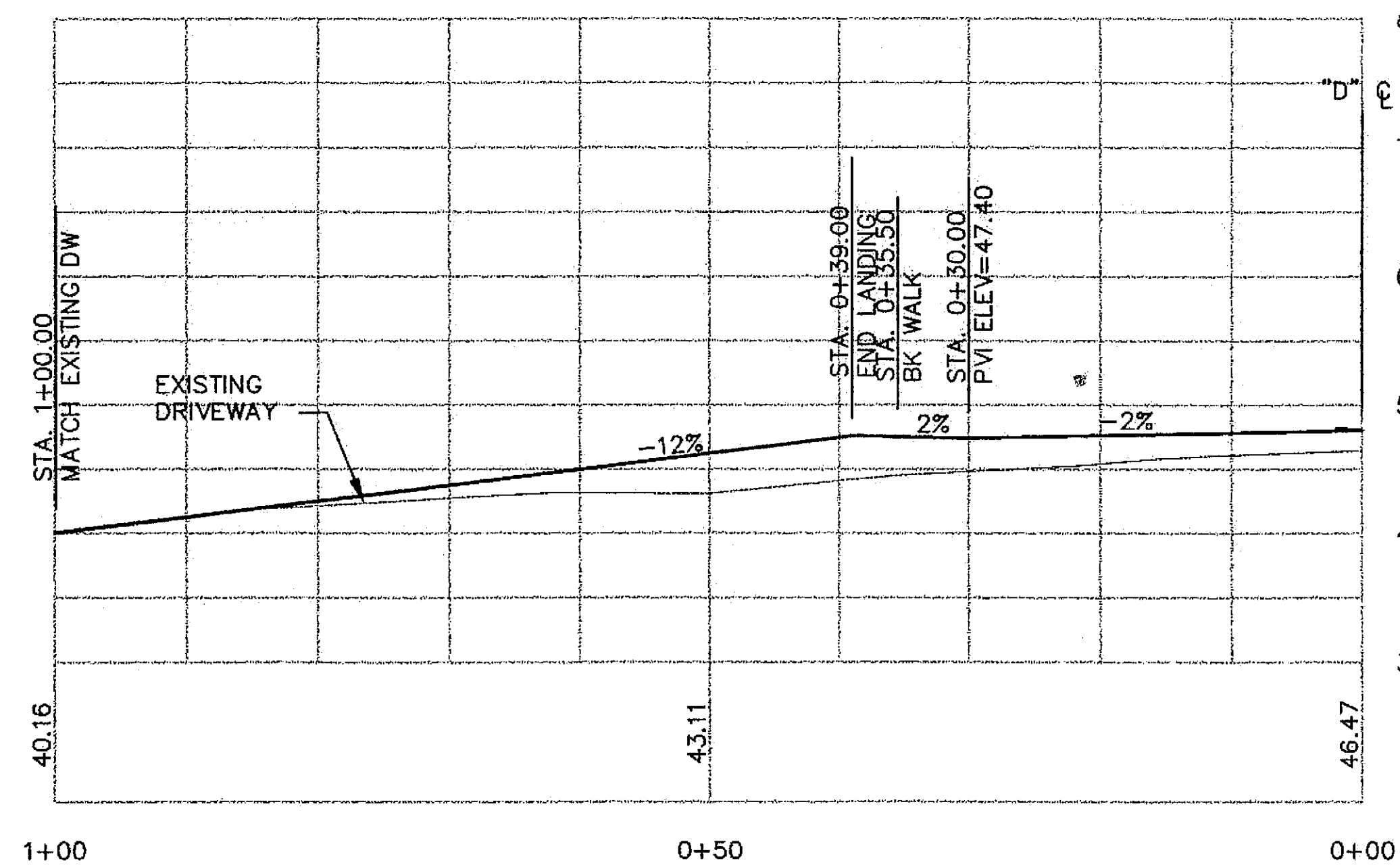
STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEETS
E8	

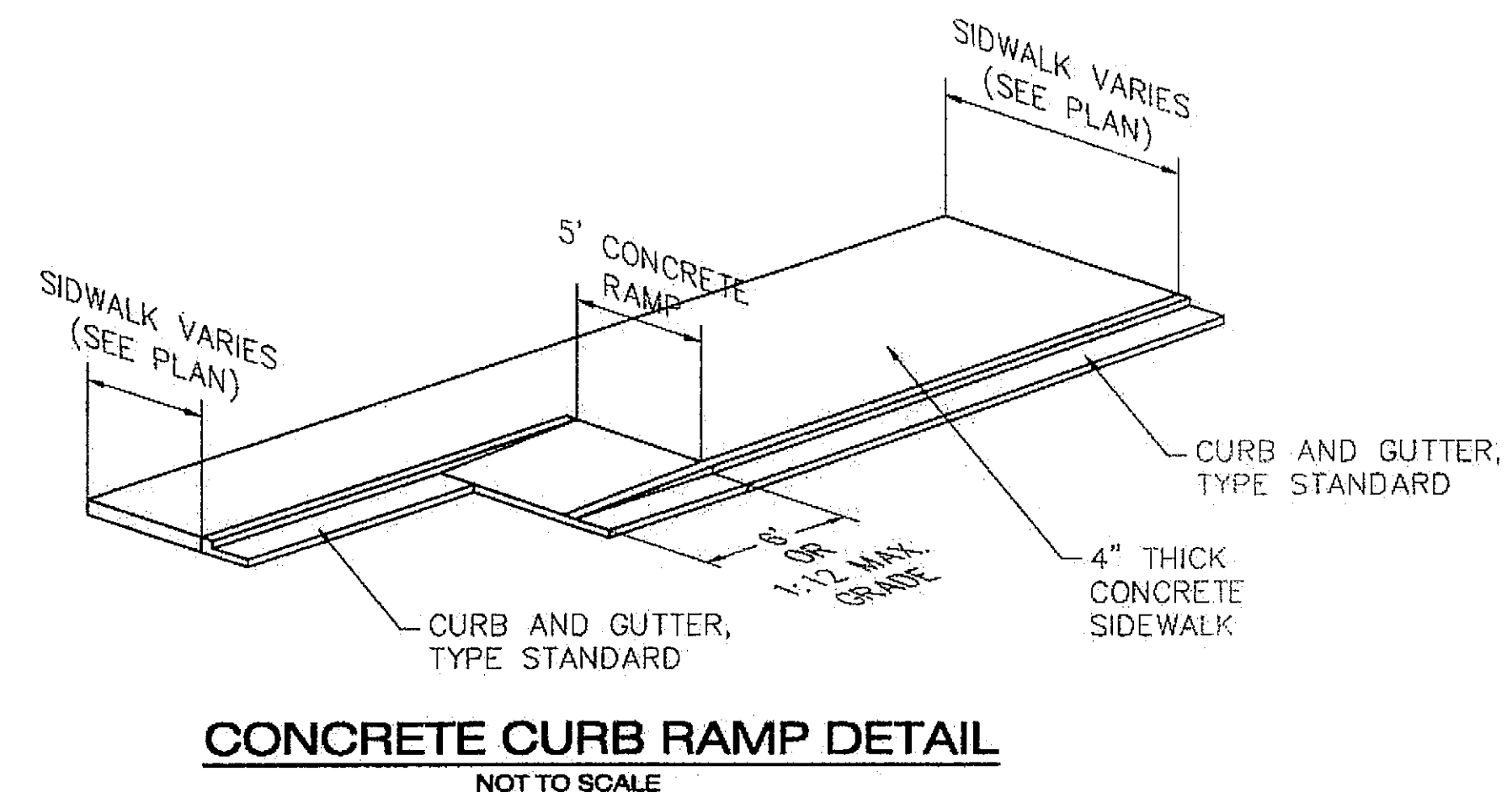
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PLAN VIEW



DRIVEWAY 4 PROFILE



* ELEVATIONS ARE SHOWN AT FLOW LINE OF 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: *[Signature]* Date: 7/24/07



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Phone: 425.519.6500

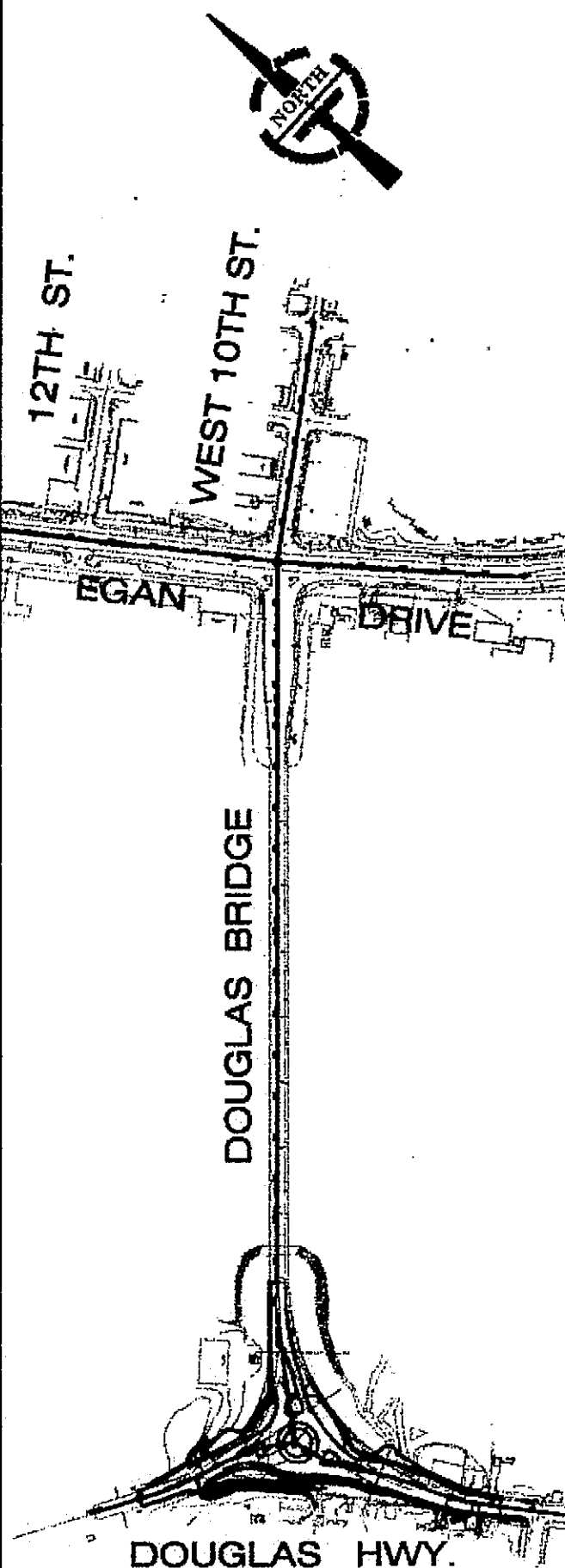
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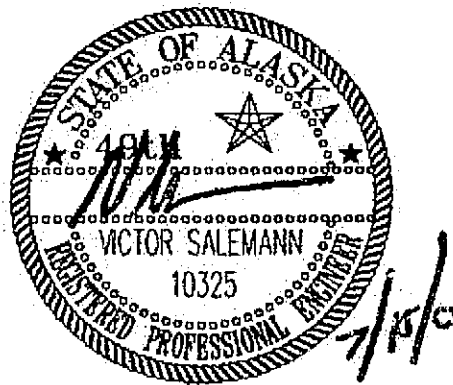
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

DRIVEWAY PROFILES

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

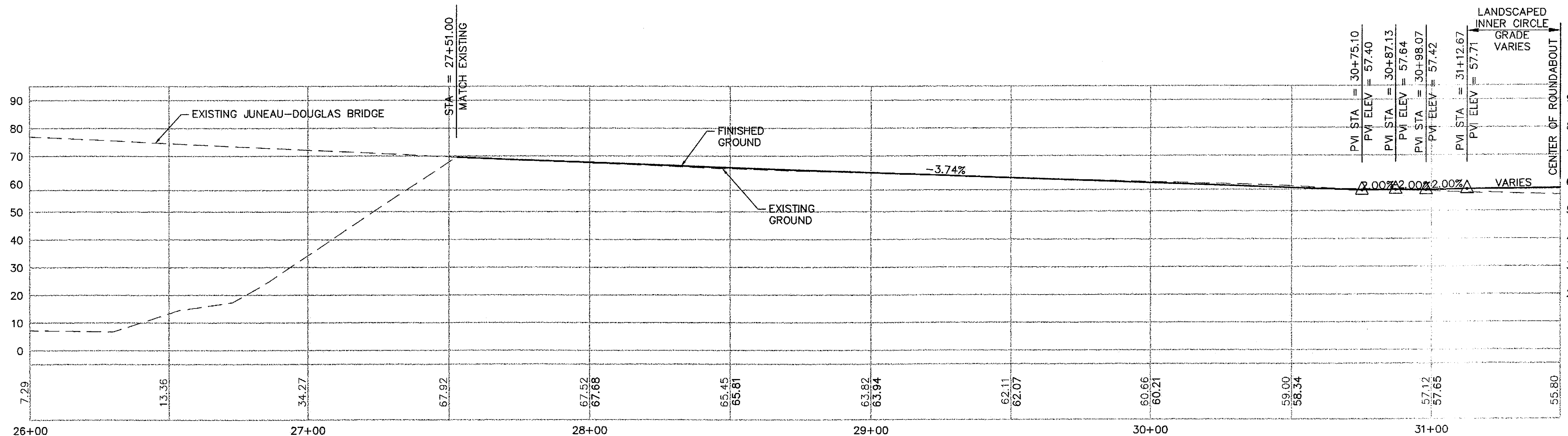
STATE YEAR

ALASKA 2004

SHEET NUMBER TOTAL SHEETS

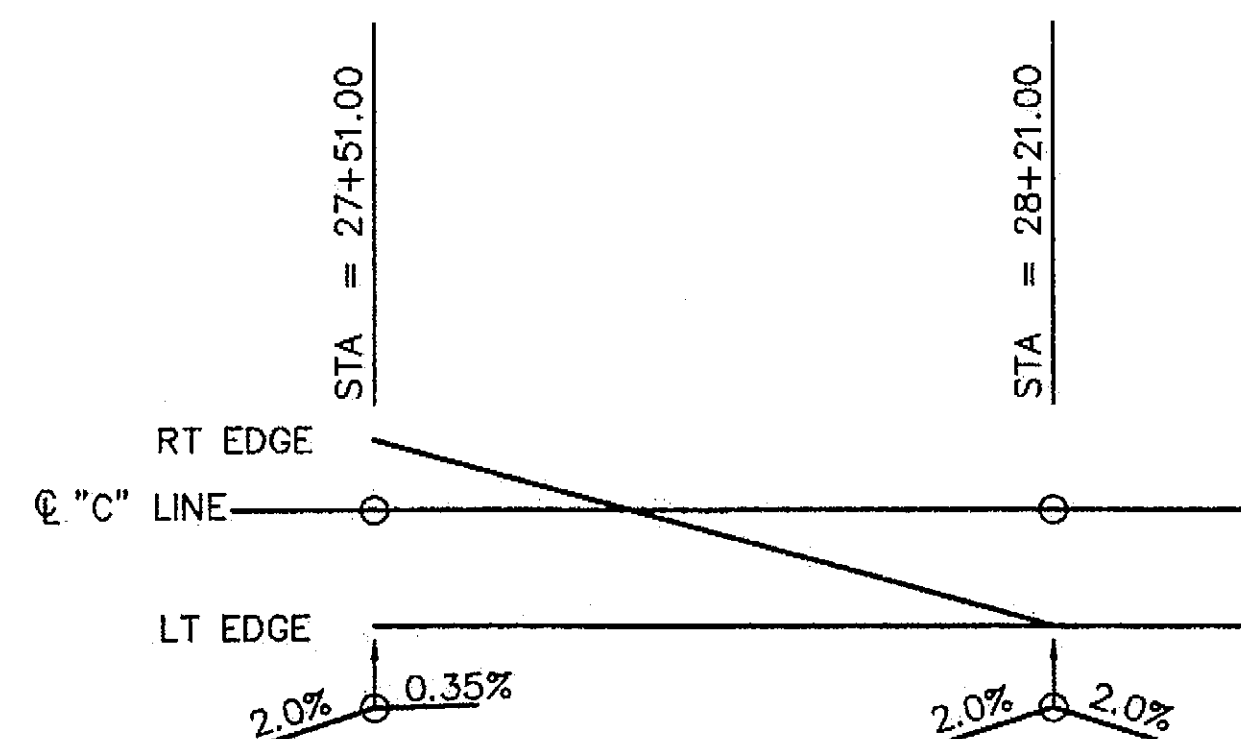
E10

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10TH STREET (DOUGLAS ISLAND SIDE "C" LINE) PROFILE

SEE SHEETS E1 & E2 FOR PLAN



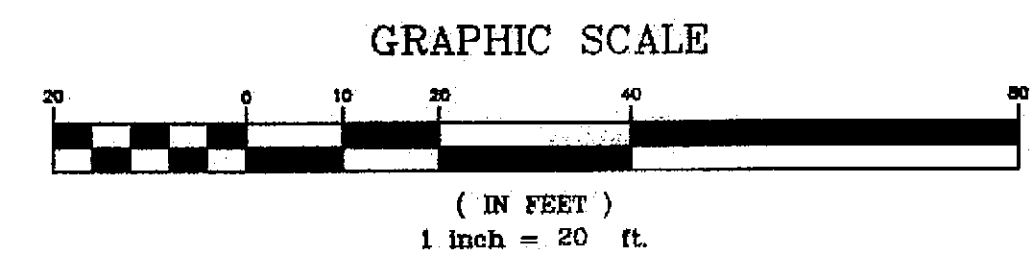
NOTES:

1. PAVEMENT REVOLVED ABOUT "C" LINE
2. CROWN TRANSITION SHALL BE BUILT INTO THE SUBGRADE AND CARRIED THROUGH THE SHOULDERS.

CROWN TRANSITION DETAIL

NOT TO SCALE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 9/26/07



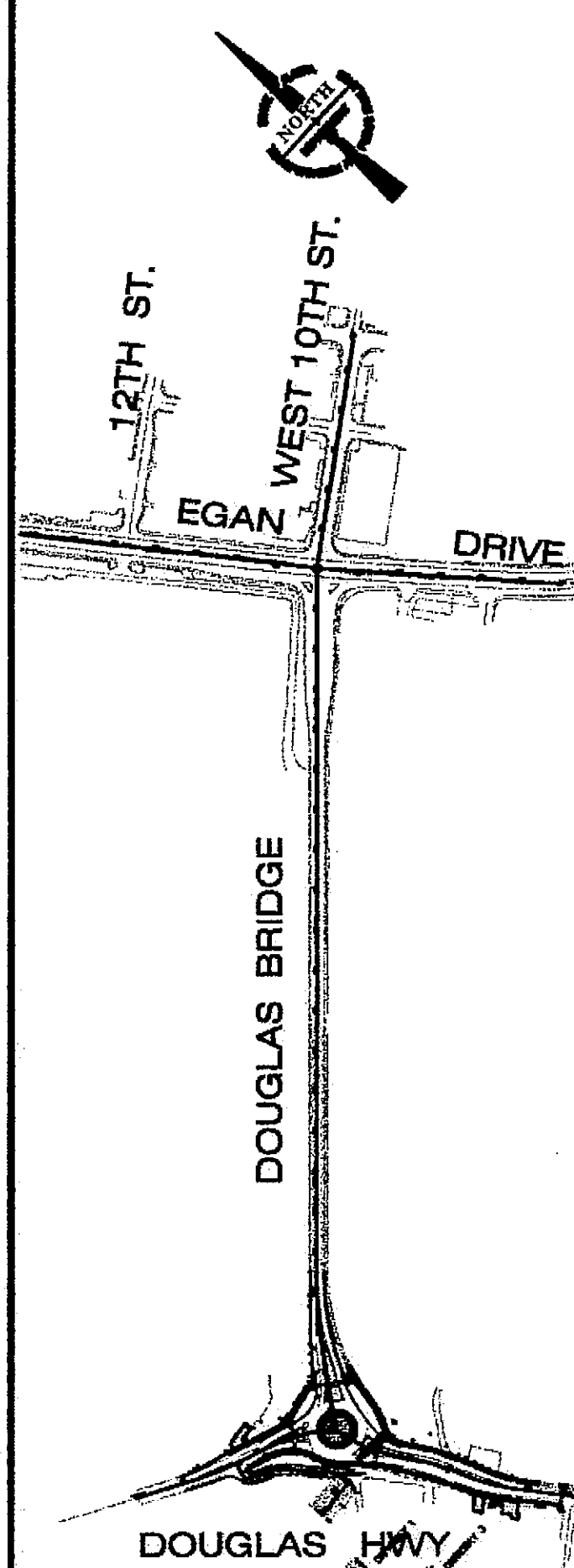
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

ROADWAY PROFILES

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
E11	



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Phone: 425.519.6500

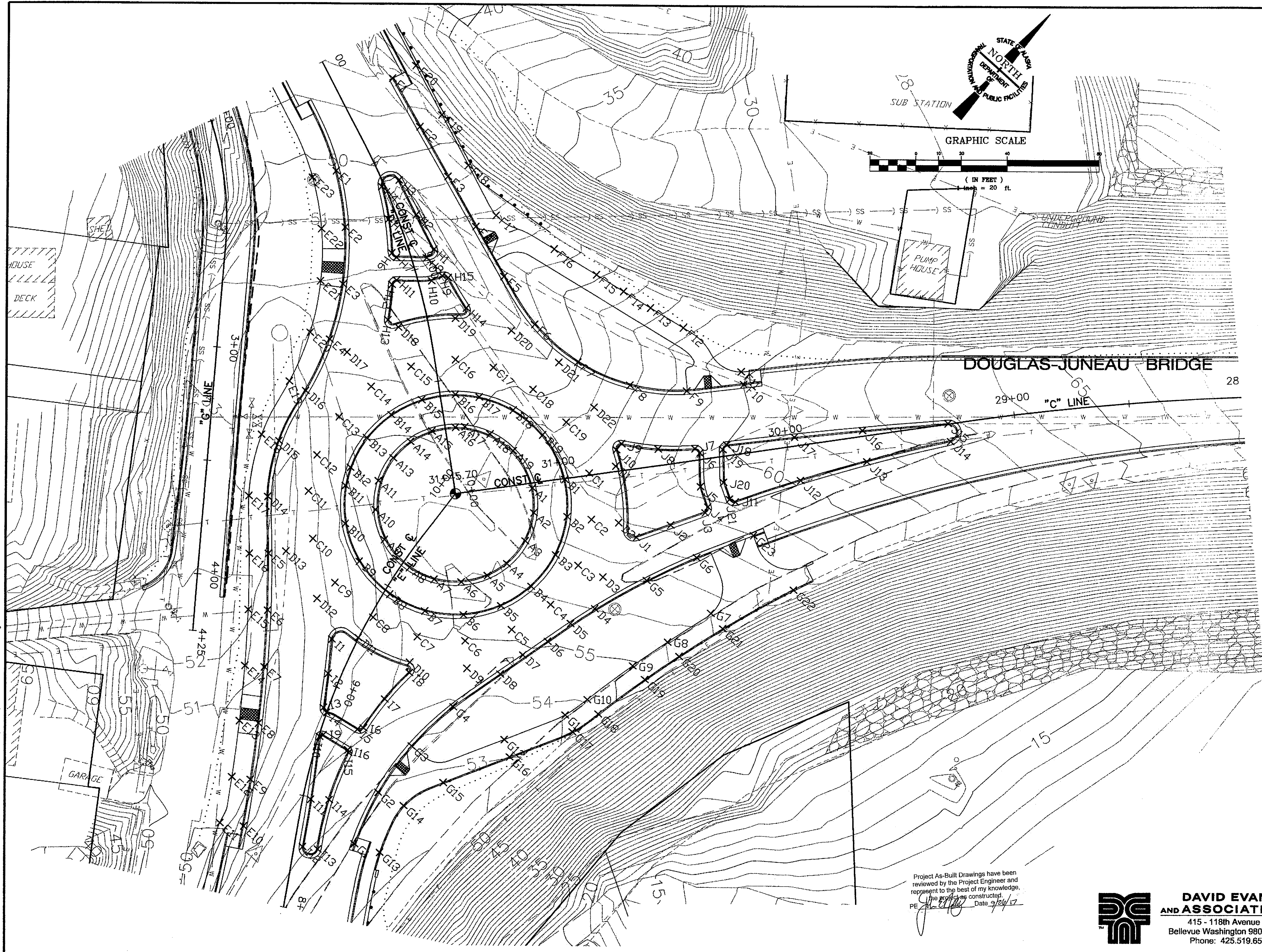


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE J. J. [Signature] Date 7/24/07

Fri, 16/Jul/04 10:29AM OXA		
PLOT:		
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
DESIGNED BY: S.SOISETH		
CHECKED BY: V.SALEMANN		
DRAWN BY: O.AHRENSFELD		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION JUNEAU, ALASKA DOUGLAS ISLAND ROUNDBOUT		
ROADWAY PROFILES		
PROJECT DESIGNATION NUMBER		
NH-F-093-3-2(29)~70168		
STATE	YEAR	
ALASKA	2004	
SHEET NUMBER	TOTAL SHEETS	
E12		

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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 7/24/04



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AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

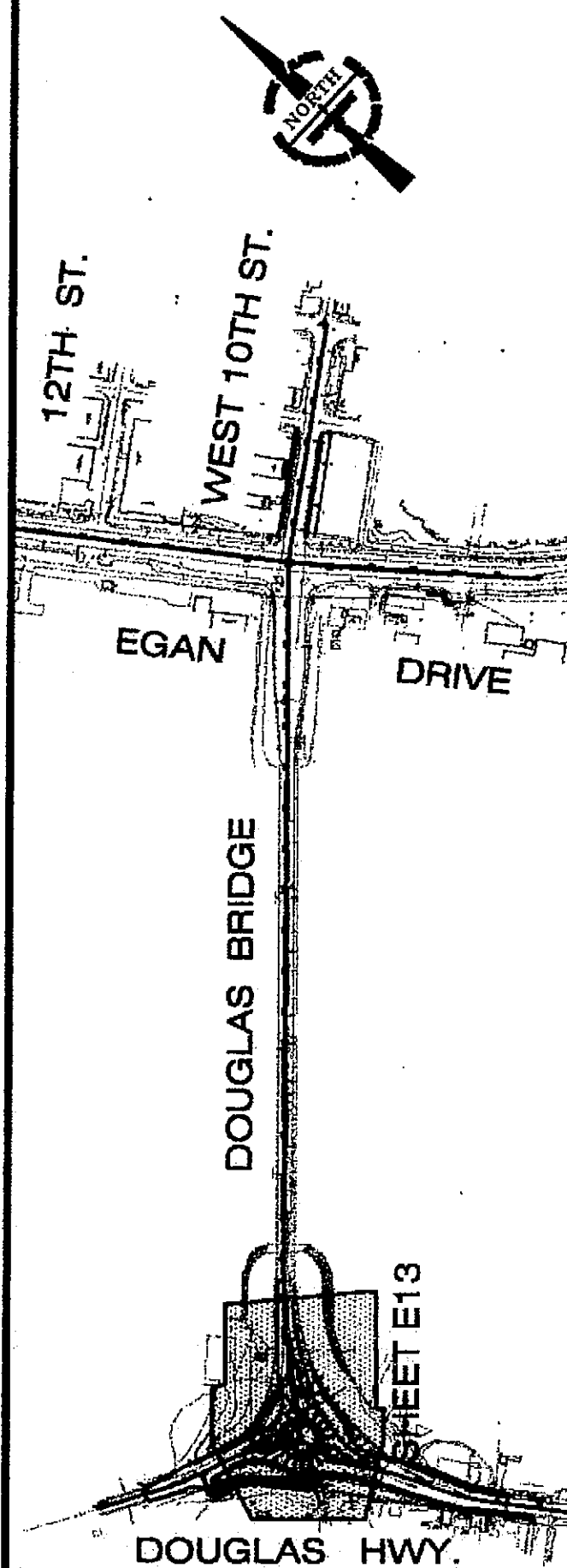
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LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

GRADING PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
E13	

DOUGLAS ISLAND ROUNDABOUT GRADING

POINT NO.	NORTHING	EASTING	FINISHED ELEVATION	DESCRIPTION
"A1"	478430.43	526289.23	58.18	ROUNDABOUT INNER CIRCLE
"A2"	478422.81	526297.06	58.31	ROUNDABOUT INNER CIRCLE
"A3"	478411.20	526302.64	58.18	ROUNDABOUT INNER CIRCLE
"A4"	478398.50	526303.55	57.79	ROUNDABOUT INNER CIRCLE
"A5"	478388.94	526300.91	57.30	ROUNDABOUT INNER CIRCLE
"A6"	478379.13	526294.39	56.80	ROUNDABOUT INNER CIRCLE
"A7"	478372.12	526284.91	56.28	ROUNDABOUT INNER CIRCLE
"A8"	478368.77	526273.59	55.75	ROUNDABOUT INNER CIRCLE
"A9"	478370.55	526257.27	55.21	ROUNDABOUT INNER CIRCLE
"A10"	478377.67	526245.54	54.75	ROUNDABOUT INNER CIRCLE
"A11"	478387.93	526237.87	54.56	ROUNDABOUT INNER CIRCLE
"A12"				POINT NOT USED
"A13"	478399.62	526235.87	54.84	ROUNDABOUT INNER CIRCLE
"A14"	478409.92	526236.55	55.31	ROUNDABOUT INNER CIRCLE
"A15"	478419.54	526240.30	55.80	ROUNDABOUT INNER CIRCLE
"A16"	478427.60	526246.75	56.30	ROUNDABOUT INNER CIRCLE
"A17"	478430.59	526249.59	56.81	ROUNDABOUT INNER CIRCLE
"A18"	478435.56	526259.78	57.32	ROUNDABOUT INNER CIRCLE
"A19"	478436.83	526272.04	57.78	ROUNDABOUT INNER CIRCLE
"B1"	478442.65	526297.03	57.40	ROUNDABOUT TRUCK APRON
"B2"	478431.30	526308.81	57.53	ROUNDABOUT TRUCK APRON
"B3"	478415.49	526316.49	57.40	ROUNDABOUT TRUCK APRON
"B4"	478398.13	526318.05	57.01	ROUNDABOUT TRUCK APRON
"B5"	478383.03	526314.15	56.52	ROUNDABOUT TRUCK APRON
"B6"	478369.09	526304.85	56.02	ROUNDABOUT TRUCK APRON
"B7"	478359.13	526291.34	55.50	ROUNDABOUT TRUCK APRON
"B8"	478354.36	526275.23	54.97	ROUNDABOUT TRUCK APRON
"B9"	478356.14	526255.68	54.43	ROUNDABOUT TRUCK APRON
"B10"	478364.29	526239.94	53.97	ROUNDABOUT TRUCK APRON
"B11"	478376.69	526228.72	53.78	ROUNDABOUT TRUCK APRON
"B12"	478384.03	526224.92	53.80	ROUNDABOUT TRUCK APRON
"B13"	478398.36	526221.43	54.06	ROUNDABOUT TRUCK APRON
"B14"	478413.06	526222.40	54.53	ROUNDABOUT TRUCK APRON
"B15"	478426.79	526227.74	55.02	ROUNDABOUT TRUCK APRON
"B16"	478438.28	526236.95	55.52	ROUNDABOUT TRUCK APRON
"B17"	478444.44	526245.30	56.03	ROUNDABOUT TRUCK APRON
"B18"	478450.06	526259.98	56.54	ROUNDABOUT TRUCK APRON
"B19"	478450.55	526276.72	57.00	ROUNDABOUT TRUCK APRON
"C1"	478451.81	526302.88	57.62	ROUNDABOUT CENTERLINE
"C2"	478437.47	526317.34	57.74	ROUNDABOUT CENTERLINE
"C3"	478418.66	526326.74	57.61	ROUNDABOUT CENTERLINE
"C4"	478397.85	526329.61	57.24	ROUNDABOUT CENTERLINE
"C5"	478378.38	526324.58	56.74	ROUNDABOUT CENTERLINE
"C6"	478361.18	526313.08	56.24	ROUNDABOUT CENTERLINE
"C7"	478348.58	526296.56	55.74	ROUNDABOUT CENTERLINE
"C8"	478341.99	526276.65	55.22	ROUNDABOUT CENTERLINE
"C9"	478342.03	526254.12	54.71	ROUNDABOUT CENTERLINE
"C10"	478349.78	526233.87	54.29	ROUNDABOUT CENTERLINE
"C11"	478363.91	526218.32	54.11	ROUNDABOUT CENTERLINE
"C12"	478378.06	526210.44	54.11	ROUNDABOUT CENTERLINE
"C13"	478397.06	526206.37	54.37	ROUNDABOUT CENTERLINE
"C14"	478416.34	526207.64	54.83	ROUNDABOUT CENTERLINE
"C15"	478434.44	526214.47	55.33	ROUNDABOUT CENTERLINE
"C16"	478449.57	526226.59	55.83	ROUNDABOUT CENTERLINE
"C17"	478458.17	526241.04	56.32	ROUNDABOUT CENTERLINE
"C18"	478462.57	526260.15	56.79	ROUNDABOUT CENTERLINE
"C19"	478461.57	526280.48	57.24	ROUNDABOUT CENTERLINE
"D1"	478461.90	526309.32	57.38	ROUNDABOUT OUTER CIRCLE
"D2"	478444.48	526327.05	57.50	ROUNDABOUT OUTER CIRCLE
"D3"	478422.21	526338.16	57.38	ROUNDABOUT OUTER CIRCLE
"D4"	478409.49	526344.90	57.00	ROUNDABOUT OUTER CIRCLE
"D5"	478397.55	526341.58	57.00	ROUNDABOUT OUTER CIRCLE
"D6"	478385.08	526339.54	56.70	ROUNDABOUT OUTER CIRCLE
"D7"	478373.41	526335.72	56.50	ROUNDABOUT OUTER CIRCLE
"D8"	478360.66	526334.19	56.34	ROUNDABOUT OUTER CIRCLE

POINT NO.	NORTHING	EASTING	FINISHED ELEVATION	DESCRIPTION
"D9"	478352.78	526321.83	56.00	ROUNDABOUT OUTER CIRCLE
"D10"	478338.07	526301.76	55.50	ROUNDABOUT OUTER CIRCLE
"D11"	478331.03	526277.91	55.00	ROUNDABOUT OUTER CIRCLE
"D12"	478331.52	526252.96	54.50	ROUNDABOUT OUTER CIRCLE
"D13"	478337.77	526228.84	54.03	ROUNDABOUT OUTER CIRCLE
"D14"	478350.10	526206.72	53.89	ROUNDABOUT OUTER CIRCLE
"D15"	478371.44	526193.88	53.79	ROUNDABOUT OUTER CIRCLE
"D16"	478395.60	526187.69	53.96	ROUNDABOUT OUTER CIRCLE
"D17"	478420.32	526189.69	54.46	ROUNDABOUT OUTER CIRCLE
"D18"	478443.53	526198.72	54.96	ROUNDABOUT OUTER CIRCLE
"D19"	478462.96	526214.29	55.46	ROUNDABOUT OUTER CIRCLE
"D20"	478475.25	526235.74	55.96	ROUNDABOUT OUTER CIRCLE
"D21"	478478.81	526260.38	56.46	ROUNDABOUT OUTER CIRCLE
"D22"	478474.57	526284.91	56.96	ROUNDABOUT OUTER CIRCLE
"E1"	478475.79	526132.49	51.33	SIDEWALK
"E2"	478460.33	526152.08	52.40	SIDEWALK
"E3"	478441.29	526168.22	53.41	SIDEWALK
"E4"	478419.42	526180.25	53.86	SIDEWALK
"E5"	478331.88	526223.83	54.01	SIDEWALK
"E6"	478313.14	526240.37	54.25	SIDEWALK
"E7"	478293.70	526256.09	54.55	SIDEWALK
"E8"	478273.60	526270.95	54.82	SIDEWALK
"E9"	478252.94	526285.028	55.04	SIDEWALK
"E10"	478235.78	526296.72	55.22	SIDEWALK
"E11"	478229.89	526288.08	55.93	SIDEWALK
"E12"	478248.37	526278.31	55.70	SIDEWALK
"E13"	478268.88	526264.02	55.49	SIDEWALK
"E14"	478288.47	526249.37	55.22	SIDEWALK
"E15"	478307.65	526233.86	54.92	SIDEWALK
"E16"	478326.15	526217.61	54.68	SIDEWALK
"E17"	478344.79	526200.33	54.55	SIDEWALK
"E18"	478368.35	526186.35	54.45	SIDEWALK
"E19"	478393.92	526179.51	54.63	SIDEWALK
"E20"	478415.84	526171.84	54.54	SIDEWALK
"E21"	478435.56	526159.90	54.11	SIDEWALK
"E22"	478452.73	526144.75	53.11	SIDEWALK
"E23"	478466.60	526126.63	52.05	SIDEWALK
"F1"	478522.28	526123.18	50.05	SIDEWALK
"F2"	478514.55	526146.24	52.01	SIDEWALK
"F3"	478506.60	526169.95	52.88	SIDEWALK
"F4"	478498.66	526193.65	54.16	SIDEWALK
"F5"	478490.71	526217.36	55.17	SIDEWALK
"F6"	478484.03	526241.40	56.41	SIDEWALK
"F7"	478484.37	526266.30	56.51	SIDEWALK
"F8"	478492.36	526289.88	57.20	SIDEWALK
"F9"	478507.20	526309.87	58.08	SIDEWALK
"F10"	478526.03	526326.31	59.04	SIDEWALK
"F11"	478531.62	526319.89	59.71	SIDEWALK
"F12"	478526.69	526290.00	59.13	SIDEWALK
"F13"	478523.51	526273.56	58.41	SIDEWALK
"F14"	478520.90	526260.02	57.75	SIDEWALK
"F15"	478518.25	526246.31	57.10	SIDEWALK
"F16"	478514.17	526225.22	56.17	SIDEWALK
"F17"	478508.14	526196.83	54.86	SIDEWALK
"F18"	478516.18	526173.16	53.59	SIDEWALK
"F19"	478524.80	526149.68	52.23	SIDEWALK
"F20"	478533.19	526126.84	50.78	SIDEWALK
"G1"	478262.77	526338.09	55.12	SIDEWALK
"G2"	478286.52	526330.29	55.51	SIDEWALK
"G3"	478311.30	526327.27	56.04	SIDEWALK
"G4"	478336.20	526329.00	56.11	SIDEWALK
"G5"	478343.37	526352.20	56.97	SIDEWALK
"G6"	478456.12	526362.56	57.69	SIDEWALK
"G7"	478441.77	526385.86	56.96	SIDEWALK
"G8"	478419.70	526380.93	55.93	SIDEWALK

POINT NO.	NORTHING	EASTING	FINISHED ELEVATION	DESCRIPTION
"G9"	478401.54	526377.31	55.05	SIDEWALK
"G10"	478377.47	526372.68	53.89	SIDEWALK
"G11"	478366.03	526367.59	54.01	SIDEWALK
"G12"	478340.45	526354.96	54.55	SIDEWALK
"G13"	478267.38	526348.66	55.40	SIDEWALK
"G14"	478289.00	526341.54	55.76	SIDEWALK
"G15"	478308.595	526348.21	55.24	SIDEWALK
"G16"	478336.31	526361.84	54.71	SIDEWALK
"G17"	478362.66	526374.79	54.17	SIDEWALK
"G18"	478375.91	526381.34	54.05	SIDEWALK
"G19"	478400.63	526385.30	55.21	SIDEWALK
"G20"	478418.38	526388.84	56.09	SIDEWALK
"G21"	478440.91	526394.37	57.13	SIDEWALK
"G22"	478474.34	526403.94	58.72	SIDEWALK
"G23"	478479.95	526374.33	58.73	SIDEWALK
"H1"	478479.01	526186.96	54.05	ISLAND
"H2"	478485.13	526171.16	53.25	ISLAND
"H3"	478491.25	526155.36	52.43	ISLAND
"H4"	478484.16	526151.75	52.35	ISLAND
"H5"	478475.59	526163.59	52.96	ISLAND
"H6"	478465.63	526174.66	53.54	ISLAND
"H7"	478465.55	526177.39	53.68	ISLAND
"H8"	478474.18	526187.18	54.10	ISLAND
"H9"	478472.92	526197.47	54.55	ISLAND
"H10"	478468.22	526195.55	54.53	ISLAND
"H11"	478458.26	526184.25	54.10	ISLAND
"H12"	478455.49	526184.02	54.11	ISLAND
"H13"	478442.83	526193.24	54.68	ISLAND
"H14"	478469.50	526214.73	55.38	ISLAND
"H15"	478474.04	526199.99	54.64	ISLAND
"I1"	478322.74	526269.87	54.85	ISLAND
"I2"	478310.44	526278.82	55.04	ISLAND
"I3"	478297.95	526287.51	55.22	ISLAND
"I4"	478297.25	526289.98	55.27	ISLAND
"I5"	478300.83	526304.94	55.40	ISLAND
"I6"	478303.14	526306.52	55.42	ISLAND
"I7"	478318.79	526304.74	55.50	ISLAND
"I8"	478334.55	526304.78	55.57	ISLAND
"I9"	478288.96	526295.55	55.38	ISLAND
"I10"	478287.35	526294.83	55.37	ISLAND
"I11"	478264.29	526310.61	55.53	ISLAND
"I12"	478246.46	526322.02	55.65	ISLAND
"I13"	478250.11	526327.71	55.52	ISLAND
"I14"	478269.63	526316.74	55.50	ISLAND
"I15"	478290.68	526309.13	55.54	ISLAND
"I16"	478291.40	526307.99	55.55	ISLAND
"J1"	478444.95	526337.01	57.46	ISLAND
"J2"	478459.04	526344.47	57.80	ISLAND
"J3"	478473.13	526351.92	58.27	ISLAND
"J4"	478475.84	526351.09	58.37	ISLAND
"J5"	478480.28	526342.69	58.48	ISLAND
"J6"	478490.93	526332.53	58.72	ISLAND
"J7"	478490.91	526329.61	58.61	ISLAND
"J8"	478479.99	526317.86	58.01	ISLAND
"J9"	478470.91	526304.64	57.40	ISLAND
"J10"	478467.42	526304.70	57.35	ISLAND
"J11"	478485.48	526358.48	58.83	ISLAND
"J12"	478511.59	526373.25	60.03	ISLAND
"J13"	478537.13	526389.01	61.26	ISLAND
"J14"	478568.31	526410.14	62.69	ISLAND
"J15"	478573.38	526403.98	62.85	ISLAND
"J16"	478545.89	526378.39	61.39	ISLAND
"J17"	478523.81	526358.45	60.26	ISLAND
"J18"	478501.45	526338.81	59.13	ISLAND
"J19"	478498.76	526338.87	59.10	ISLAND
"J20"	478488.36	526348.81	58.87	ISLAND
"J21"	478484.66	526355.79	58.77	ISLAND

STANDARD CURB & GUTTER FINISHED ELEVATION

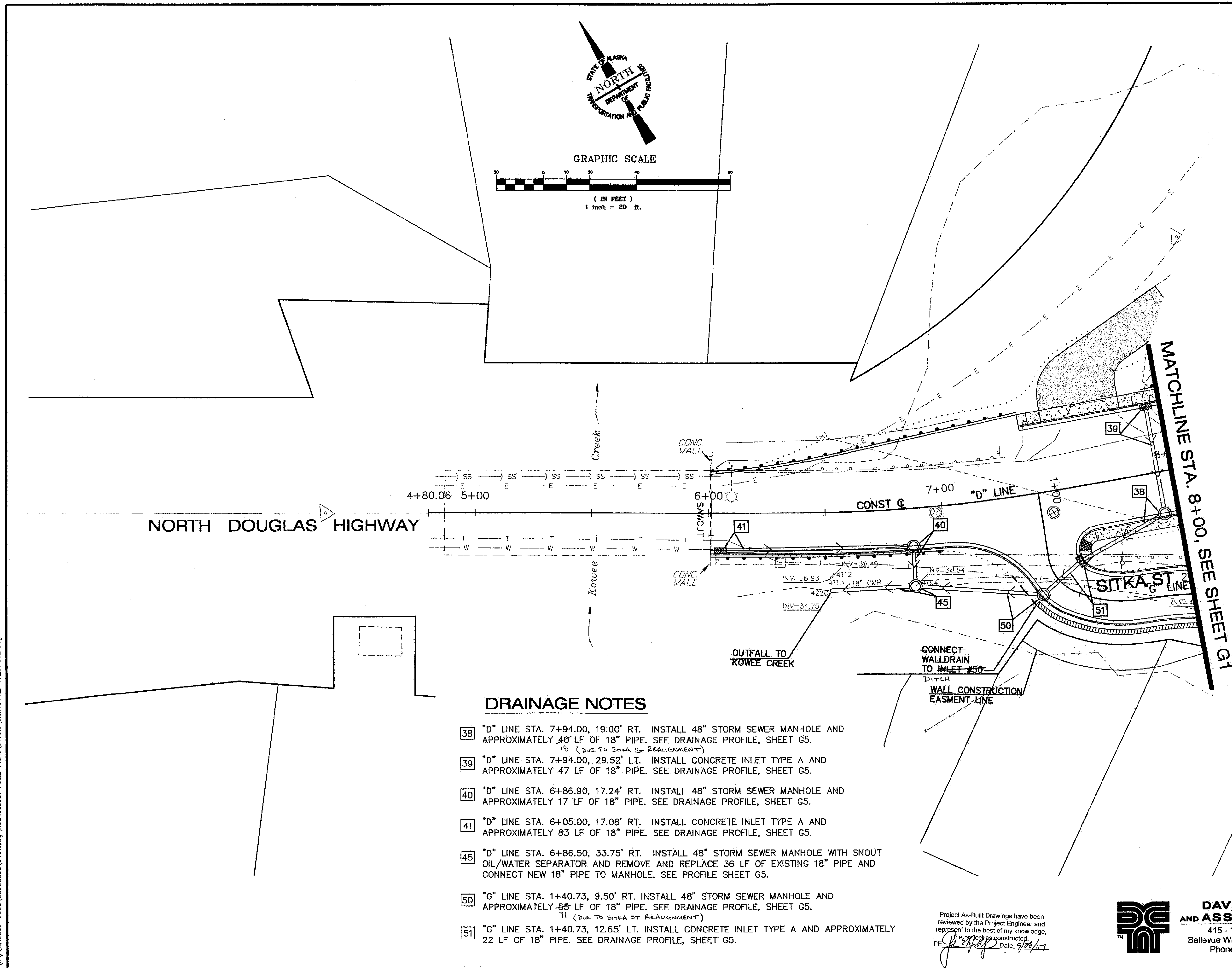
SEE SHEET E13 FOR GRADING POINTS

POINT NO.	NORTHING	EASTING	FINISHED ELEV.
D4	478409.38	526345.32	56.92
D5	478397.39	526342.27	56.90
D6	478385.08	526339.55	56.65
D7	478373.15	526336.93	56.36
D8	478360.66	526334.19	56.21

EXPRESSWAY CURB & GUTTER FINISHED ELEVATION

SEE SHEET E13 FOR GRADING POINT

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DRAINAGE NOTES

- [38] "D" LINE STA. 7+94.00, 19.00' RT. INSTALL 48" STORM SEWER MANHOLE AND APPROXIMATELY 40' LF OF 18" PIPE. SEE DRAINAGE PROFILE, SHEET G5.
18' (DUE TO SITKA ST REALIGNMENT)
- [39] "D" LINE STA. 7+94.00, 29.52' LT. INSTALL CONCRETE INLET TYPE A AND APPROXIMATELY 47' LF OF 18" PIPE. SEE DRAINAGE PROFILE, SHEET G5.
- [40] "D" LINE STA. 6+86.90, 17.24' RT. INSTALL 48" STORM SEWER MANHOLE AND APPROXIMATELY 17' LF OF 18" PIPE. SEE DRAINAGE PROFILE, SHEET G5.
- [41] "D" LINE STA. 6+05.00, 17.08' RT. INSTALL CONCRETE INLET TYPE A AND APPROXIMATELY 83' LF OF 18" PIPE. SEE DRAINAGE PROFILE, SHEET G5.
- [45] "D" LINE STA. 6+86.50, 33.75' RT. INSTALL 48" STORM SEWER MANHOLE WITH SNOOT OIL/WATER SEPARATOR AND REMOVE AND REPLACE 36' LF OF EXISTING 18" PIPE AND CONNECT NEW 18" PIPE TO MANHOLE. SEE PROFILE SHEET G5.
- [50] "G" LINE STA. 1+40.73, 9.50' RT. INSTALL 48" STORM SEWER MANHOLE AND APPROXIMATELY 55' LF OF 18" PIPE. SEE DRAINAGE PROFILE, SHEET G5.
71' (DUE TO SITKA ST REALIGNMENT)
- [51] "G" LINE STA. 1+40.73, 12.65' LT. INSTALL CONCRETE INLET TYPE A AND APPROXIMATELY 22' LF OF 18" PIPE. SEE DRAINAGE PROFILE, SHEET G5.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 9/26/07



DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

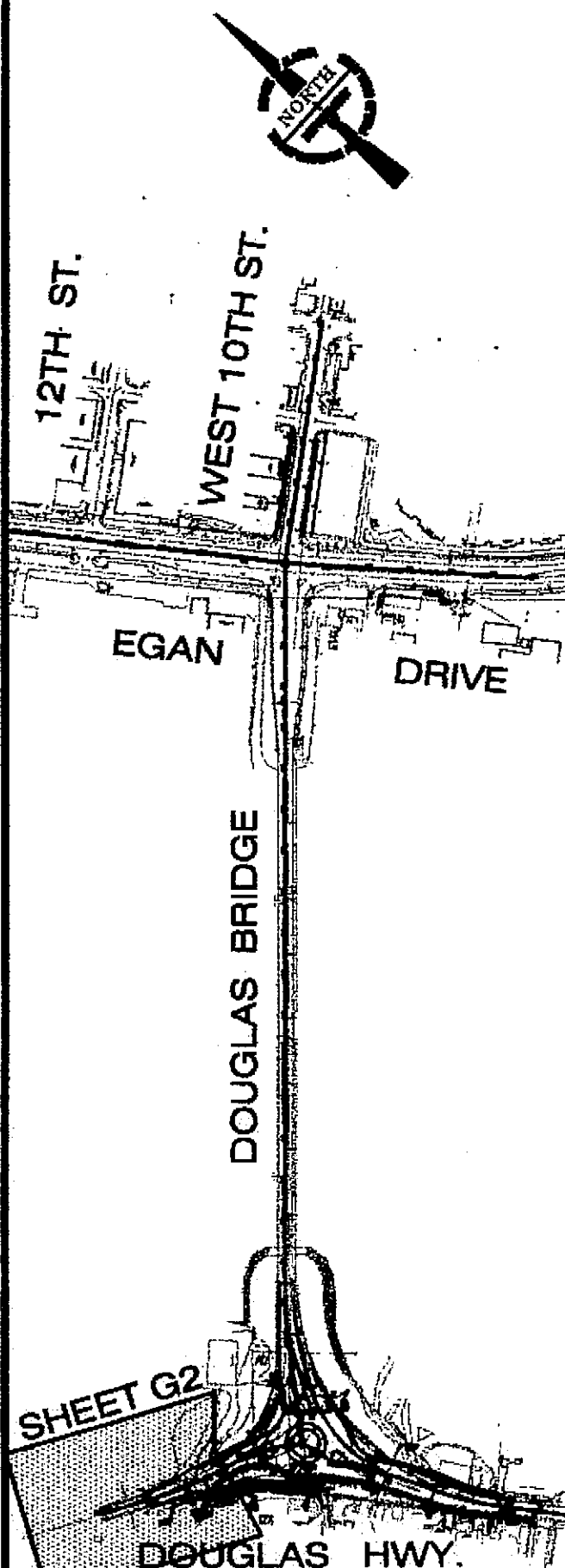
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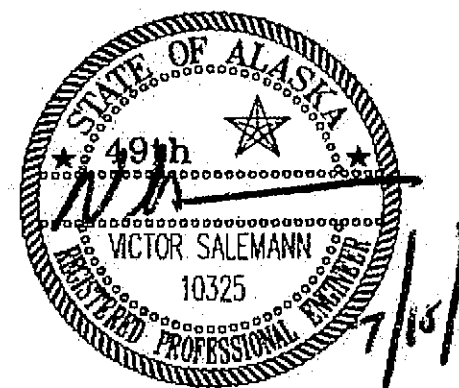
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

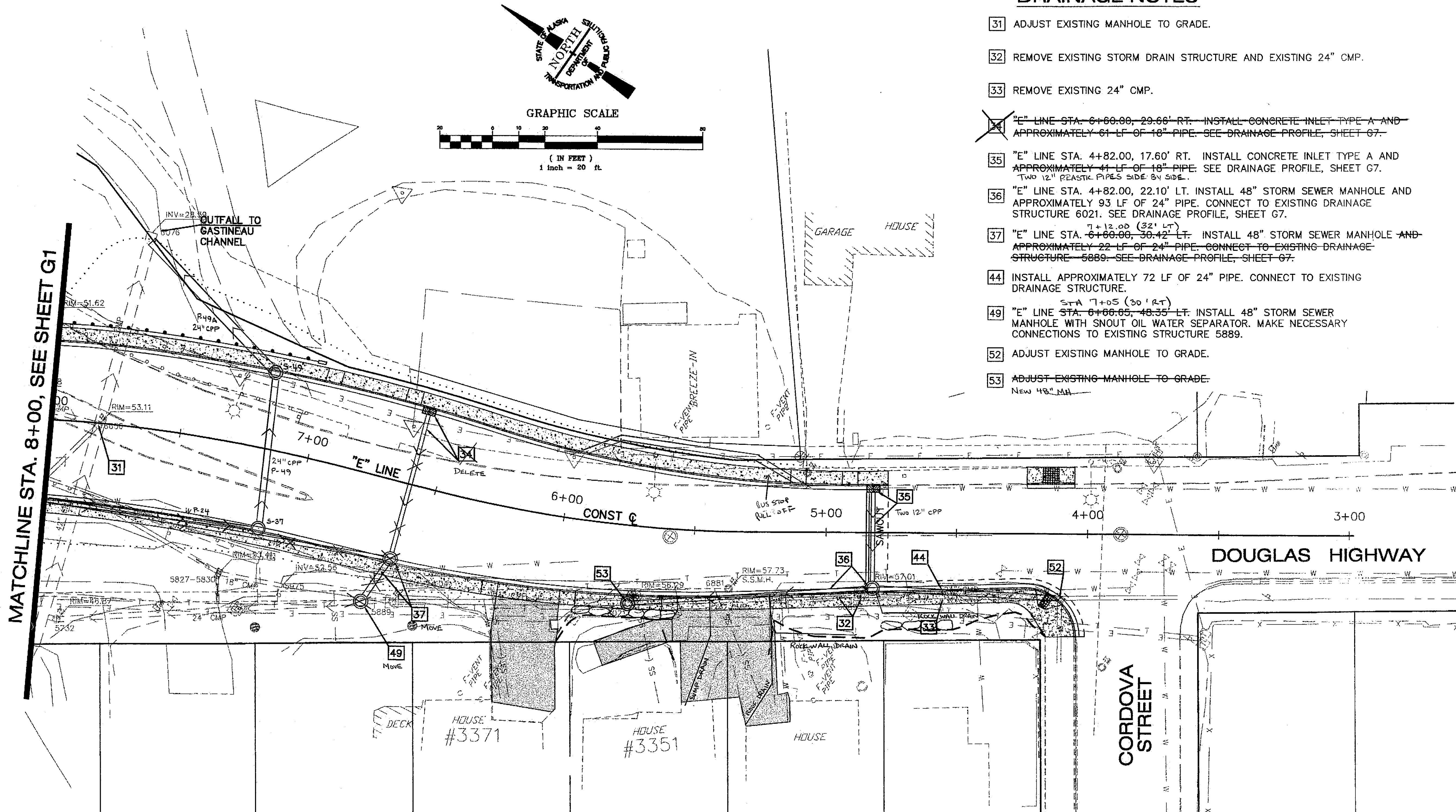
DRAINAGE PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
G2	

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DRAINAGE NOTES

- 31 ADJUST EXISTING MANHOLE TO GRADE.
- 32 REMOVE EXISTING STORM DRAIN STRUCTURE AND EXISTING 24" CMP.
- 33 REMOVE EXISTING 24" CMP.
- ~~34~~ "E" LINE STA. 6+60.00, 29.66' RT. INSTALL CONCRETE INLET TYPE A AND APPROXIMATELY 61 LF OF 18" PIPE. SEE DRAINAGE PROFILE, SHEET G7.
- 35 "E" LINE STA. 4+82.00, 17.60' RT. INSTALL CONCRETE INLET TYPE A AND APPROXIMATELY 41 LF OF 18" PIPE. SEE DRAINAGE PROFILE, SHEET G7. TWO 12" PLASTIC PIPES SIDE BY SIDE.
- 36 "E" LINE STA. 4+82.00, 22.10' LT. INSTALL 48" STORM SEWER MANHOLE AND APPROXIMATELY 93 LF OF 24" PIPE. CONNECT TO EXISTING DRAINAGE STRUCTURE 6021. SEE DRAINAGE PROFILE, SHEET G7.
- 37 "E" LINE STA. 7+12.00 (32' LT) 6+60.00, 30.42' LT. INSTALL 48" STORM SEWER MANHOLE AND APPROXIMATELY 22 LF OF 24" PIPE. CONNECT TO EXISTING DRAINAGE STRUCTURE 5889. SEE DRAINAGE PROFILE, SHEET G7.
- 44 INSTALL APPROXIMATELY 72 LF OF 24" PIPE. CONNECT TO EXISTING DRAINAGE STRUCTURE.
- 49 "E" LINE STA. 7+05 (30' RT) 6+60.65, 48.35' LT. INSTALL 48" STORM SEWER MANHOLE WITH SNOUT OIL WATER SEPARATOR. MAKE NECESSARY CONNECTIONS TO EXISTING STRUCTURE 5889.
- 52 ADJUST EXISTING MANHOLE TO GRADE.
- 53 ADJUST EXISTING MANHOLE TO GRADE. New 48" MH.

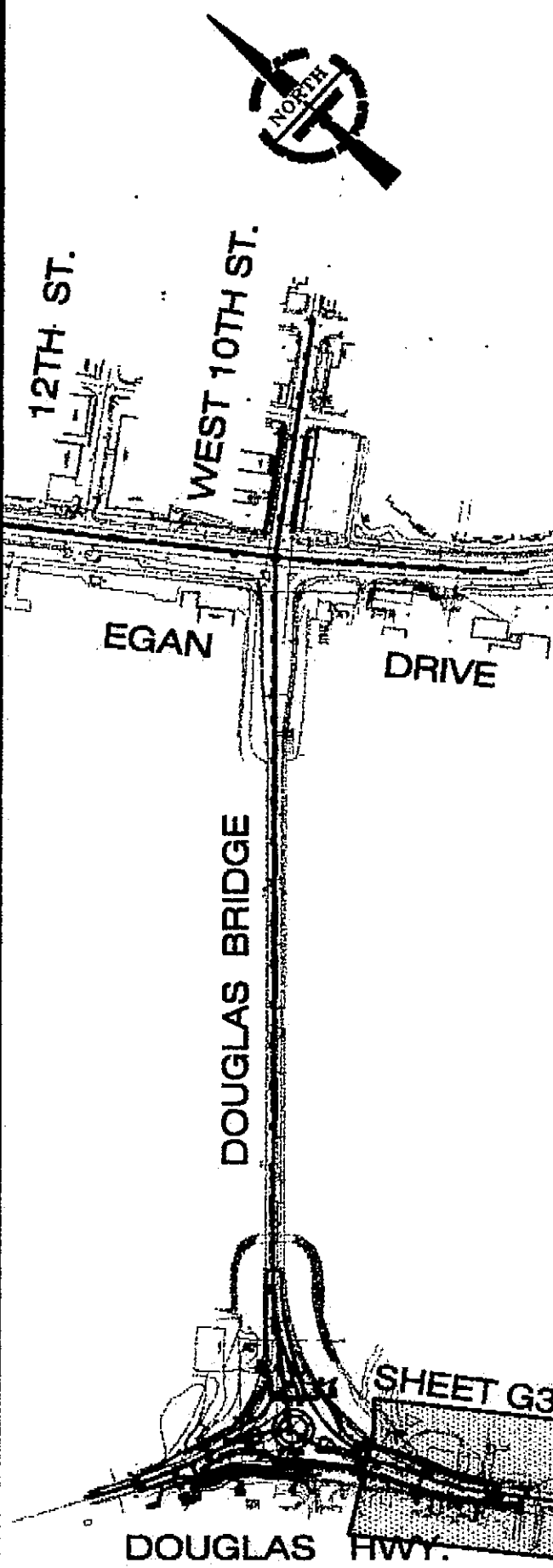
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

DRAINAGE PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
G3	

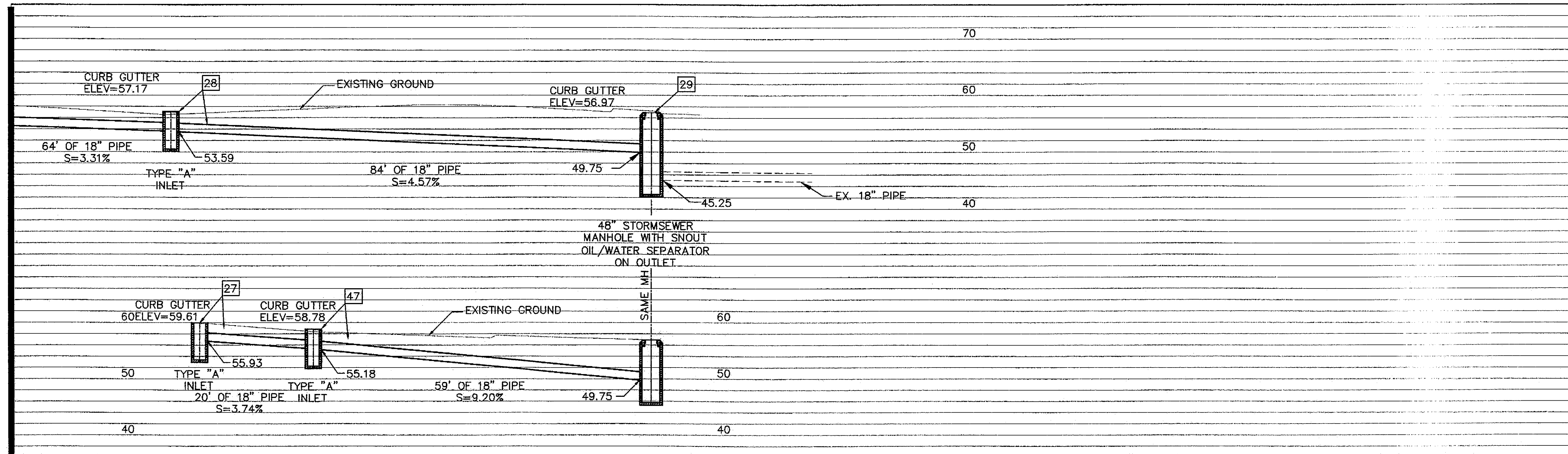
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 7/26/17



DAVID EVANS
AND ASSOCIATES INC.
415 - 118th Avenue SE
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Phone: 425.519.6500

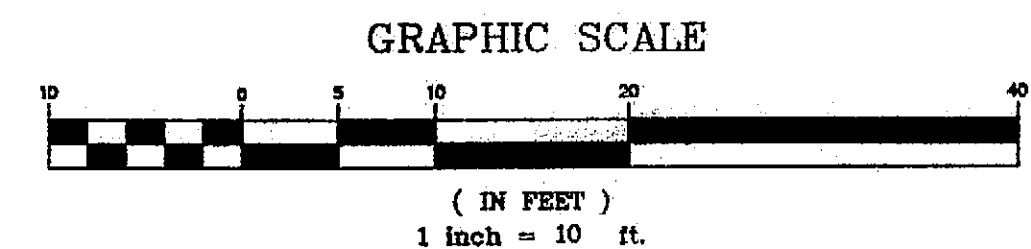
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MATCHLINE
SEE ABOVE RIGHT



DRAINAGE PROFILE "C" LINE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 7/24/17

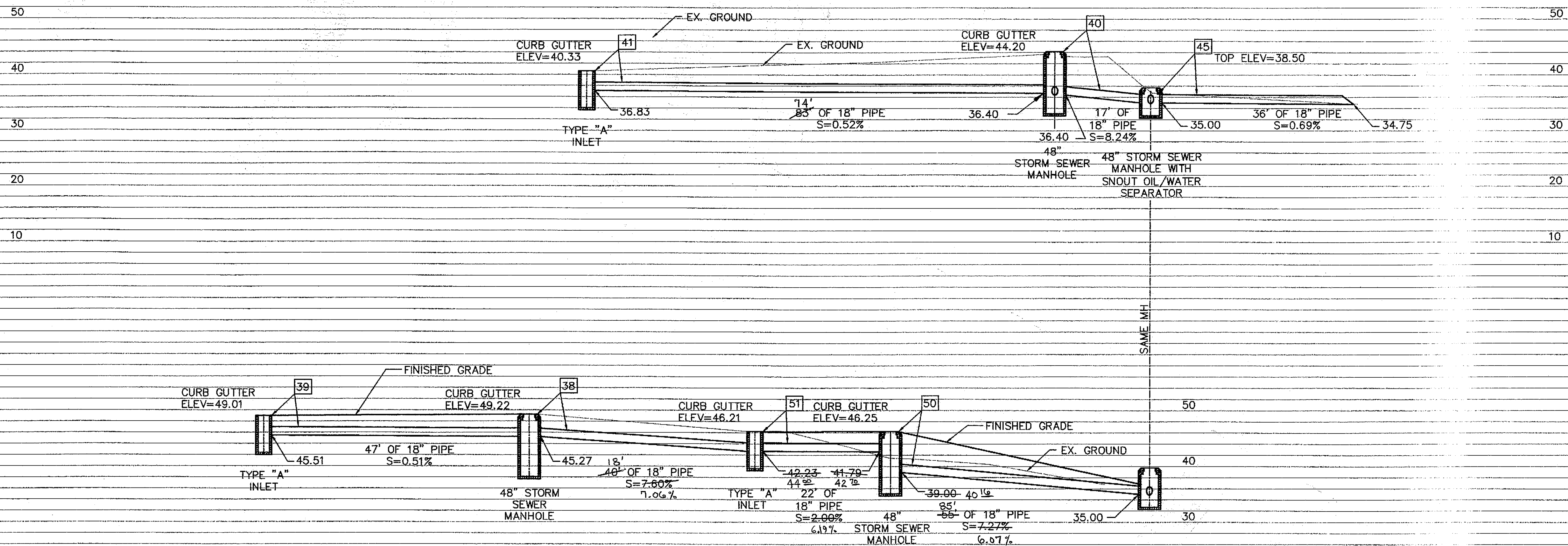


**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

MATCHLINE
SEE BELOW LEFT

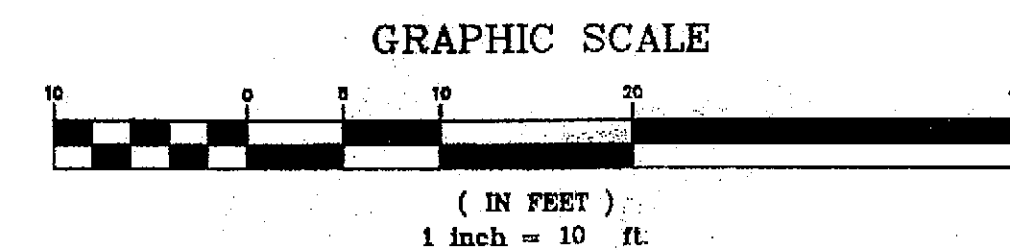
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
DESIGNED BY: S.SOISETH		
CHECKED BY: V.SALEMANN		
DRAWN BY: O.AHRENSFELD		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION JUNEAU, ALASKA DOUGLAS ISLAND ROUNDAABOUT		
DRAINAGE PROFILES		
PROJECT DESIGNATION NUMBER		
NH-F-093-3-2(29)-70168		
STATE	YEAR	
ALASKA	2004	
SHEET NUMBER	TOTAL SHEETS	
G4		

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DRAINAGE PROFILE "D & G" LINE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date 7/24/07



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AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

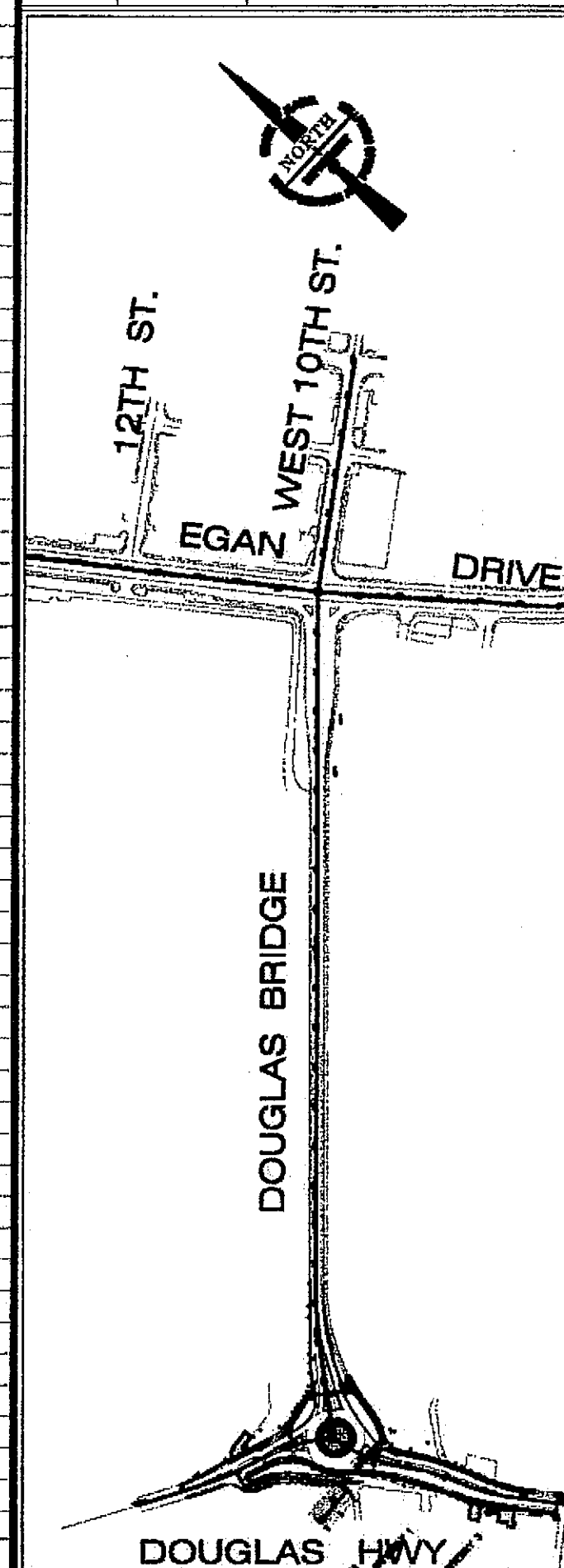
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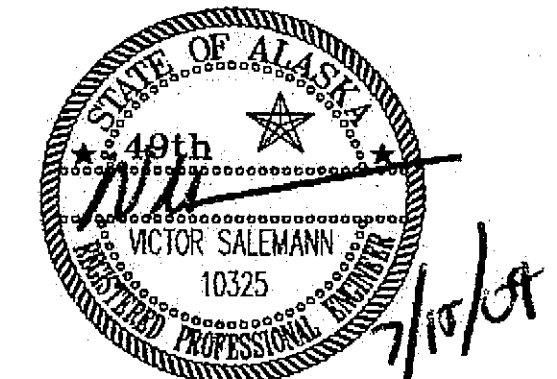
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

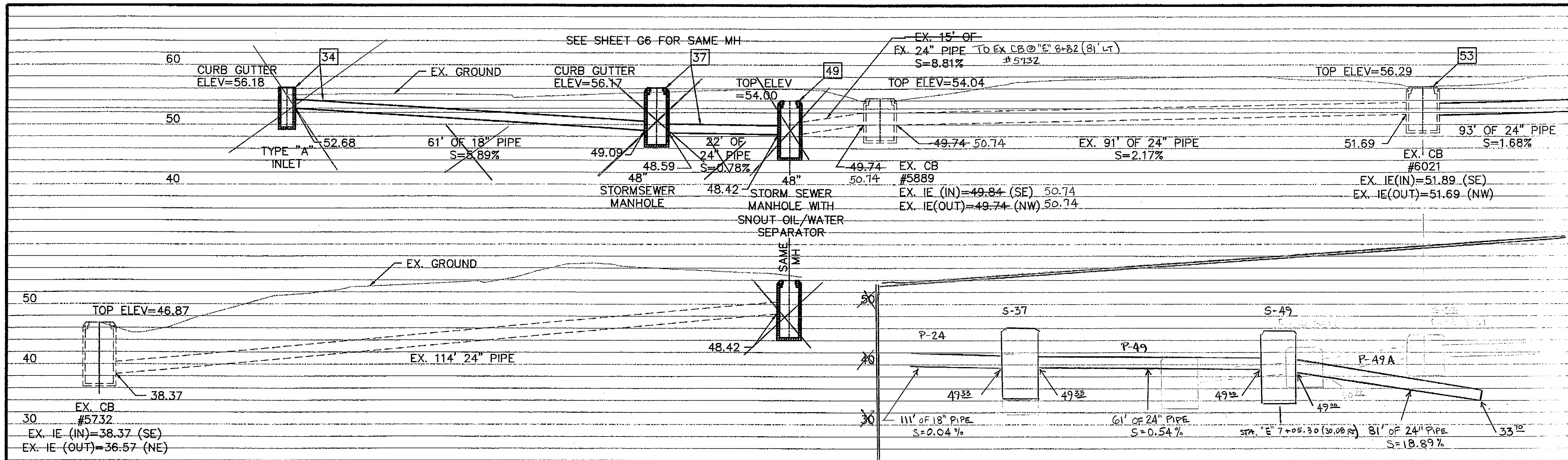
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PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

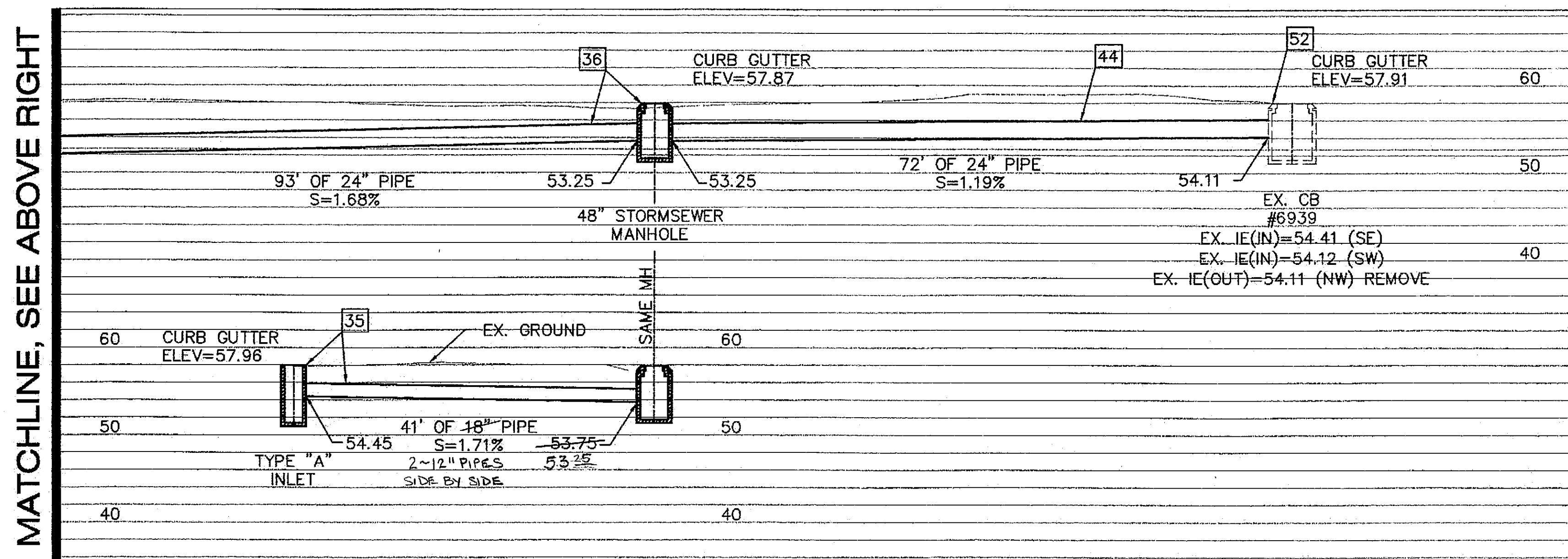
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
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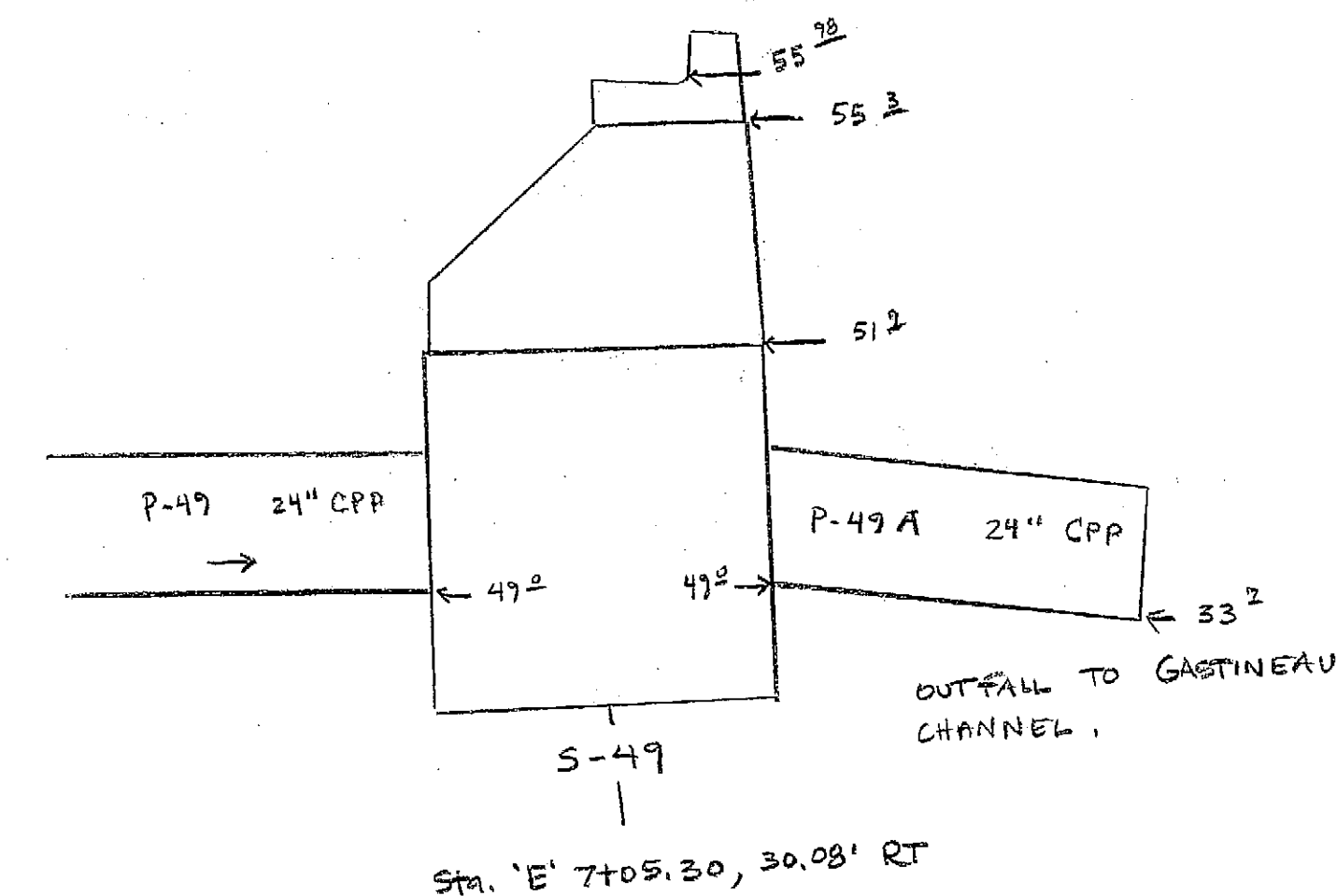


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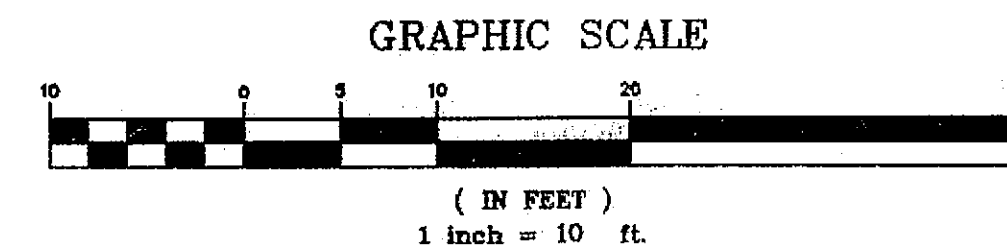
DRAINAGE PROFILE "E & F" LINE



DRAINAGE PROFILE "E & F" LINE



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 9/26/07



DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

Fri, 16/Jul/04 10:32AM OXA
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
LAYOUT TAB: Layout1

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

DESIGNED BY: S.SOISETH

CHECKED BY: V.SALEMANN
DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

DRAINAGE PROFILES

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004

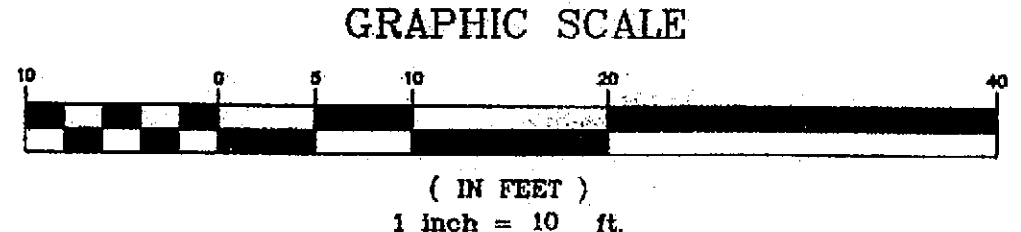
SHEET NUMBER	TOTAL SHEETS
G7	

DRAINAGE STRUCTURE AND PIPE SUMMARY

STRUCTURE NO.	PIPE NO.	STATION	OFFSET (ft)	TOP OF GRATE/LID (ft)	STRUCTURE INVERT (ft)	DIAMETER (inches)	LENGTH (ft)	FROM STRUCTURE	INVERT (ft)	TO STRUCTURE	INVERT (ft)	REMARKS
16	16	"C" 30+04.50	34.70 RT	59.15	54.21	18	64	55.71	55.71	28	53.59	TYPE "A" INLET; STD. C.I.
19	19	"D" 9+60.00	67.50 RT	53.74	48.73	18	13	50.23	50.23	23	50.10	TYPE "A" INLET; STD. C.I.
20	20	"D" 9+76.18	40.57 RT	53.75	48.90	18	20	50.40	50.40	21	50.28	TYPE "A" INLET; MOUNTABLE C.I.
21	21	"D" 9+95.51	48.80 RT	53.63	48.78 48.92	18	35	50.28	50.28	23	50.10	48" STORM SEWER MANHOLE; MOUNTABLE C.I.; GRATE G4
22	22	"E" 9+56.11	23.91 LT	54.05	49.20	18	20	50.70	50.70	21	50.28	TYPE "A" INLET; MOUNTABLE C.I.
23	23	"E" 9+69.70	73.35 LT	53.63	48.60 47.97	18	18	50.10	50.10	30	50.00	48" STORM SEWER MANHOLE; MOUNTABLE C.I.; GRATE G4
24	24	"E" 8+20.50	29.15 LT	55.13	47.87 47.78	18	62	49.37	49.37	37 49.33 →	48.59	48" STORM SEWER MANHOLE; MOUNTABLE C.I.
25	25	"E" 8+27.30	30.77 RT	55.01	49.76 49.35	18	62	51.26	51.26	24	49.37	48" STORM SEWER MANHOLE; MOUNTABLE C.I.
26	26	"C" 29+85.00	34.00 RT	59.12	54.96	18	20	56.46	56.46	16	55.71	TYPE "A" INLET; STD. C.I.
27	27	"C" 29+91.00	35.00 LT	59.46	54.43	18	20	55.93	55.93	47	55.18	TYPE "A" INLET; STD. C.I.
28	28	"C" 30+69.00	37.95 RT	57.02	52.09 51.34	18	84	53.59	53.59	29	49.75	48" STORM SEWER MANHOLE; MOUNTABLE C.I.
29	29	"C" 30+69.00	48.83 LT	56.82	43.75 43.66							48" SS MH WITH SNOOT OIL/WATER SEPARATOR; MOUNTABLE C.I.
30	30	"E" 9+59.00	67.84 RT	53.71	48.50 48.04	18	157	50.00	50.00	24	49.37	48" STORM SEWER MANHOLE; MOUNTABLE C.I.
34	34	"E" 6+60.00	29.66 RT	56.09	51.16	18	61	52.68	52.68	37	49.09	TYPE "A" INLET; STD. C.I. DELETED
35	35	"E" 4+82.00	17.60 RT	57.81	52.95	20 1/2" 18"	41	54.45	54.45	36 53.25 ←	50.75	TYPE "A" INLET; STD. C.I.
36	36	"E" 4+82.00	22.10 LT	57.72	51.75 51.66	24	93	53.25	53.25	53	51.69	48" STORM SEWER MANHOLE; MOUNTABLE C.I.
37	37	"E" 6+60.00	30.42 LT	56.02	47.09 47.00	24	22 61'	48.59 49.33	48.59 ← 49.33	49 49.00 ←	48.42	48" STORM SEWER MANHOLE; MOUNTABLE C.I. P-37 DELETED
38	38	"D" 7+94.00	19.00 RT	49.07	43.77 43.43	18	40 18'	45.27	45.27	51 44.00 →	42.23	48" STORM SEWER MANHOLE; MOUNTABLE C.I.
39	39	"D" 7+94.00	29.52 LT	48.86	44.01	18	47	45.51	45.51	38	45.27	TYPE "A" INLET; STD. C.I.
40	40	"D" 6+86.90 77.9	17.24 RT	44.05	34.90 34.81	18	17	36.40	36.40	45	35.00	48" STORM SEWER MANHOLE; MOUNTABLE C.I.
41	41	"D" 6+05.00	17.08 RT	40.18	35.33	18	83 74'	36.83	36.83	40	36.40	TYPE "A" INLET; STD. C.I.
	44	"E" 4+10.00	24.00 LT			24	72	54.11	54.11	36	53.25	
45	45	"D" 6+86.50	33.75 RT	38.50	33.50 32.82	18	36	35.00	35.00	OUTFALL	34.75	48" SS MH WITH SNOOT OIL/WATER SEPARATOR; SOLID MH LID
47	47	"C" 30+11.76	39.19 LT	58.63	53.68	18	59	55.18	55.18	29	49.75	TYPE "A" INLET; STD. C.I.
49	49	"E" 6+86.66	48.35 LT	54.00	46.92 46.83	24"	81'	49.00	49.00	OUTFALL	33.70	48" SS MH WITH SNOOT OIL/WATER SEPARATOR; SOLID MH LID
50	50	"G" 1+40.73	9.50 RT	46.10 45.91	37.50 37.16	18	55 85'	39.00 40.16	39.00 ← 40.16	45	35.00	48" STORM SEWER MANHOLE; MOUNTABLE C.I.
51	51	"G" 1+40.73	12.65 LT	46.06 45.87	40.73	18	22	42.23	42.23	50	41.79	TYPE "A" INLET; STD. C.I. 48" MH
		1+46.51	12.10 LT					44.00	44.00		42.70	

- NOTES:
- 1 STATION AND OFFSET ARE MEASURED TO CENTER OF STRUCTURE.
 - 2 STRUCTURE INVERT INCLUDES 18" SUMP.
 - 3 TOP OF GRATE IS 1-1/2" BELOW CURB GUTTER 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: *[Signature]* Date: 7/24/17

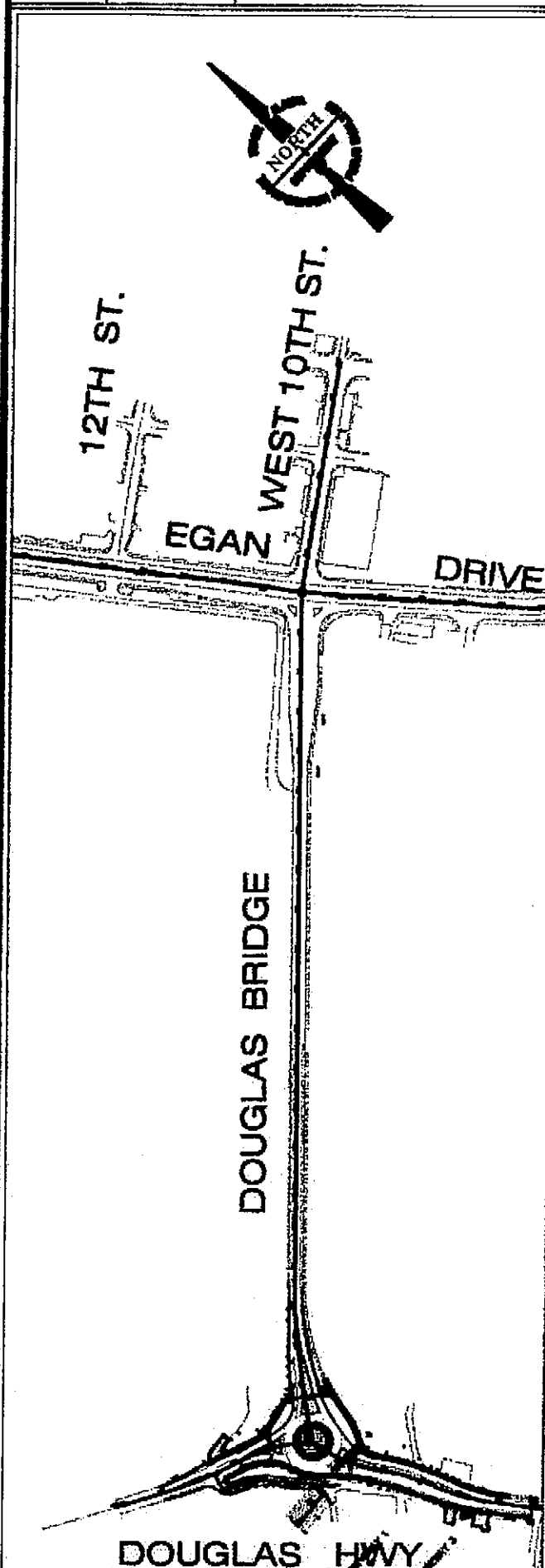


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Phone: 425.519.6500

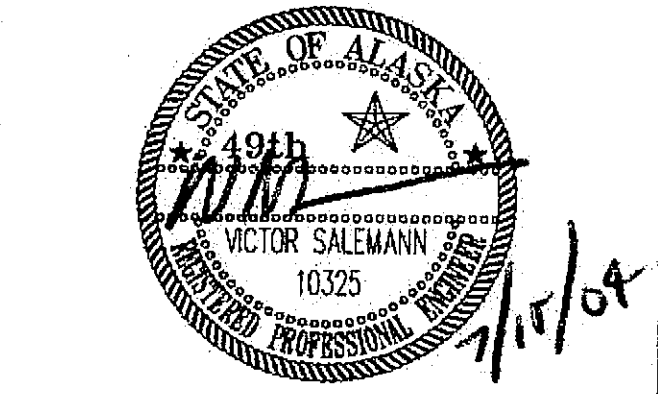
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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN
DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

DRAINAGE SUMMARY

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
G8	

Fri, 16/Jul/04 10:34AM OXA
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No.	DATE	DESCRIPTION

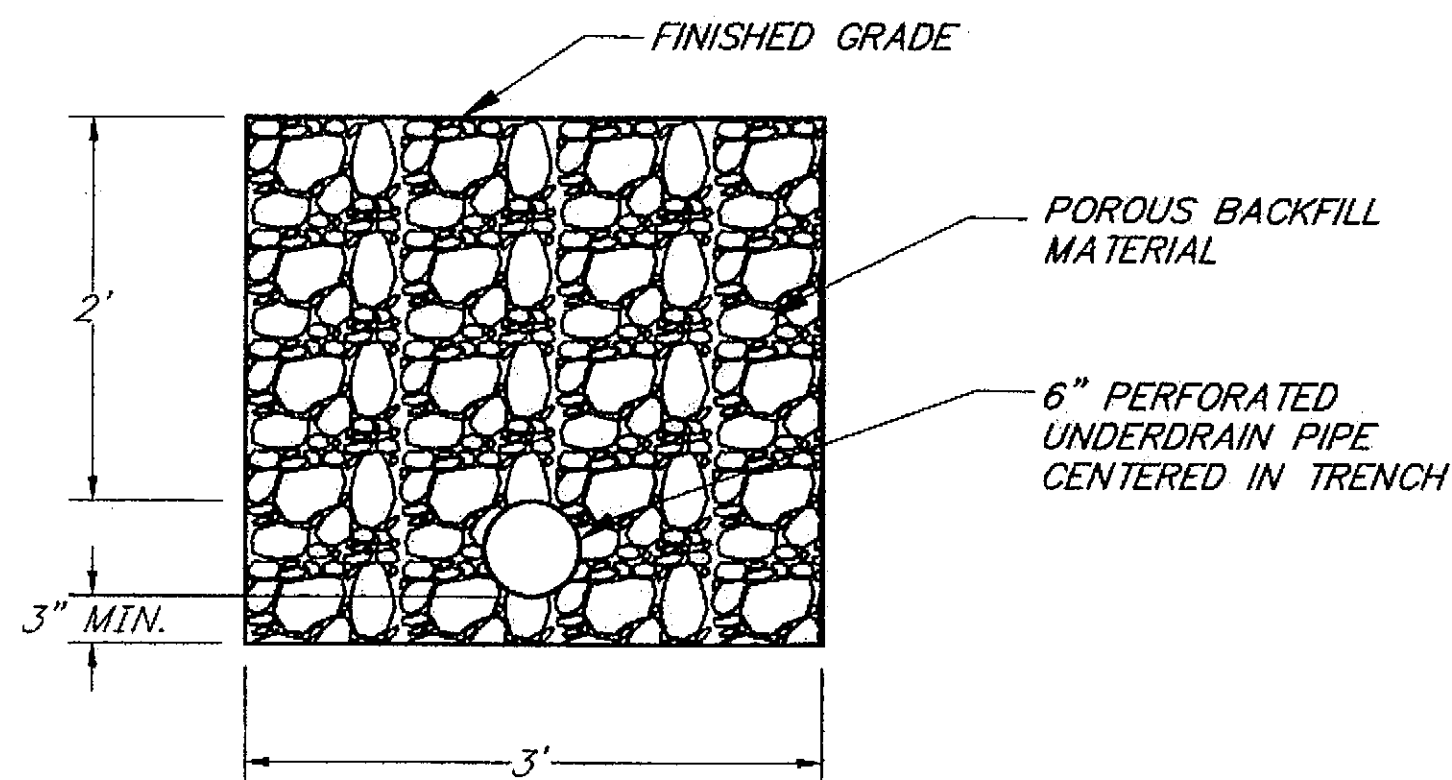
DESIGNED BY: V.VASKELIS

CHECKED BY: V.SALEMANN
DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

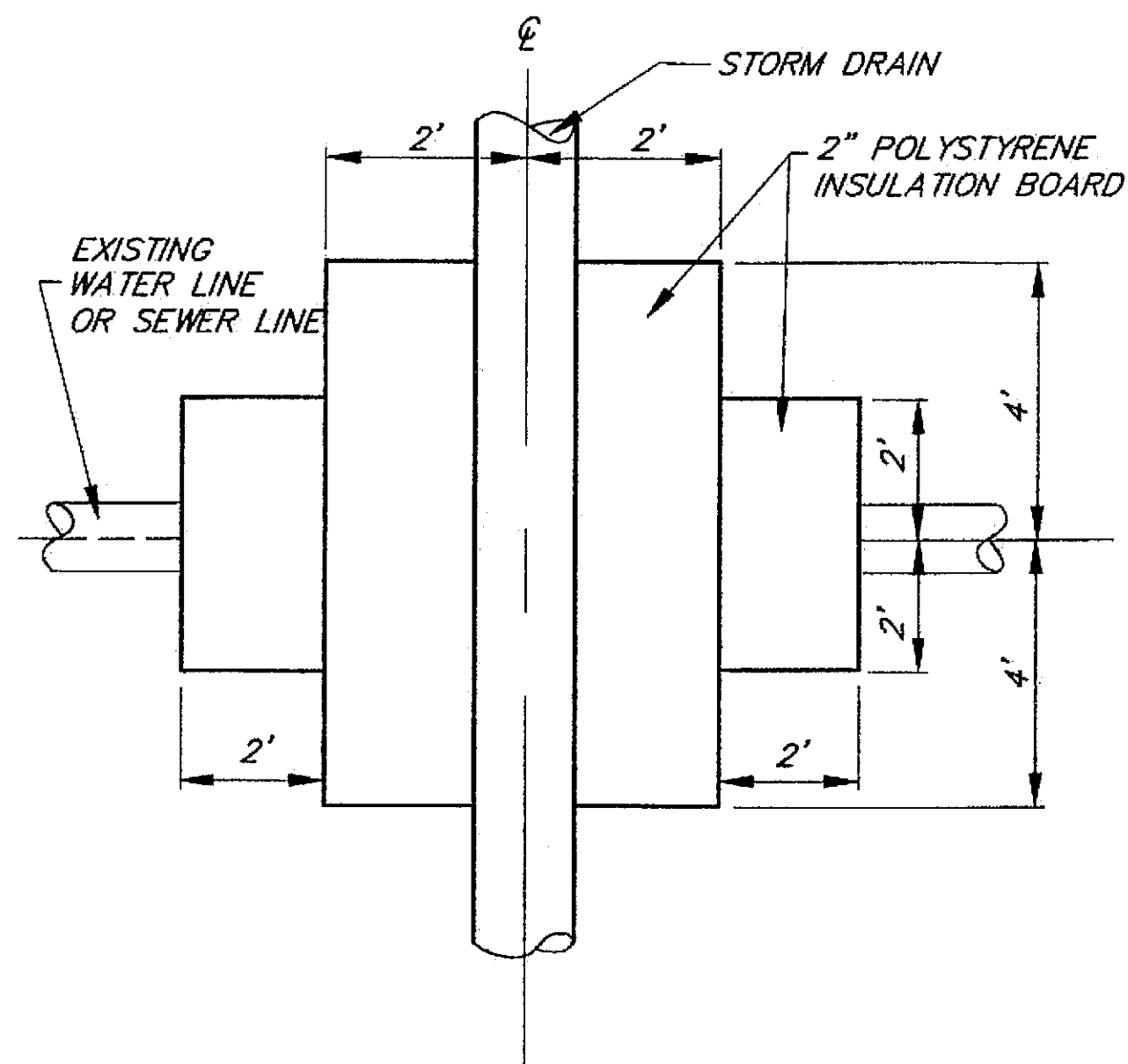
DRAINAGE DETAILS

PROJECT DESIGNATION NUMBER	
NH-F-093-3-2(29)~70168	
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
G9	

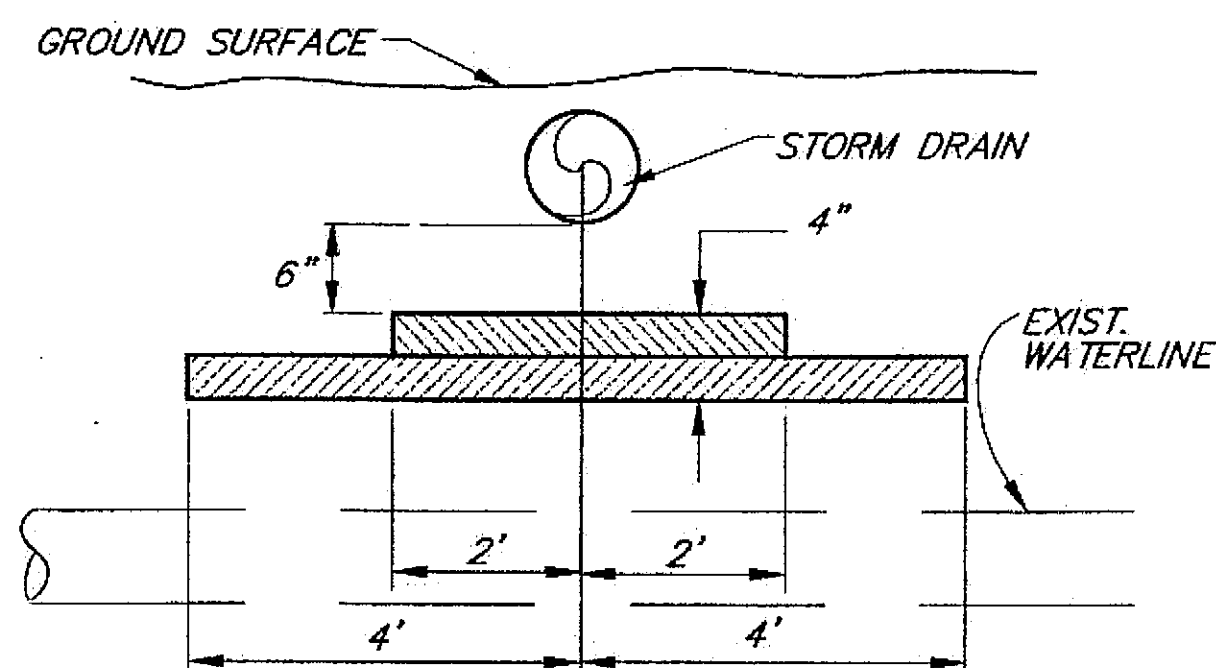


UNDER DRAIN DETAIL

SHEET #	DRAINAGE NOTE
G1	42



PLAN
N.T.S.



SECTION
N.T.S.

WATERLINE INSULATION
AT CULVERT DETAIL

SHEET #	DRAINAGE NOTE
G1	16
G1	28
G3	35
G3	37

INSULATION NOTES:

1. INSTALL INSULATION AS SHOWN, FOR SEWER LINE IF LESS THAN 3.8' SEPARATION, AND FOR WATER LINE IF LESS THAN 5' SEPARATION, BETWEEN STORM DRAIN AND LINE.
2. WRAP AROUND INSULATION WITH R-FACTOR EQUAL TO 4" RIGID BOARD MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 7/26/07



**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

MANHOLE NOTES:

1. MANHOLE ADJUSTMENT SHALL BE MADE WITH GRADE RINGS NOT EXCEEDING 12" TOTAL HEIGHT BETWEEN BOTTOM OF MANHOLE FRAME AND TOP OF MANHOLE CONE.
2. NEW STEP(S) AS DETAILED IN STD. DRAWINGS D-20.02 SHALL BE INSTALLED ON THE EXISTING MANHOLE IF THE FIRST STEP EXCEEDS 3' FROM THE TOP OF MANHOLE FRAME, FOR MANHOLE RECONSTRUCTION/ADJUSTMENT.
3. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAXIMUM FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF BARREL.
4. ANY RECONSTRUCTED OR ADJUSTED MANHOLES MUST CONFORM TO STANDARD DIMENSIONS.
5. CONCRETE ENCASEMENT IS NOT REQUIRED IF MANHOLE, INLETS OR VALVE BOX IS LOCATED IN THE SIDEWALK.
6. USE 6" LAYER OF BEDDING UNDER ALL MANHOLES AND INLETS.
7. ALL PIPES TO EXTEND 2" INTO MANHOLE.
8. BLOCKOUTS TO BE FORMED.
9. STORM DRAIN MANHOLE SHALL BE 48" INSIDE DIAMETER FOR TYPE I.
10. ALL STORMDRAIN INLETS & MANHOLES SHALL HAVE 18" SUMP.
11. REFER TO STD DWGS D-26.02 & D-35.00 FOR DETAILS NOT SHOWN.

STD. DWG. D-23.00 GRATE ILLUSTRATED, OTHER GRATE STYLES AS REQUIRED PER D-22.00 & D-24.00

RISER (AS REQ'D)

REDUCING SLAB AS REQ'D. (SAME AS DETAILED STD. DWG. D-35.00 EXCEPT REBAR AS SPECIFIED THIS SHEET)

BARREL DEPTH VARIES

12" MIN.

6"

BEDDING

#4 REBAR @ 12" O.C. BOTH WAYS.

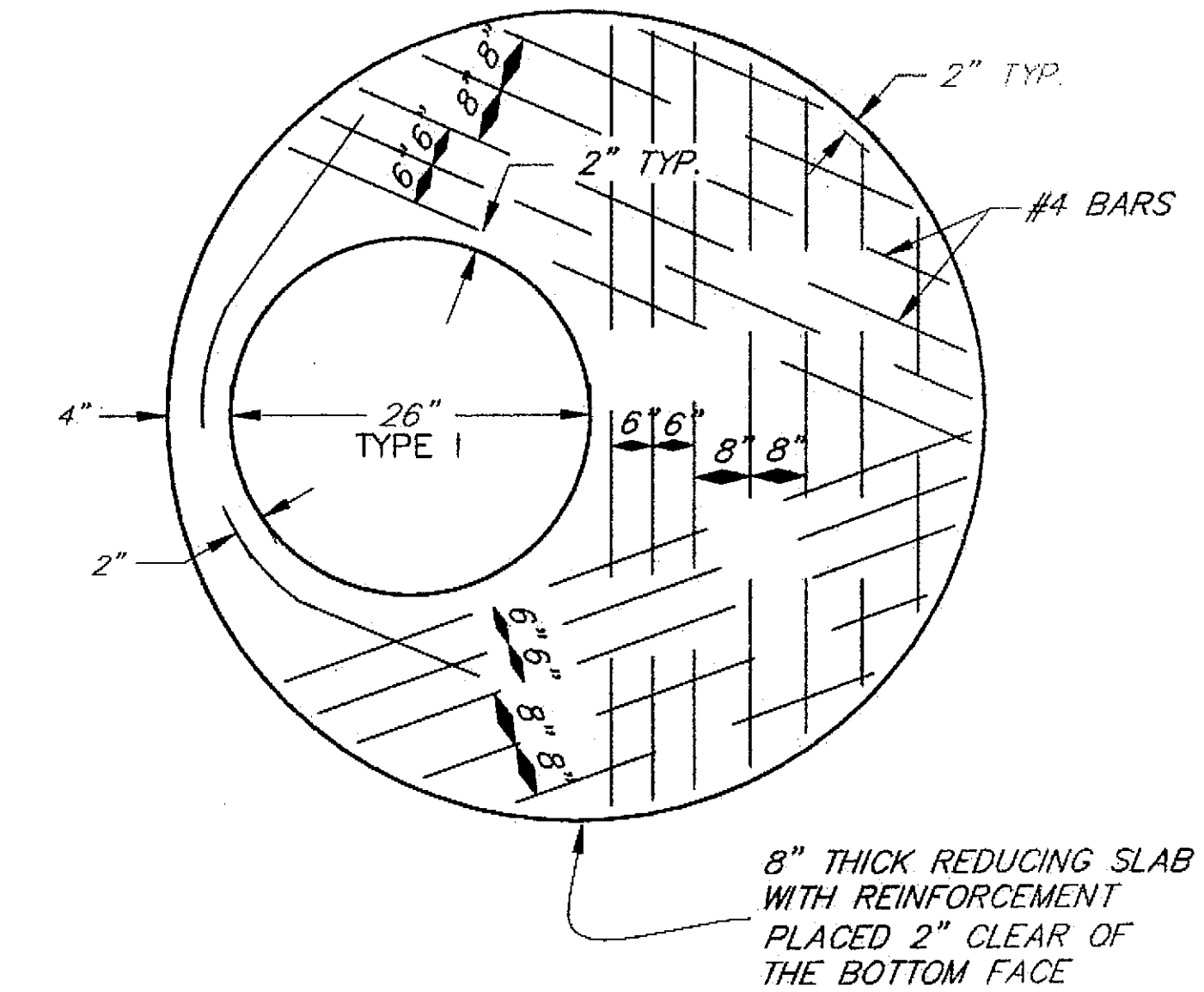
SEE SUMMARY TABLE FOR PIPE DIAMETER

MANHOLE PER STANDARD DWG.

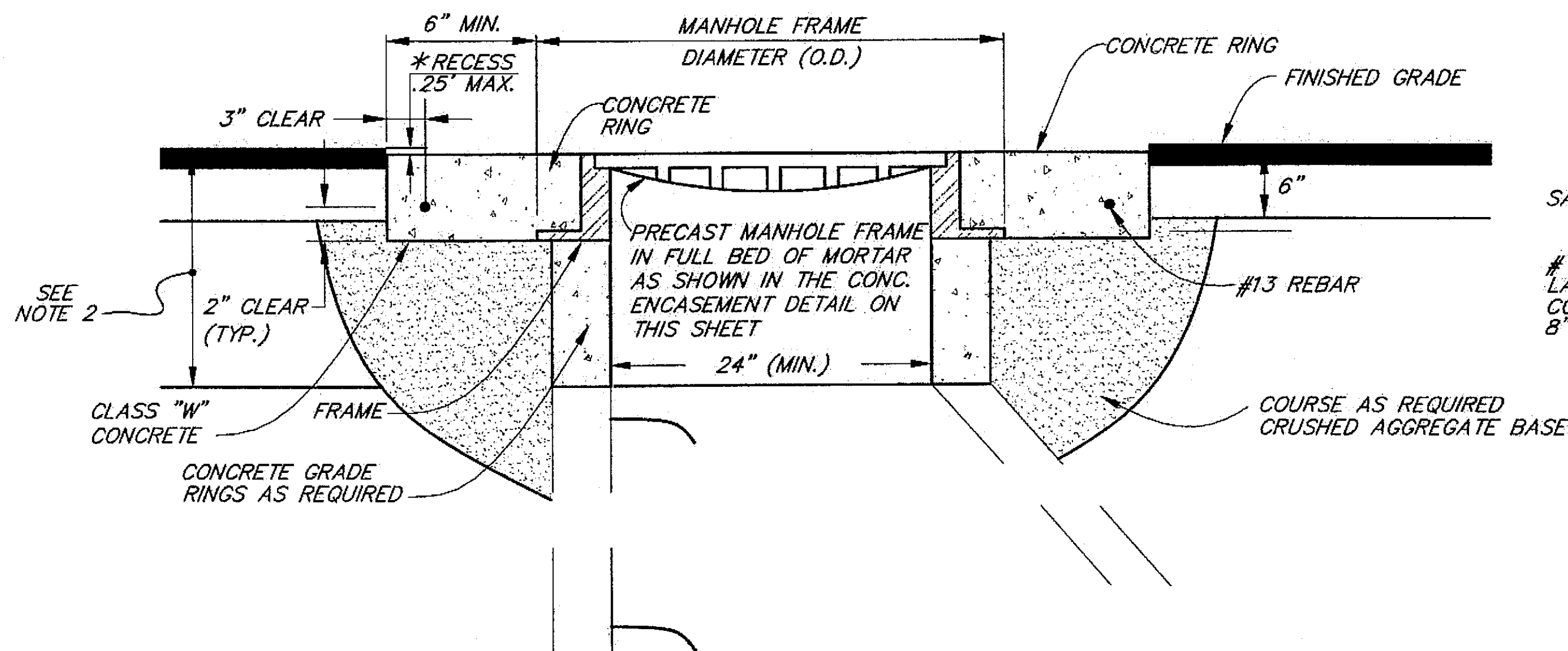
INVERT ELEV. PIPES SEE PIPE SUMMARY

MANHOLE DETAIL

SEE G8 FOR 48" STORM SEWER MANHOLE LOCATIONS



TYPE I MANHOLE PRECAST REDUCING SLAB



ADJUST STORM/SEWER MANHOLE

G1-48, G3-52, G3-31, G3-53

SHEET #	DRAINAGE NOTE
G1	48
G3	31
G3	52
G3	53

Project As-Built Drawings have been reviewed by the Project Engineer and represent the best of my knowledge, the project as built. Date: 9/8/07
Proj. Engr. [Signature]

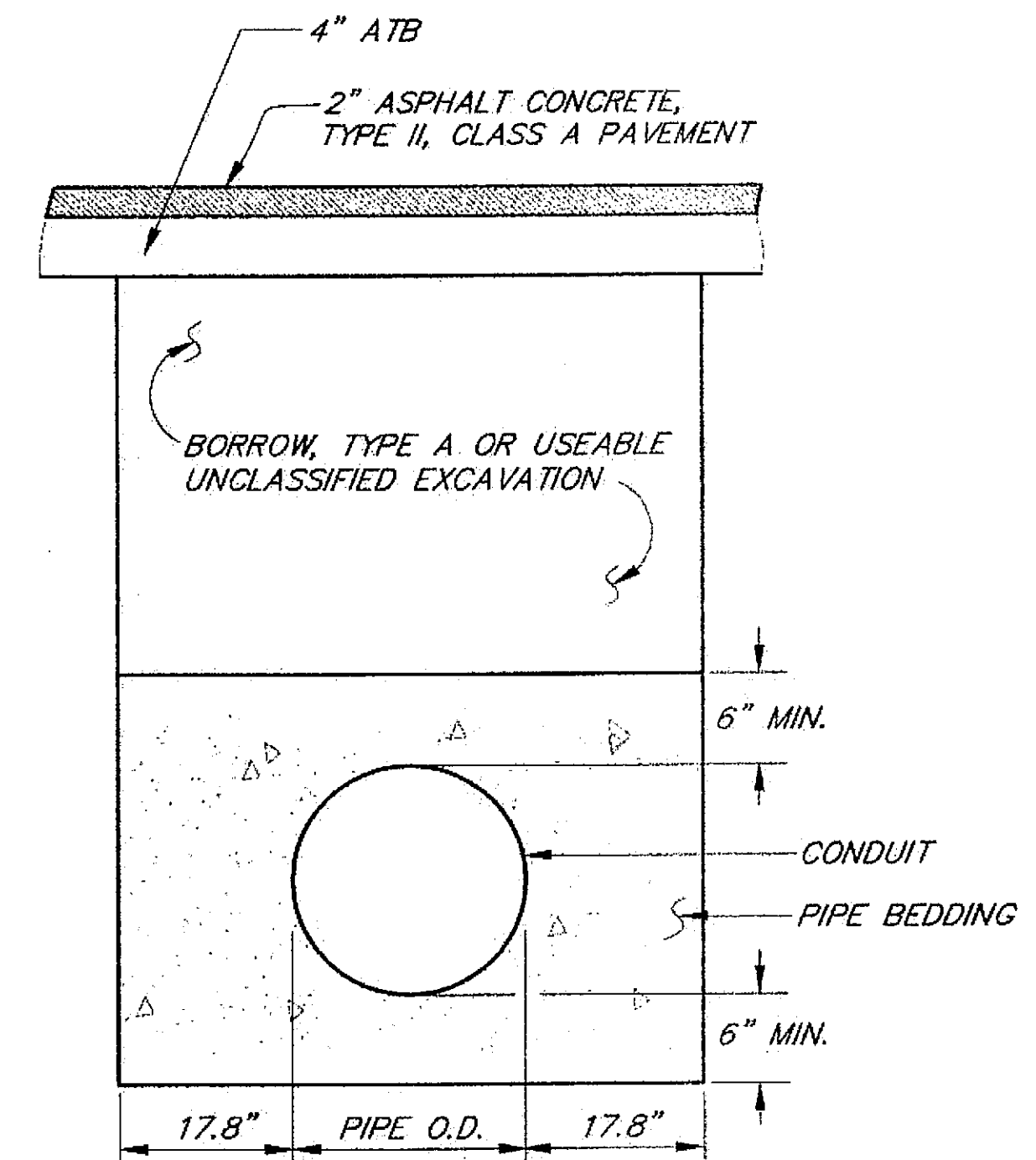
SAW-CUT PAVEMENT

#13 REBARS LAPPED @ CORNERS 8"

MANHOLE OPENING

2" CLEAR (TYP.)

PLAN



STORM DRAIN BEDDING/BACKFILL DETAIL

N.T.S.



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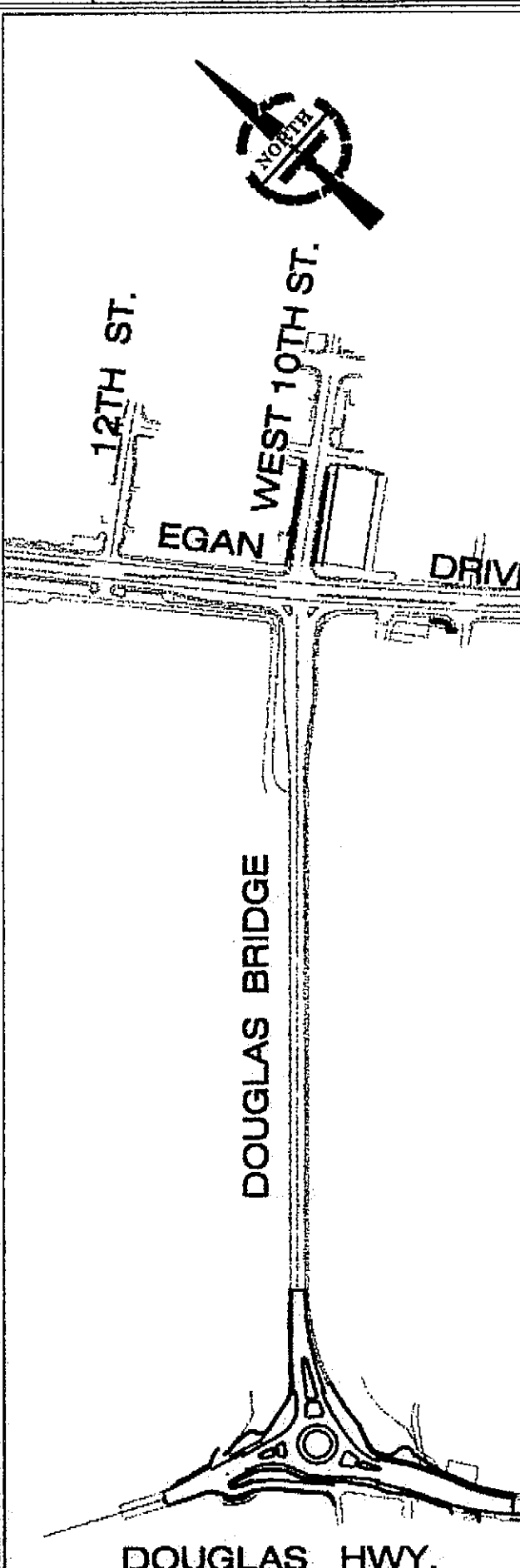
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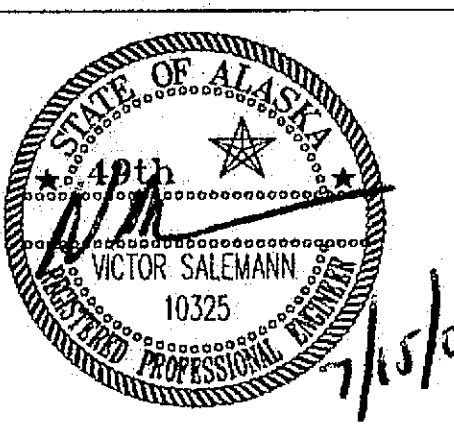
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: V.VASKELIS



CHECKED BY: V.SALEMANN
DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

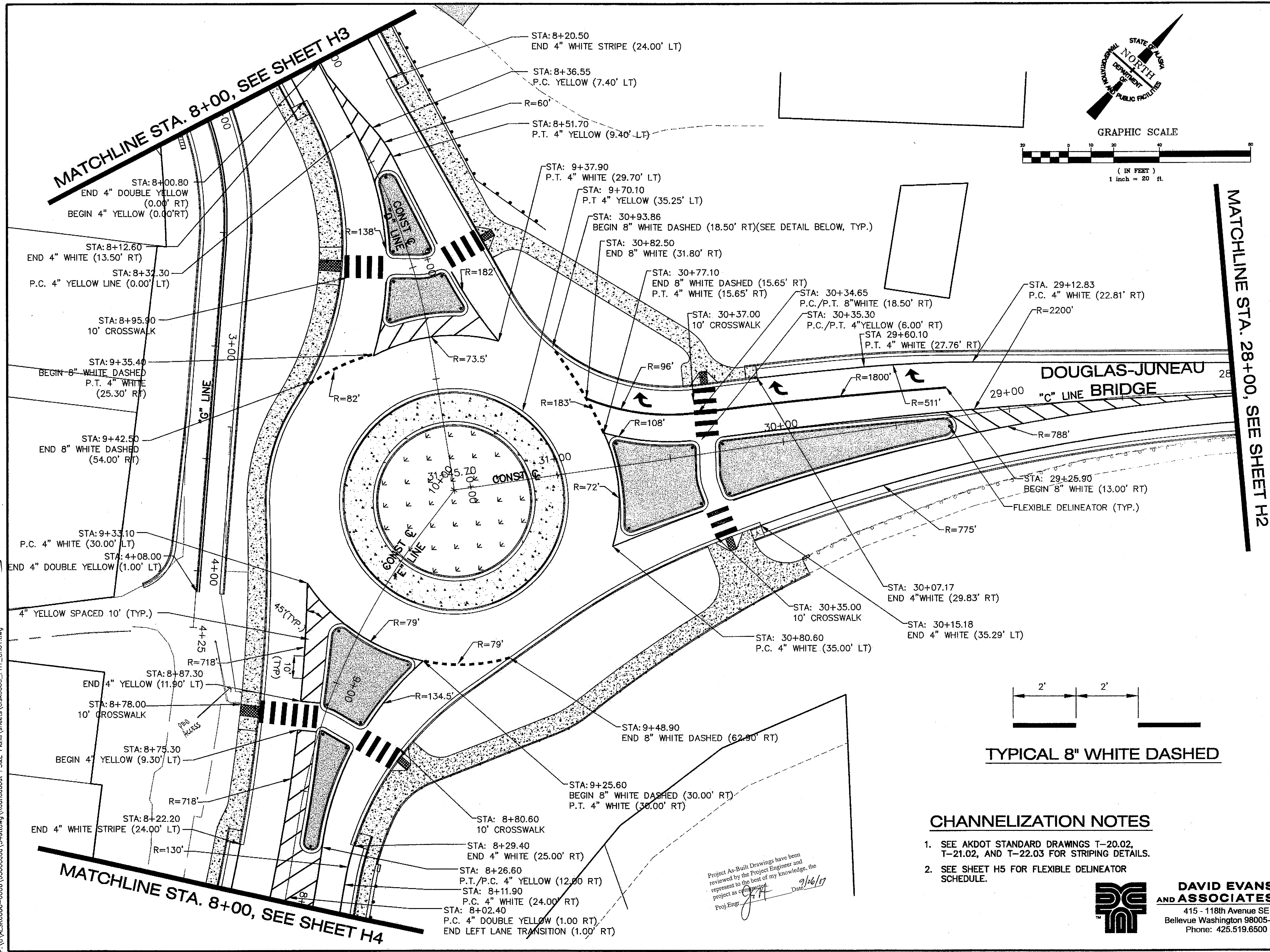
DRAINAGE DETAILS

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
G10	

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TYPICAL 8" WHITE DASHED

CHANNELIZATION NOTES

1. SEE AKDOT STANDARD DRAWINGS T-20.02, T-21.02, AND T-22.03 FOR STRIPING DETAILS.
2. SEE SHEET H5 FOR FLEXIBLE DELINEATOR SCHEDULE.



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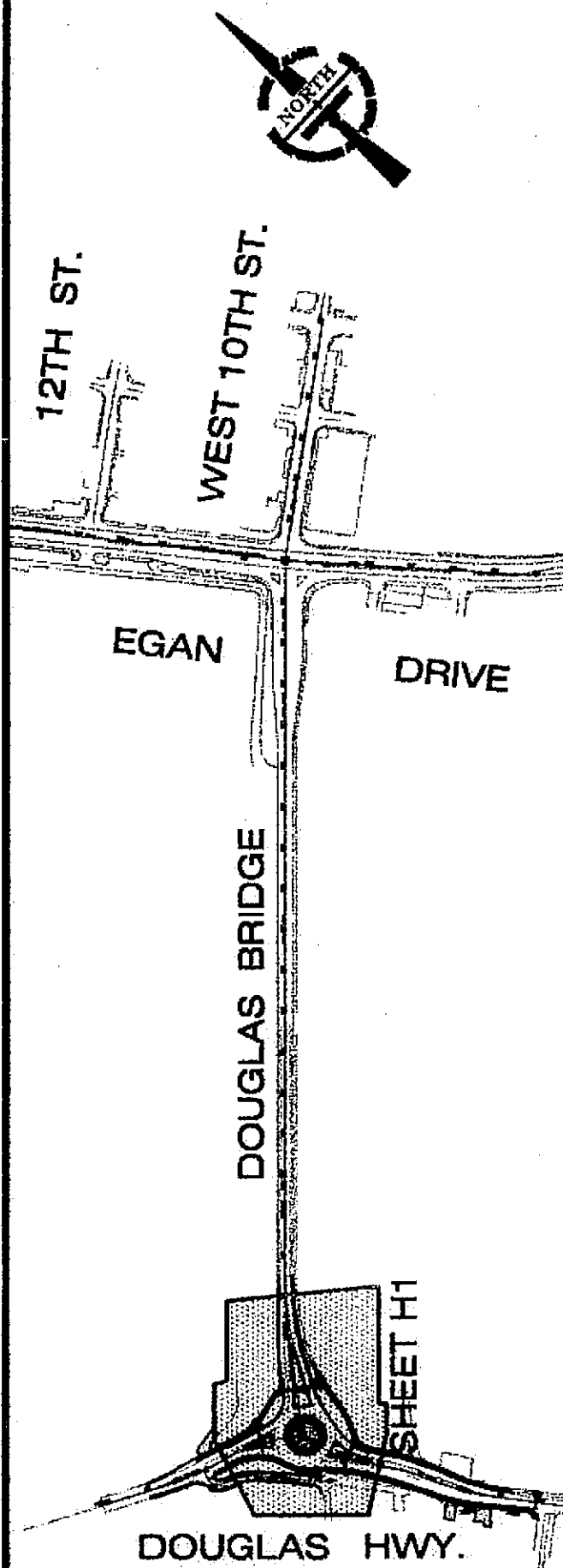
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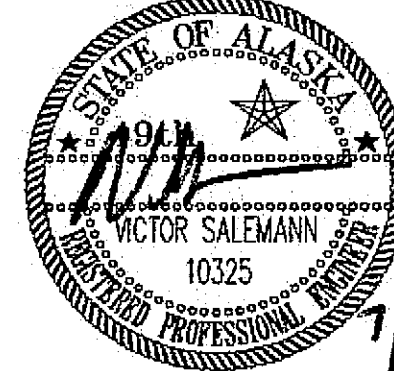
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
**JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT**

STRIPING PLAN

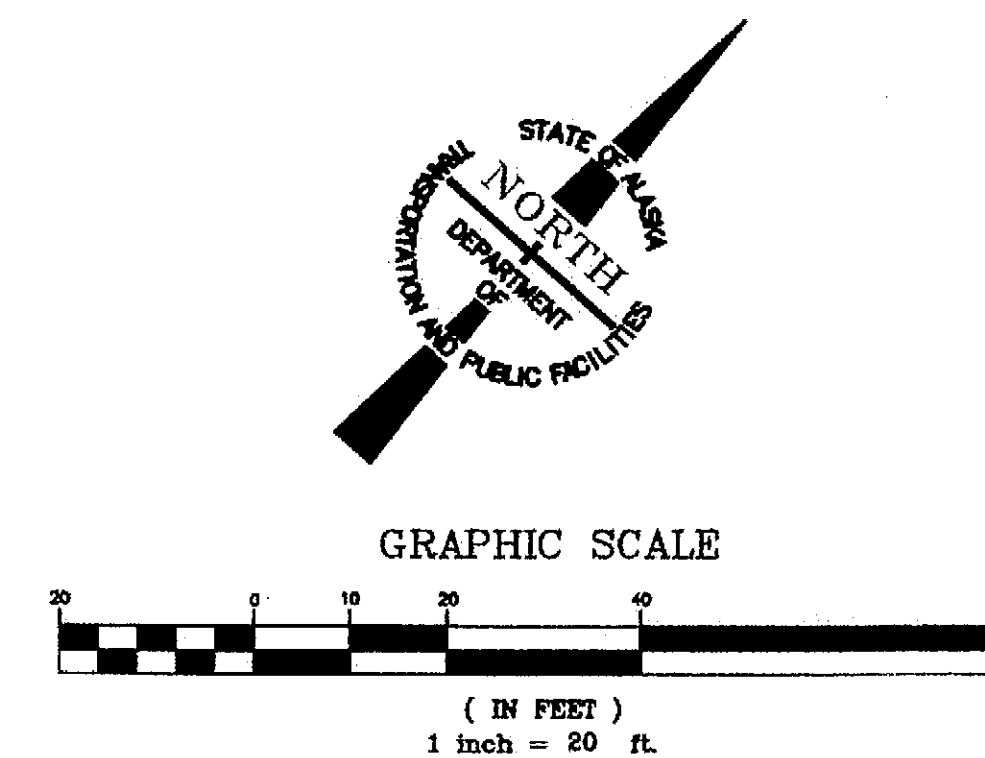
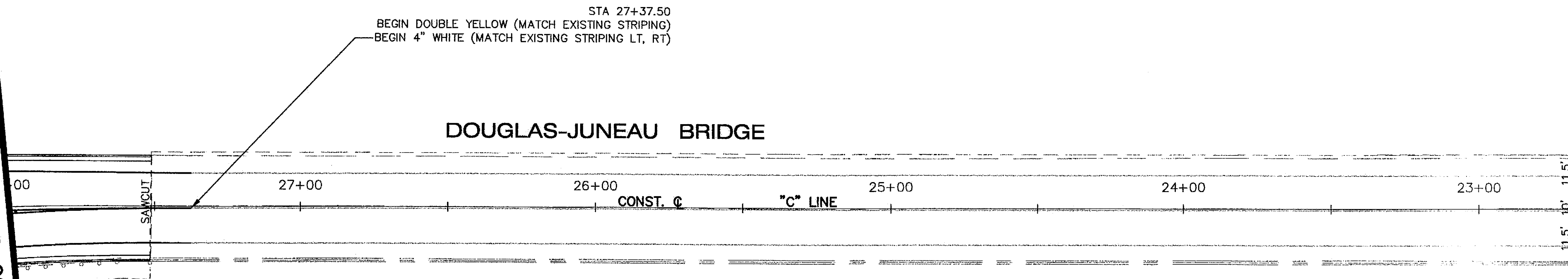
PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
H1	

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MATCHLINE STA. 28+00, SEE SHEET H1



CHANNELIZATION NOTES

1. SEE AKDOT STANDARD DRAWINGS T-20.02, T-21.02, AND T-22.03 FOR STRIPING DETAILS.

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

Proj. Engr. *JEH* Date *9/24/17*



**DAVID EVANS
AND ASSOCIATES INC.**
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Bellevue Washington 98005-3518
Phone: 425.519.6500

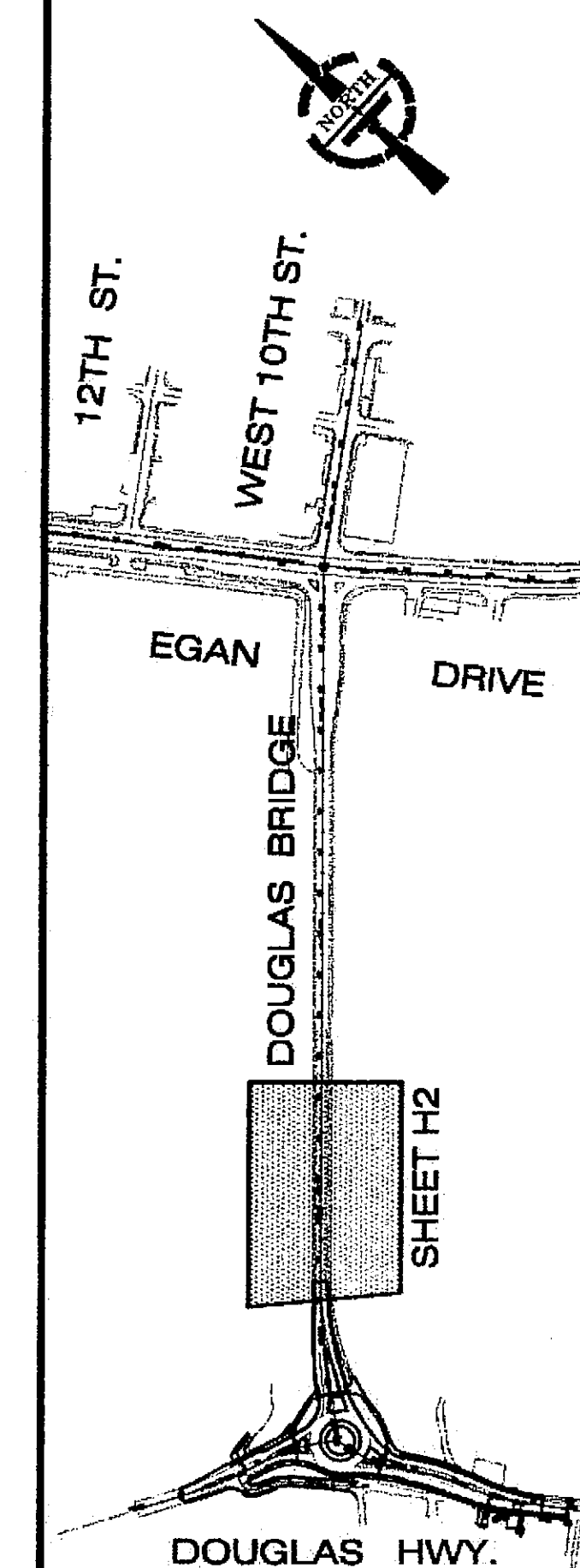
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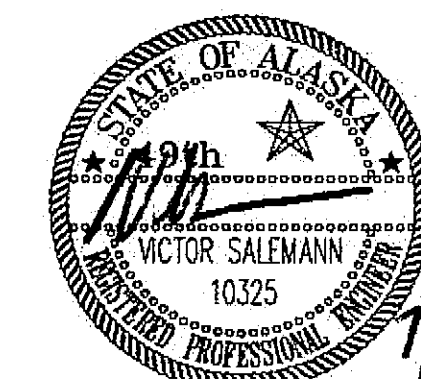
ATTACHMENT NUMBER

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DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

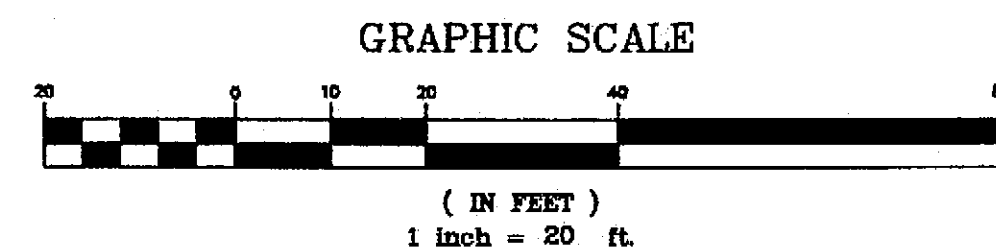
STRIPING PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
H2	

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NORTH DOUGLAS HIGHWAY

CHANNELIZATION NOTES

1. SEE AKDOT STANDARD DRAWINGS T-20.02, T-21.02, AND T-22.03 FOR STRIPING DETAILS.

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

Proj. Engr. *[Signature]* Date *7/13/04*



DAVID EVANS AND ASSOCIATES INC.
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Bellevue Washington 98005-3518
Phone: 425.519.6500

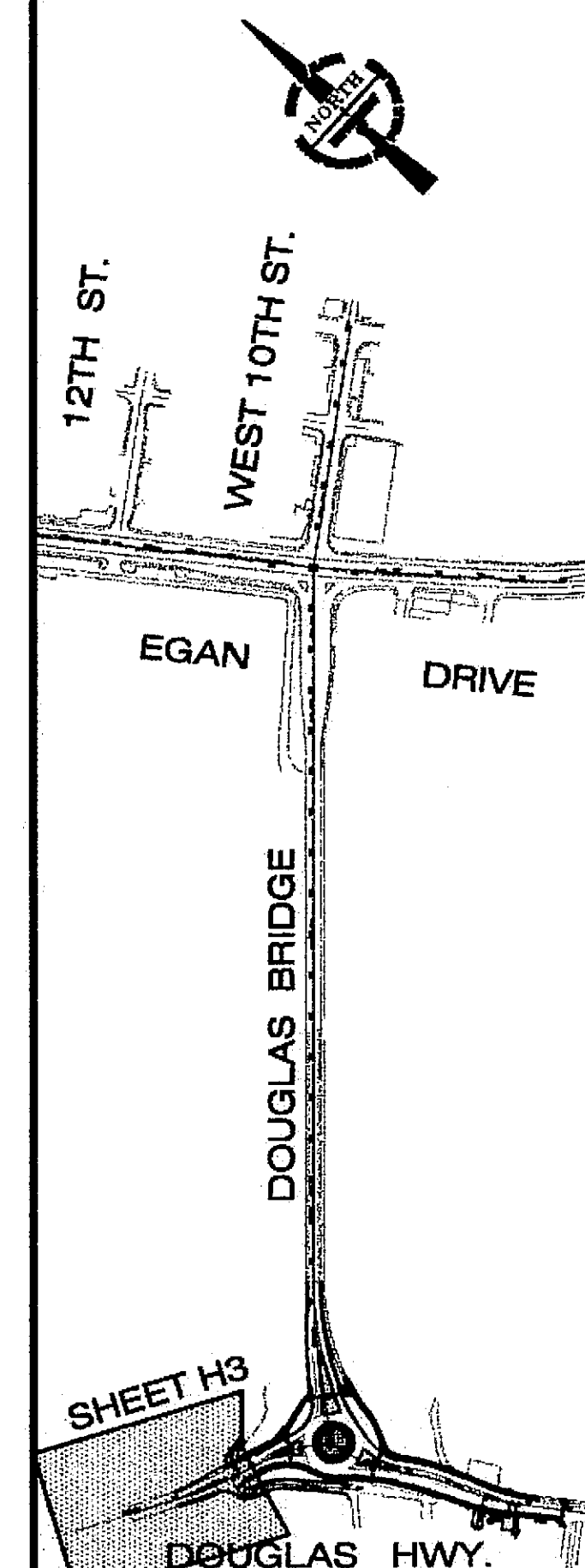
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ATTACHMENT NUMBER

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DESIGNED BY: S.SOISETH



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DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

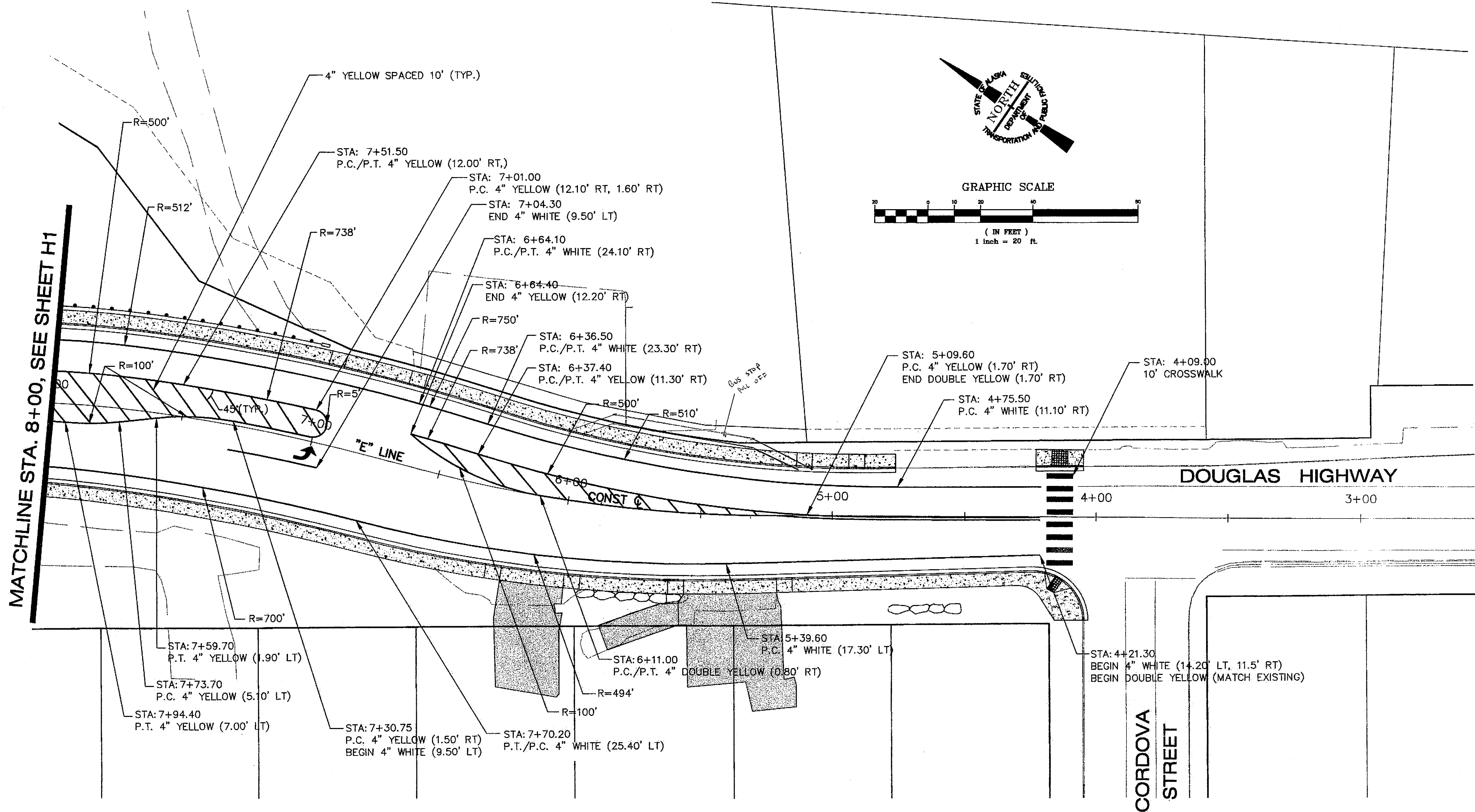
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PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
H3	

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CHANNELIZATION NOTES

1. SEE AKDOT STANDARD DRAWINGS T-20.02, T-21.02, AND T-22.03 FOR STRIPING DETAILS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date: 9/24/07



**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

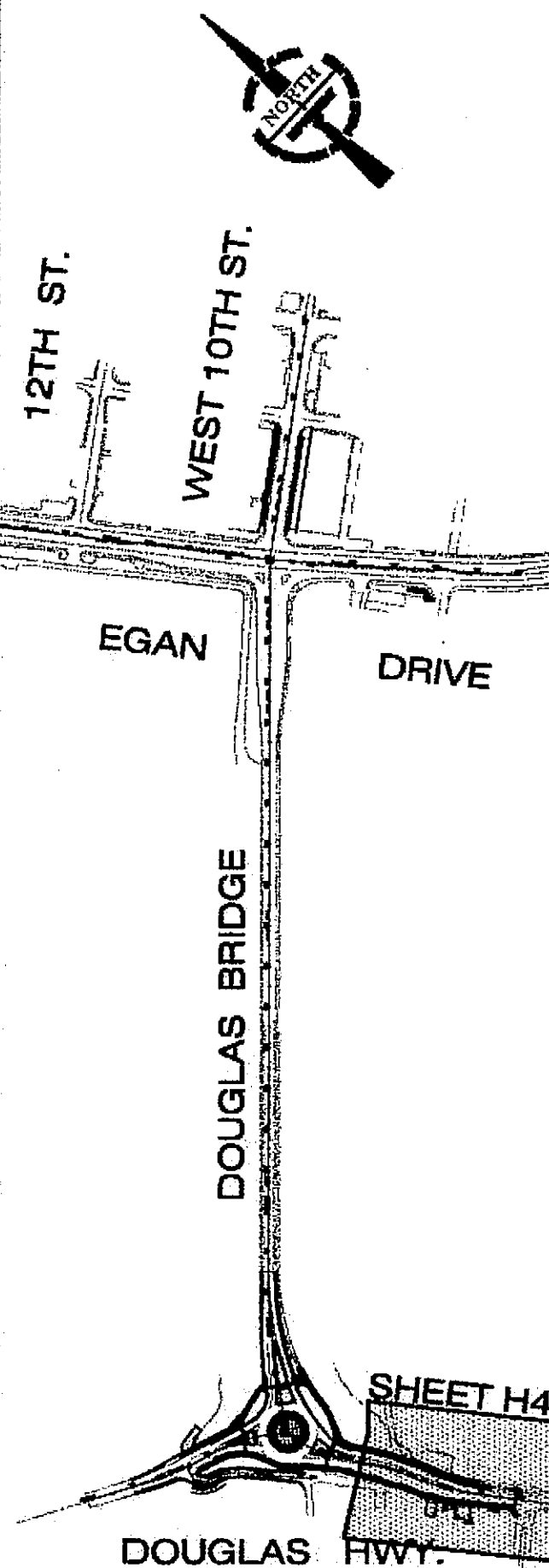
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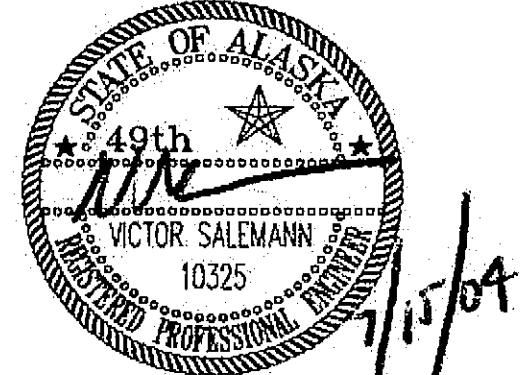
ATTACHMENT NUMBER

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DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
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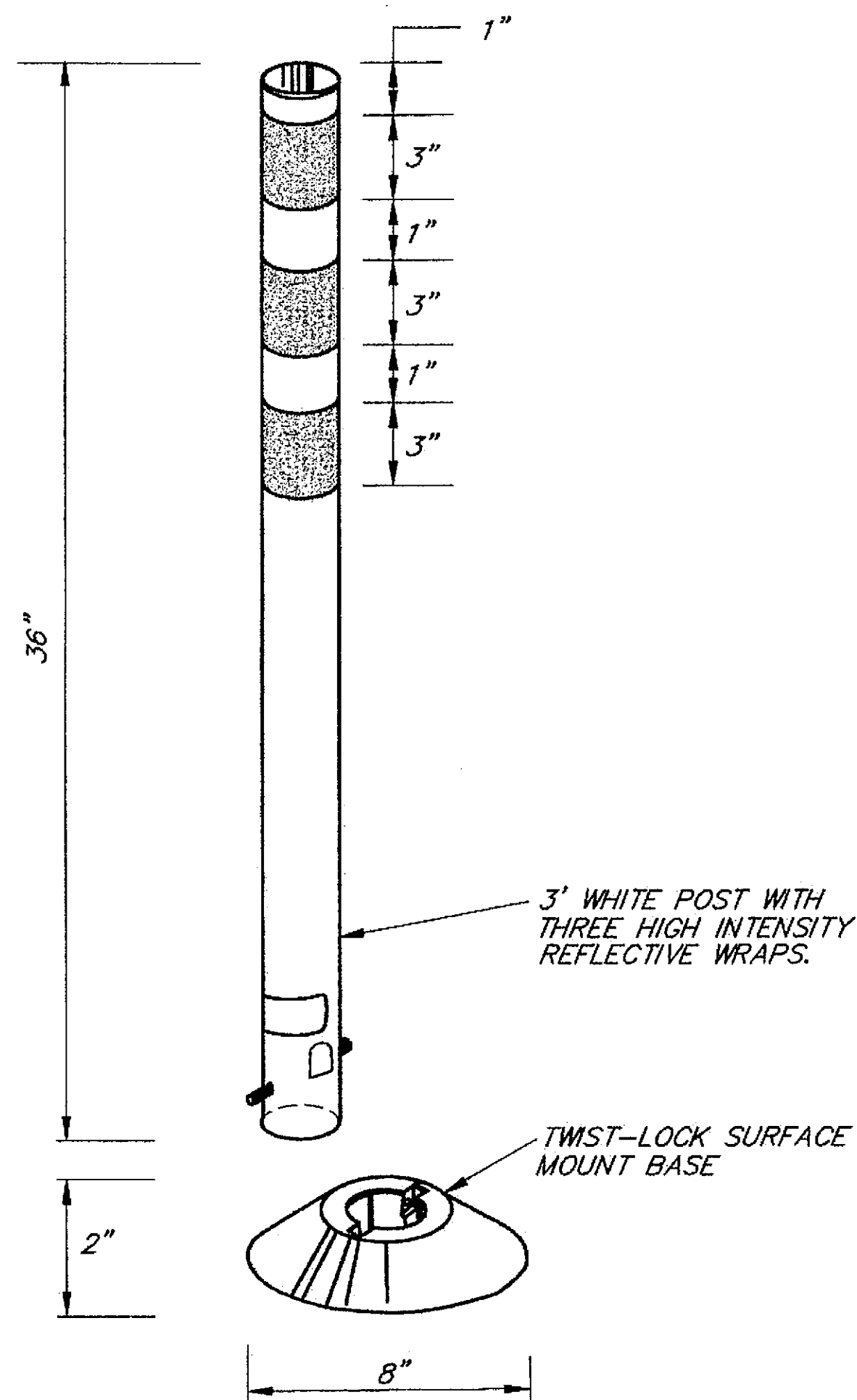
**JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT**

STRIPING PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
H4	



TYPE "A"
FLEXIBLE DELINEATOR DETAIL

FLEXIBLE DELINEATOR NOTES:

1. DELINEATORS SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE STRIPING PLANS ON SHEET H1.
2. DELINEATORS INSTALLED ON MEDIAN SHOULDERS SHALL HAVE YELLOW REFLECTIVE SHEETING.
2. DELINEATORS INSTALLED ON BIKE RAMPS SHALL HAVE WHITE REFLECTIVE SHEETING.

FLEXIBLE DELINEATOR SCHEDULE				
STATION	OFFSET		TYPE	REMARKS
	LT	RT		
30+72.5	28.0'			"C" LINE
30+72.5		10.0'		"C" LINE
30+40.0		3.5'		"C" LINE
30+39.5	21.5'			"C" LINE
30+26.5	19.0'			"C" LINE
30+26.5		3.0'		"C" LINE
29+27.0	3.5'			"C" LINE
30+08.0		30.25'		"C" LINE
9+22.0	16.0'			"D" LINE
9+20.0		15.0'		"D" LINE
9+03.5		9.5'		"D" LINE
9+07.0	11.5'			"D" LINE
8+94.5	8.5'			"D" LINE
8+90.5		6.0'		"D" LINE
8+58.5	3.0'			"D" LINE
8+13.5		13.75'		"D" LINE
9+20.5		25.0'		"E" LINE
9+21.5	8.5'			"E" LINE
8+89.5	0.5'			"E" LINE
8+87.0		15.5'		"E" LINE
8+73.5		13.0'		"E" LINE
8+78.5		2.0'		"E" LINE
8+26.2		7.0'		"E" LINE
8+30.5	26.0'			"E" LINE

STRIPING QUANTITIES		
STRIPING TYPE	QUANTITY	UNITS
SINGLE STRIPE	1750	LF
DOUBLE OR WIDE STRIPE	2880	LF
TRANSVERSE PAVEMENT MARKING LINES	5250	SQ. FT
TRANSVERSE MARKINGS, WORDS AND SYMBOLS	5	EACH

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date: 9/26/07

FR, 16/Jul/04 10:36AM OXA
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LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

12TH ST.
WEST 10TH ST.
EGAN DRIVE
DOUGLAS BRIDGE
DOUGLAS HWY.

DESIGNED BY: S.SOISETH

CHECKED BY: V.SALEMANN
DRAWN BY: O. AHRENSFELD

STATE OF ALASKA
49th
VICTOR SALEMANN
10325
REGISTERED PROFESSIONAL ENGINEER
7/15/07

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

STRIPING PLAN

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)-70168

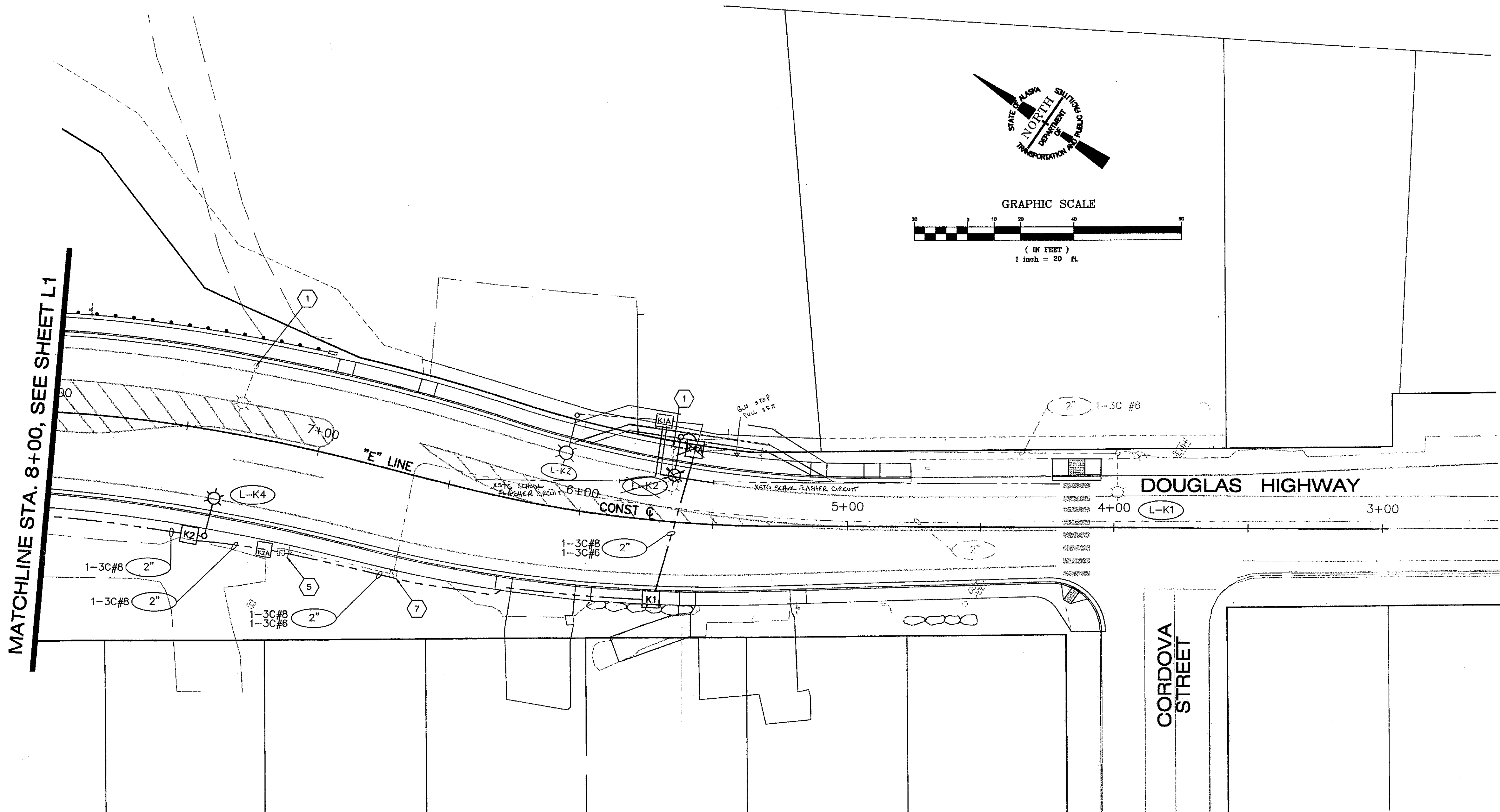
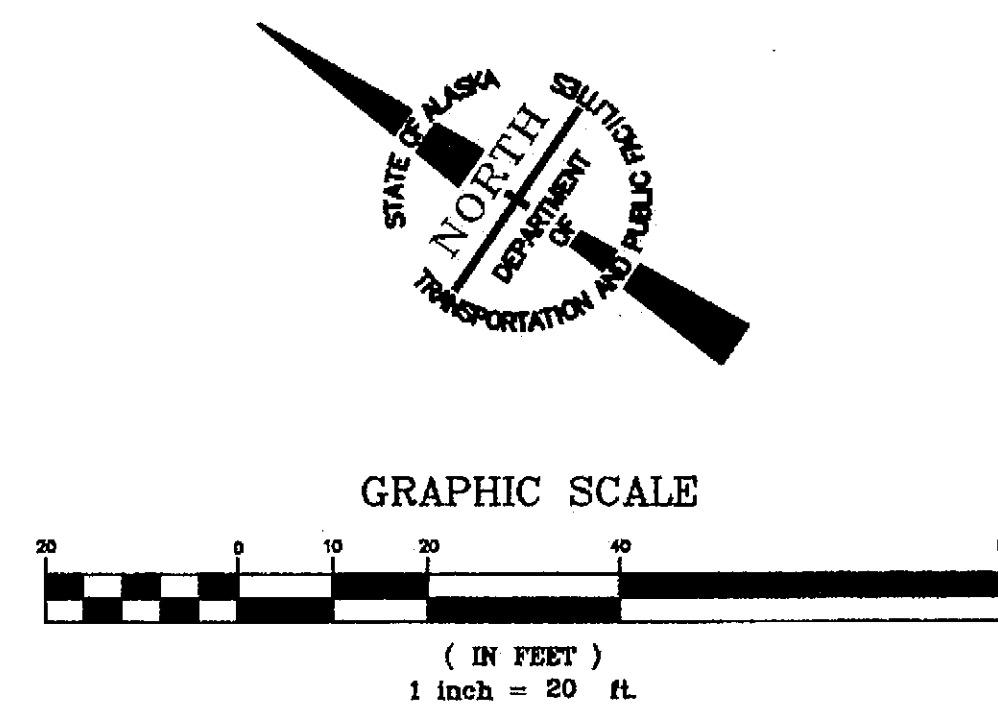
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
H5	



**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

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MATCHLINE STA. 8+00, SEE SHEET L1



CONSTRUCTION NOTES:

- ① REMOVE EXISTING ELECTROLIER AND FOUNDATION. SLAVAGE AND/OR DISPOSE OF ELECTROLIER AS DIRECTED BY ENGINEER.
- ③ ROUTE CONDUIT TO EXISTING JUNCTION BOX.
- ⑤ PRESERVE AND MAINTAIN OPERATION OF EXISTING SCHOOL ZONE WARNING FLASHER.
- ⑦ ADJUST JUCTION BOX

GENERAL NOTES:

1. SEE SHEET L7 FOR GENERAL ILLUMINATION NOTES.
2. SEE SHEET L5 FOR WIRING DIAGRAM.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date 9/24/07



**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

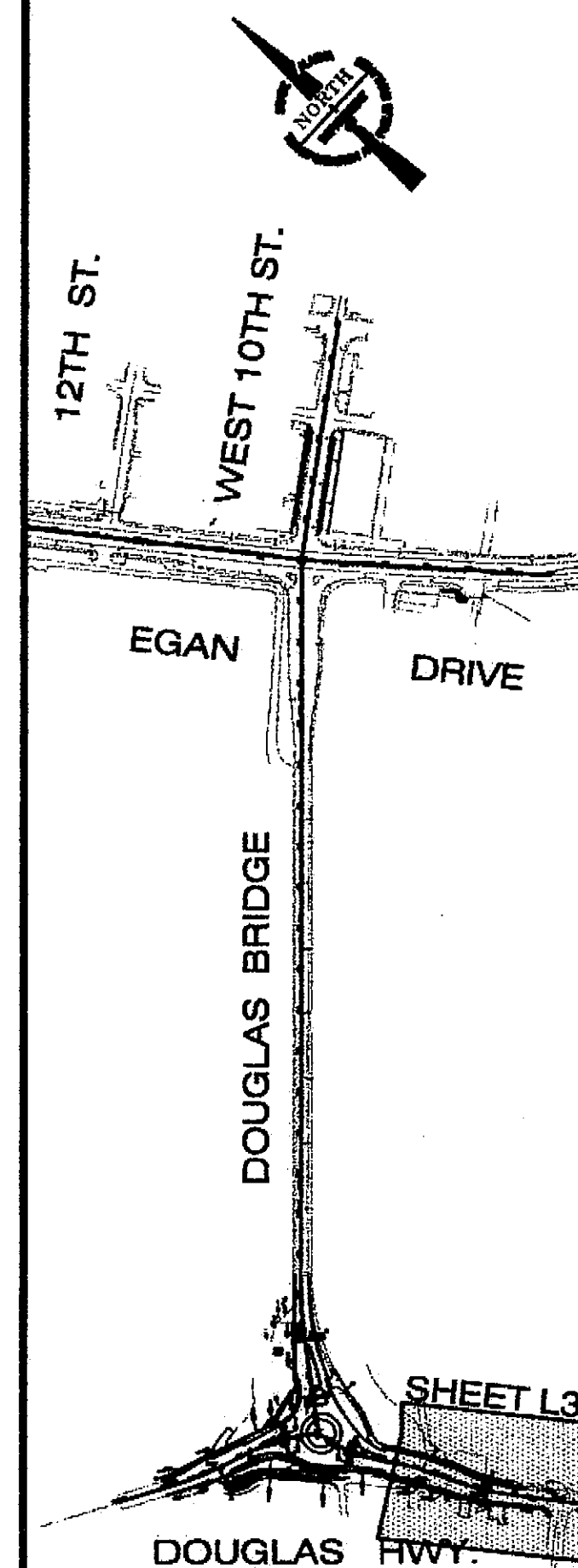
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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: J.PRZYCHODZEN



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

ILLUMINATION PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
L3	

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LUMINAIRE SUMMARY					
LUMINAIRE NO.	STATION	OFFSET		TYPE	REMARKS
		LEFT	RIGHT		
L-J1	"D" LINE: 6+10	27'	—	TYPE III MEDCUT-OFF	10' LUMINAIRE ARM
L-J2	"D" LINE: 7+36	36'	—	TYPE III MEDCUT-OFF	15' LUMINAIRE ARM
L-J3	"D" LINE: 9+13	0'	—	TYPE III MEDCUT-OFF	15' LUMINAIRE ARM
L-K1	—	—	—	TYPE III MEDCUT-OFF	EXISTING
L-K2	"E" LINE: 5+65	—	31'	TYPE III MEDCUT-OFF	15' LUMINAIRE ARM
L-K3	—	—	—	TYPE III MEDCUT-OFF	NOT USED
L-K4	"E" LINE: 7+36	40'	—	TYPE III MEDCUT-OFF	15' LUMINAIRE ARM
L-K5	"E" LINE: 9+11	—	7'	TYPE III MEDCUT-OFF	15' LUMINAIRE ARM
L-K6	"C" LINE: 30+57	10'	—	TYPE III MEDCUT-OFF	15' LUMINAIRE ARM
L-K7	"C" LINE: 29+04	39'	—	TYPE III MEDCUT-OFF	15' LUMINAIRE ARM
~~L-K8~~	"D" LINE: ~~9+21~~ 8+21	—	27'	TYPE III MEDCUT-OFF	15' LUMINAIRE ARM

L-J4

ILLUMINATION JUNCTION BOX SUMMARY TABLE					
BOX NO.	STATION	OFFSET		TYPE	REMARKS
		LEFT	RIGHT		
J1	"D" LINE: 6+08	28' —	28'	1A	
J2	"D" LINE: 7+32	37' —	37'	1A	
J3	"D" LINE: 8+94	48'	—	1A	
J4	"D" LINE: 9+09	38'	—	1A	
J5	"D" LINE: 9+17	0'	—	1A	
K1	"E" LINE: 5+66	29' 33'	—	1A	
K2	"E" LINE: 7+41	39'	—	1A	
K3	"E" LINE: 9+06	48'	—	1A	
K4	"E" LINE: 9+15	—	8'	1A	
K5	"D" LINE: 9+17	—	52'	1A	
K6	"C" LINE: 30+52	—	37'	1A	
K7	"C" LINE: 30+54	5'	—	1A	
K8	"C" LINE: 30+50	46'	—	1A	
~~K9~~	~~"C" LINE: 30+37~~	~~80'~~	~~—~~	~~1A~~	
K10	"C" LINE: 29+10	41'	—	1A	
~~K11 J6~~	~~"D" LINE: 8+26~~	~~—~~	~~27'~~	~~1A~~	
K1A	"E" LINE 6+12	—	37'	1A	
K2A	"E LINE 7+01	41'	—	1A	

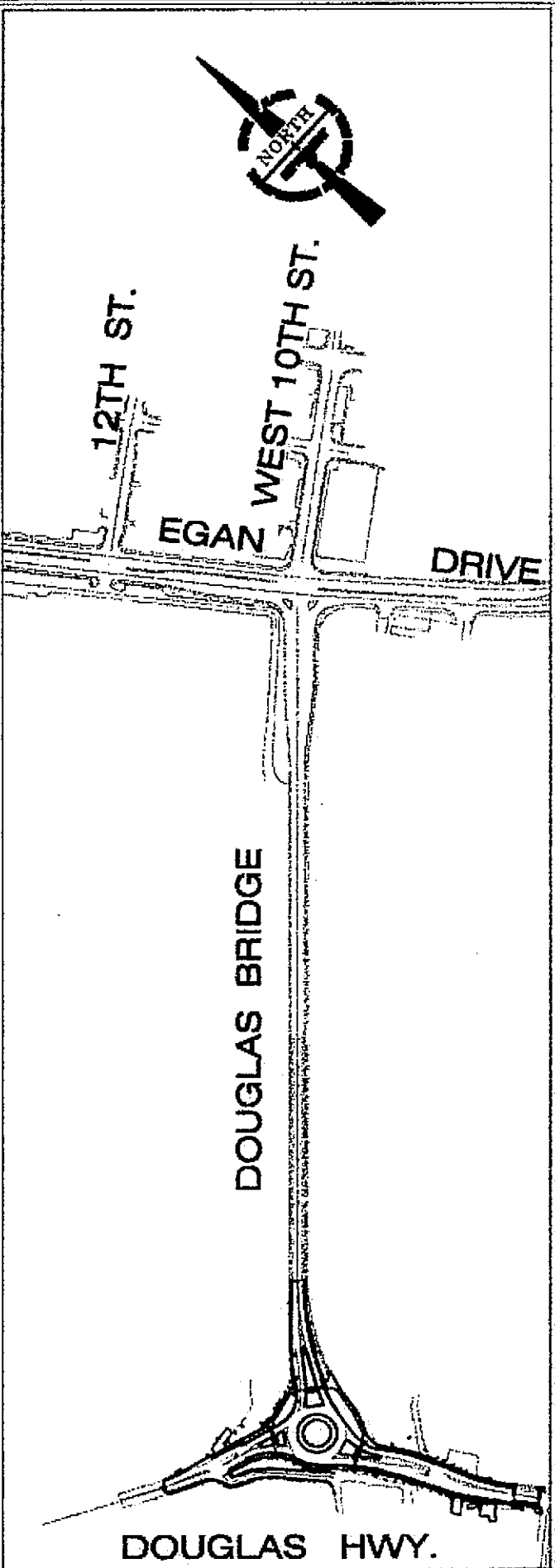
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date 9/26/07



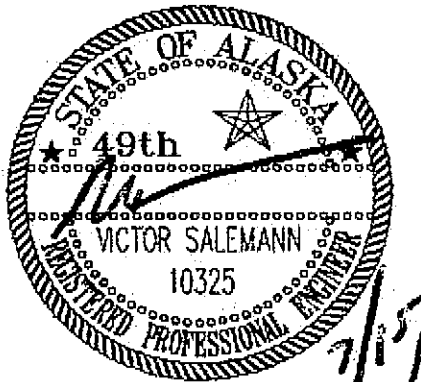
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DESIGNED BY: J.PRZYCHODZEN



CHECKED BY: V.SALEMANN
DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

ILLUMINATION DETAILS

PROJECT DESIGNATION NUMBER	
NH-F-093-3-2(29)~70168	
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
L4	

SUMMARY OF LOAD CENTER: LC-B

LOAD CENTER TYPE 1

LOAD CENTER:	LOCATION DATA: "D" STA. 9+27.00, 73.00' RT (DOUGLAS HIGHWAY AT 10TH STREET)			
POWER SOURCE:				
PHOTOELECTRIC CONTROL:	YES			
SERVICE VOLTAGE	1 PHASE,	3-WIRE,	240/480 VOLTS,	60 HZ.
INTERRUPTING CAPACITY OF CIRCUIT BREAKERS—SERIES RATED	10,000 AIC			
PROVIDE METER SOCKET? YES	SERVICE AMPS 100A			
MAIN BREAKER A:	240/480 VOLT,	2 POLE,	100 AMPERES	
CONTACTOR:	600 VOLT,	12 POLE,	30 AMPERES	

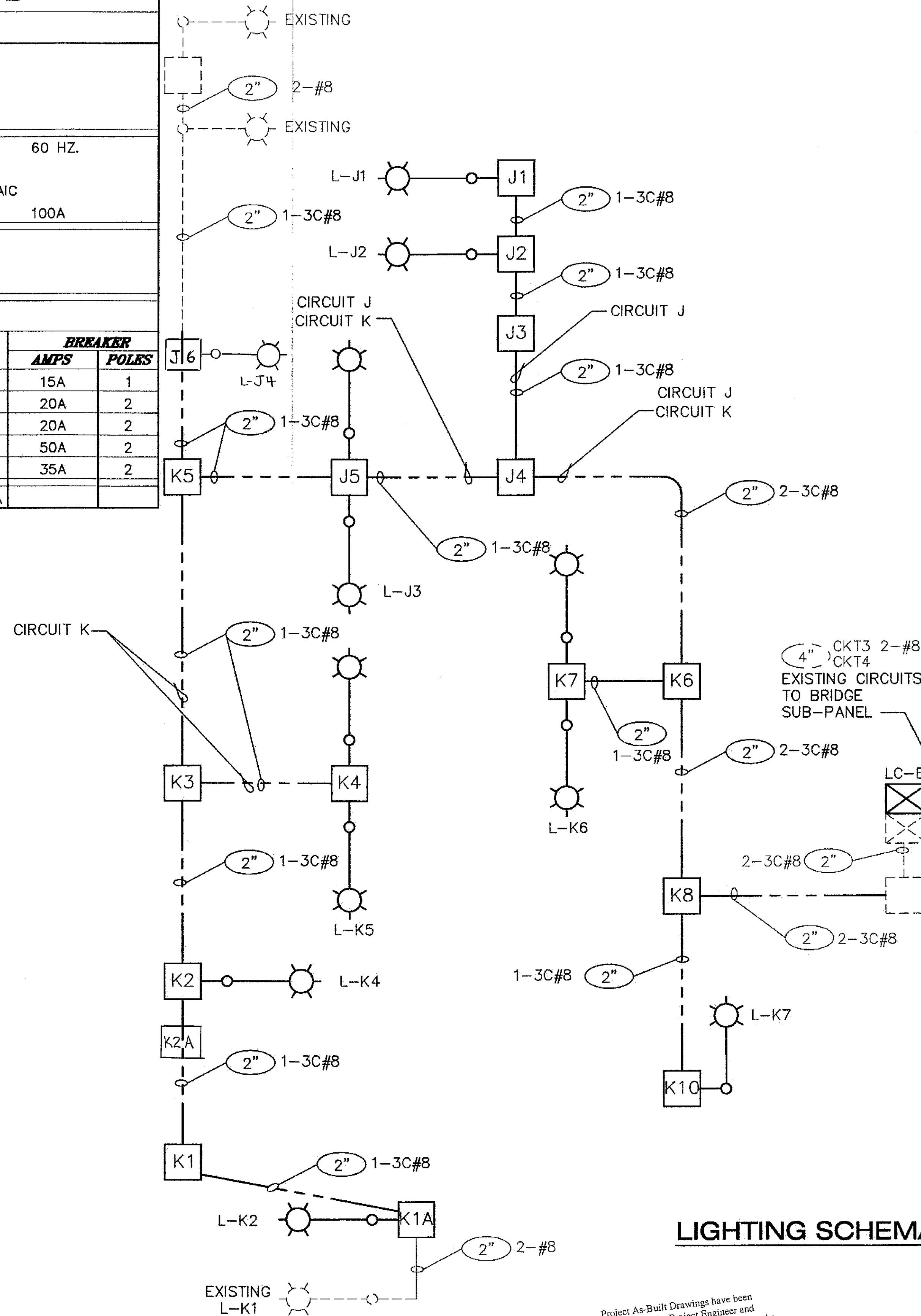
LOAD PANEL A SUMMARY

CIRCUIT DESCRIPTION	VOLTAGE	KVA LOAD	BREAKER AMPS	POLES
PHOTO ELECTRIC CONTROL, HEAT STRIP (EX. LIGHTING 120 CENTER)	120	0.80	15A	1
STREET LIGHTING J	480	1.75	20A	2
STREET LIGHTING K	480	2.00	20A	2
EXISTING BRIDGE LIGHTING	480	2.00	50A	2
EXISTING INSIDE BRIDGE LIGHTING	480	15.0	35A	2
TOTAL DEMAND LOAD:		21.3 KVA		

SEE SHEET L6 FOR LIVE DIAGRAM OF LOAD CENTER AND STEP DOWN TRANSFORMER

LOAD SUMMARY FOR LOAD CENTER B

NOT TO SCALE



LIGHTING SCHEMATIC FOR LOAD CENTER B

NOT TO SCALE

NOTES

1. A BARE STRANDED GROUND CONDUCTOR SHALL BE INSTALLED IN ALL CONDUIT AND ATTACHED TO POLES, CONDUIT AND BUSHINGS, ETC.
2. ABANDONED J-BOXES SHALL BE REMOVED AND DELIVERED TO THE S.E. REGION DOT/PF MAINTENANCE YARD. ABANDONED CONDUIT SHALL BE LEFT IN PLACE OR REMOVED AS DIRECTED BY THE ENGINEER.
3. SEE SHEETS M1-M5 FOR PERMANENT TRAFFIC RECORDER.

LEGEND

	CONTROLLER CABINET
	LOAD CENTER (LC-X)
	TYPE IA J-BOX
	TYPE II J-BOX
	TYPE III J-BOX
	RIGID METAL CONDUIT
	LUMINAIRE (L-XX)

LOW VOLTAGE SIGNAL CONDUCTOR

1C#14	LOOP WIRES
2C#14	LOOP LEAD-IN
2C	PEDESTRIAN PUSH BUTTON
6PR	MULTI-LOOP LEAD-IN

120 VOLT SIGNAL CONDUCTOR

5C	PEDESTRIAN AND STANDARD SIGNAL HEADS
7C	5 SECTION SIGNAL HEADS

LIGHTING AND POWER CONDUCTOR

3C#X	LIGHTING OR SIGNAL POWER
------	--------------------------

THE NUMBER PRECEEDING THE CABLE DESIGNATION INDICATES THE NUMBER OF CABLES TO BE INSTALLED

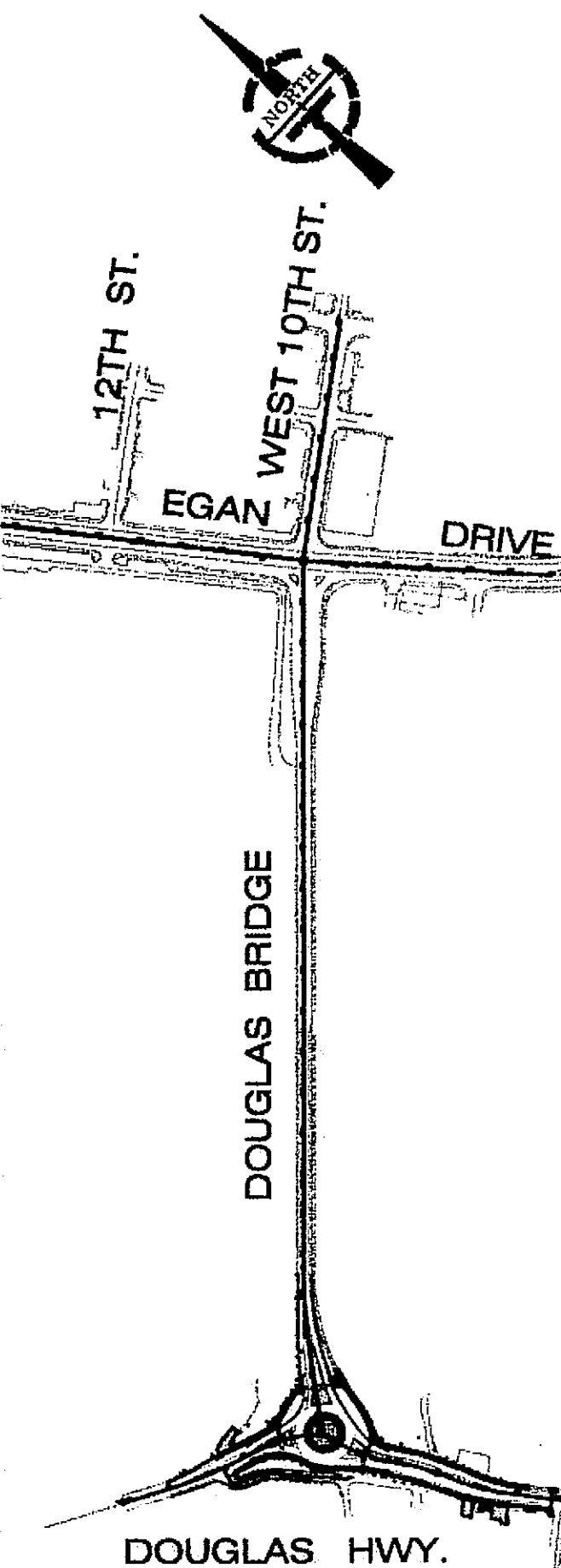
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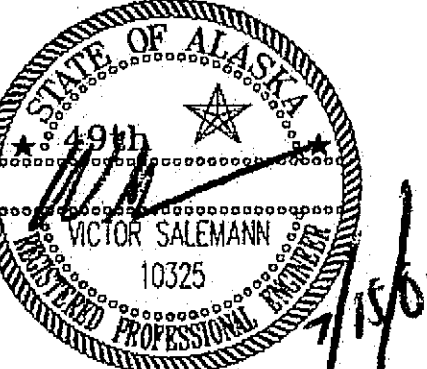
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: J.PRZYCHODZEN



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

WIRING DIAGRAM

PROJECT DESIGNATION NUMBER

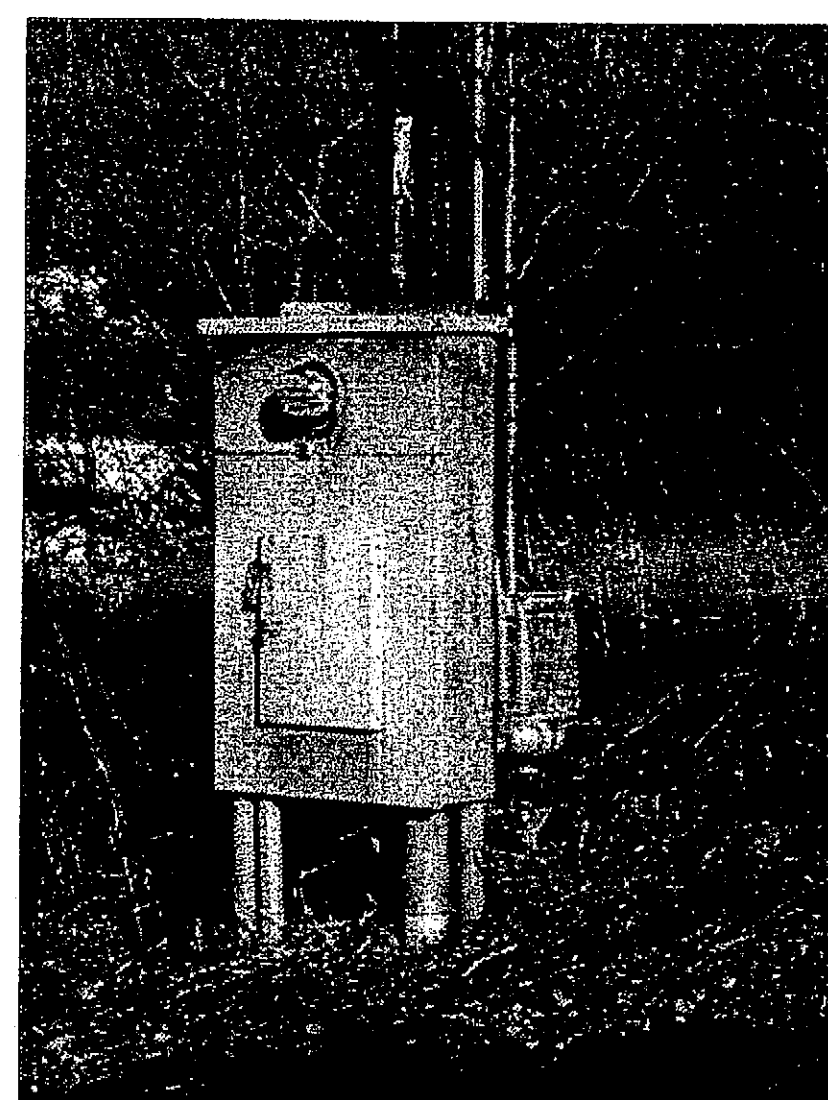
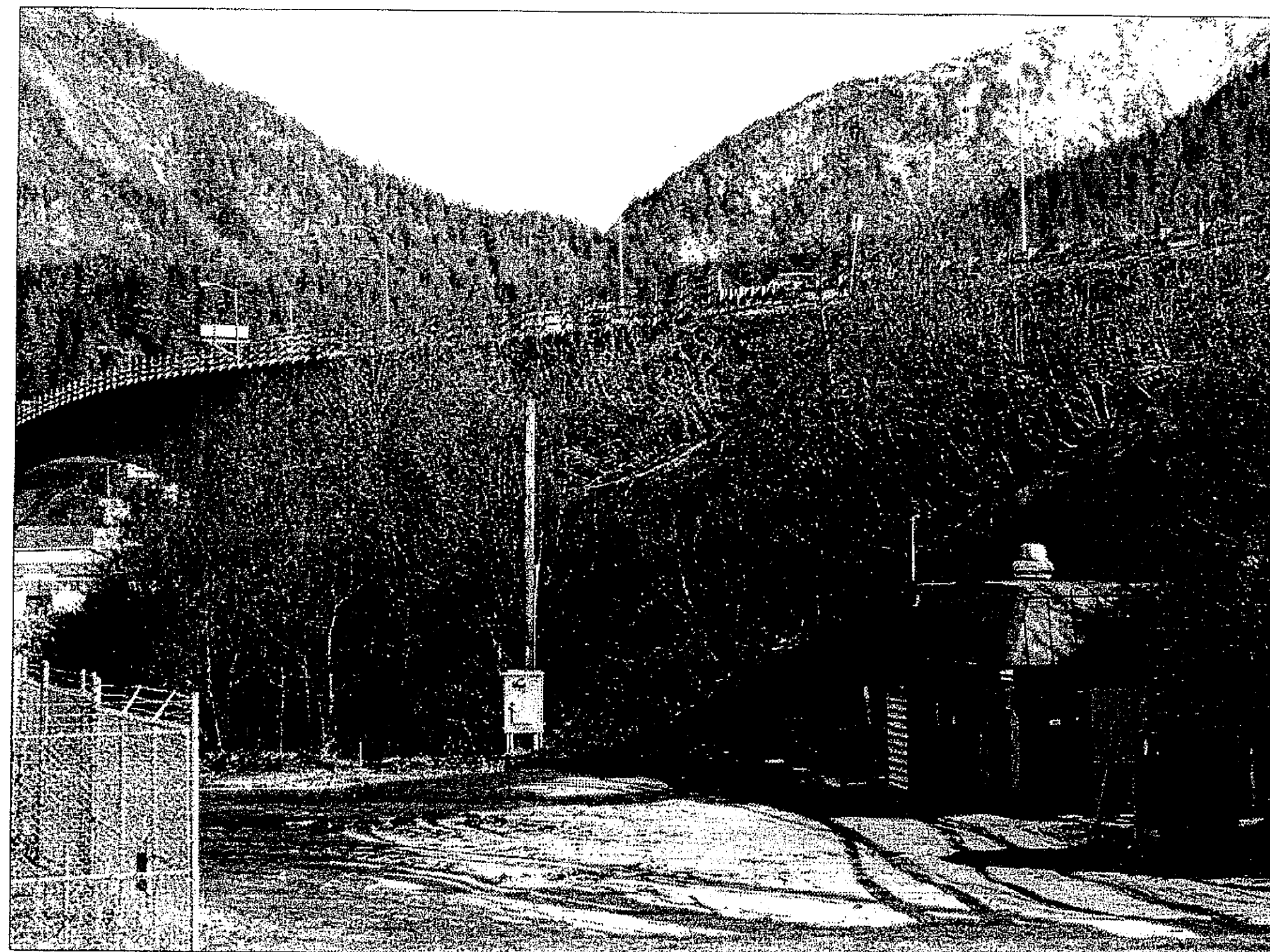
NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
L5	

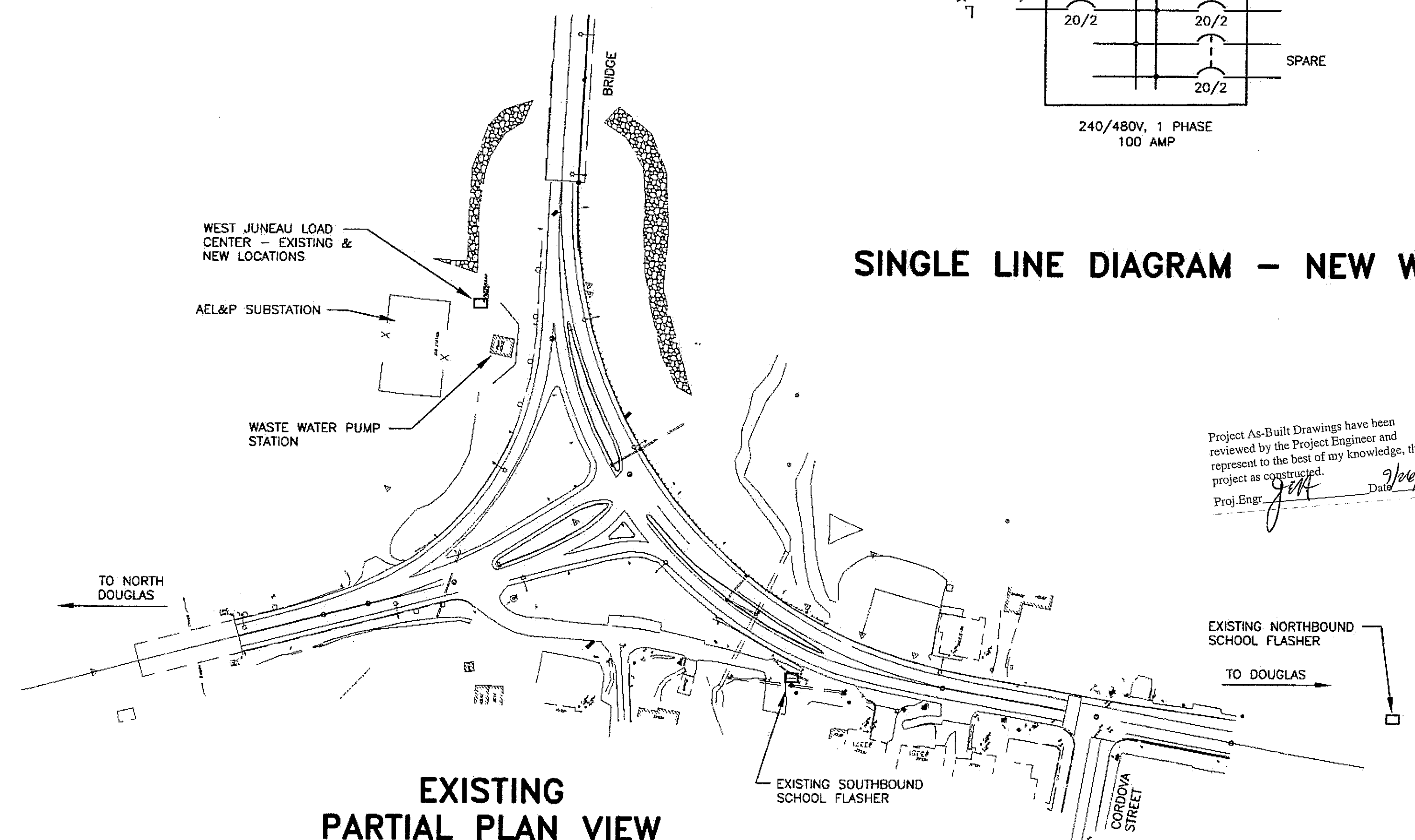


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415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date 9/26/07

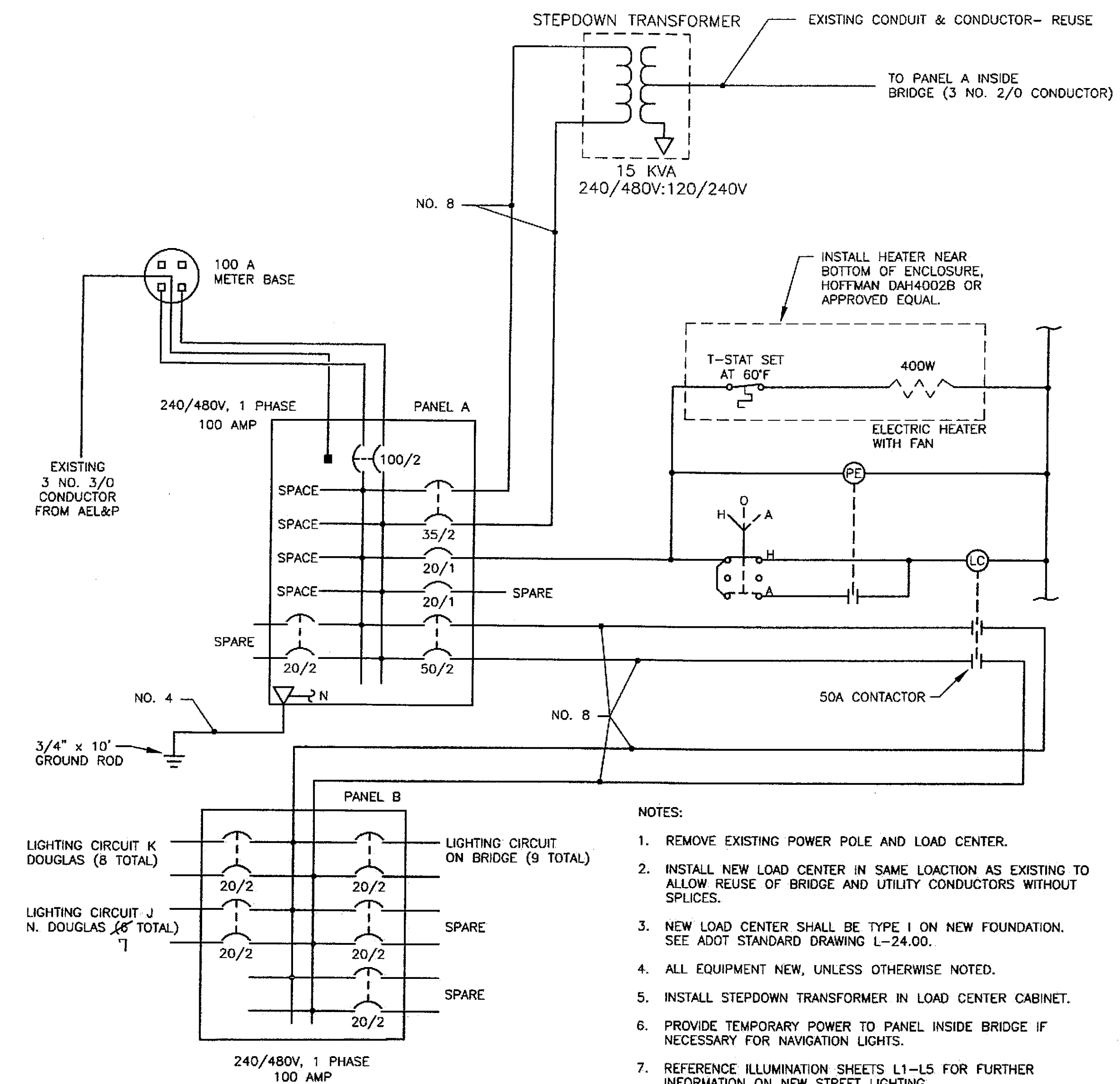


PHOTOS - EXISTING
WEST JUNEAU
LOAD CENTER



EXISTING
PARTIAL PLAN VIEW

SINGLE LINE DIAGRAM - NEW WEST JUNEAU LOAD CENTER

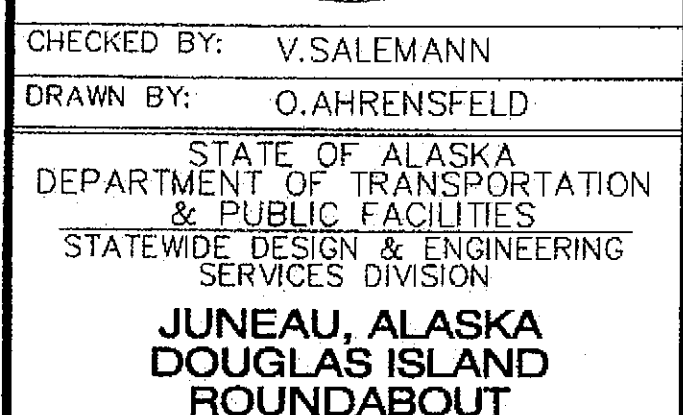
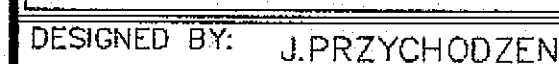
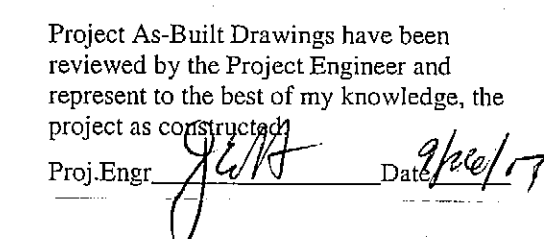
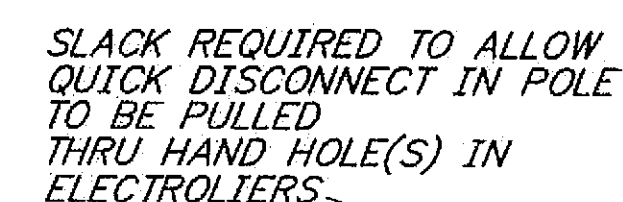


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RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
DOUGLAS HWY.		
DESIGNED BY: MAUREEN SAMS		
CHECKED BY: BEN HAIGHT		
DRAWN/REVISED BY: M. SAMS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION JUNEAU, ALASKA DOUGLAS ISLAND ROUNDBOUT		
POWER DIAGRAM		
PROJECT DESIGNATION NUMBER		
NH-F-093-3-2(29)-70168		
STATE	YEAR	
ALASKA	2004	
SHEET NUMBER	TOTAL SHEETS	
L6		

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



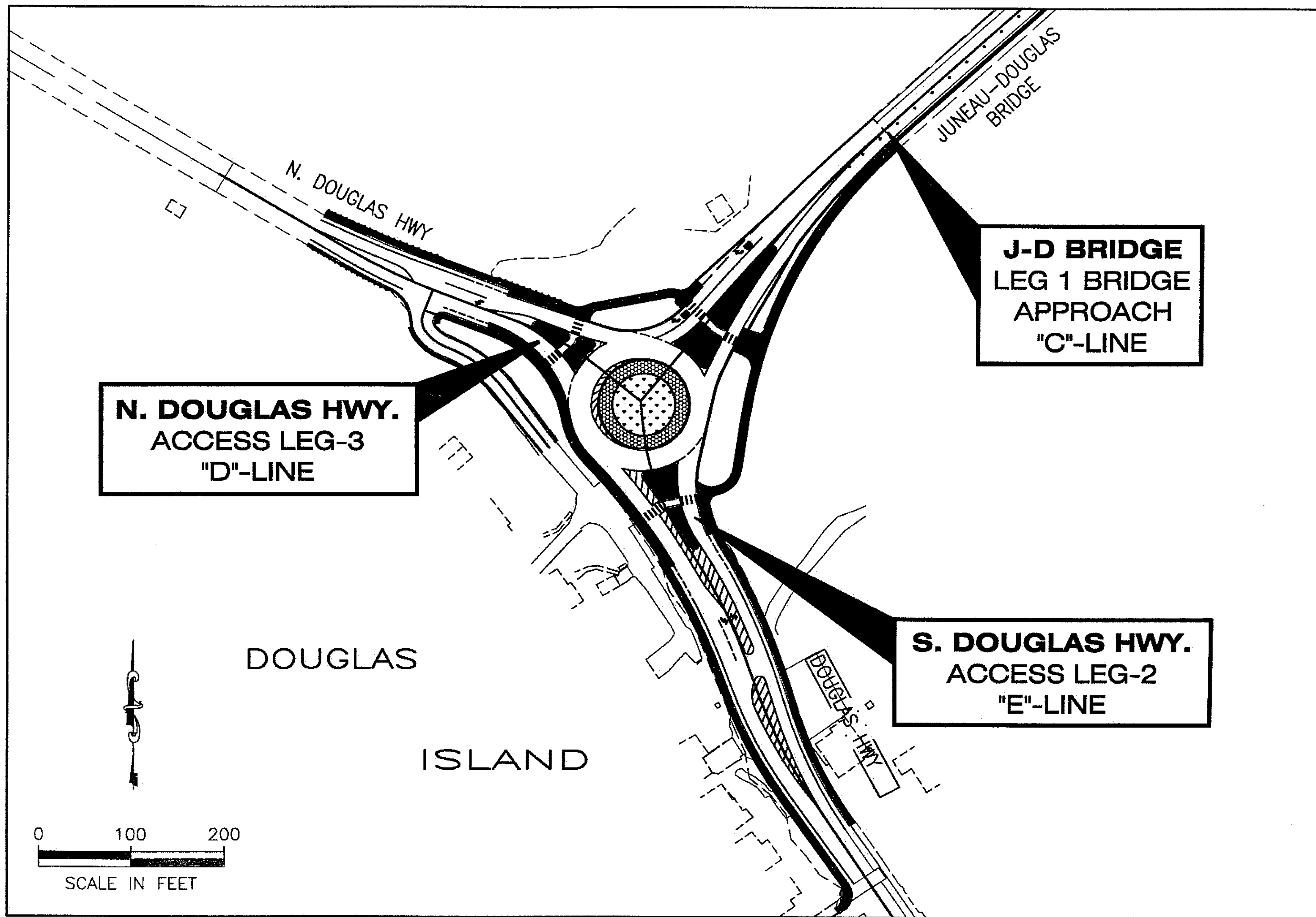
1. ALL WIRING SHALL BE ENCASED IN RIGID METAL CONDUIT AS SHOWN.
2. ALL JUNCTION BOXES SHALL BE TYPE 1-A, EXCEPT AT LOAD CENTERS, SEE STANDARD DWG. NO. L-23.01.
3. A BARE STRANDED GROUND CONDUCTOR SHALL BE INSTALLED THROUGH ALL CONDUITS. THE GROUND CONDUCTOR SHALL BE ATTACHED TO ALL CONDUIT END BUSHINGS AND POLES.
4. NEW ELECTROLIER FOUNDATIONS MAY BE PRE-CAST. PRE-CAST FOUNDATIONS SHALL BE TRANSPORTED USING A DEVICE THAT SPREADS THE LOAD EVENLY BETWEEN THE ANCHOR BOLTS.
5. INSTALL THE PHOTOELECTRIC CELL ON TOP OF THE LOAD CENTER.
6. ILLUMINATION CIRCUIT WIRES SHALL BE NO. 8 AWG. 3-CONDUCTOR CABLE FOR ALL CIRCUITS UNLESS OTHERWISE SPECIFIED.
7. LUMINAIRES SHALL BE 480 VOLT, 250 WATT, HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, CUT-OFF, IES TYPE III AND SHALL HAVE MAGNETIC BALLASTS, AND HPS LAMPS WITH A 24,000 HOUR RATED LIFE.
8. INSTALL 1 SPARE 2" RIGID METAL CONDUIT FROM THE LOAD CENTER TO THE FIRST JUNCTION BOX.
9. NON-BREAKAWAY PORTIONS OF THE FOUNDATIONS SHALL NOT PROTRUDE MORE THAN 4 INCHES ABOVE ANY CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.
10. LUMINAIRE MAST-ARMS SHALL BE 15' LONG UNLESS OTHERWISE NOTED.
11. NEW LUMINAIRES SHALL HAVE A 35' MOUNTING HEIGHT.
12. SALVAGE AND/OR REMOVE AND DISPOSE EXISTING ELECTROLIERS AS DIRECTED BY THE ENGINEER.



ILLUMINATION DETAILS

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
L7	



PROJECT SITE PLAN

NTS

GENERAL NOTES:

1. CONTROLLER CABINET DOORS TO OPEN AWAY FROM ROADWAY.
2. USE FACTORY 90° ELBOWS TO/FROM J-BOXES ON ALL CONDUITS LARGER THAN 1".
3. NOT ALL CONDUITS MAY BE SHOWN IN DETAIL. ADD OTHERS AS REQUIRED AT NO ADDITIONAL COST.
4. PROVIDE PELCO 4 BOLT BREAK-AWAY BASE OR APPROVED EQUAL FOR THE CBA-1 CABINET.
5. PROVIDE CONDUIT DRAIN HOLES PER STANDARD SPECIFICATIONS SECTION 660-3.03.
6. SEE TYPICAL SECTIONS FOR DIMENSIONS.
7. INDUCTION LOOPS TO BE CENTERED IN TRAFFIC LANES.
8. DIMENSIONS ARE TYPICAL FOR ALL LANES.

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
669 (2)	AUTOMATED TRAFFIC COUNTER SYSTEM COMPLETE	L.S.	ALL REQ'D.

GENERAL NOTES (continued):

9. INSTALLATION OF EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT NEC, ALASKA DOT/PF STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.
10. EVERY EFFORT HAS BEEN MADE TO MAKE THE INFORMATION CONTAINED IN THESE DOCUMENTS COMPLETE AND ACCURATE, HOWEVER THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
11. USE ONLY RMC CONDUIT EXCEPT FOR THE POLYVINYL CHLORIDE (PVC) LOOPS.
12. ALL CONSTRUCTION SHALL BE WITHIN STATE RIGHT-OF-WAY.
13. UNUSEABLE EXCAVATION SHALL BE HAULED AND DISPOSED TO WASTE SITE. PER THE ENGINEER'S APPROVAL OF WHICH PAYMENT WILL BE INCIDENTAL TO ITEM 669(2).
14. THE CONTRACTOR SHALL MARK THE TRENCH PLACING WARNING TAPE OVER UNDERGROUND CONDUIT.
15. SINGLE 6' x 8' INDUCTIVE LOOP PER LANE WITH 200' TAIL ON ALL LEGS.

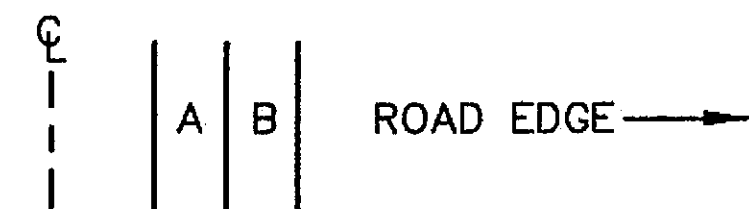
LABELS

ALL CABLES SHALL BE LABELED AT BOTH ENDS AND AT EVERY JUNCTION BOX THROUGH WHICH THE CABLES PASS, PER SPECIFICATION SECTION 660-3.05.

ALL WIRE PAIRS SHALL BE LABELED AT THE TERMINAL BLOCK AND AT ANY LOOSE ENDS.

THE CONVENTIONS BELOW SHALL APPLY TO DESIGNATING AND LABELING CABLES AND WIRE PAIRS.

LANES: TRAFFIC LANES AND THEIR RESPECTIVE LOOPS AND SENSORS SHALL BE LABELED FROM THE OUTSIDE EDGE OF THE ROAD TOWARD THE CENTER AS FOLLOWS:



TERMINAL BLOCKS: WIRES FROM SENSORS PLACED IN LANES WHICH ARE CLOSED TO THE CONTROL BOX SHALL BE PLACED AT THE LEFT OR AT THE TOP OF THE TERMINAL BLOCK, DEPENDING ON ORIENTATION.

WIRES FOR INDUCTIVE LOOP, SENSORS AND RESERVES SHALL BE LABELED AS FOLLOVED:

PnDLc

WHERE:

- P IS THE PREFIX:
V = TRAFFIC VOLUME LOOP
N NUMBER SUFFIX FOR MULTIPLE LOOPS IN THE SAME LANE
D DIRECTION (N,S,E,W)
L IS THE PREFIX FOR ROAD DESIGNATION
L = LANE*
LP = LOOP **
RMC- RIGID METAL CONDUIT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. [Signature] Date 9/26/07

REFERENCE SPECIFICATIONS

ALL WIRING IN THIS SECTION SHALL BE CONSTRUCTED PER SPECIFICATION SECTION 660 AND 740, EXCEPT WHERE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS. IN PARTICULAR, ALL CONSTRUCTION SHALL CONFORM TO SPECIFICATION SECTIONS 660-2.05 CONDUIT, 660-2.06 JUNCTION BOXES, 660-2.08 CONDUCTORS, 660-2.09(A) WIRING, 660-2.10 BONDING AND GROUNDING, AND 660-3.01 FIELD TESTS, EXCEPT AS MODIFIED BY SECTION 669 AUTOMATED TRAFFIC RECORDERS.

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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168
PTR SITE LAYOUT/
ESTIMATE OF QUANTITIES

DESIGNED BY: Paul Jones



CHECKED BY: Ken Mattson

DRAWN BY: Dave Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

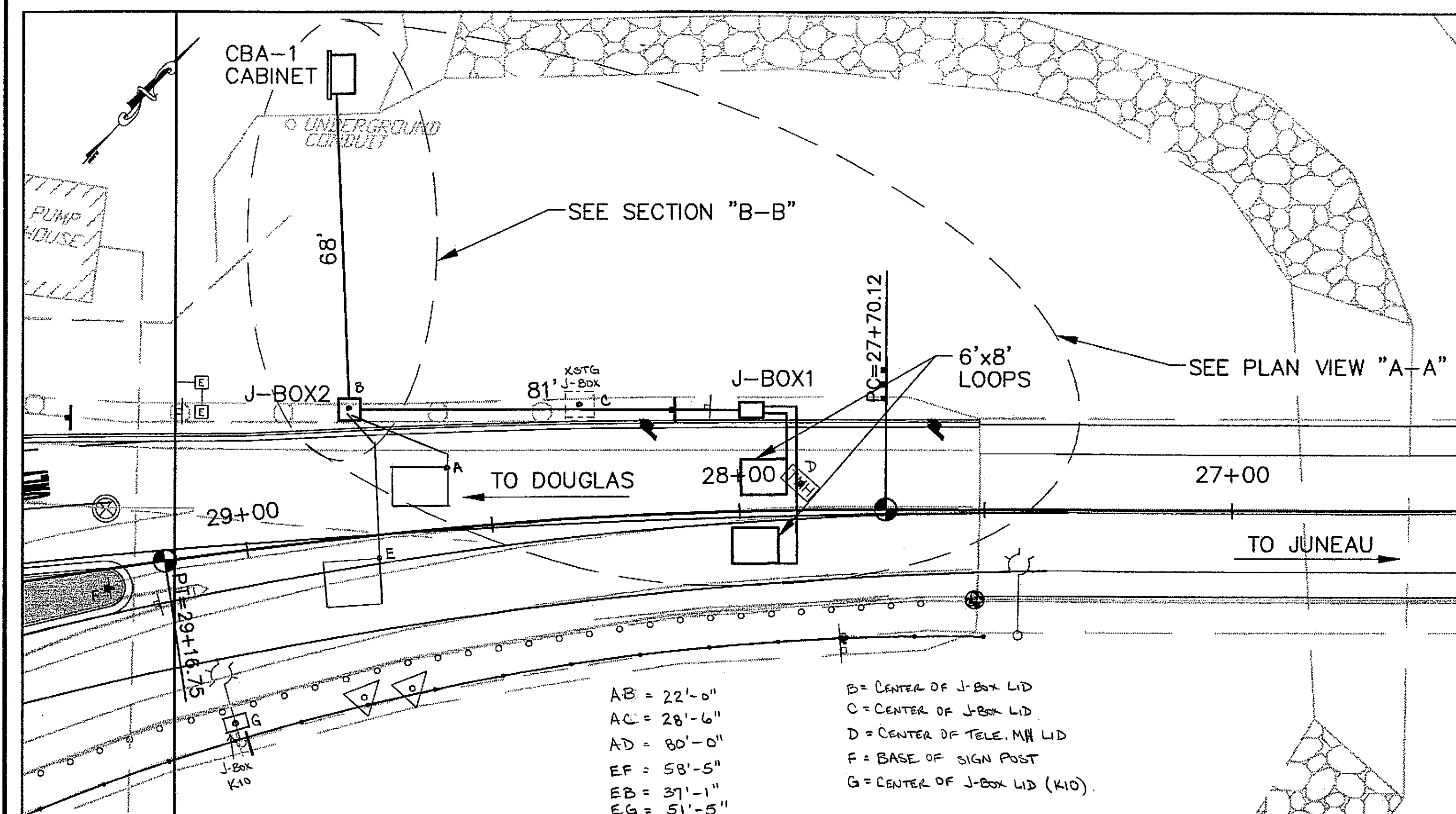
JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168

PTR SITE LAYOUT/
ESTIMATE OF QUANTITIES

PROJECT DESIGNATION NUMBER

NH-F-093-2(29)-(70168)

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
M1	



JUNEAU DOUGLAS BRIDGE APPROACH LEG-1 SITE PLAN

**JUNEAU DOUGLAS BRIDGE
APPROACH LEG-1**

ROUTE NO 296110

ATR ASSEMBLY SCHEDULE						
CDS MILEPOST	CABINET OFFSET <1>	CABINET ASSEMBLY STYLE	INDUCTIVE LOOPS (QTY.)	LOAD CENTER & TYPE	ELECTRICAL & TELEPHONE SERVICE	TEMPERATURE SENSOR PROBE
0.351	"C"-LINE STA. 28+71 94' RT.	CBA-1 24" CABINET	2	NONE	NONE	NONE

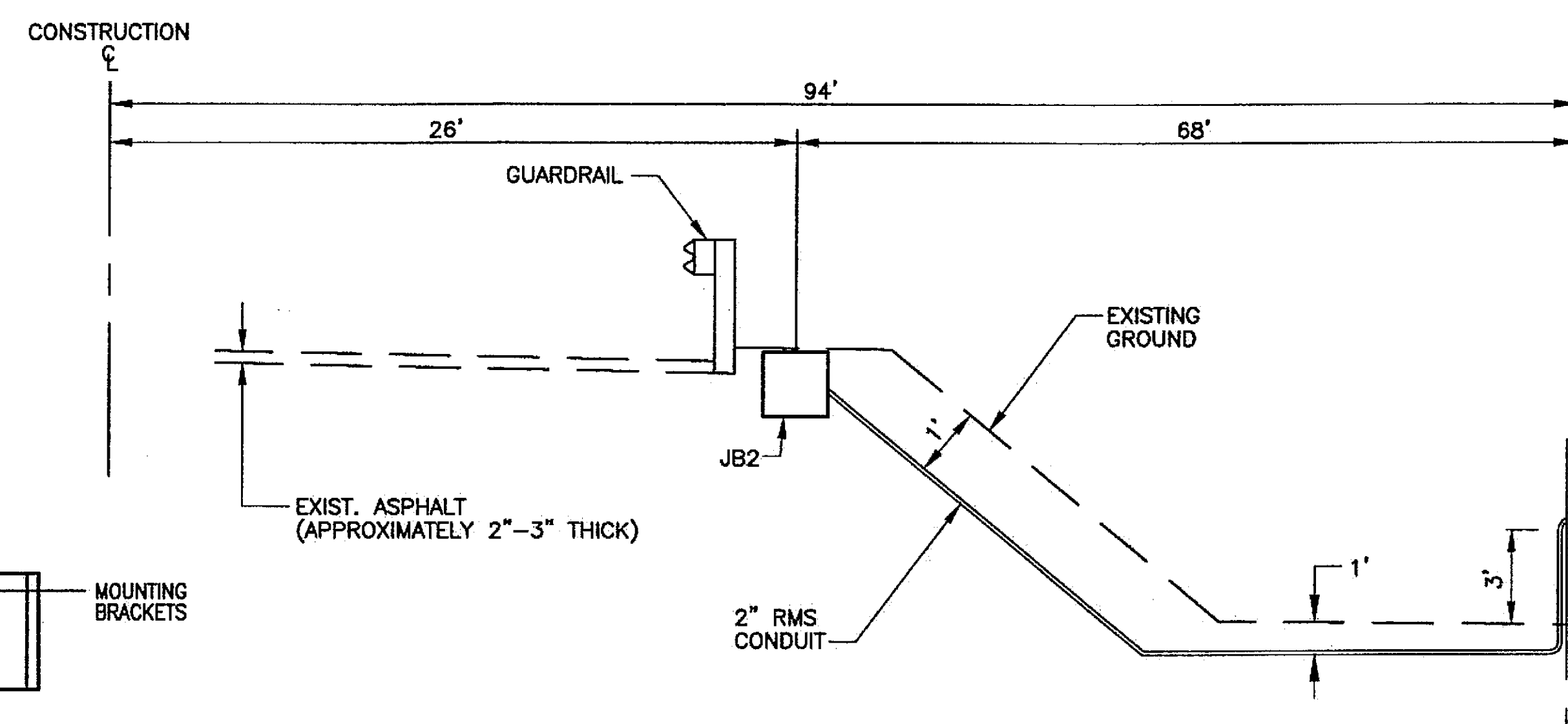
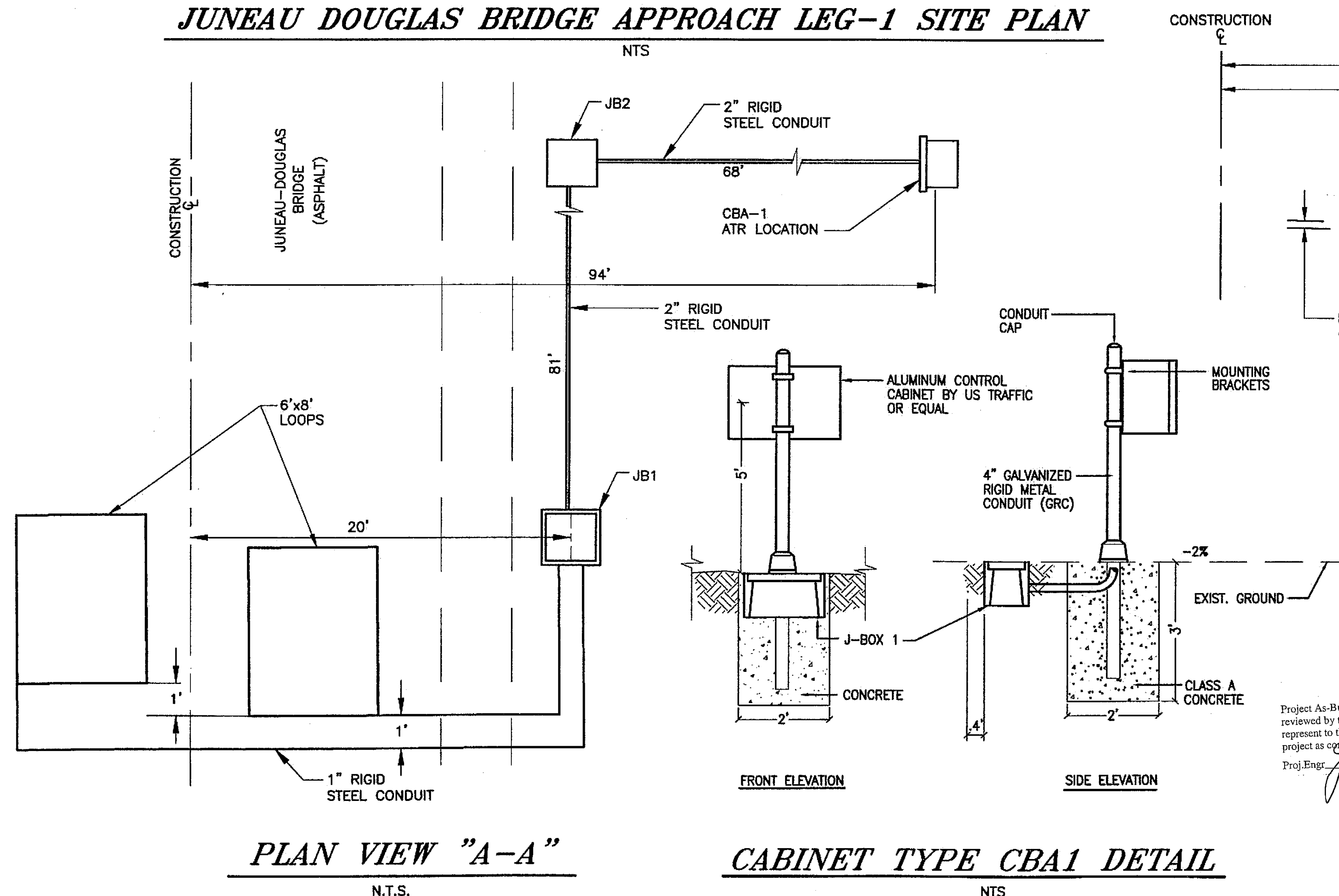
<1> CABINET OFFSET AS MEASURED FROM THE CENTERLINE, TO BE FIELD ADJUSTED PER THE ENGINEER.

SHEET NOTES

1. SEE TYPICAL SECTIONS FOR DIMENSIONS.
2. INDUCTION LOOPS TO BE CENTERED IN TRAFFIC LANES.
3. SEE SUMMARY SHEET SCHEDULE.
4. DIMENSIONS ARE TYPICAL FOR ALL LANES.

CONDUIT NO.	SIZE	FROM	TO	CABLE QTY.	CABLE TYPE
1	2"		JB1	2	6PR No.18
2	1"	JB1	NB-2	1	1PR No.14
3	1"	JB1	NB-2	1	1PR No.14
4	1"	JB1	SB-1	1	1PR No.14
5	1"	JB1	SB-2	1	1PR No.14

CONDUIT/CONDUCTOR SCHEDULE



**PROFILE VIEW
SECTION B - B**
NOT TO SCALE

JUNCTION BOX SUMMARY			
STA.	OFFSET	NUMBER	TYPE
27+97	20' RT.	JB1	1A
28+76	26' RT.	JB2	1A

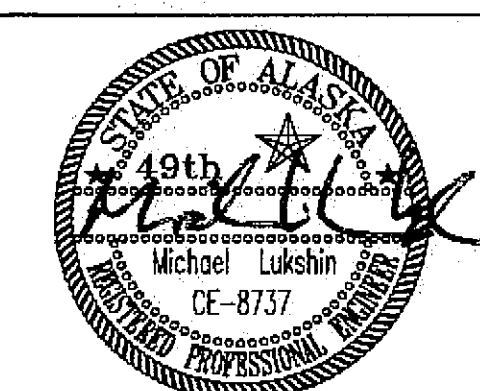
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FOR J-BX DETAILS.

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No.	DATE	DESCRIPTION

JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168
PTR SITE LAYOUT/
ESTIMATE OF QUANTITIES

DESIGNED BY: Paul Jones



CHECKED BY: Ken Mattson

DRAWN BY: Dave Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

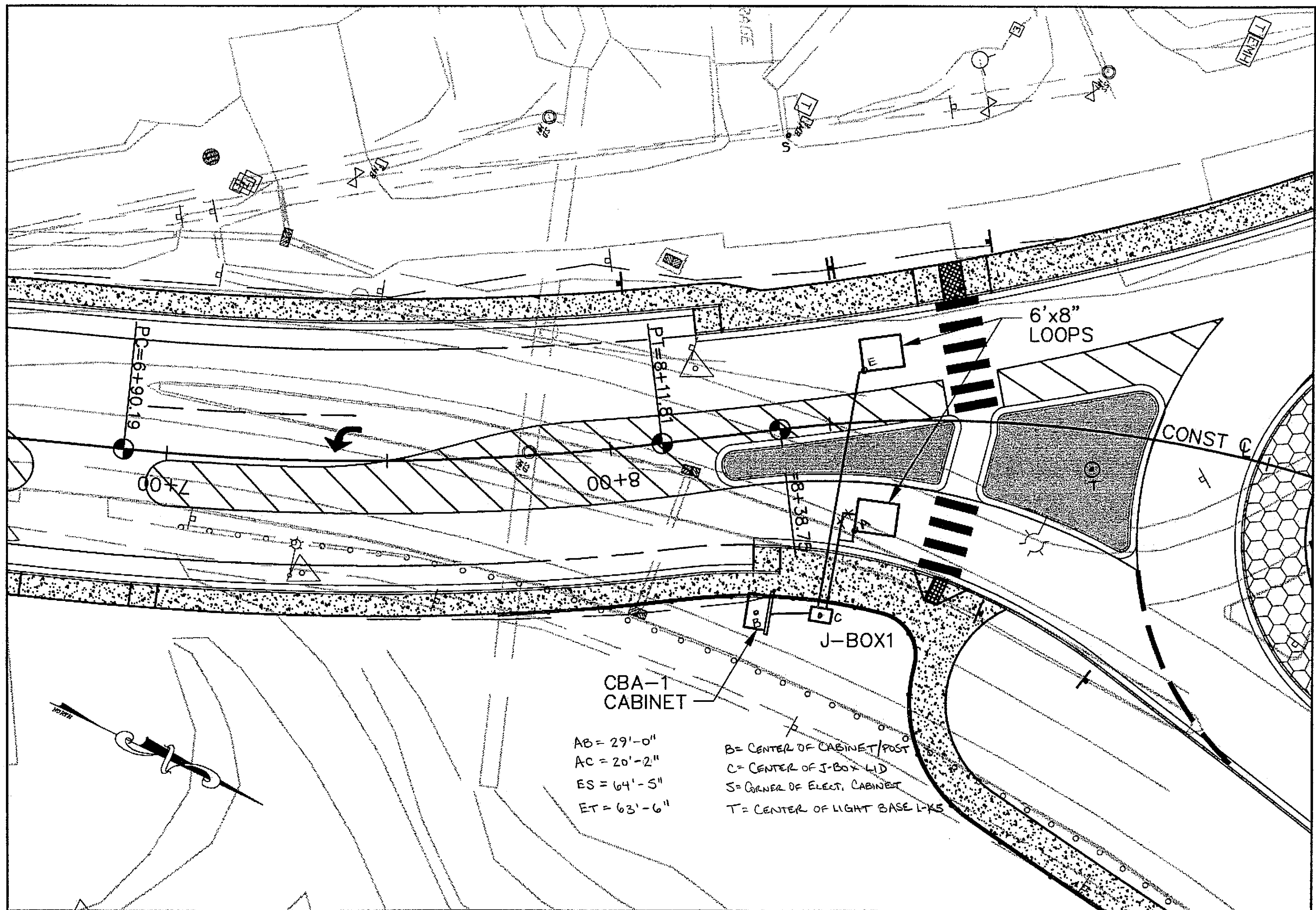
JNU-EGAN DR/ 10TH ST
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SHEET NUMBER	TOTAL SHEETS
M2	



SOUTH DOUGLAS HIGHWAY ACCESS LEG-2 SITE PLAN

NTS

**S. DOUGLAS HIGHWAY
ACCESS LEG-2**

ROUTE NO 296110

ATR ASSEMBLY SCHEDULE

CDS MILEPOST	CABINET OFFSET <1>	CABINET ASSEMBLY STYLE	INDUCTIVE LOOPS (QTY.)	LOAD CENTER & TYPE	ELECTRICAL & TELEPHONE SERVICE	TEMPERATURE SENSOR PROBE
0.351	"E"-LINE STA. 8+28, 40' RT.	CBA-1 24" CABINET	2	NONE	NONE	NONE

<1> CABINET OFFSET AS MEASURED FROM THE CENTERLINE, TO BE FIELD ADJUSTED PER THE ENGINEER.

JUNCTION BOX SUMMARY

STA.	OFFSET	NUMBER	TYPE
8+43	43' RT.	JB1	1-A

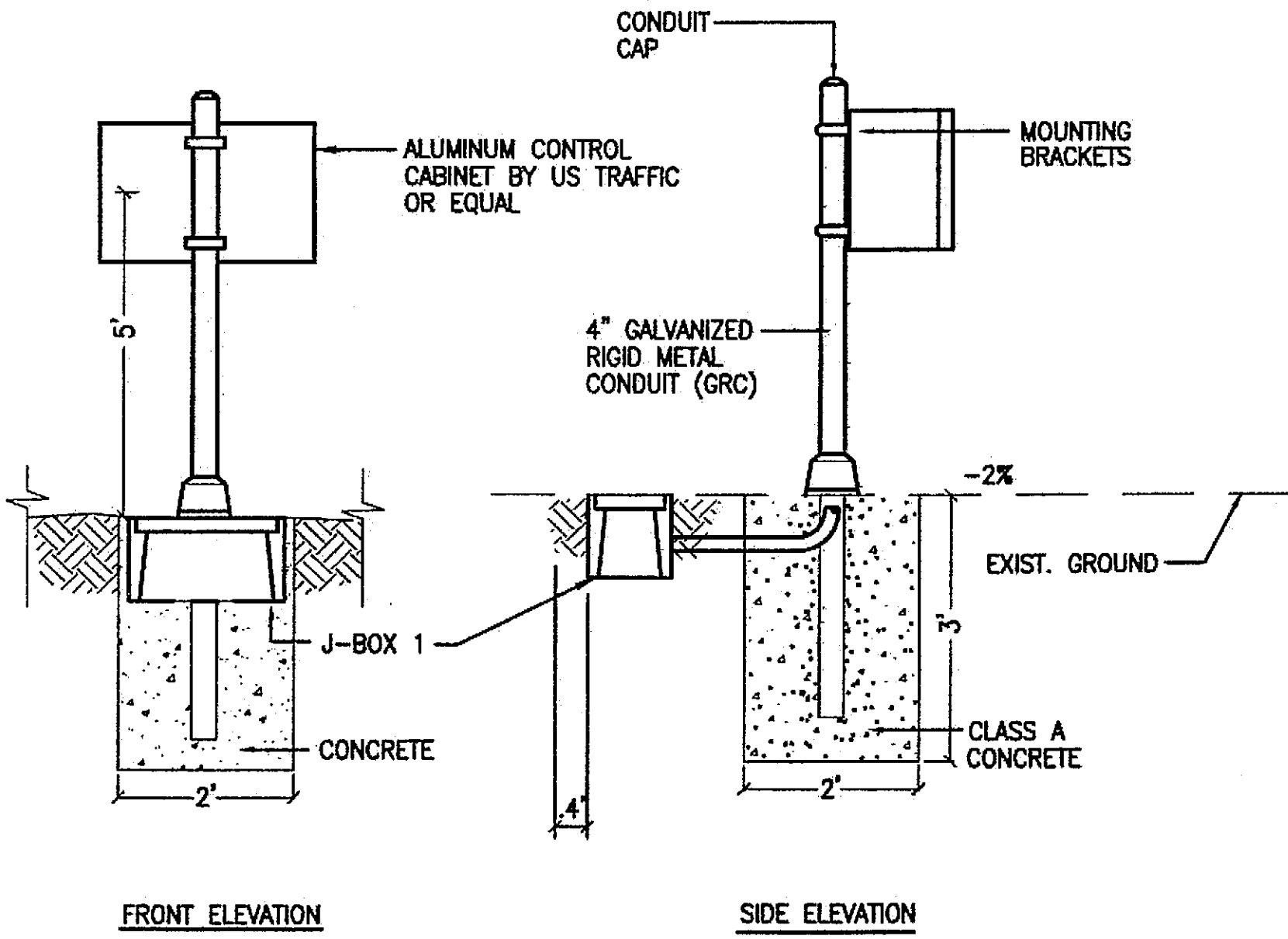
SEE STANDARD DRAWING 23.01
FOR J-BOX DETAILS.

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge, the
project as constructed.
Proj. Engr. *[Signature]* Date 9/24/17

TB-1			
1	NB-1	1PR #14	NB-1
2	NB-2	1PR #14	NB-2
3	SPARE		
4	SB-1	1PR #14	SB-1
5	SB-2	1PR #14	SB-2
6	SPARE		
7			
8			
9			
10			
11			
12			

CBA1 CABINET JB1

**WIRING SCHEMATIC DETAIL
LEG-2**



FRONT ELEVATION

SIDE ELEVATION

CABINET TYPE CBA1 DETAIL

NTS

PATH:
Q:\jnu\70168\TR\W-SUM-SHT.DWG
Wed, 21/Jul/04 09:42AM Irobertson
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB:

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168
PTR SITE LAYOUT/
ESTIMATE OF QUANTITIES

DESIGNED BY: Paul Jones



CHECKED BY: Ken Mattson

DRAWN BY: Dave Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

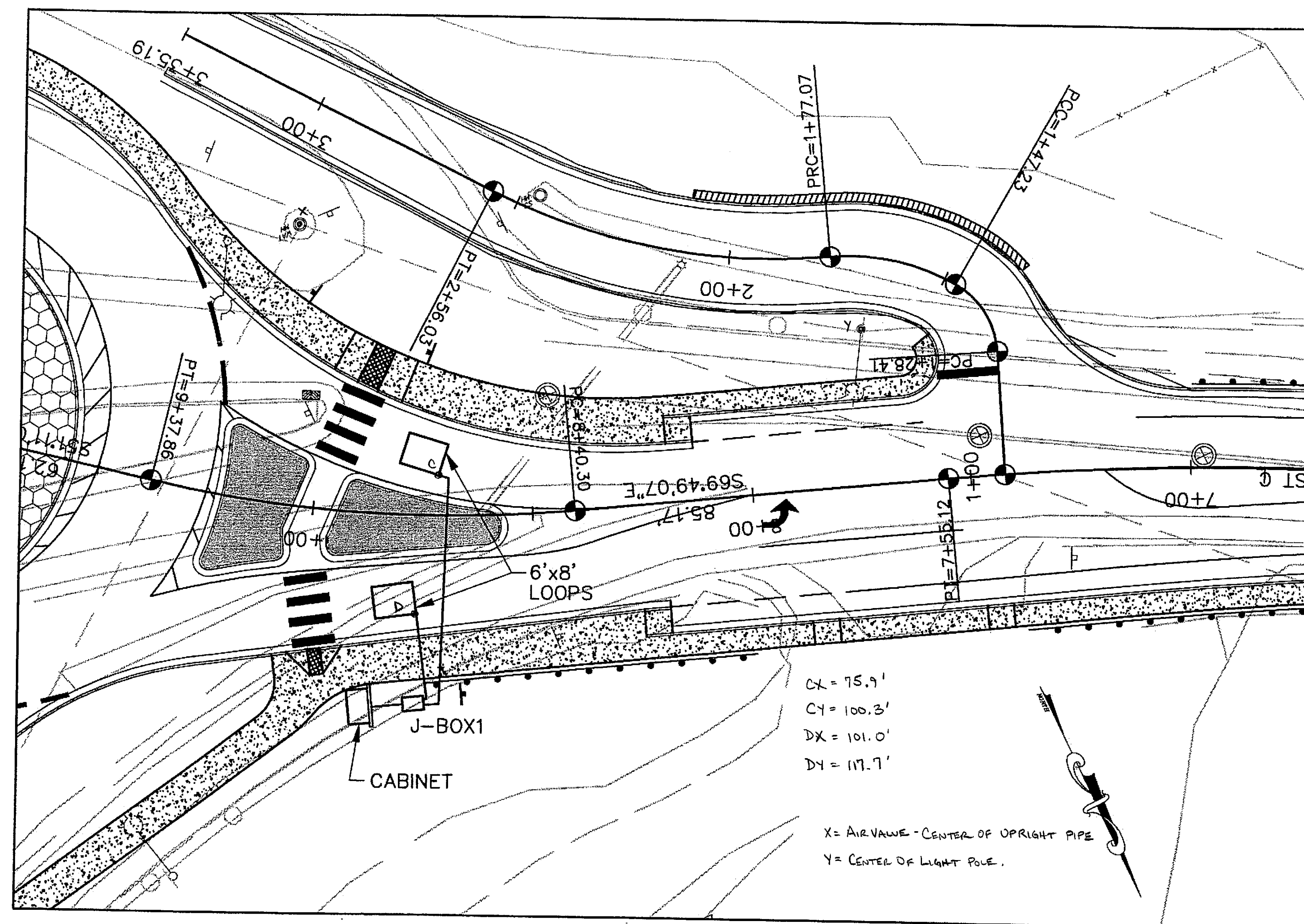
JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168

PTR SITE LAYOUT/
ESTIMATE OF QUANTITIES

PROJECT DESIGNATION NUMBER

NH-F-093-2(29)-(70168)

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
M3	

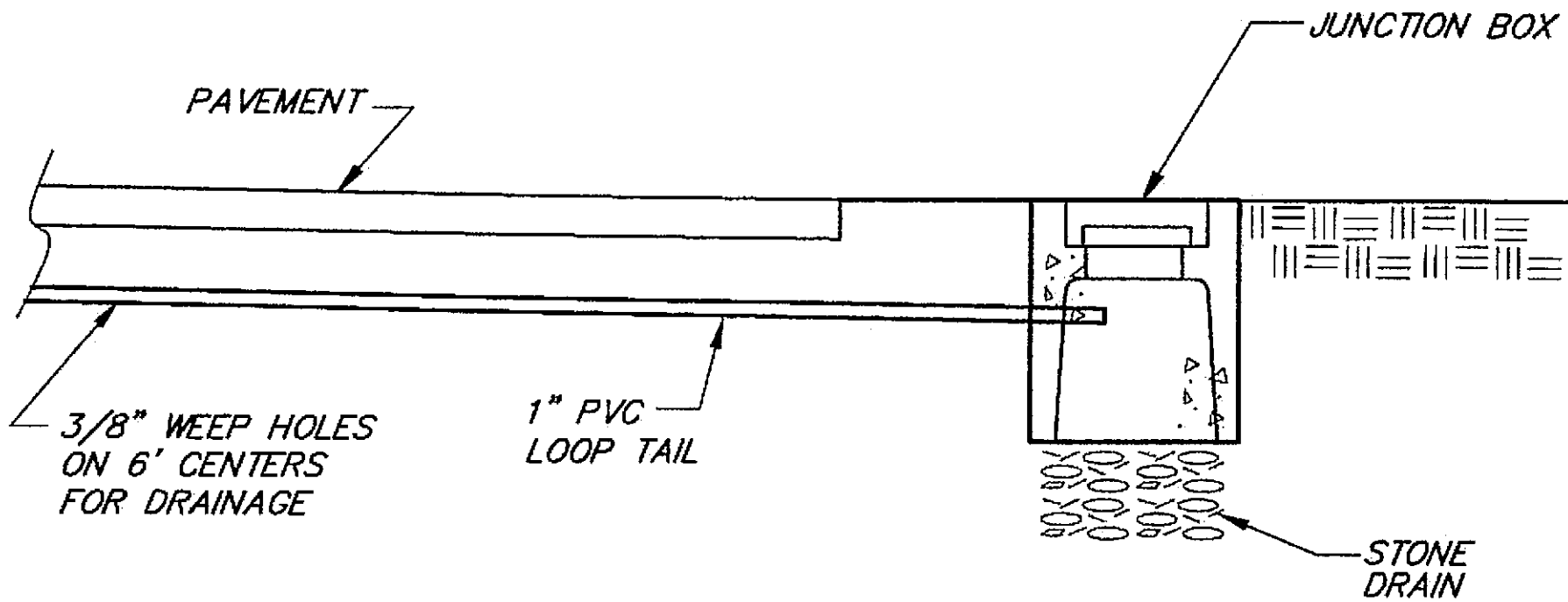


INDUCTIVE LOOPS

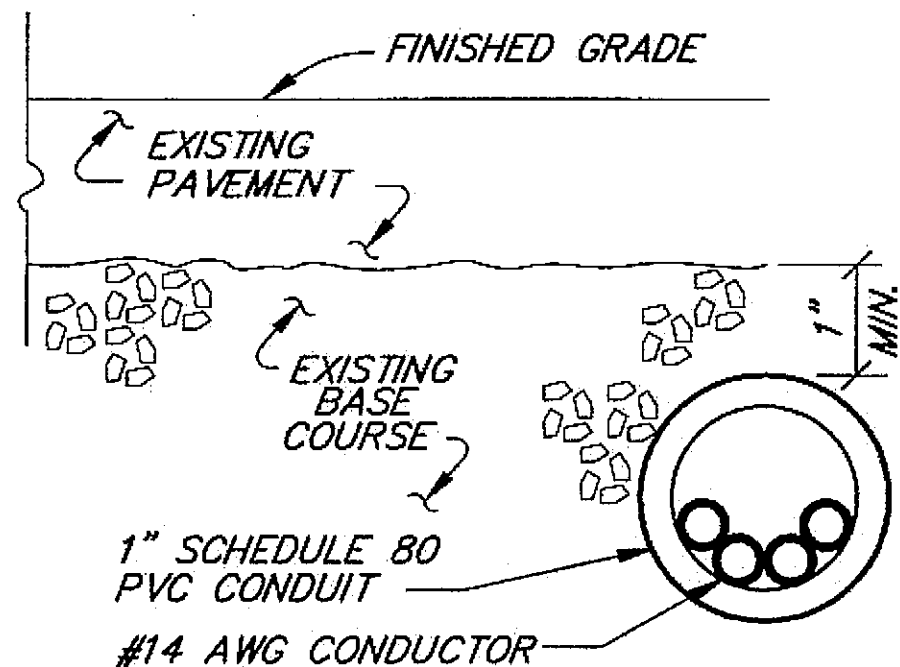
ALL INDUCTIVE LOOPS SHALL BE WOUND IN THE SAME DIRECTION WITH THE STARTING LEAD MARKED "S" PER SECTION 660-3.05.

LEAD-IN WIRES FOR EACH LOOP SHALL BE IN SEPARATE CONDUITS TO THE FIRST JUNCTION BOX. THESE CONDUITS SHALL BE SEPARATED FROM OTHER LOOPS BY A MINIMUM OF 12".

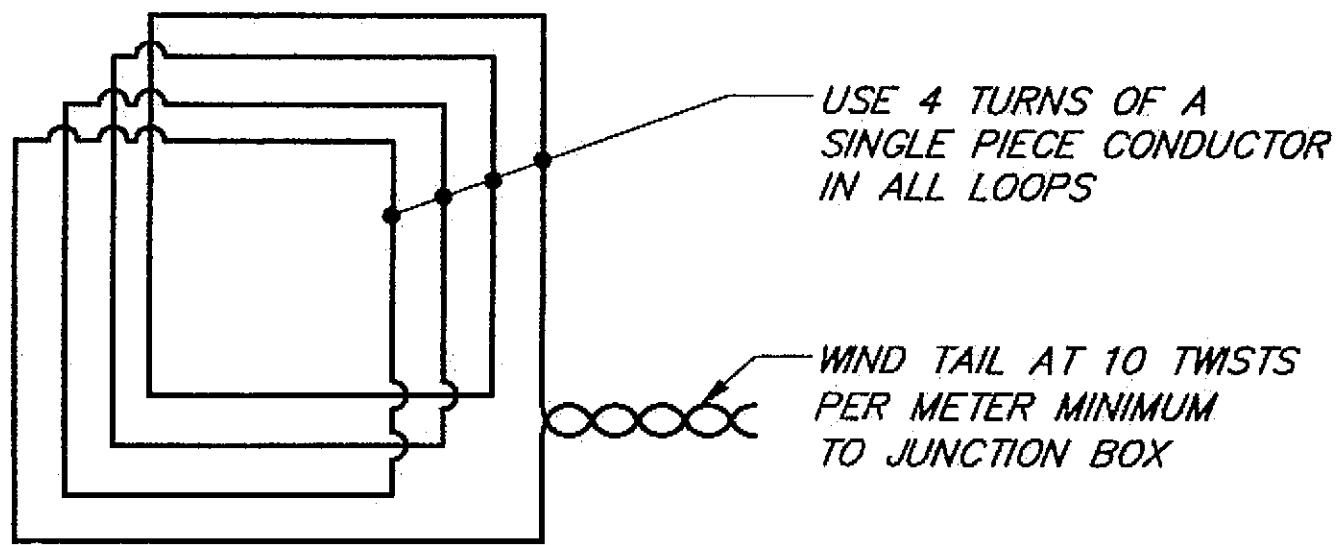
INDUCTIVE LOOPS SHALL BE INSTALLED IMMEDIATELY PRIOR TO PAVING THIS SECTION OF ROADWAY. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50' OF THE LOOPS.



NEW JUNCTION BOX SECTION

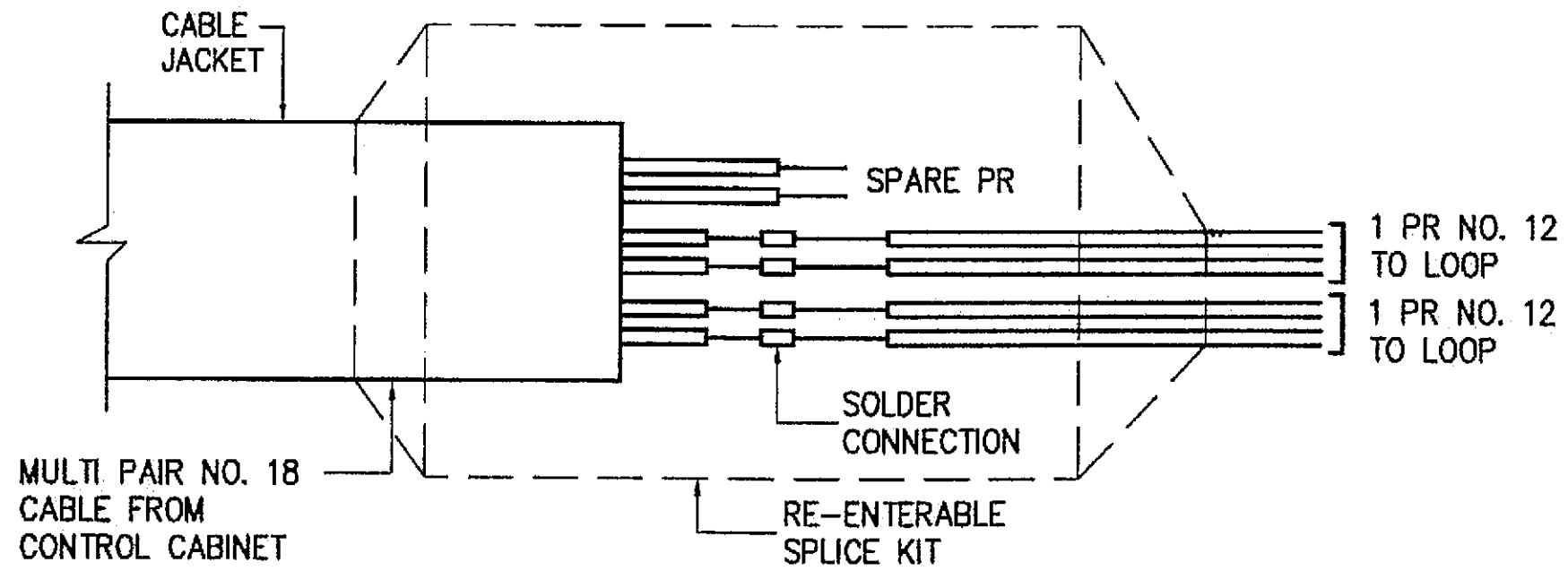


**CONDUIT DETAIL
LOOPS TO FIRST J-BOX**



LOOP WIRING DETAIL

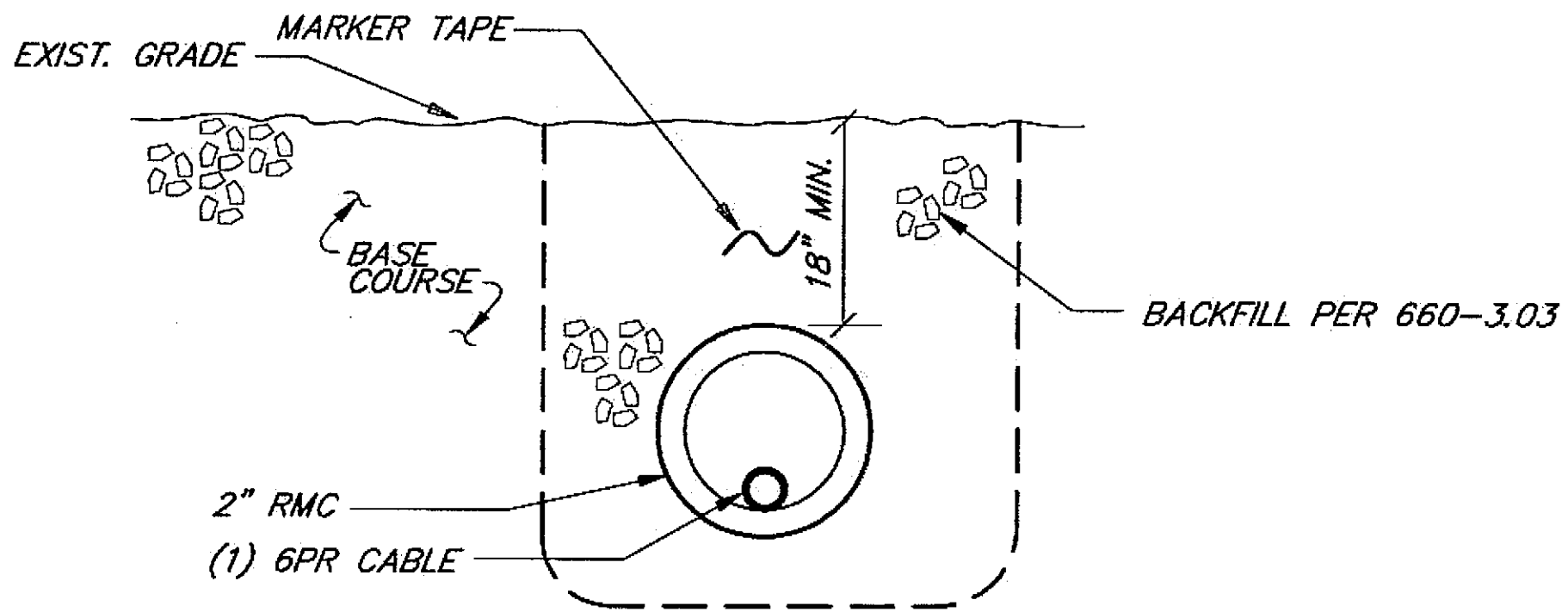
TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION



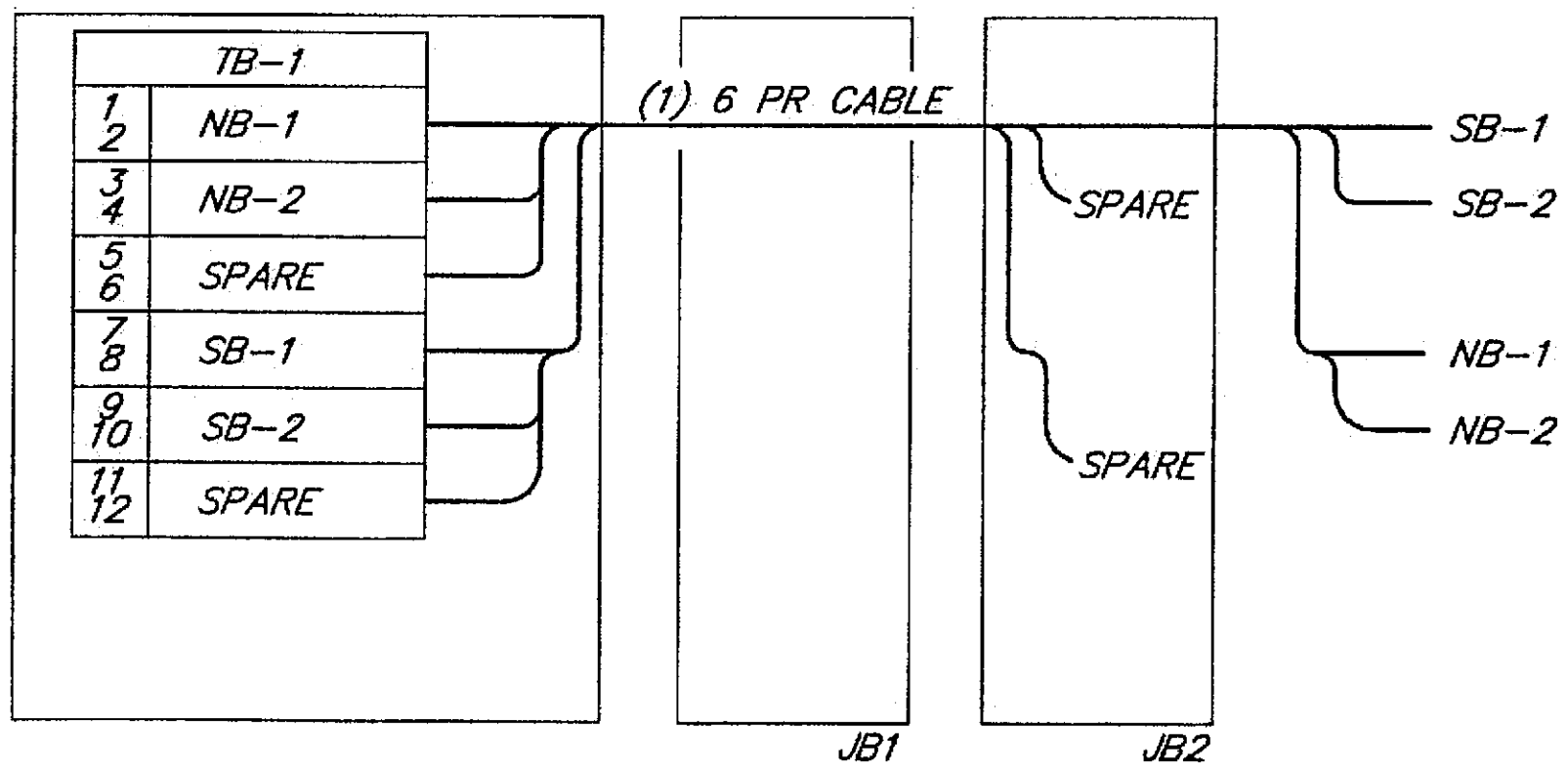
TYPICAL SPLICE DETAIL
LEG-1 ONLY

NOTES

1. SCHEMATIC SKETCH SHOWS AN EXAMPLE OF TWO PAIRS USED WITH ONE SPARE.
2. TERMINATE ALL SPARES WITHIN THE SPICE BODY.
3. SPICE BODY TO ENCLOSE ALL CABLE JACKETS.
4. SOLDER CONNECTIONS. DO NOT USE COMPRESSION CONNECTORS WRAP EACH CONDUCTOR OVER OTHER CONDUCTOR BEFORE SOLDERING.
5. USE COMMERCIAL SPICE KITS SIMILAR OR EQUAL TO 3M PRODUCTS, TYPE 82-F1.



FIRST J-BOX TO CABINET



WIRING SCHEMATIC

LEG-1

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

Proj. Engr. [Signature] Date 9/20/05

GENERAL NOTES

1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN 1" SCHEDULE 80 PVC CONDUIT. FORM ALL LOOPS 6' X 8' RECTANGULAR, SOLVENT WELD ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES THAT ARE MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 10 TWISTS PER METER.
3. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING EXISTING PAVEMENT OR PAVING A NEW ROADWAY.
4. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS.
5. ONE FOOT CLEARANCE IS REQUIRED BETWEEN A LOOP AND A TAIL. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
6. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY PRIOR TO SEALING THE LOOPS UNDER ASPHALT.
7. WHEN INSTALLING LOOP DETECTORS IN EXISTING PAVEMENT, CUT THE ASPHALT WITH A SAW AND REMOVE ALL ASPHALT WITHIN THE SAW CUT. MATCH EXISTING PAVEMENT THICKNESS WHEN REPAIRING THE CUTOUT.
8. WHERE EXISTING PAVEMENT WILL NOT BE OVERLAID, ENCLOSE ALL LOOPS THAT ENTER A COMMON JUNCTION BOX WITHIN A TRAPEZOIDAL SAW CUT. CUT TO WITHIN 12" OF THE LANE AND EDGE LINES, PRESERVING THESE PAVEMENT MARKINGS; REMOVE THE ASPHALT TO THE LIP OF THE GUTTER WHEN THERE ARE NO EDGE LINES. CUT ACROSS LANE LINES WHEN LOOPS IN ADJACENT LANES ARE SIDE BY SIDE. CUT TRENCHES A MINIMUM OF 1 METER WIDE WHEN INSTALLING LOOP TAILS ACROSS A LANE; TRENCHES CROSSING A SHOULDER ONLY MAY BE A MINIMUM 12" WIDE.
9. HEAT AND TACK COAT THE EDGES OF EXISTING PAVEMENT PRIOR TO PAVING THE CUTOUTS. COMPACT THE ASPHALT MIXTURE WITH A SELF PROPELLED STEEL WHEELED ROLLER. THE ASPHALT MIX SHALL CONFORM TO SECTION 401 OF THE SPECIFICATIONS, AND APPROVED FOR USE BY THE ENGINEER.
10. MAINTAIN THE REPLACEMENT ASPHALT MIX AT A TEMPERATURE OF 108° C UNTIL THE TIME OF APPLICATION; IF NECESSARY, STORE THE MIX IN AN INSULATED BOX TO MAINTAIN THE SPECIFIED TEMPERATURE.
11. ALL WORK ASSOCIATED WITH INSTALLING LOOP DETECTORS IS CONSIDERED PART OF THE TRAFFIC SIGNAL ITEM AND WILL NOT BE MEASURED SEPARATELY OR PAID FOR DIRECTLY. THIS WORK INCLUDES BUT IS NOT LIMITED TO: LOOP MATERIALS, JUNCTION BOXES, CONDUIT, LOOP LEAD IN CABLE, TESTING, SPLICING, CONDUCTOR LABELING AND SAW CUTTING. ASPHALT REMOVAL AND INSTALLATION OF NEW ASPHALT SHALL BE PAID UNDER THEIR RESPECTIVE PAY ITEMS.
12. TO ESTABLISH THE REFERENCE LINES, EXTEND THE RIGHT EDGES OF THE OUTERMOST THROUGH LANES ACROSS THE INTERSECTION. IF THE ROADWAY GEOMETRY IS CURVED, EXTEND THE CURVE THROUGH THE INTERSECTION.

PATH:
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TAB:

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISION:

No.	DATE	DESCRIPTION
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JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168

LOOP DETECTOR DETAILS

DESIGNED BY: Paul Jones



CHECKED BY: Ken Mattson

DRAWN BY: Dave Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168

LOOP DETECTOR DETAIL

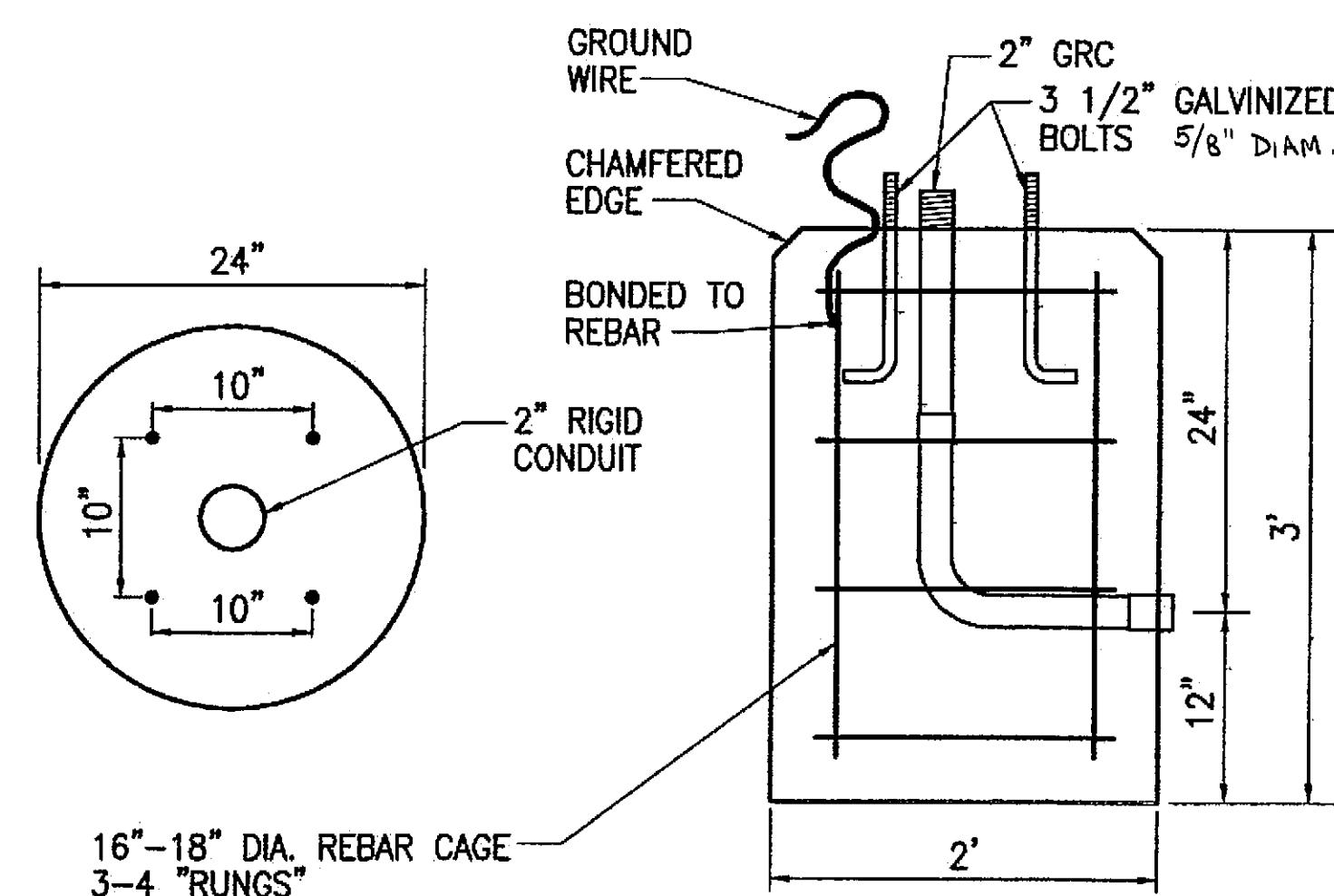
PROJECT DESIGNATION NUMBER

NH-F-093-2(29)-(70168)

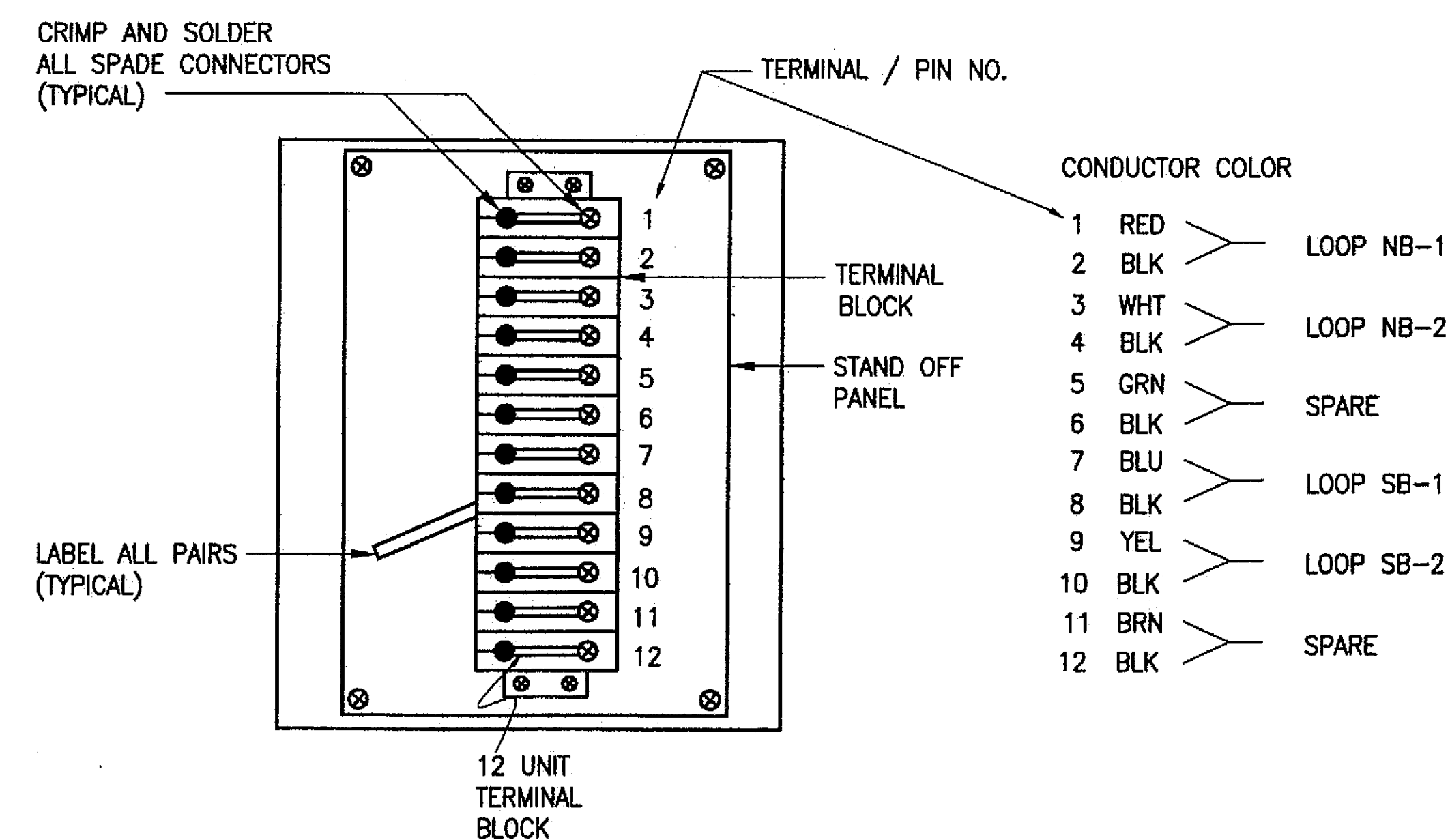
STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEET
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M5	??
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CABINET POST FOOTING DETAIL



TERMINAL BLOCK DETAIL (TYP.)

FRONT VIEW, DOOR OPEN

**L-1 SITE
L-2 SITE
L-3 SITE**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date *9/24/17*

PATH:
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ADDENDUM NUMBER

ATTACHMENT NUMBER

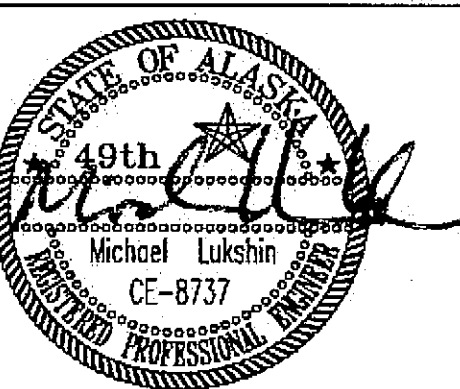
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168

MISCELLANEOUS DETAILS

DESIGNED BY: Paul Jones



CHECKED BY: Ken Mattson

DRAWN BY: Dave Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JNU-EGAN DR/ 10TH ST
INTERSECTION CAPACITY
IMPROVEMENTS
PROJECT NO. 70168

MISCELLANEOUS DETAILS

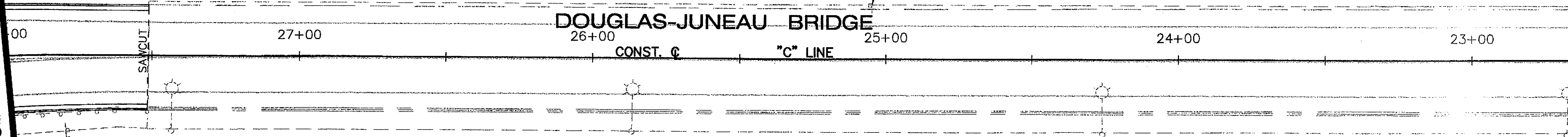
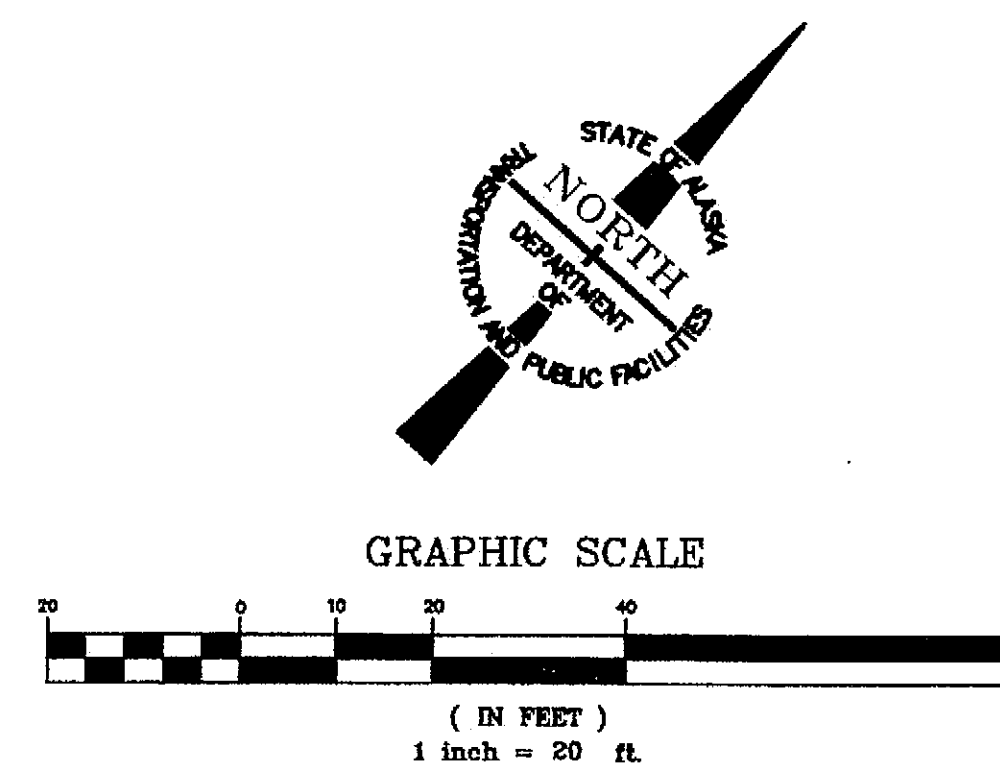
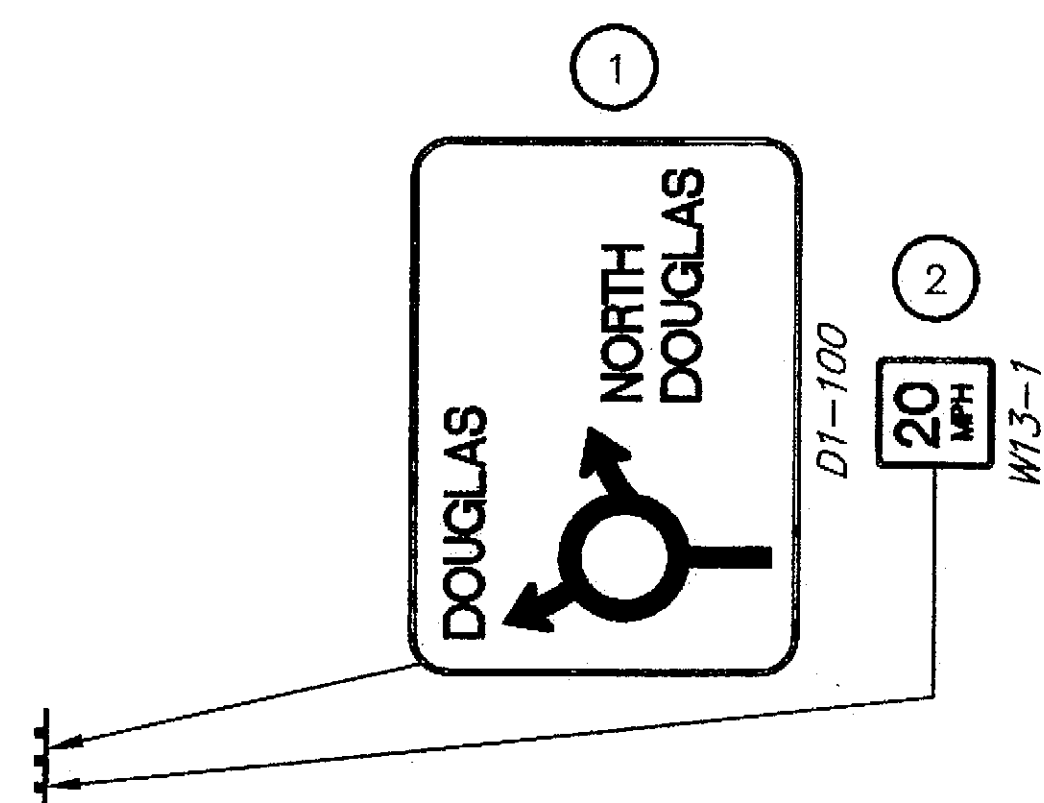
PROJECT DESIGNATION NUMBER

NH-F-093-2(29)-(70168)

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
M6	

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MATCHLINE STA. 28+00, SEE SHEET V1



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date *7/24/07*

GENERAL NOTES

1. SEE SHEETS V6 & V7 FOR SIGN SPECIFICATIONS.



**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

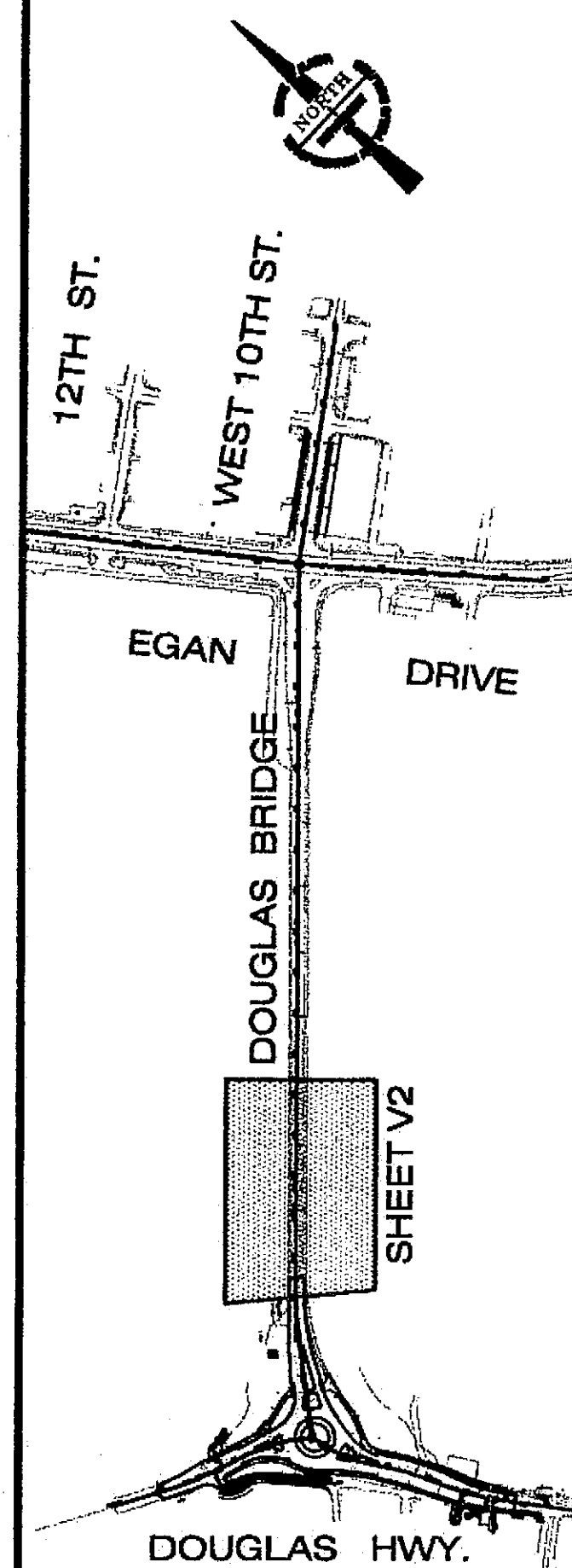
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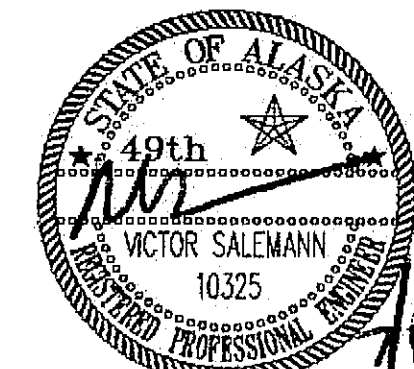
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: P.ZILIUS



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT

SIGNING PLAN

PROJECT DESIGNATION NUMBER

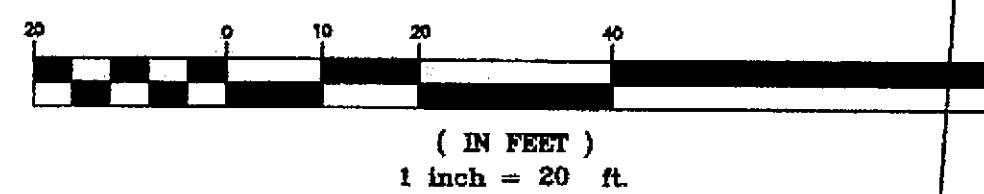
NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
V2	

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GRAPHIC SCALE



NORTH DOUGLAS HIGHWAY

4+80.06 5+00

6+00

CONST C

7+00

"D" LINE

1+00

8+00

"G" LINE

SITKA ST.

MATCHLINE STA. 8+00, SEE SHEET V1

GENERAL NOTES

1. SEE SHEETS V6 & V7 FOR SIGN SPECIFICATIONS.

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

Proj. Engr. *[Signature]* Date 9/20/17



DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

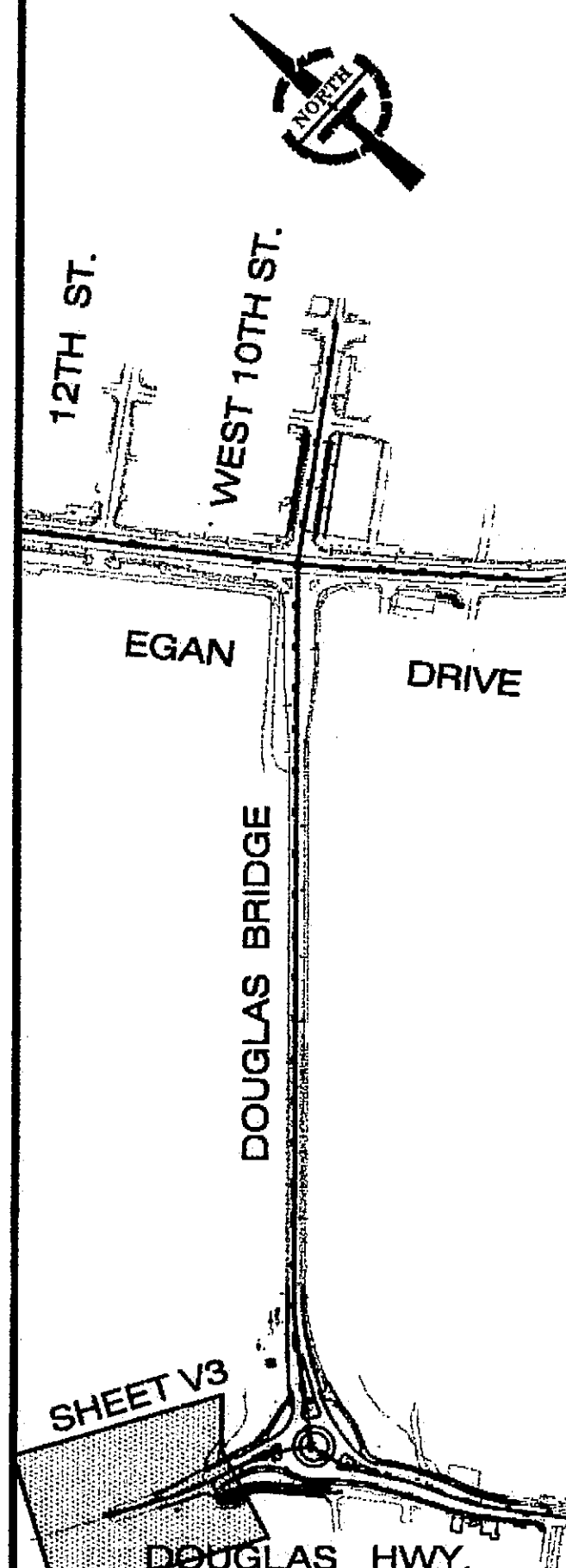
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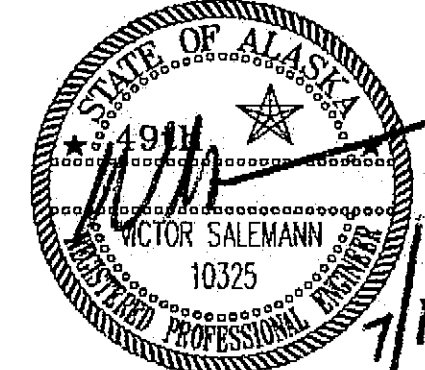
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: P.ZILIUS



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

SIGNING PLAN

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
V3	

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SIGN SUMMARY

SIGN #	STATION	OFFSET	CODE #	LEGEND	SIZE	AREA S.F.	NO. POSTS	POST SIZE	POST TYPE	EMBEDMENT TYPE	FACING TRAFFIC	REMARKS
1	C 27+69	28 RT	D1-100	DOUGLAS, N DOUGLAS - SEE SHEET V5	120x188	140	3	6 x 12	W		NB	
2	C 27+69	28 RT	W13-1	20 MPH	24x24	4					NB	MOUNT UNDER 2, ON LEFT POST
3	C 26+94	19 RT	D1-2-2	DOUGLAS, N DOUGLAS RD	EXISTING	EX					NB	REMOVE
4	NOT USED											
5	D 8+95	28.9 LT	R5-1	DO NOT ENTER	EXISTING	EX					NB	REMOVE
6	D 8+95	28.9 LT	R1-2	YIELD	EXISTING	EX					NB	REMOVE
7	D 8+63	3 LT	R4-7	KEEP RIGHT (SYMBOL)	24x30	5	1	2.5"	PST		NB	
8	D 8+63	3 LT	OM-1	OBJECT MARKER (YELLOW)	18x18	2					NB	MOUNT ABOVE 7
9	D 7+70	28 LT	W11-1	BICYCLE CROSSING (SYMBOL)	36x36	9	1	2.5"	PST		NB	
10	D 9+05	22 RT	R4-7	KEEP RIGHT (SYMBOL)	EXISTING	EX					SB	REMOVE
11	D 9+05	22 RT	OM-1	OBJECT MARKER (YELLOW)	EXISTING	EX					SB	REMOVE
12	D 9+20	14 LT	D1-601	N DOUGLAS - SEE SHEET V5	76x18	10	1	2.5"	PST		WB	
13	C 31+06	32.5 RT	W11-1	BICYCLE CROSSING (SYMBOL)	EXISTING	EX					SB	REMOVE
14	C 31+32	17 RT	R6-1R	ONE WAY (RIGHT)	36x12	3	1	2"	PST		WB	
15	C 30+62	88RT	D11-1 (MOD)	BIKES OK	EXISTING	EX					WB	REMOVE
16	C 30+62	88 RT	M7-1R	RIGHT ARROW	EXISTING	EX					WB	REMOVE
17	NOT USED											
18	NOT USED											
19	C 30+65	40 RT	R1-2	YIELD	36x36	9	1	2.5"	PST		WB	
20	C 30+5	68 RT	W11-1	BICYCLE CROSSING (SYMBOL)	EXISTING	EX					NB	REMOVE
21	C 30+41	40 RT	D11-1 (MOD)	BIKES OK	EXISTING	EX					NB	REMOVE
22	C 29+95.5	30 RT	M7-1	BICYCLE DIRECTIONAL ARROW 90 DEGREES	EXISTING	EX					WB	REMOVE
23	C 30+41	40 RT	M7-4(MOD)	RIGHT ARROW 45 DEGREES	12x9	1					NB	MOUNT BELOW 21
24	C 30+27	41 RT	W11-2	PEDESTRIAN CROSSING (SYMBOL)	36x36	9	1	2.5"	PST		NB	
25	C 29+90	16 RT	OM-1	OBJECT MARKER (YELLOW)	EXISTING	EX					WB	REMOVE
26	C 29+90	16 RT	W12-1	DOUBLE ARROW	EXISTING	EX					WB	REMOVE
27	C 29+33	32 RT	R3-7R	RIGHT LANE MUST TURN RIGHT	30x30	6.25	1	2.5"	PST		WB	
28	C 28+06	21 RT	R7-P	NO PARKING BIKE LANE	EXISTING	EX					WB	REMOVE
29	C 28+12	21 RT	R7P-101	NO PARKING ANY TIME	12x18	2	1	2"	PST		WB	
30	D 8+64	3 LT	R5-1	DO NOT ENTER	EXISTING	EX					SB	REMOVE
31	G 2+51	6 LT	W14-1	DEAD END	EXISTING	EX					SB	REMOVE
32	D 8+79	39 RT	W11-2	PEDESTRIAN CROSSING (SYMBOL)	36x36	9	1	2.5"	P		SB	
33	G 2+87	21 LT	R1-1	STOP	EXISTING	EX					SB	REMOVE
34	G 2+87	21 LT	D3-1	SITKA ST	EXISTING	EX					SB	REMOVE
35	G 3+19	21 LT	R7P-101	NO PARKING ANY TIME	EXISTING	EX					SB	REMOVE
36	D 9+09	50 RT	R1-2	YIELD	EXISTING	EX					SB	RELOCATE EXISTING POST AND SIGN
37	D 9+80	43 RT	R7P-101	NO PARKING ANY TIME	EXISTING	EX					SB	REMOVE
38	D 9+86	24 RT	R6-1R	ONE WAY (RIGHT)	36x12	3	1	2"	PST		SB	
39	E 9+04	14 RT	R2-1	SPEED LIMIT 30	EXISTING	EX					SB	REMOVE
40	E 9+21	8 LT	D1-601	DOUGLAS - SEE SHEET V5	66x18	8	1	2.5"	P		SB	
41	E 8+52.5	35.5 LT	W11-1	BICYCLE CROSSING (SYMBOL)	36x36	8	1	3"	TS		SB	
42	E 8+52.5	35.5 LT	D11-1 (MOD)	BIKES OK	36x24	6					NB	MOUNT ON REVERSE SIDE OF 41
43	E 8+52.5	35.5 LT	M7-4	RIGHT ARROW	12x9	4					NB	MOUNT BELOW 42
44	E 8+84	41.5 LT	W11-2	PEDESTRIAN CROSSING (SYMBOL)	EXISTING	EX					SB*	REMOVE
45	E 8+04	38 LT	R7P-101	NO PARKING ANY TIME	12x18	2	1	2"	PST		SB	
46	E 8+28	7 RT	OM-1	OBJECT MARKER (YELLOW)	18x18	2	1	2"	PST		NB	
47	E 8+28	7 RT	R4-7	KEEP RIGHT (SYMBOL)	24x30	5					NB	MOUNT BELOW 46
48	E 8+05	37 RT	D11-1 (MOD)	BIKES OK	30x24	5	1	2.5"	PST		NB	
49	E 8+05	37 RT	M7-2	BICYCLE DIRECTIONAL ARROW 360 DEGREES	12x9	1					NB	MOUNT BELOW 48
50	E 8+70	35 RT	W11-2	PEDESTRIAN CROSSING (SYMBOL)	36x36	9	1	2.5"	P		NB	
51	E 8+36	68 RT	R7P-101	NO PARKING BIKE LANE	EXISTING	EX					NB	REMOVE
52	E 9+21	55 RT	R1-2	YIELD	36x36	9	1	2.5"	P		EB	
53	C 31+07	113 LT	R7-9	NO PARKING BIKE LANE	EXISTING	EX					EB	REMOVE
54	E 9+50	109 RT	D1-2-2	DOUGLAS, FAIRBANKS	EXISTING	EX					WB	REMOVE
55	E 9+85	26 RT	R6-1R	ONE WAY (RIGHT)	36x12	3	1	2"	PST		EB	
56	C 30+69	78 LT	D11-1 (MOD)	BIKES OK	30x24	5	1	2.5"	PST		SB	
57	C 30+69	78 LT	M7-6(MOD)	BICYCLE DIRECTIONAL ARROW 2 HEADS, 225 DEGREES/360 DEGREES	12x9	1					SB	MOUNT BELOW 56
58	E 9+67	38 RT	D3-101	N DOUGLAS HIGHWAY	EXISTING	EX					EB	REMOVE
59	E 9+67	38 RT	R1-1	STOP	EXISTING	EX					EB	REMOVE
60	C 30+72	25 LT	D1-601	JUNEAU - SEE SHEET V5	60x18	8	1	2.5"	PST		SB	
61	C 30+50	80 LT	R7-9	NO PARKING BIKE LANE	EXISTING	EX					SB	REMOVE
62	C 29+66	35 LT	R2-1	SPEED LIMIT 25- 30	30x36	8	1	2.5"	PST		SB	
63	C 29+28	4 LT	R4-7	KEEP RIGHT (SYMBOL)	24x30	5	1	2"	PST		NB	
64	C 29+28	4 LT	OM-1	OBJECT MARKER (YELLOW)	18x18	2					NB	MOUNT ABOVE 63

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date *9/20/07*



DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

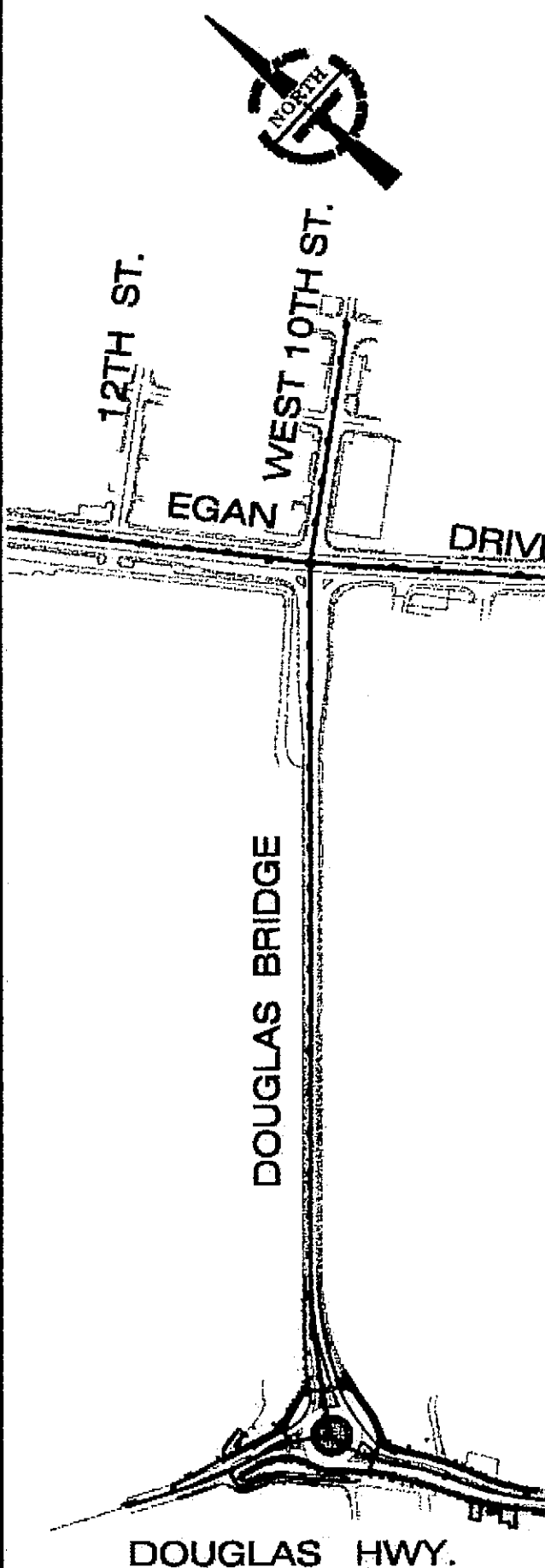
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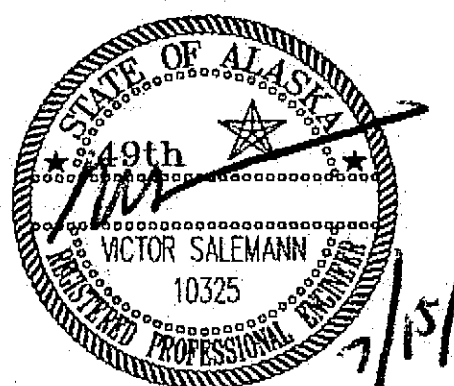
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: P.ZILIUS



CHECKED BY: V.SALEMANN
DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
**JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDAABOUT**

SIGNING SPECIFICATIONS

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
V6	

PATH: P:\0\ALS\0000-0006\0300Cadd\340tdwg\Roundabout PS&E Plans\sheet\alisk0006_P01_SIN07.dwg

SIGN SUMMARY

SIGN #	STATION	OFFSET	CODE #	LEGEND	SIZE	AREA S.F.	NO. POSTS	POST SIZE	POST TYPE	EMBEDMENT TYPE	FACING TRAFFIC	REMARKS
65	C 29+05	38 LT	R7P-101	NO PARKING ANY TIME	EXISTING	EX					SB	REMOVE
66	C 29+03	38 LT	R9-6	BICYCLES YIELD TO PEDS	12x18	2					SB	BAND TO NEW LUMINAIRE POLE
67	C 29+19	8 LT	OM-1	OBJECT MARKER (YELLOW)	EXISTING	EX					NB	REMOVE
68	C 29+19	8 LT	R4-7	KEEP RIGHT (SYMBOL)	EXISTING	EX					NB	REMOVE
69	NOT USED											
70	D 6+00	25' LT	R2-1	SPEED LIMIT 30	EXISTING						NB	REMOVE
71	D 6+83	30 LT	R7-9	NO PARKING BIKE LANE	EXISTING	EX					SB	REMOVE
72	D 5+56	20.5 RT	W13-1	20 MPH	24x24						SB	MOUNT ON BRIDGE RAIL, BELOW 73
73	D 5+56	20.5 RT	W2-6	ROUNDABOUT AHEAD (SYMBOL)	36x36	9	1	2.5"	P		SB	MOUNT ON BRIDGE RAIL
74	D 6+04	21 RT	W11-1	BICYCLE CROSSING (SYMBOL)	EXISTING	EX					SB	REMOVE
75	D 6+03	19 LT	I-150	ADOPT A HIGHWAY, ALASKA UNITED PAGAN ALLIANCE	EXISTING	EX					NB	REMOVE
77	G 1+26	21 LT	R1-1	STOP	30x30	6	1	3"	P		EB	
78	G 1+26	21 LT	D3-1	SITKA ST	36x12	9					EB	MOUNT ABOVE 75
79	G 1+45	16.5' LT	D11-1 (MOD)	BIKES OK	EXISTING	EX					EB	REMOVE
80	G 1+45	16.5' LT	M7-1	BICYCLE DIRECTIONAL ARROW 45 DEGREES	EXISTING	EX					EB	REMOVE
81	D 7+77	26 RT	W3-2A	YIELD AHEAD (SYMBOL)	36x36	9	1	2.5"	PST		SB	
82	E 7+91	40 RT	W3-2A	YIELD AHEAD (SYMBOL)	36x36	9	1	2.5"	PST		NB	
83	E 7+05	15 RT	R2-1	SPEED LIMIT 30	EXISTING	EX					NB	REMOVE
84	E 5+31	26 RT	W2-6	ROUNDABOUT AHEAD (SYMBOL)	36x36	9	1	2.5"	PST		NB	
85	E 5+31	26 RT	W13-1	20 MPH	24x24						SB	MOUNT BELOW 84
86	E 7+00	40 LT	S5-1	SCHOOL SPEED LIMIT 20 WHEN FLASHING	EXISTING	EX					SB	REMOVE
87	E 7+11	41 LT	R7-9	NO PARKING BIKE LANE	EXISTING	EX					SB	REMOVE
88	E 7+09	55 LT	R1-1	STOP	EXISTING	EX					SB	REMOVE
89	E 5+10	30 LT	S1-1	SCHOOL CROSSING (SYMBOL)	EXISTING	EX					SB	REMOVE
90	C 30+41	40 RT	D11-1 (MOD)	BIKES OK	30x24	5	1	2"	PST		WB	
91	D 9+09	50 RT	R1-2	YIELD	36x36	9	1	2.5"	P		SB	
92	E 8+84	41.5 LT	W11-2	PEDESTRIAN CROSSING (SYMBOL)	36x36	9	1	2.5"	P		SB	
93	D 6+19	27 LT	R2-1	SPEED LIMIT 30	30x36	7.5	1	-	-		NB	BAND TO LUMINAIRE POLE
94	D 6+03	19 LT	D11-1 (MOD)	BIKES OK	30x24	5	1	2"	PST		NB	RELOCATE ADOPT-A-HIGHWAY SIGN
95	G 1+45	14 LT	D11-1 (MOD)	BIKES OK	30x24	5	1	2"	PST		EB	
96	G 1+45	14 LT	M7-1	BICYCLE DIRECTIONAL ARROW 45°	12x9	1	1					MOUNT BELOW 95
97	E 7+00	40 LT	S5-1	SCHOOL SPEED LIMIT 20 (AMBER FLASHING)	24x48	8	1	2.5"	P		SB	
98	E 5+12	31 LT	S1-1	SCHOOL CROSSING (SYMBOL)	30x30	6.25	1	2"	PST		SB	
99	E 8+04	38 LT	R7P-101	NO PARKING ANY TIME	12x18	1.5	1	2"	PST		SB	
100	C 30+42	44 LT	W11-2	PEDESTRIAN CROSSING (SYMBOL)	36x36	9	1	2.5"	P		NB	
101	D 9+07	38 LT	W11-2	PEDESTRIAN CROSSING (SYMBOL)	36x36	9	1	2.5"	P		WB	

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date: 7/24/07



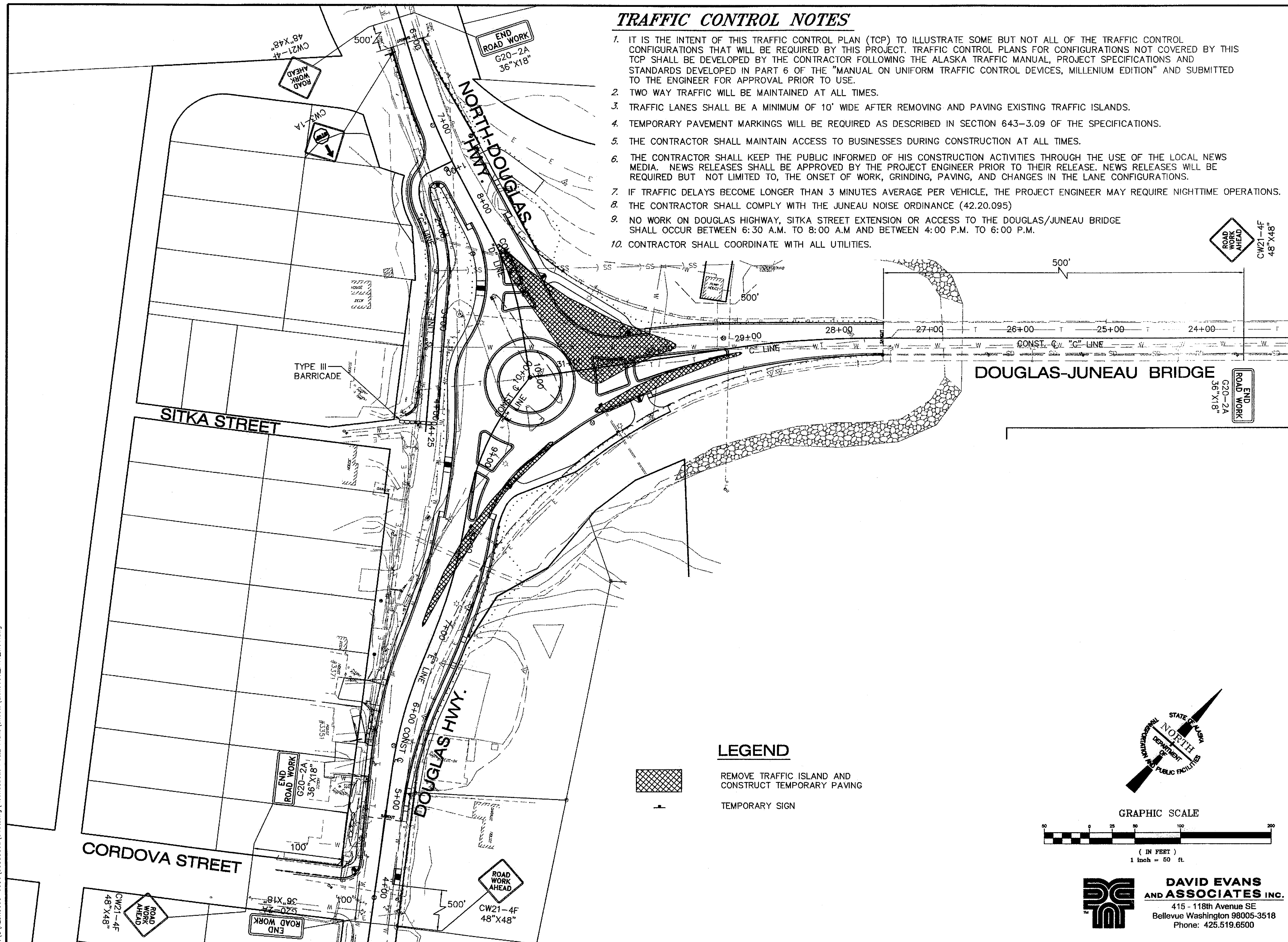
**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

Fri, 16/Jul/04 10:40AM OXA PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F) LAYOUT TAB: Layout1		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
DOUGLAS HWY.		
DESIGNED BY: P.ZILIUS		
CHECKED BY: V.SALEMANN		
DRAWN BY: O.AHRENSFELD		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION JUNEAU, ALASKA DOUGLAS ISLAND ROUNDABOUT		
SIGNING SPECIFICATIONS		
PROJECT DESIGNATION NUMBER		
NH-F-093-3-2(29)-70168		
STATE	YEAR	
ALASKA	2004	
SHEET NUMBER	TOTAL SHEETS	
V7		

PATH: P:\ALASKA\0000-0006\03000000\Roundabout PS&E Plans\sheet\alask0006_P01_W01.dwg

TRAFFIC CONTROL NOTES

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR FOLLOWING THE ALASKA TRAFFIC MANUAL, PROJECT SPECIFICATIONS AND STANDARDS DEVELOPED IN PART 6 OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, MILLENNIUM EDITION" AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
2. TWO WAY TRAFFIC WILL BE MAINTAINED AT ALL TIMES.
3. TRAFFIC LANES SHALL BE A MINIMUM OF 10' WIDE AFTER REMOVING AND PAVING EXISTING TRAFFIC ISLANDS.
4. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.09 OF THE SPECIFICATIONS.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES DURING CONSTRUCTION AT ALL TIMES.
6. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
7. IF TRAFFIC DELAYS BECOME LONGER THAN 3 MINUTES AVERAGE PER VEHICLE, THE PROJECT ENGINEER MAY REQUIRE NIGHTTIME OPERATIONS.
8. THE CONTRACTOR SHALL COMPLY WITH THE JUNEAU NOISE ORDINANCE (42.20.095).
9. NO WORK ON DOUGLAS HIGHWAY, SITKA STREET EXTENSION OR ACCESS TO THE DOUGLAS/JUNEAU BRIDGE SHALL OCCUR BETWEEN 6:30 A.M. TO 8:00 A.M AND BETWEEN 4:00 P.M. TO 6:00 P.M.
10. CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES.



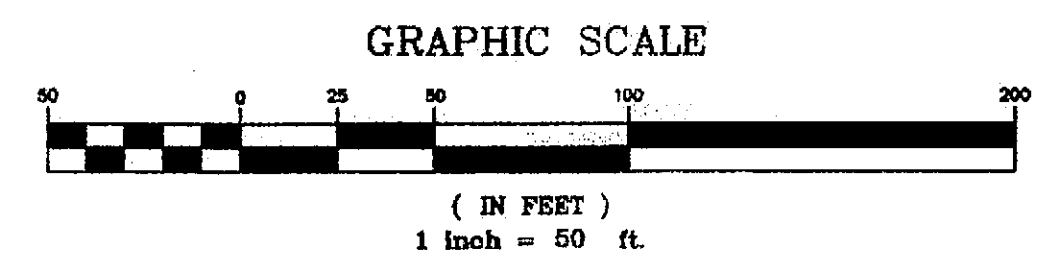
LEGEND



REMOVE TRAFFIC ISLAND AND
CONSTRUCT TEMPORARY PAVING



TEMPORARY SIGN



**DAVID EVANS
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Bellevue Washington 98005-3518
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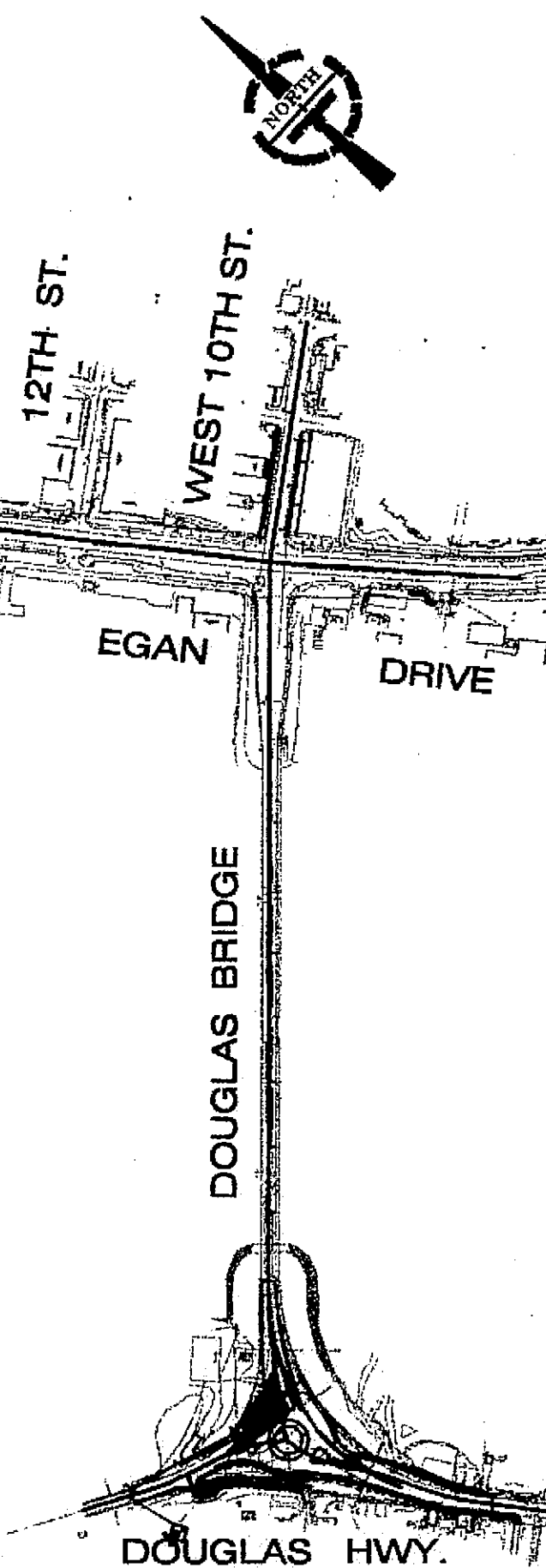
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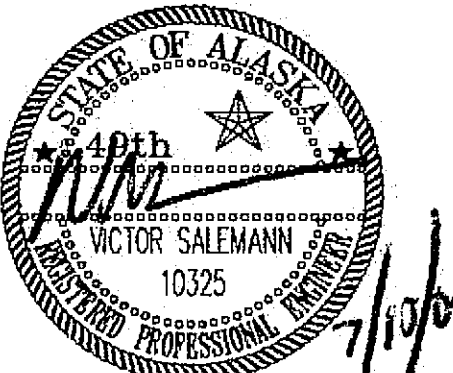
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

**JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDABOUT
TRAFFIC
CONTROL - STAGE 1**

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
W1	

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8. THE CONTRACTOR SHALL COMPLY WITH THE JUNEAU NOISE ORDINANCE (42.20.095)
9. NO WORK ON DOUGLAS HIGHWAY, SITKA STREET EXTENSION OR ACCESS TO THE DOUGLAS/JUNEAU BRIDGE SHALL OCCUR BETWEEN 6:30 A.M. TO 8:00 A.M. AND BETWEEN 4:00 P.M. TO 6:00 P.M.
10. CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES.

TEMPORARY ILLUMINATION NOTES:

1. INSTALL NEW LIGHTING PER ILLUMINATION PLANS.
2. MAINTAIN EXISTING AND TEMPORARY LIGHTING UNTIL NEW ILLUMINATION IS OPERATIONAL.

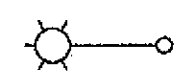
ADDITIONAL STAGE 3 TRAFFIC CONTROL NOTES - ROUNDABOUT

1. THE INTENT OF STAGE 3 TRAFFIC CONTROL IS TO OPERATE THE INTERSECTION AS A ROUNDABOUT.
2. ALL ROUNDABOUT SIGNING MUST BE INSTALLED PRIOR TO STAGE 3.
3. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY STRIPING NECESSARY TO DELINEATE THE FEATURES OF THE ROUNDABOUT DURING THIS STAGE, INCLUDING SPLITTER ISLANDS AND OUTSIDE CURB LOCATIONS.
4. WORK MUST BE ACCOMPLISHED KEEPING A MINIMUM 10' TRAVEL LANE ON ALL ENTRIES AND EXITS TO AND FROM THE ROUNDABOUT.
5. THE CONTRACTOR SHALL PROVIDE ADEQUATE FLAGGING PERSONEL TO MANAGE ALL ENTRIES AND EXITS AFFECTED BY THE WORK DURING THIS STAGE.

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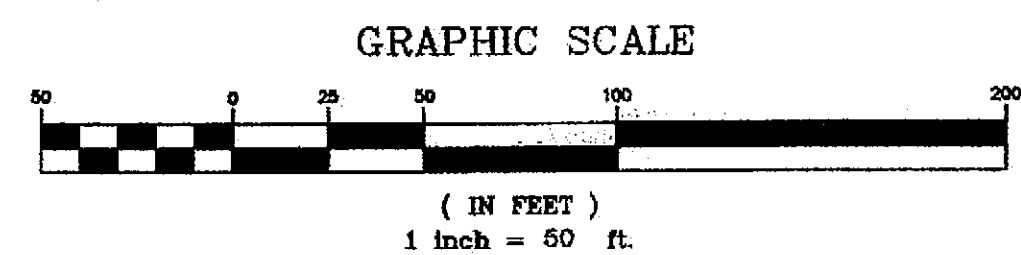


STAGE 3 CONSTRUCTION



EXISTING & TEMPORARY LUMINAIRES

NOTE: FOR STAGE 3 CONSTRUCTION ROAD, USE CONSTRUCTED ROUNDABOUT. CONTRACTOR WILL ADD TEMPORARY ROUNDABOUT STRIPING DURING CONSTRUCTION TO DELINEATE SPLITTER ISLANDS AS APPROVED BY THE ENGINEER.



DAVID EVANS AND ASSOCIATES INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

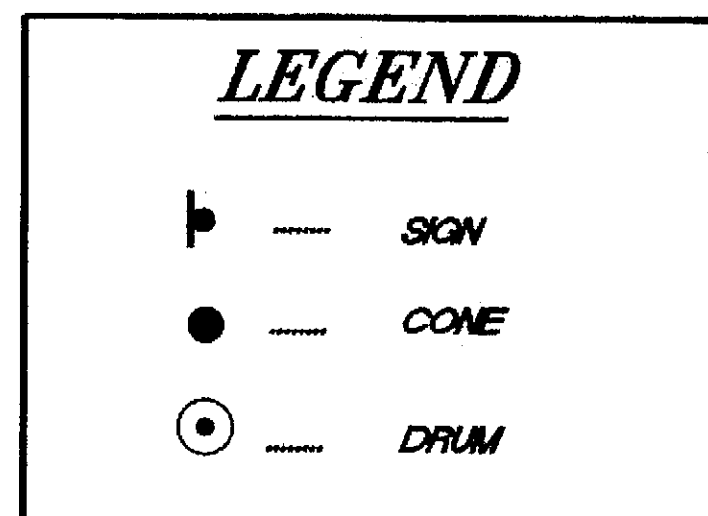
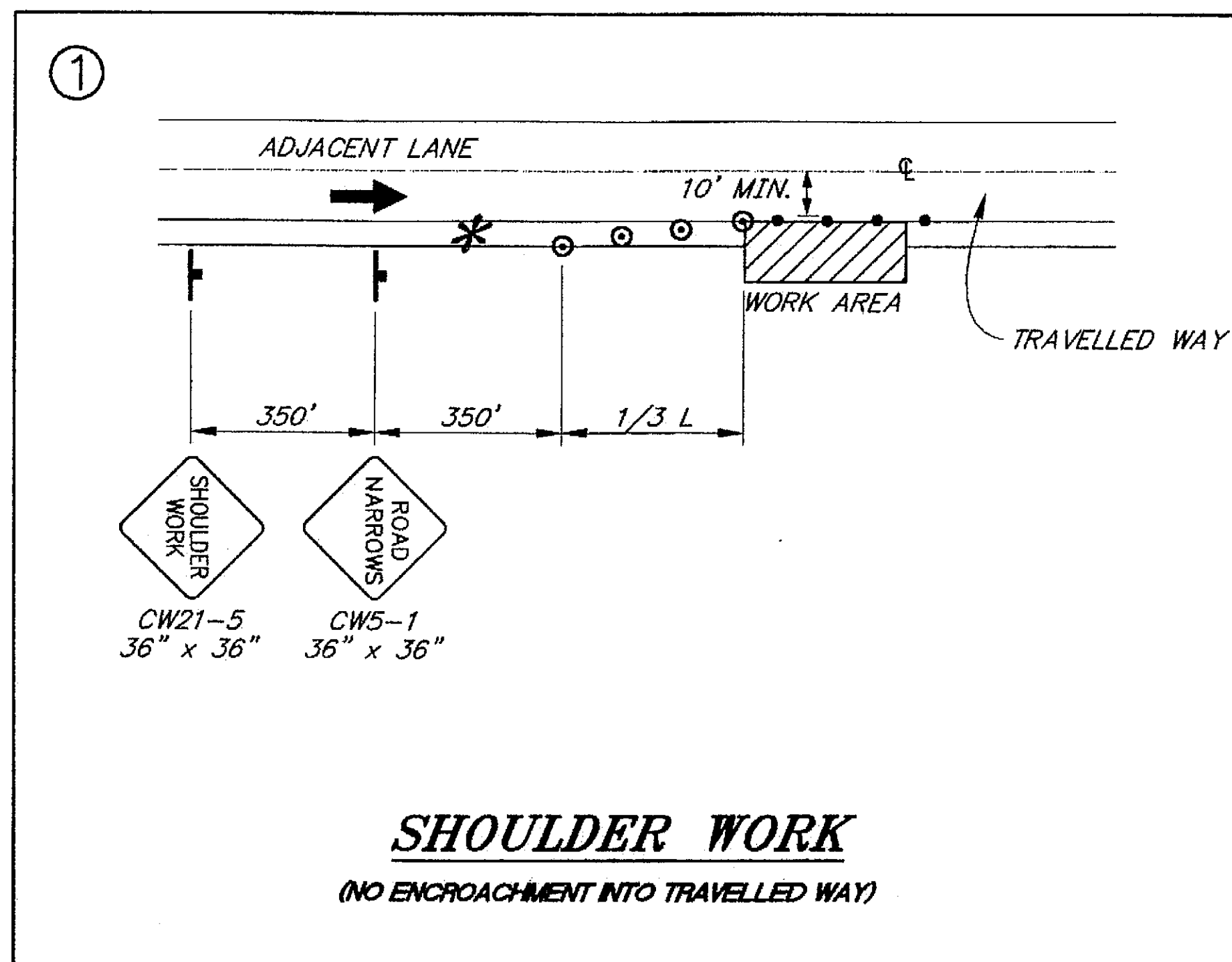
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ADDENDUM NUMBER

ATTACHMENT NUMBER

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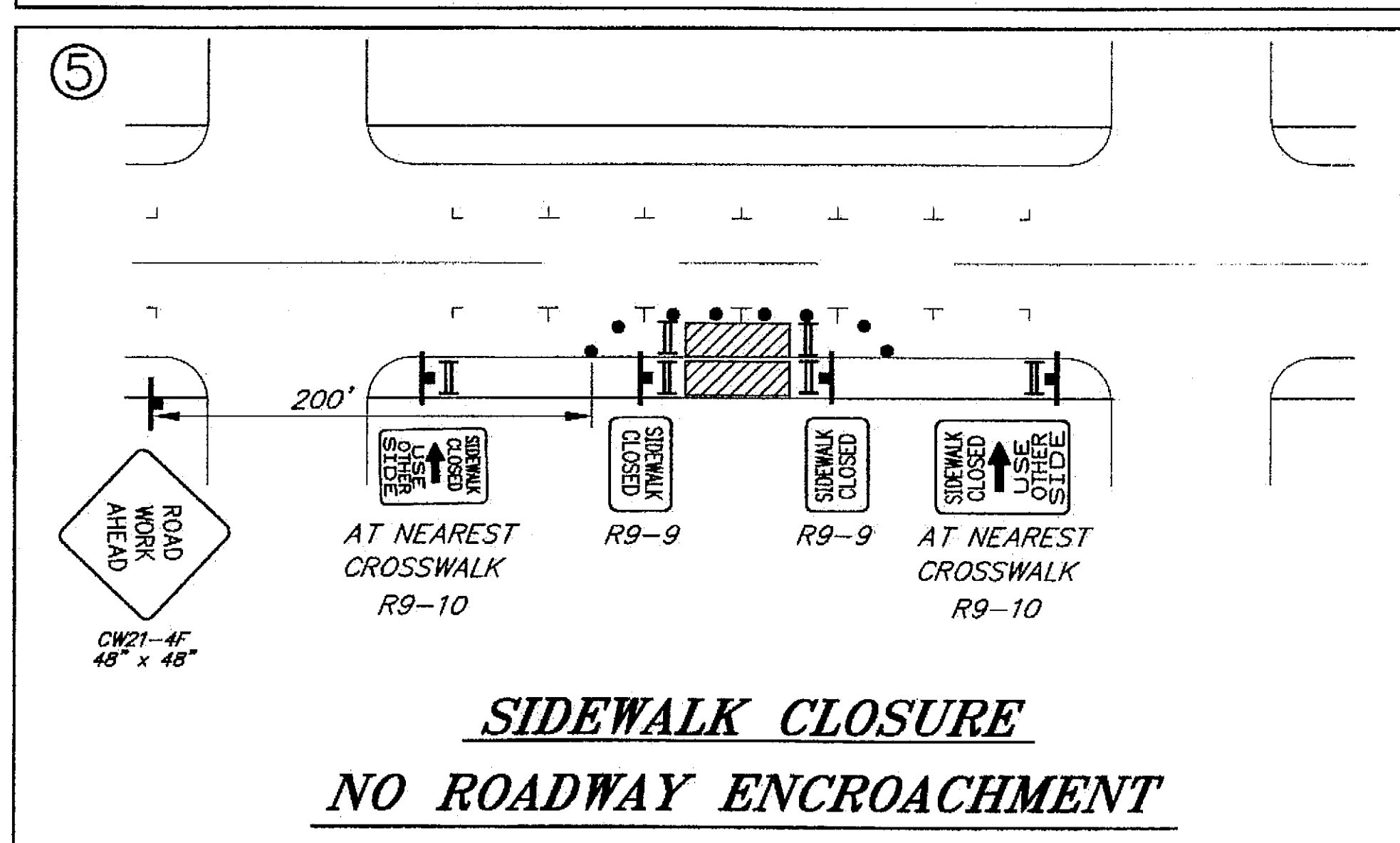
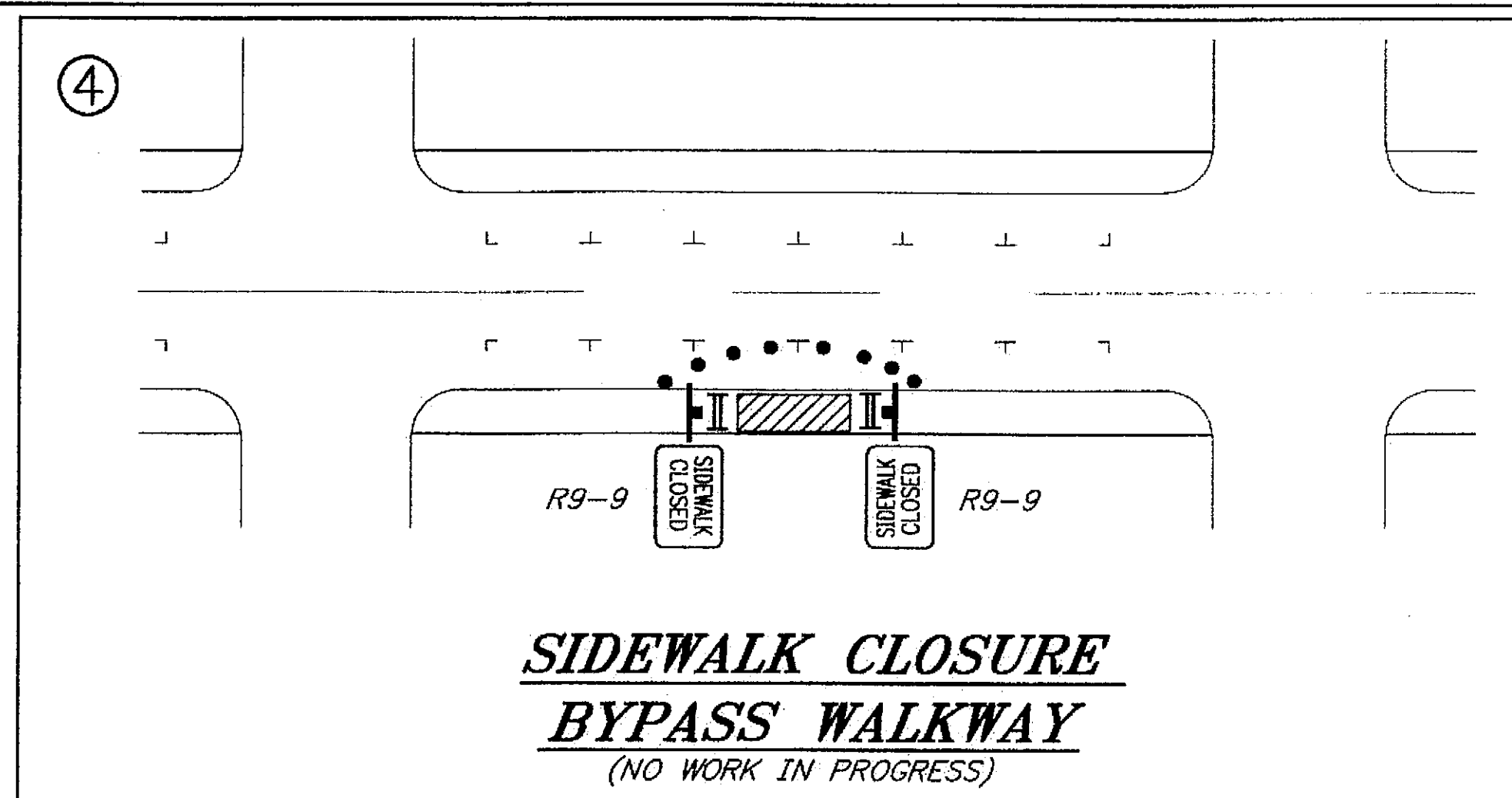
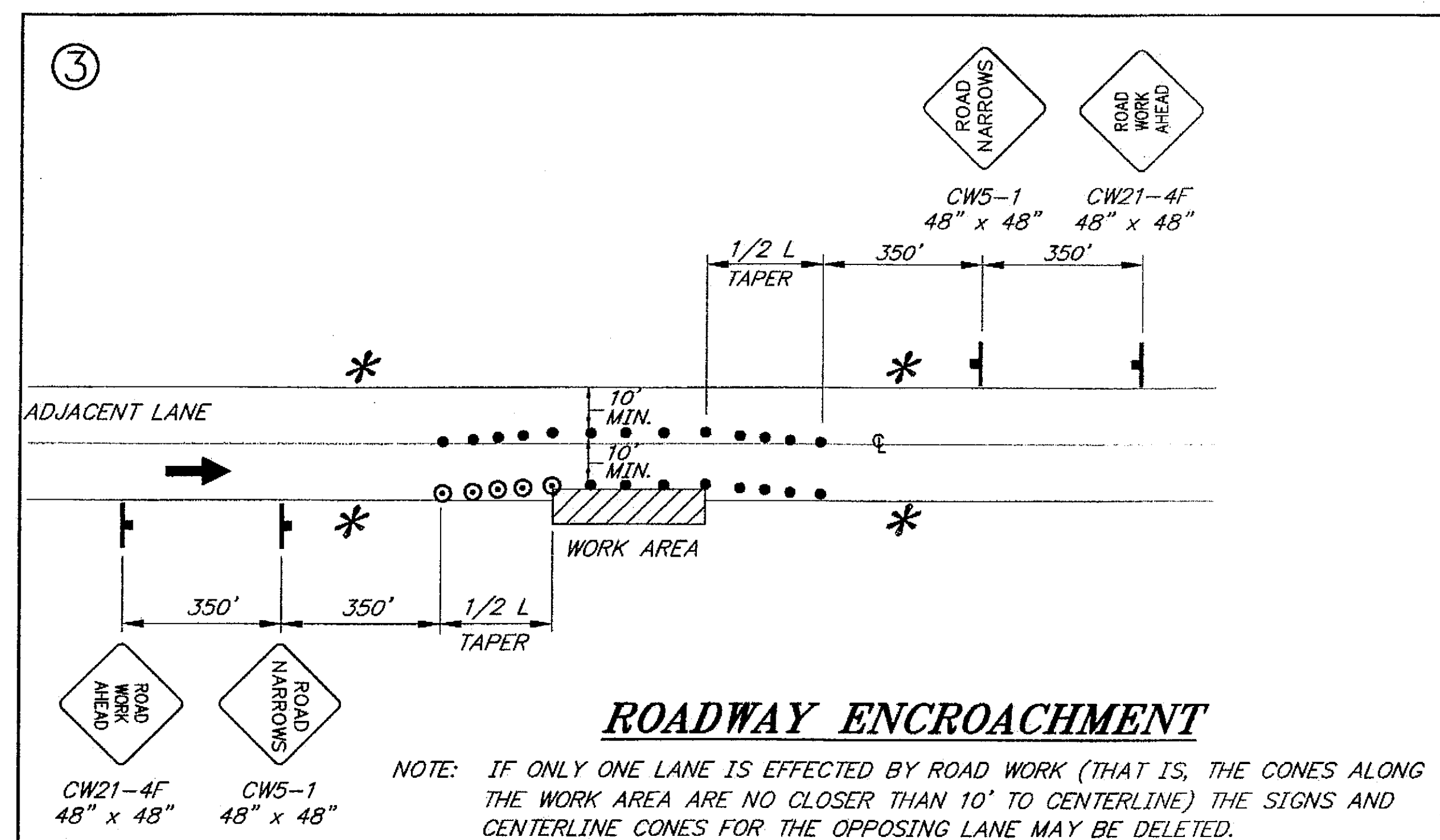
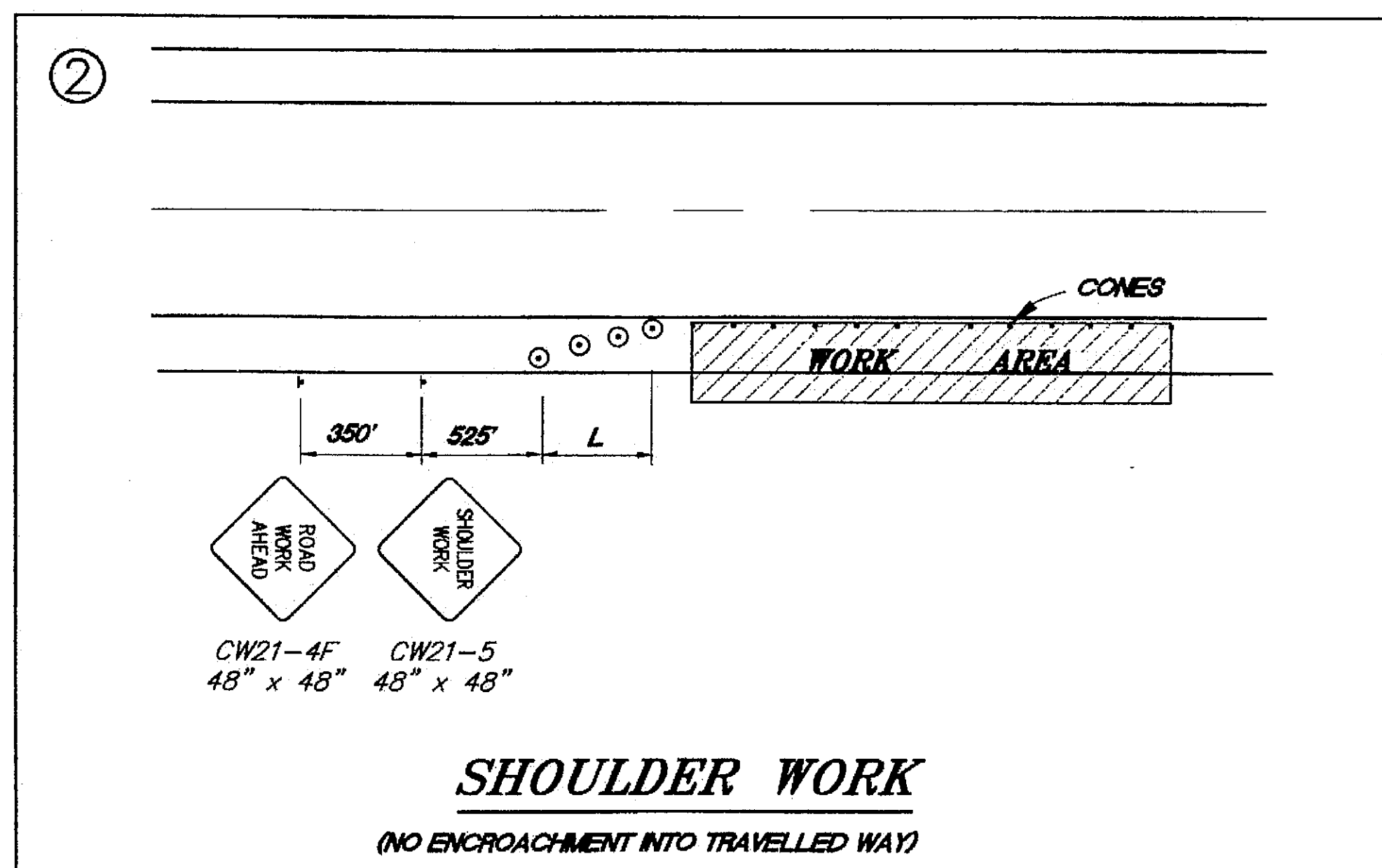


$L = W \times T$

WHERE:
L = LENGTH OF TAPER
W = WIDTH OF OFFSET
T = TAPER FACTOR

TCP TABLE SETUP

SPEED (KILOMETERS PER HOUR)	SPEED (MILES PER HOUR)	BUFFER/ LENGTH (ft)	CONE/DRUM SPACING (ft)	TAPER FACTOR (T)
25	16	30'	15'	4:1
30	19	35'	20'	6:1
35	22	45'	23'	8:1
40	25	55'	25'	10:1
45	28	70'	30'	13:1
50	31	85'	33'	16:1
55	34	115'	35'	19:1
60	37	140'	40'	23:1
65	40	170'	43'	27:1
70	43	200'	45'	32:1
75	47	245'	50'	47:1
80	50	280'	53'	50:1
85	53	320'	55'	53:1
90	56	360'	60'	56:1



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PSPACE 1-1(F) OR MSPACE 1-1(F)
LAYOUT TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

12TH ST.
WEST 10TH ST.
EGAN DRIVE
DOUGLAS BRIDGE
DOUGLAS HWY.

DESIGNED BY: VVASKELIS

CHECKED BY: VSALEMANN
DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
+ PUBLIC FACILITIES
STATEWIDE DESIGN + ENGINEERING
SERVICES DIVISION
JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDBOUT

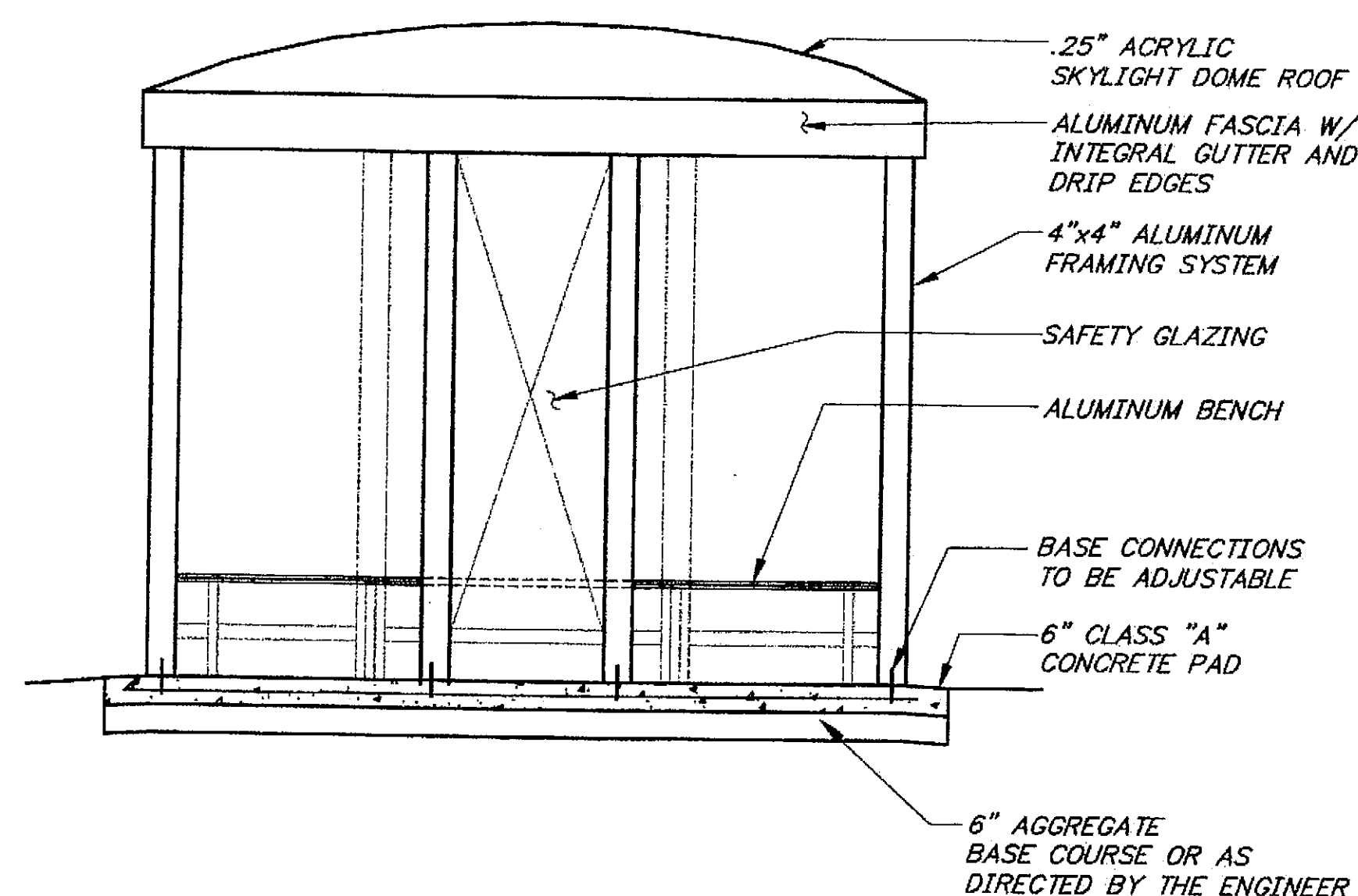
**TRAFFIC CONTROL
PLAN**

PROJECT DESIGNATION NUMBER
NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004

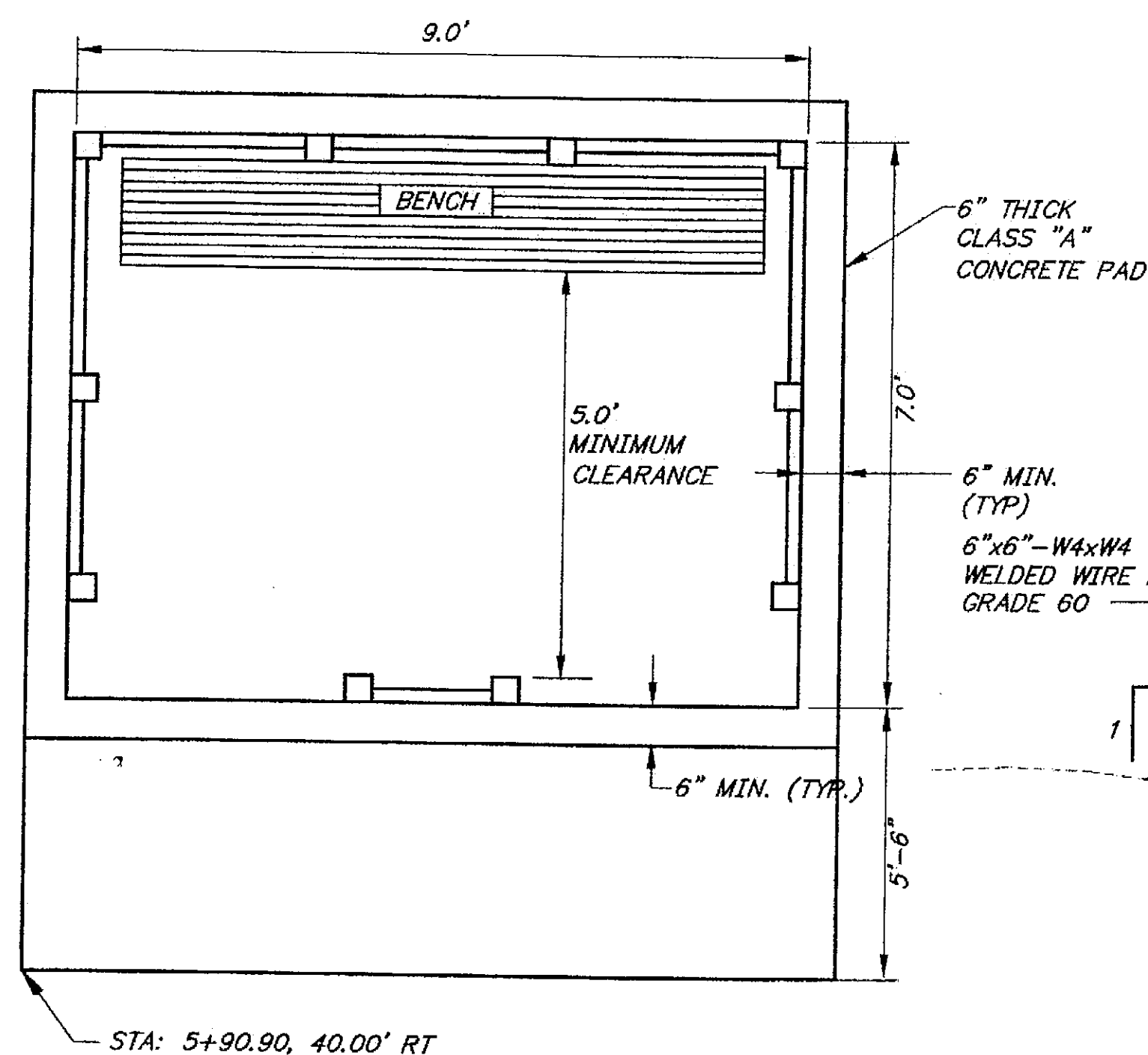
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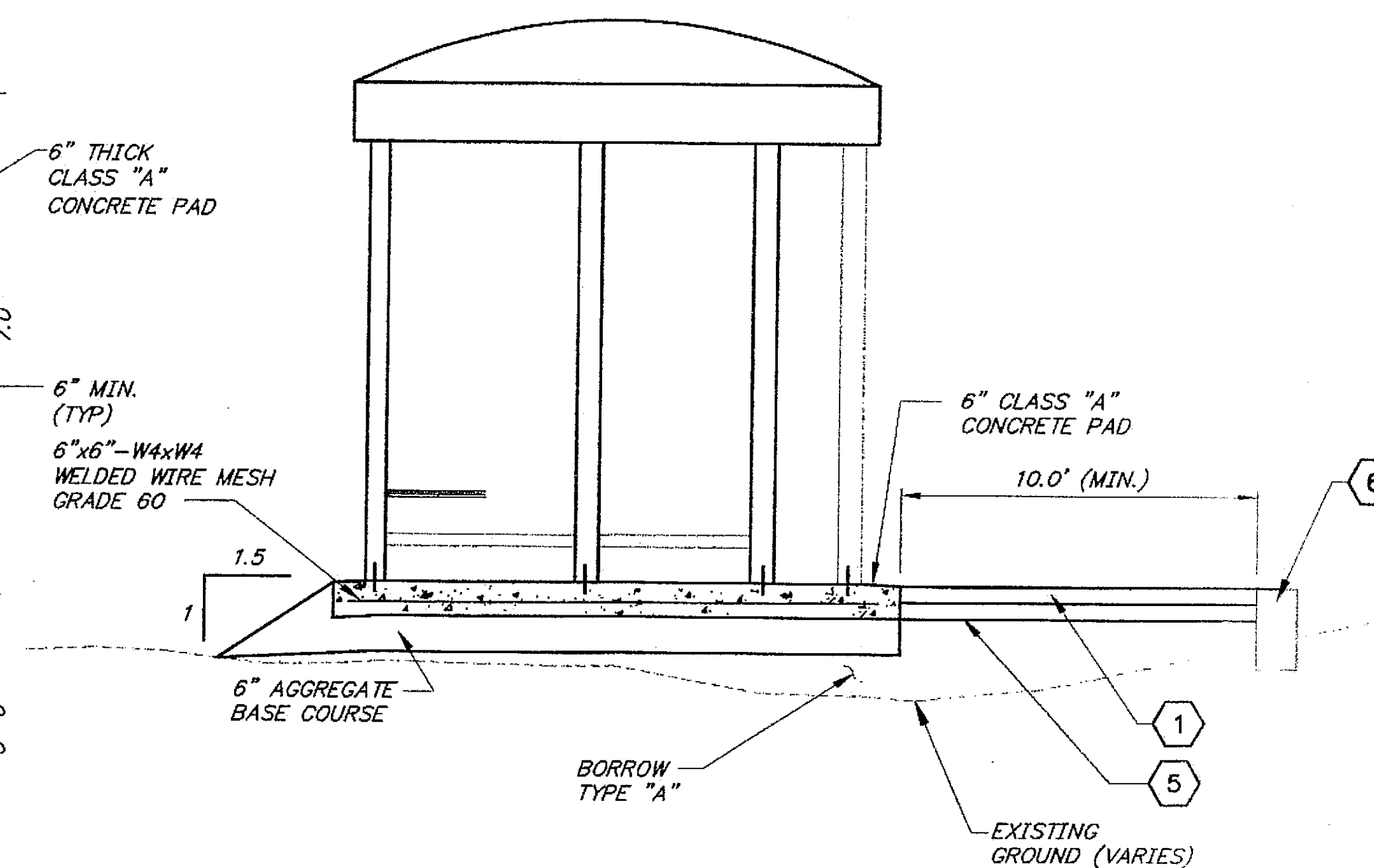


ELEVATION

NOTE:
SHELTER MODEL TO BE
APPROVED BY THE ENGINEER.



PLAN

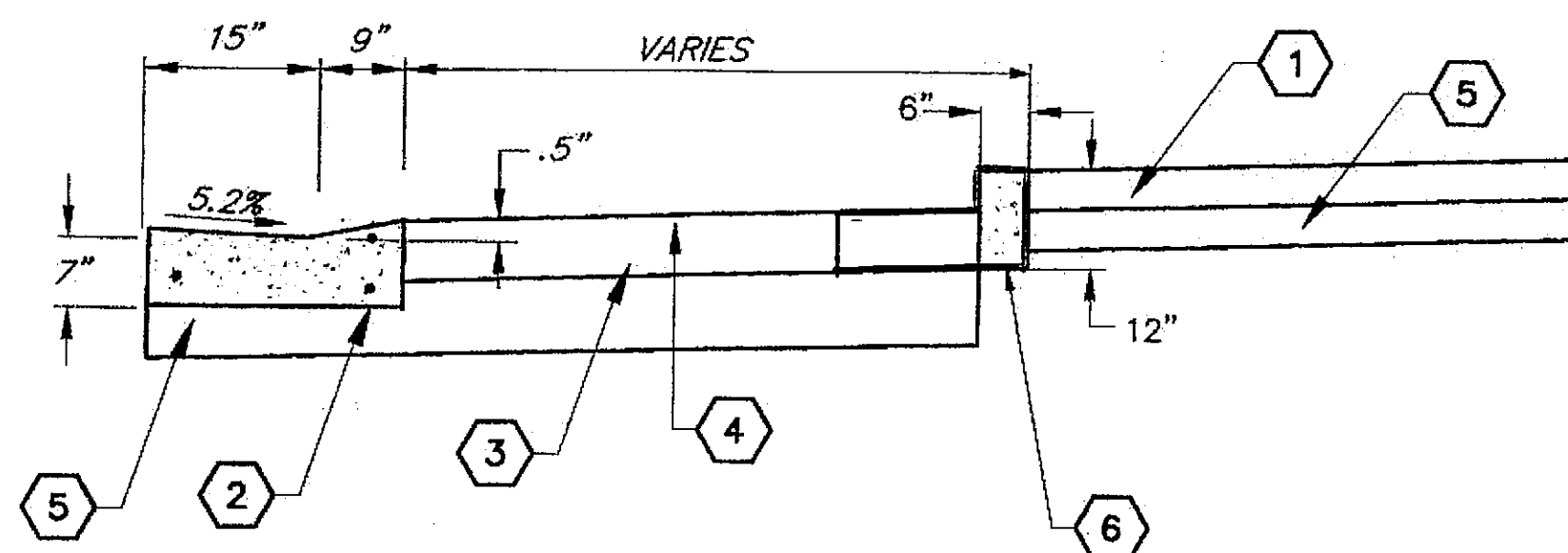


SIDE VIEW

KEY

- 1 4" THICK CONCRETE SIDEWALK
- 2 DEPRESSED CURB AND GUTTER, TYPE STANDARD *
- 3 4" ATB **
- 4 2" ASPHALT CONCRETE, SP TYPE A
- 5 4" AGGREGATE BASE COURSE, GRADING D-1
- 6 CURB TYPE 1 - CURB AND GUTTER, STANDARD

- * APPLY STE-1 ASPHALT FOR TACK COAT TO COLD EDGE BEFORE PAVING.
** APPLY STE-1 ASPHALT FOR TACK COAT OVER ATB BEFORE PAVING.



SECTION DEPRESSED CURB AND BUS PULL OUT PAVING N.T.S.

*PAID FOR AS CURB & GUTTER

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date 9/20/07



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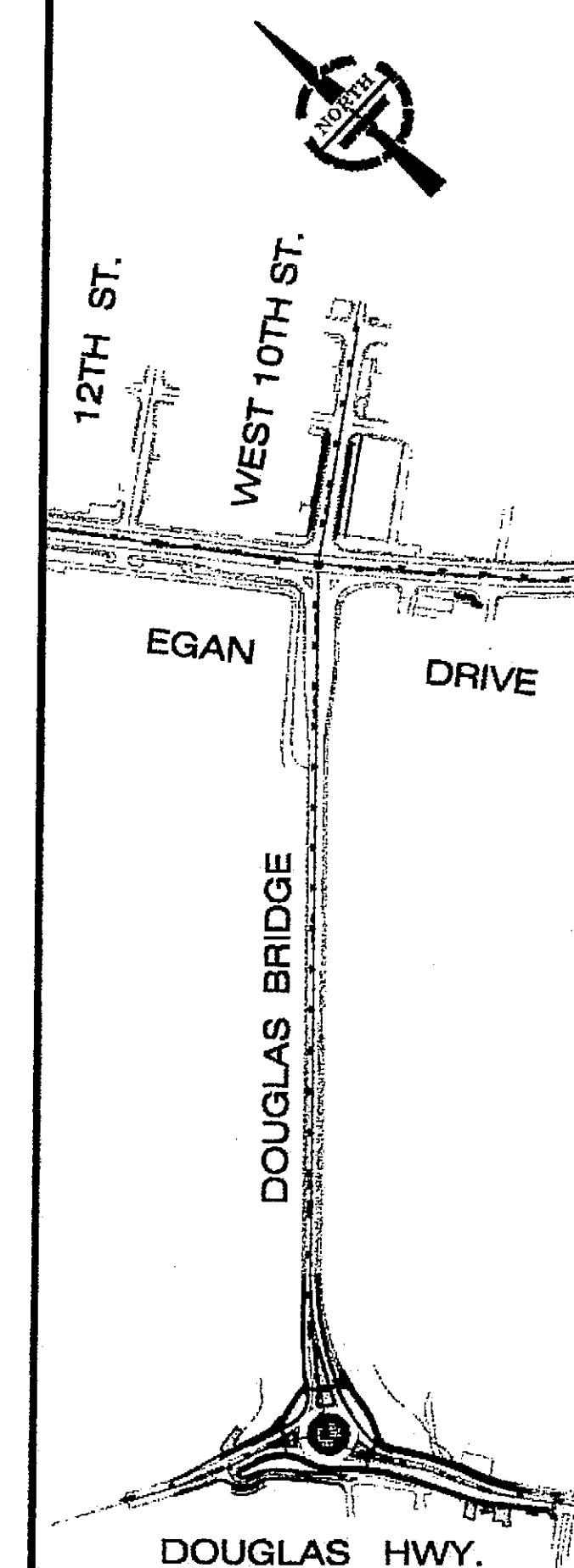
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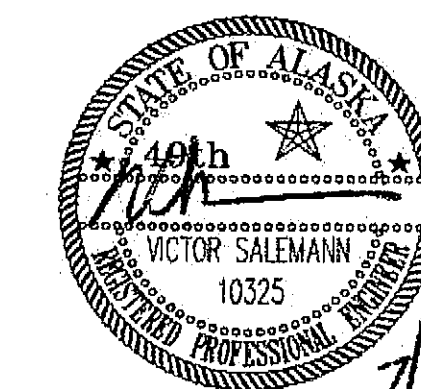
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DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O.AHRENSFELD

STATE OF ALASKA
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STATEWIDE DESIGN & ENGINEERING
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JUNEAU, ALASKA
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ROUNDBOUT

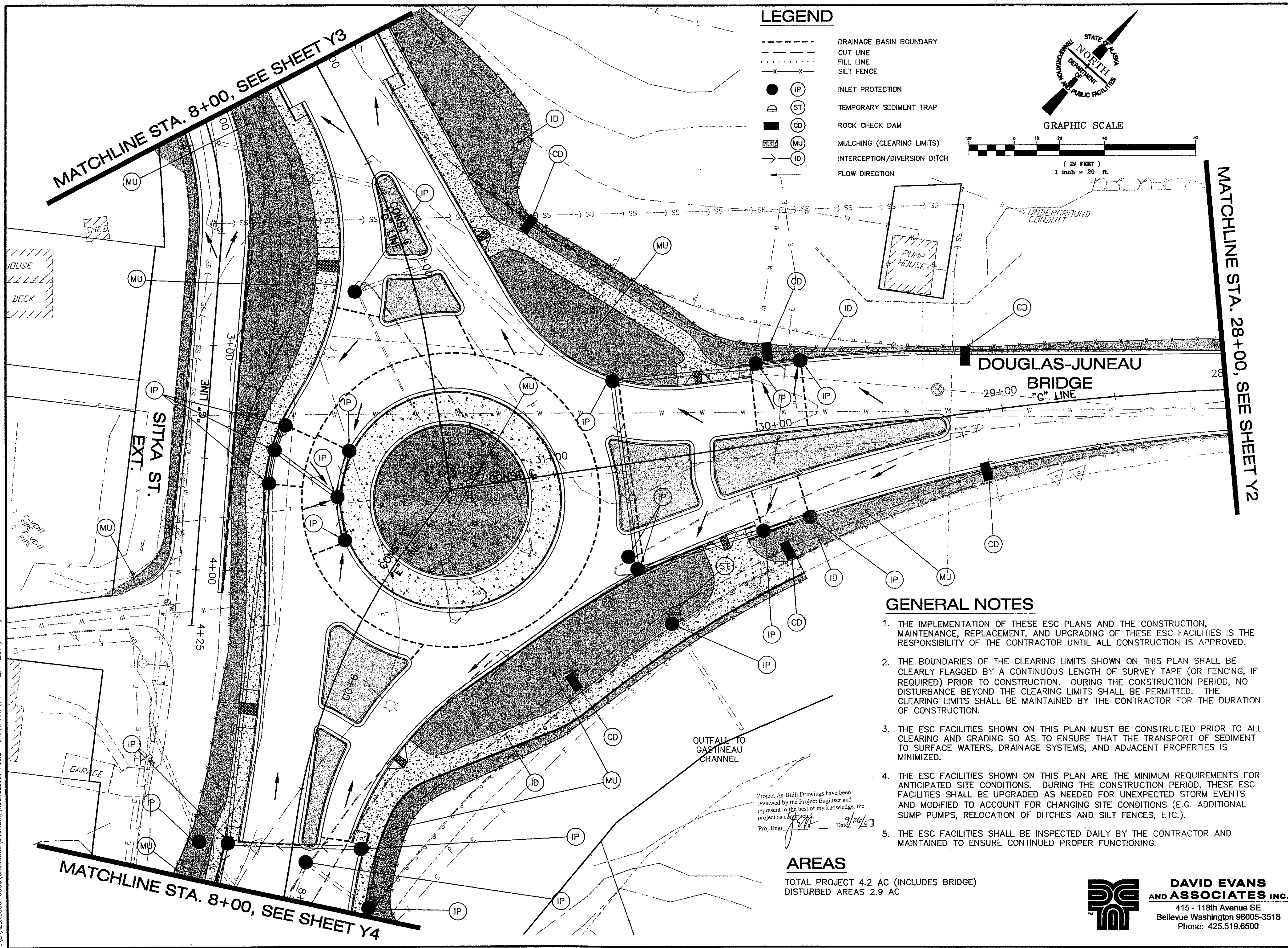
BUS PULL OUT DETAILS

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)-70168

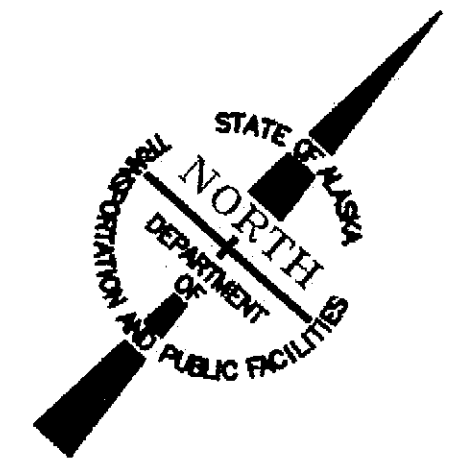
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
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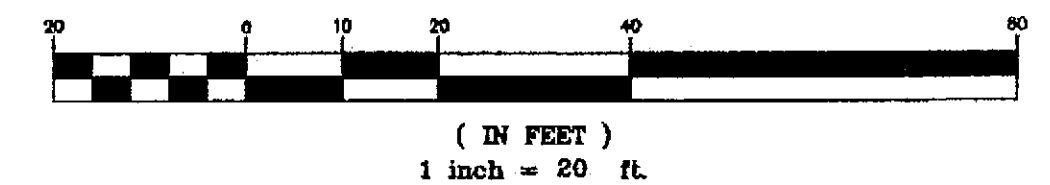


LEGEND

- DRAINAGE BASIN BOUNDARY
- - - CUT LINE
- ... FILL LINE
- x - x - SILT FENCE
- IP INLET PROTECTION
- ⬇ ST TEMPORARY SEDIMENT TRAP
- CD ROCK CHECK DAM
- MU MULCHING (CLEARING LIMITS)
- ID INTERCEPTION/DIVERSION DITCH
- FLOW DIRECTION



GRAPHIC SCALE



GENERAL NOTES

1. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.

AREAS

TOTAL PROJECT 4.2 AC (INCLUDES BRIDGE)
DISTURBED AREAS 2.9 AC

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date: 9/29/03



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Bellevue Washington 98005-3518
Phone: 425.519.6500

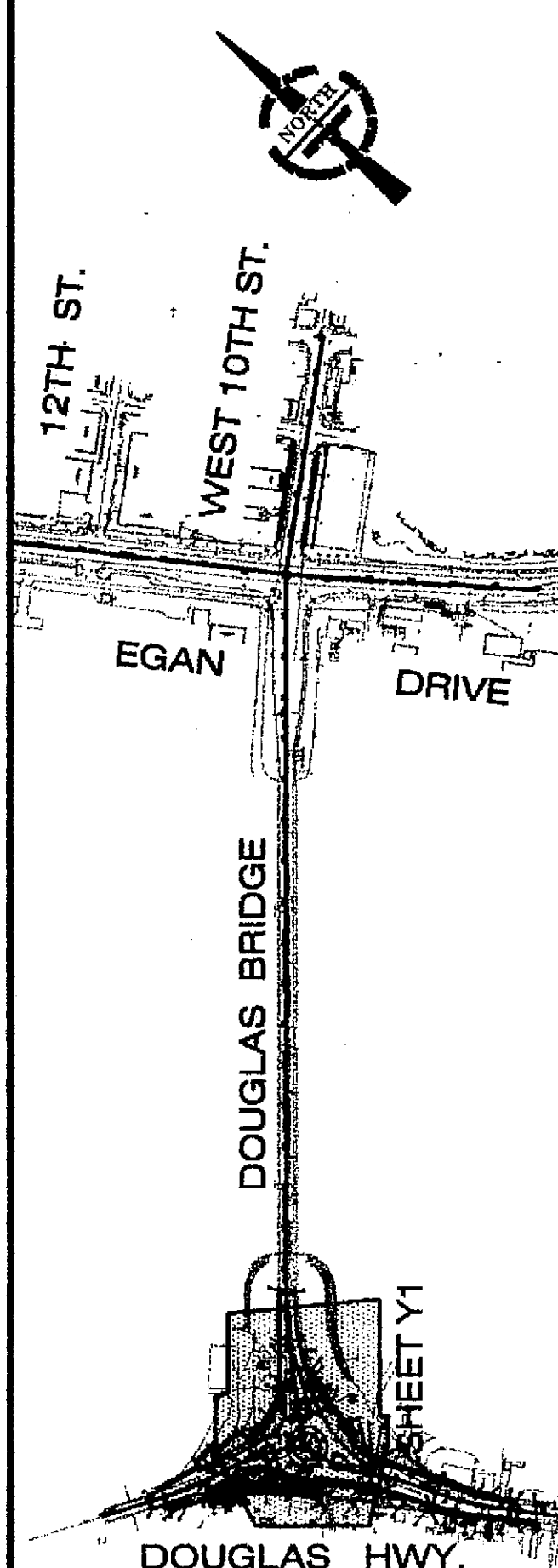
Fri, 16/Jul/04 10:42AM OXA
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
LAYOUT TAB: Layout1

ADDENDUM NUMBER

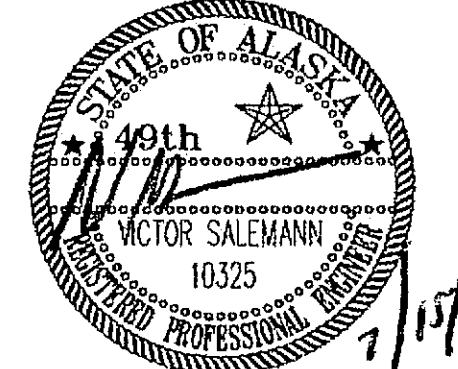
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: S.SOISETH



CHECKED BY: V.SALEMANN

DRAWN BY: O. AHRENSFELD

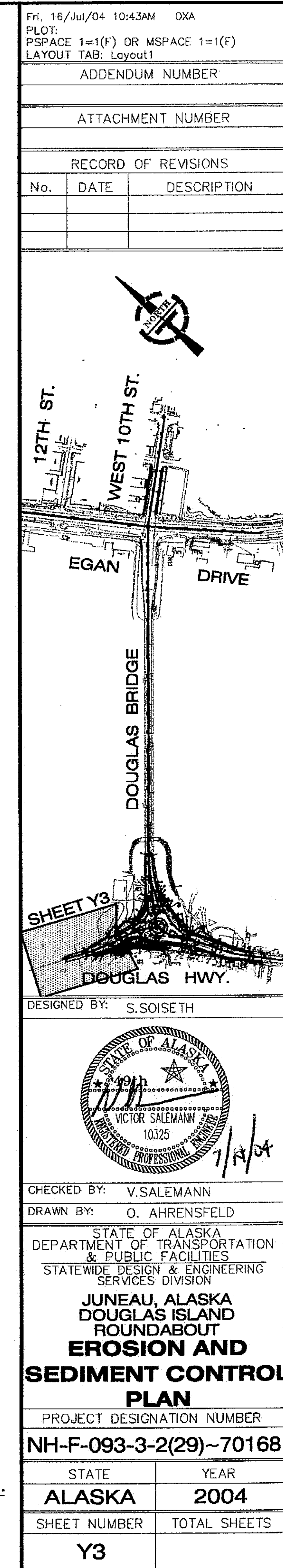
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

**JUNEAU, ALASKA
DOUGLAS ISLAND
ROUNDABOUT
EROSION AND
SEDIMENT CONTROL
PLAN**

PROJECT DESIGNATION NUMBER

NH-F-093-3-2(29)~70168

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
Y1	



1. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.

	DRAINAGE BASIN BOUNDARY
	CUT LINE
	FILL LINE
	SILT FENCE
	INLET PROTECTION
	TEMPORARY SEDIMENT TRAP
	ROCK CHECK DAM
	MULCHING (CLEARING LIMITS)
	INTERCEPTION/DIVERSION DITCH
	FLOW 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 [Signature] Date 11/06/15



**DAVID EVANS
AND ASSOCIATES INC.**
415 - 118th Avenue SE
Bellevue Washington 98005-3518
Phone: 425.519.6500

A.T.S. 361

A.T.S. 556
TR. B

A.T.S. 123
LOT 2

FRAC. U.S.S. 1964
& U.S.M.S. 569

NORTH DOUGLAS HIGHWAY

LOT 1

GRAVEL DRIVE

"D" C
R=300.00'
L=97.56'
Tan=49.22'
Delta=18°37'58"

"D" C
R=650.00'
L=117.25'
Tan=58.78'
Delta=10°20'07"

"D" LINE

"G" LINE

JAMES & MARY
BECKER
LOT 13

WEST JUNEAU SUBDIVISION
BLOCK D

TR.1

FRAC. U.S.M.S. 569
TR.2

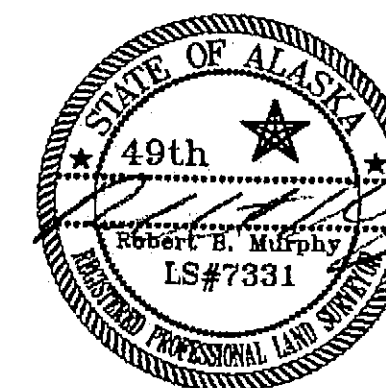
LINE TABLE		
LINE	BEARING	LENGTH
L1	S68°32'30"E	4.39

CURVE TABLE				
CURVE	RADIUS	LENGTH	CHORD BRG.	CHORD DIST.
C1	38.00'	9.34'	S28°10'52"E	9.32'
C2	121.00'	5.86'	N67°09'16"W	5.86'
C3	68.37'	39.76'	S51°52'57"E	39.20'

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge,
the project as constructed. Date 7/27/07
PE. *[Signature]*

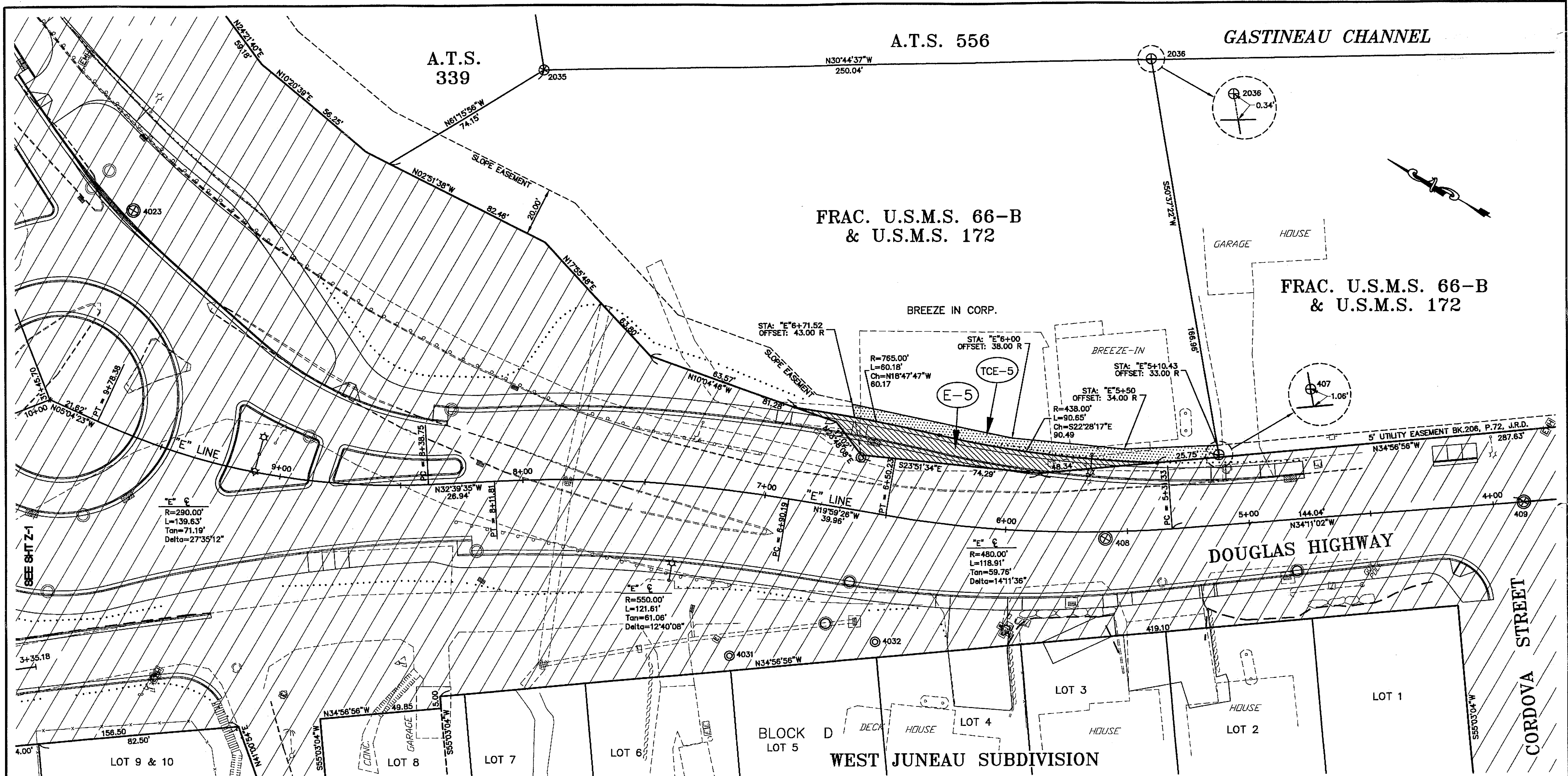
EASEMENT	OWNER	AREA	PURPOSE
E-4	JAMES & MARY BECKER	298 S.F.	HIGHWAY

TEMPORARY CONSTRUCTION EASEMENT			
TCE NO.	OWNER	AREA	PURPOSE
TCE-4	JAMES & MARY BECKER	791 S.F.	CONSTRUCTION ACCESS



SURVEYOR'S CERTIFICATE
I HEREBY CERTIFY that I am properly registered
and licensed to practice land surveying in the
State of Alaska and that this plat was made by
me or under my supervision. I declare that this
plat was based upon the monuments recovered
during State of Alaska Location Survey 2003
dated 10/10/03 and that all dimensions and
other details are accurate.
[Signature] 6-9-04
Robert B. Murphy LS-7331 Date

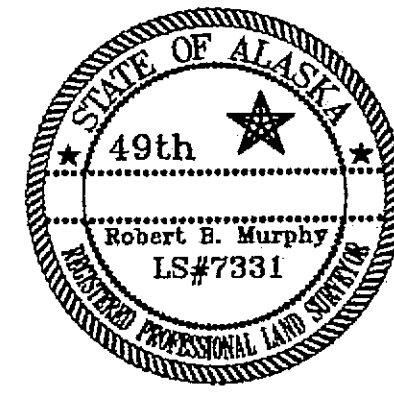
3/2004	CHG'D PERMIT DESIGNATION FROM "P" TO "TCE"	GY
01/04	ADD P-4	BY
DATE	REVISIONS	BY
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES RIGHT OF WAY MAP ALASKA PROJECT NO. 70168 NH-F-093-2(29) EGAN DR. / 10TH ST. INTERSECTION CAPACITY DRAWN ROW DATE 8/2003 SCALE 1"=20' CHECKED DATE SHEET Z-1 OF		



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 8/28/03

EASEMENT	OWNER	AREA	PURPOSE
E-5	BREEZE IN CORP.	1225 S.F.	HIGHWAY

TEMPORARY CONSTRUCTION EASEMENT			
TCE NO.	OWNER	AREA	PURPOSE
TCE-5	BREEZE IN CORP.	800 S.F.	CONSTRUCTION ACCESS



SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY that I am properly registered and licensed to practice land surveying in the State of Alaska and that this plat was made by me or under my supervision. I declare that this plat was based upon the monuments recovered during State of Alaska Locations Survey dated _____ and that all dimensions and other details are accurate.
[Signature] 6-2-04
 Robert B. Murphy LS#7331 Date

3/2004	CHG'D PERMIT DESIGNATION FROM "P" TO "TCE"	GY
01/04	ADD P-5	BY
DATE	REVISIONS	BY

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT NO. 70168
 NH-F-093-2(29)
 EGAN DR. / 10TH ST. INTERSECTION CAPACITY

DRAWN	ROW	DATE	8/2003	SCALE	1"=20'
CHECKED	DATE	SHEET	Z-2	OF	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-2(29)/70168	2004		

GENERAL NOTES

Design:.....AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002, with the latest Interim Specifications.

Construction:.....State of Alaska Standard Specifications for Highway Construction 2002, Standard Modifications and Special Provisions.

Concrete:.....Class "A-A" f'c = 4000 psi for Approach Slab.
Class "S" & "W" f'c = 3000 psi for Navigation Clearance Gauge

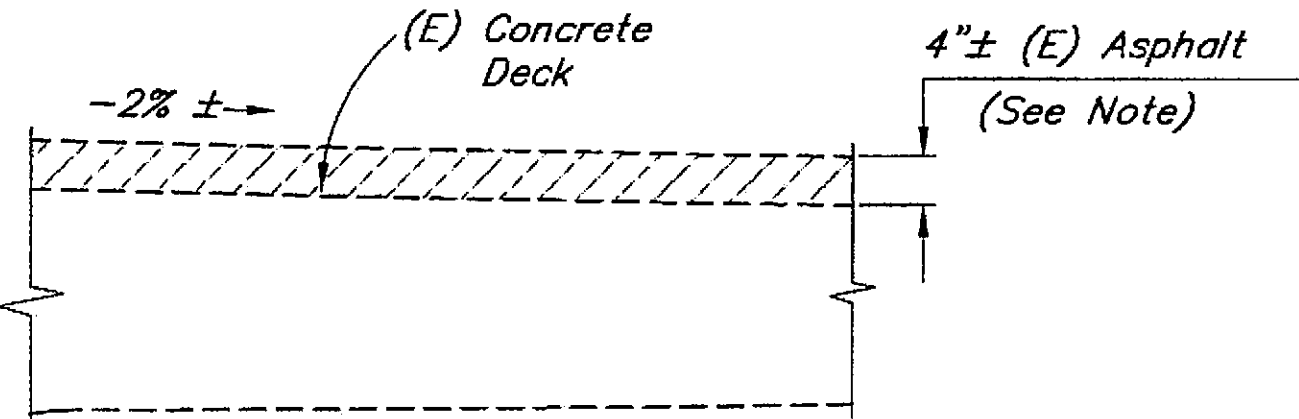
Reinforcing Steel:.... ASTM A706 Fy = 60,000 psi

Structural Steel:.....ASTM A709,
Grade 50 Fy = 50,000 psi

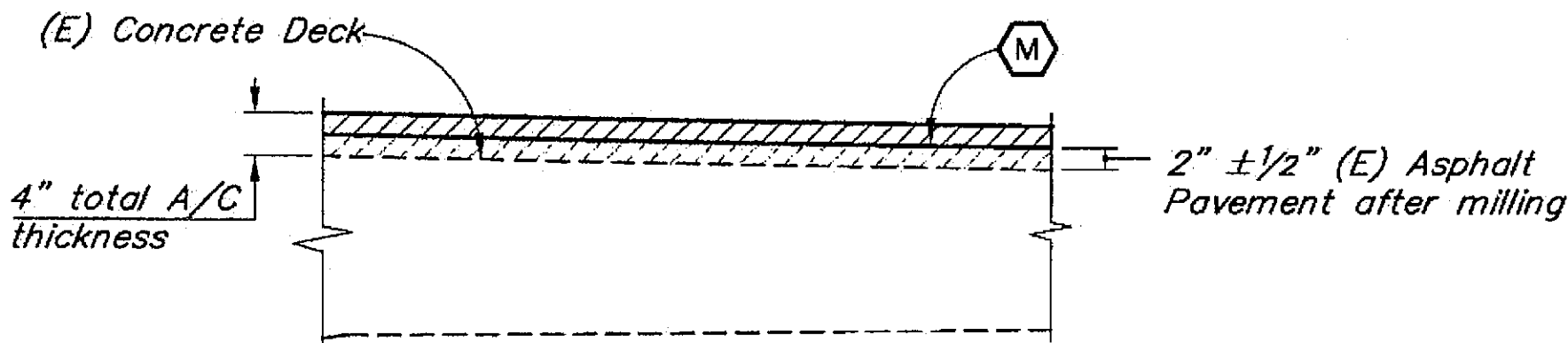
Stage construct Approach Slab and Expansion Joints about E Roadway. Furnish and install each new strip seal in one continuous 36'-6" piece.

Construct in following sequence:

1. Mill A/C
2. Install Expansion Joint, Approach Slab and Plumbing.
3. Install Asphalt Pavement.
4. Install Polymer Nosing.



EXISTING PAVEMENT DETAIL



PAVEMENT DETAIL - THIS CONTRACT



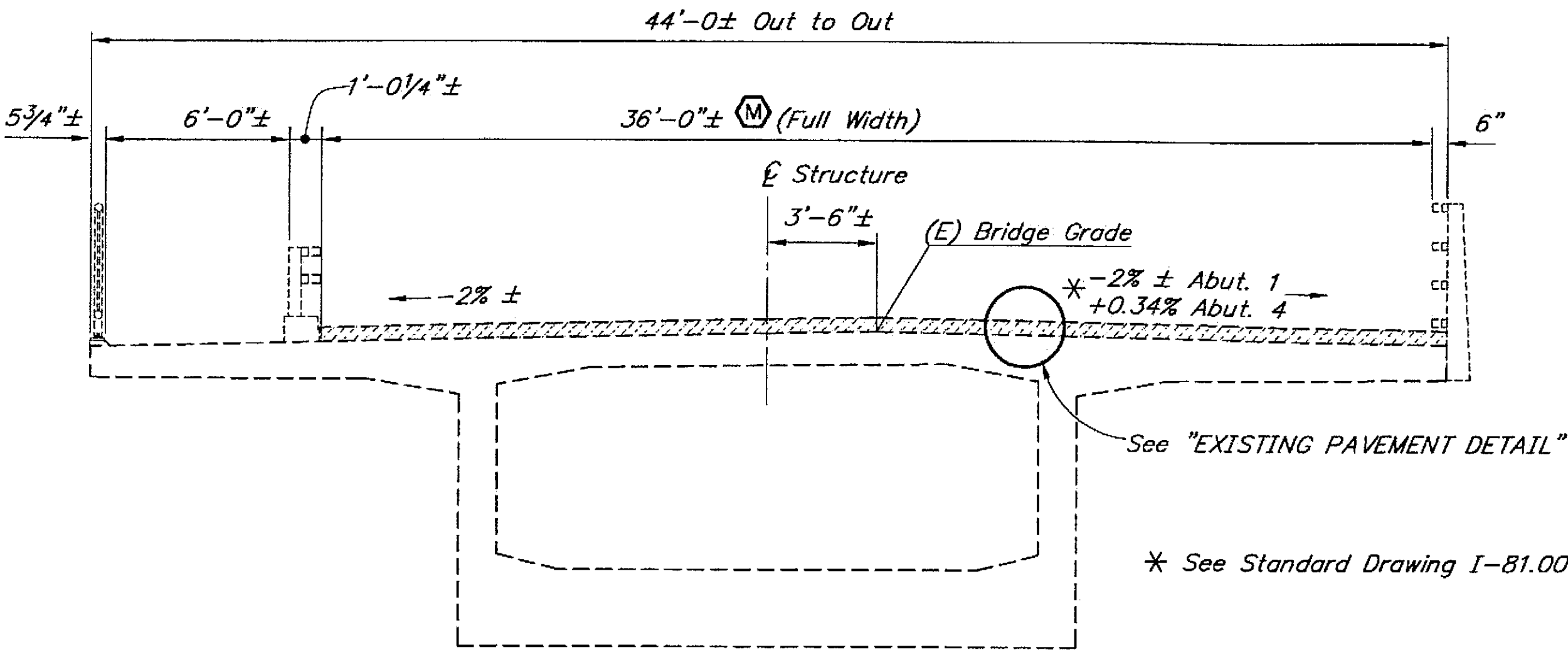
NOTE:

Existing pavement is deeply rutted in some areas. Mill to leave a uniform thickness of 2" ± 1/2" of existing pavement.

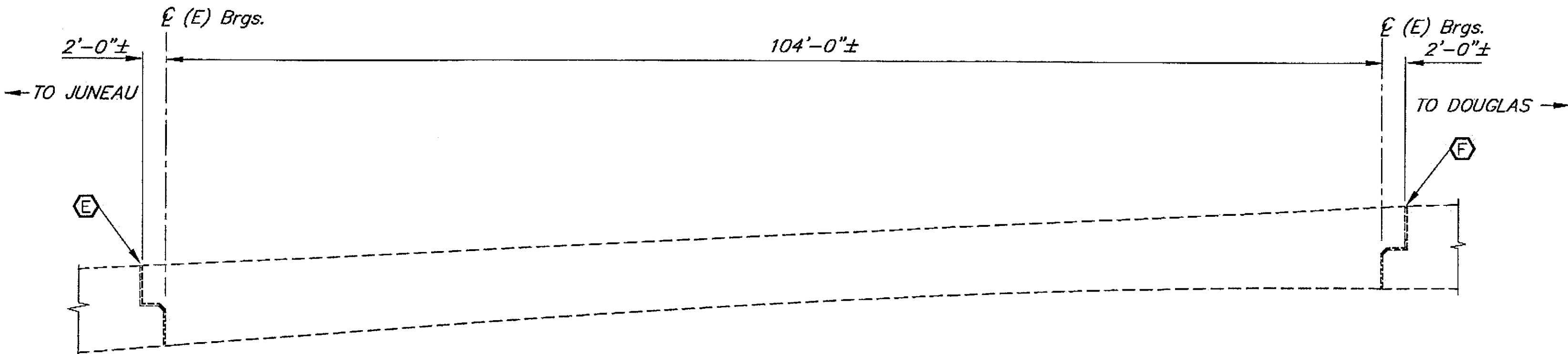
LEGEND

- E = Expansion Joint Replacement
- F = Expansion Joint Modification
- M = Mill Existing Pavement
- (E) = Existing
- = Existing
- = This Contract

Elevations, bearings and dimensions are based on Shop Drawings and Contract Drawings. Verify all controlling field dimensions before ordering or fabricating any material.



EXISTING TYPICAL SECTION



EXISTING SUSPENDED SPAN



BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	UNIT	SUBST.	SUPERST.	TOTAL
401(1)	Asphalt Concrete Pavement, SP, Type A	Ton		585	585
401(2)	Asphalt Cement, Grade PG 64-28	Ton		35	35
402(1)	STE- 1 Asphalt for Tack Coat	Ton		2	2
408(1)	Pavement Cold Planing	SY		5,000	5,000
501(2)	Class A-A Concrete	LS		All Req'd.	All Req'd.
501(9)	Expansion Joint Replacement	LF		110	110
501(10)	Expansion Joint Modification	LF		37	37
501(11)	Drill & Bond Dowels	Each		71	71
501(12)	Navigation Clearance Gauge Replacement	LS		All Req'd.	All Req'd.
503(2)	Epoxy Coated Reinforcing Steel	LB		6270	6270
660(14)	Navigation Channel Light Replacement	Each		6	6

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Date 9/24/07
PE [Signature]



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION

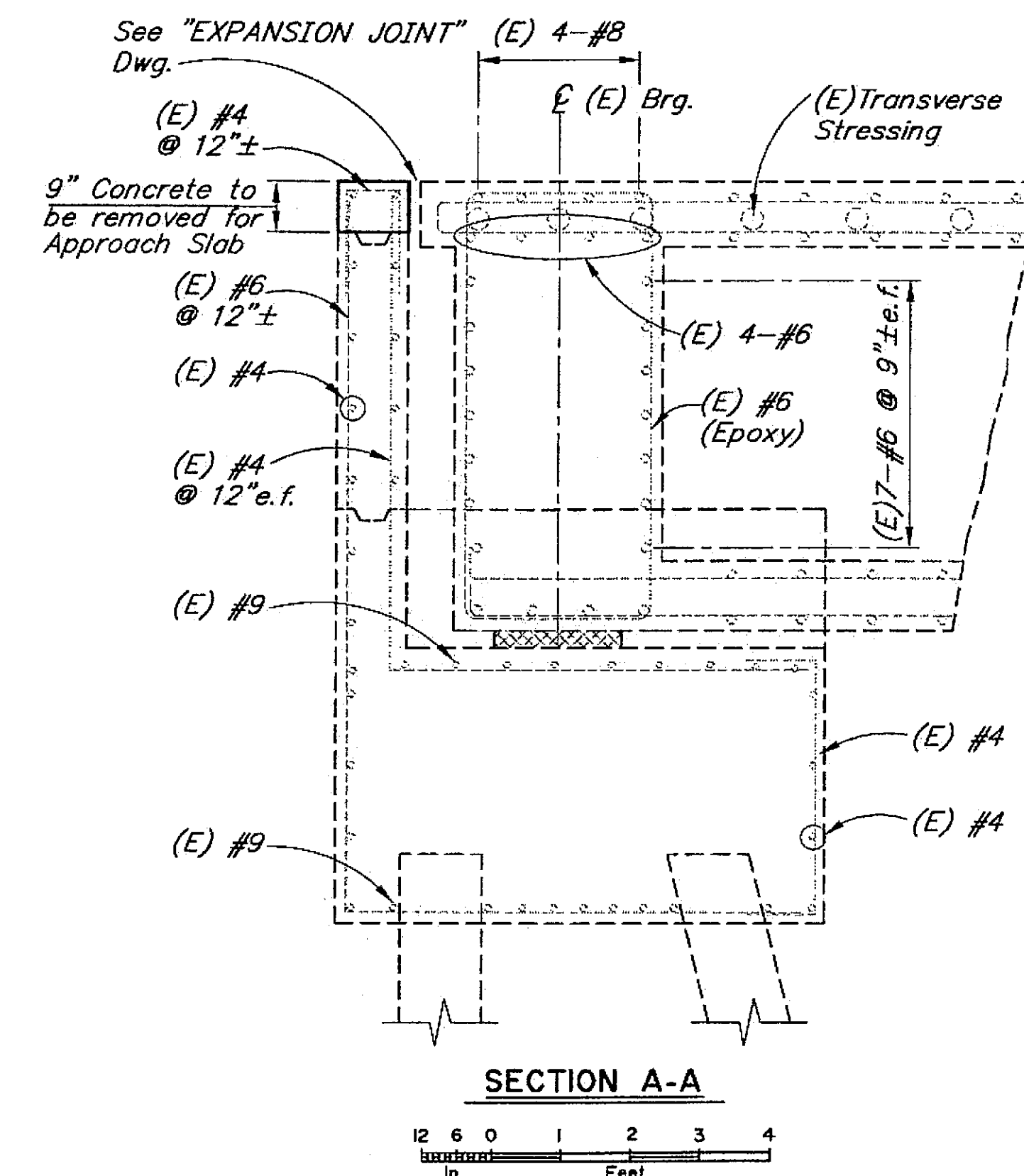
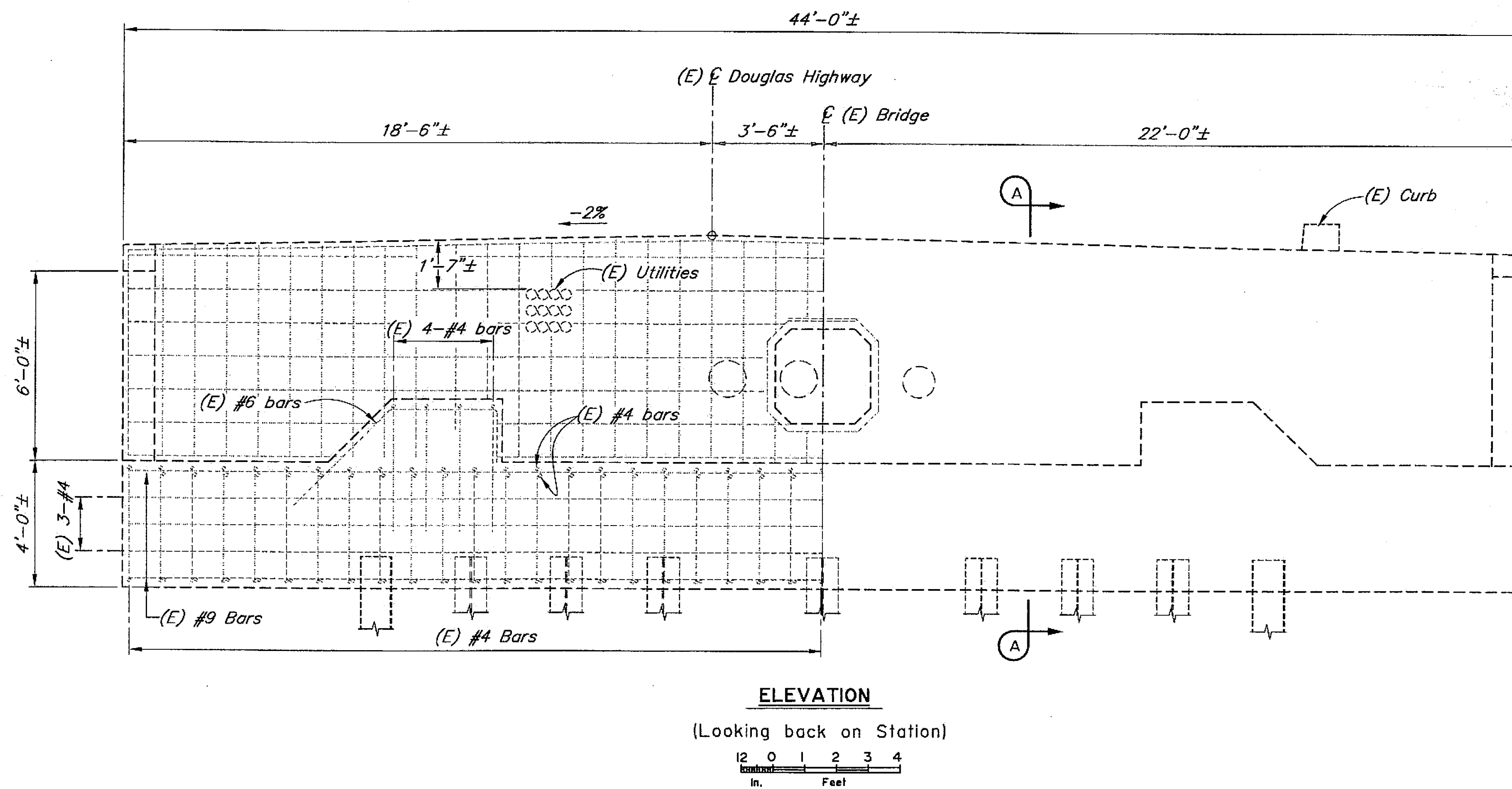
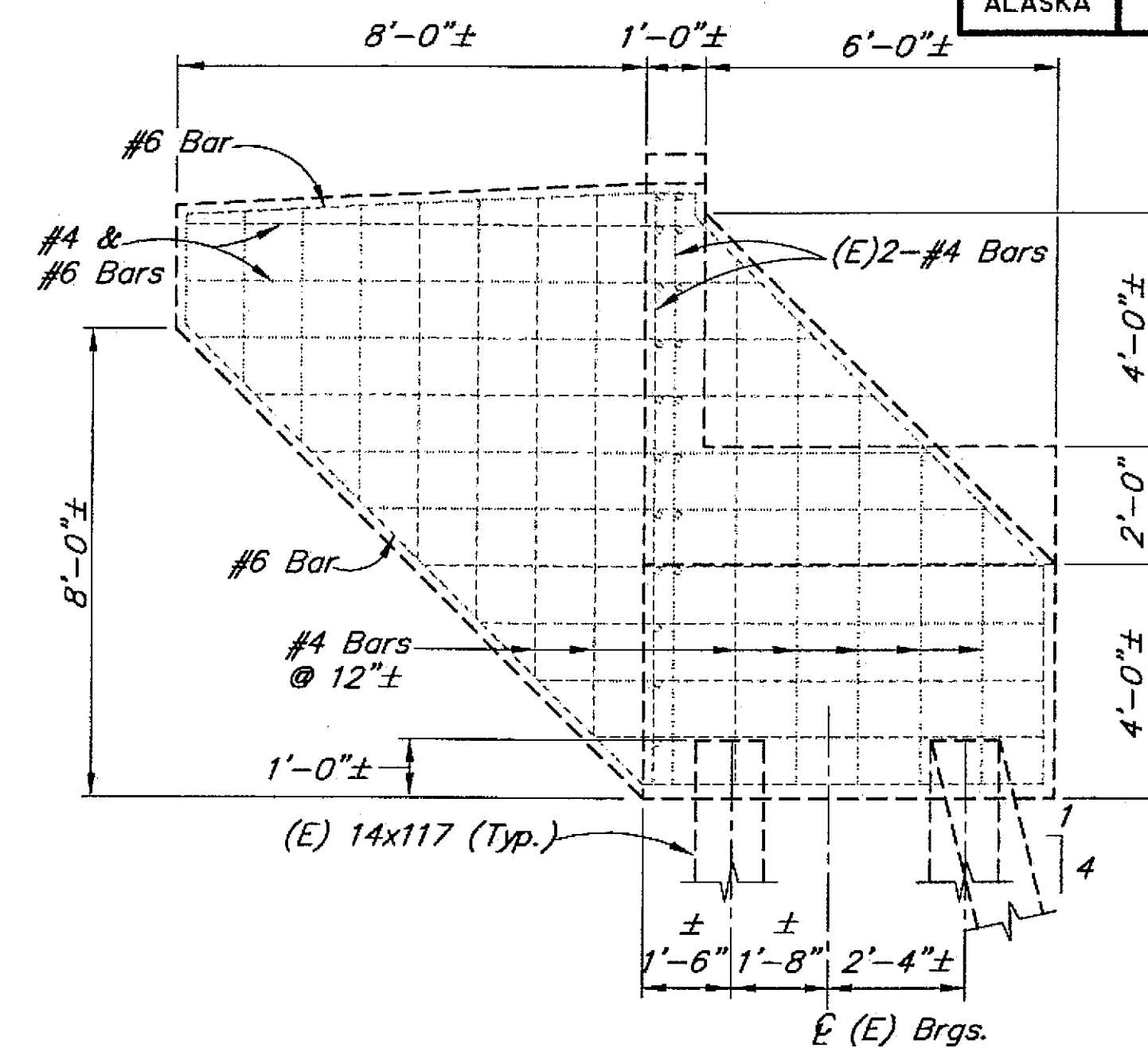
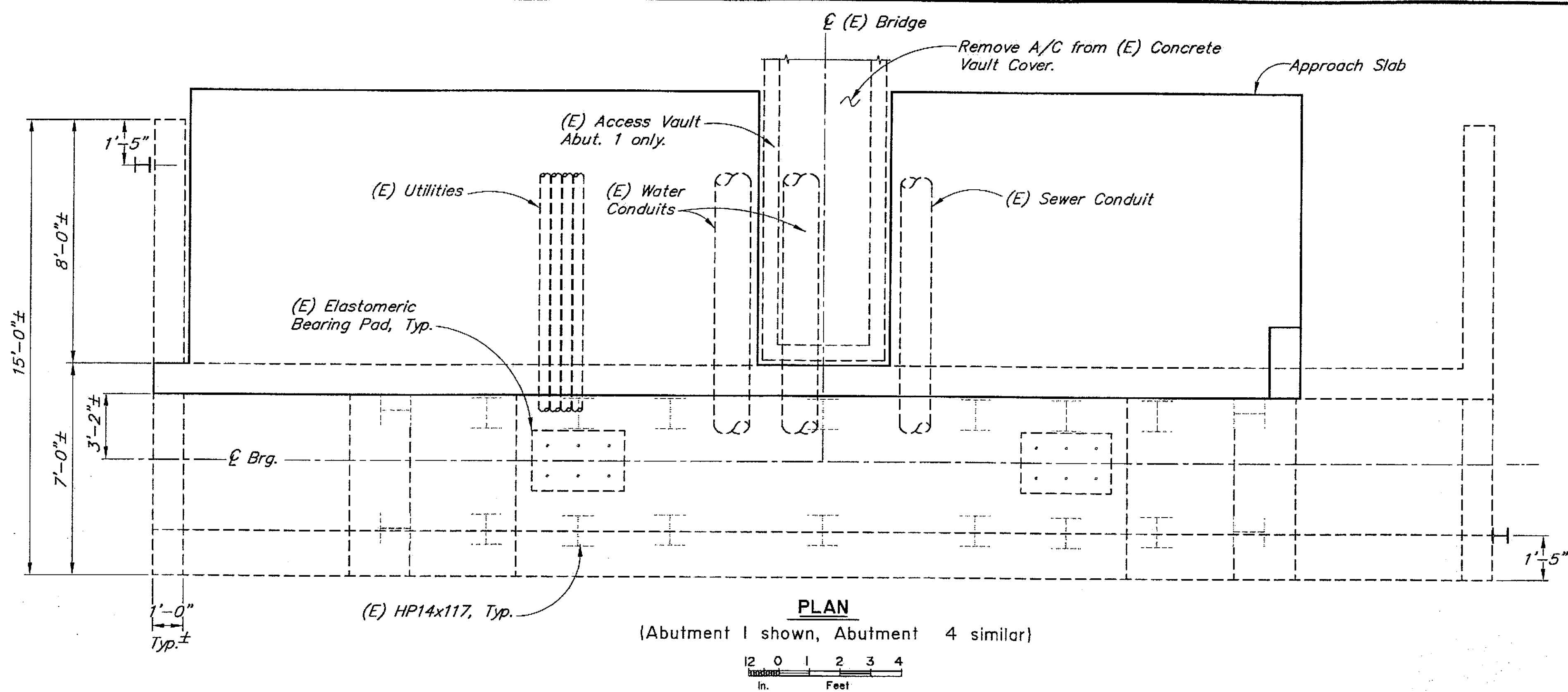
GASTINEAU CHANNEL BRIDGE
10TH & EGAN IMPROVEMENTS-PHASE I
TYPICAL SECTION & SUSPENDED SPAN



BRIDGE NO. 740
DWG. NO. 2

DESIGNED BY: George Imbsen	CHECKED: Derek Soden
DRAWN BY: G. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Derek Soden

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-2(29)/70168	2004		



LEGEND

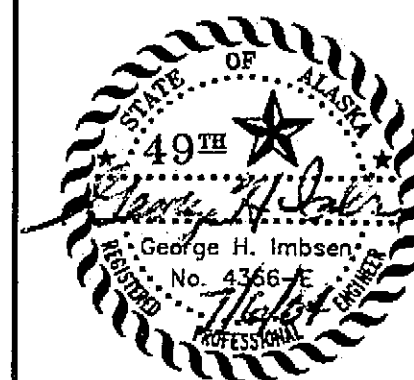
(E) = Existing
--- = Existing
— = This Contract

Elevations, bearings and dimensions are based on Shop Drawings and Contract Drawings. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Derek Soden
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Derek Soden

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Date 7/23/07

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION



GASTINEAU CHANNEL BRIDGE
10TH & EGAN IMPROVEMENTS-PHASE I
ABUTMENTS



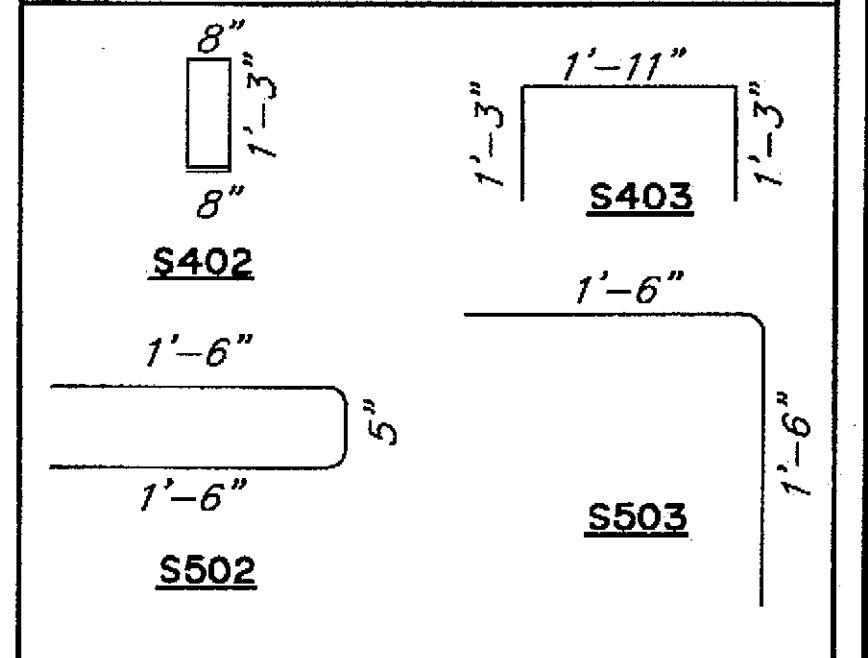
BRIDGE NO. 740
DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-2(29)/70168	2004		

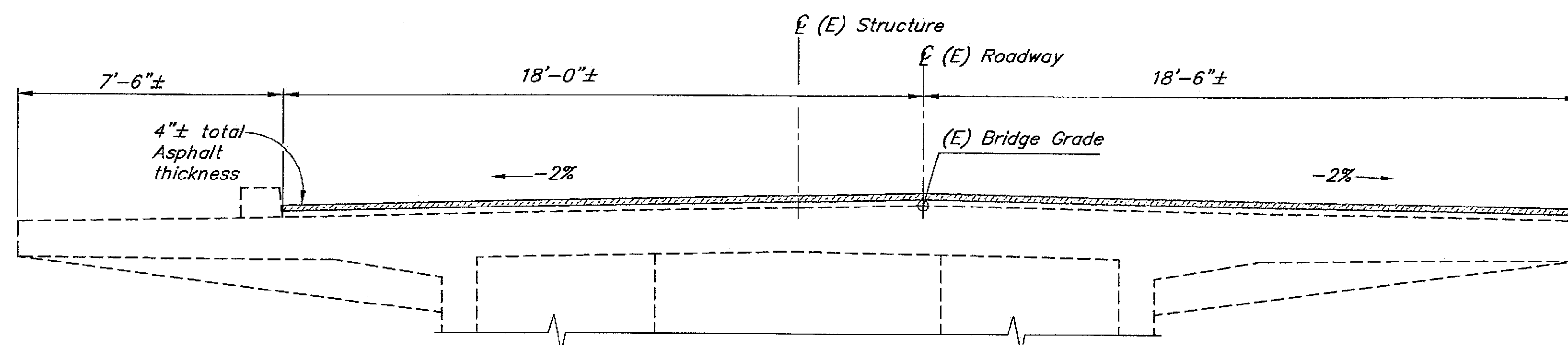
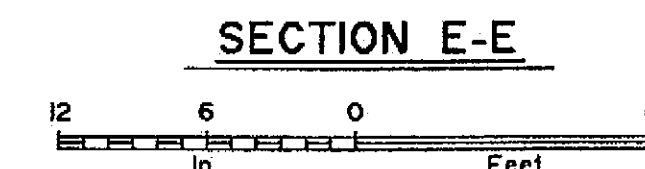
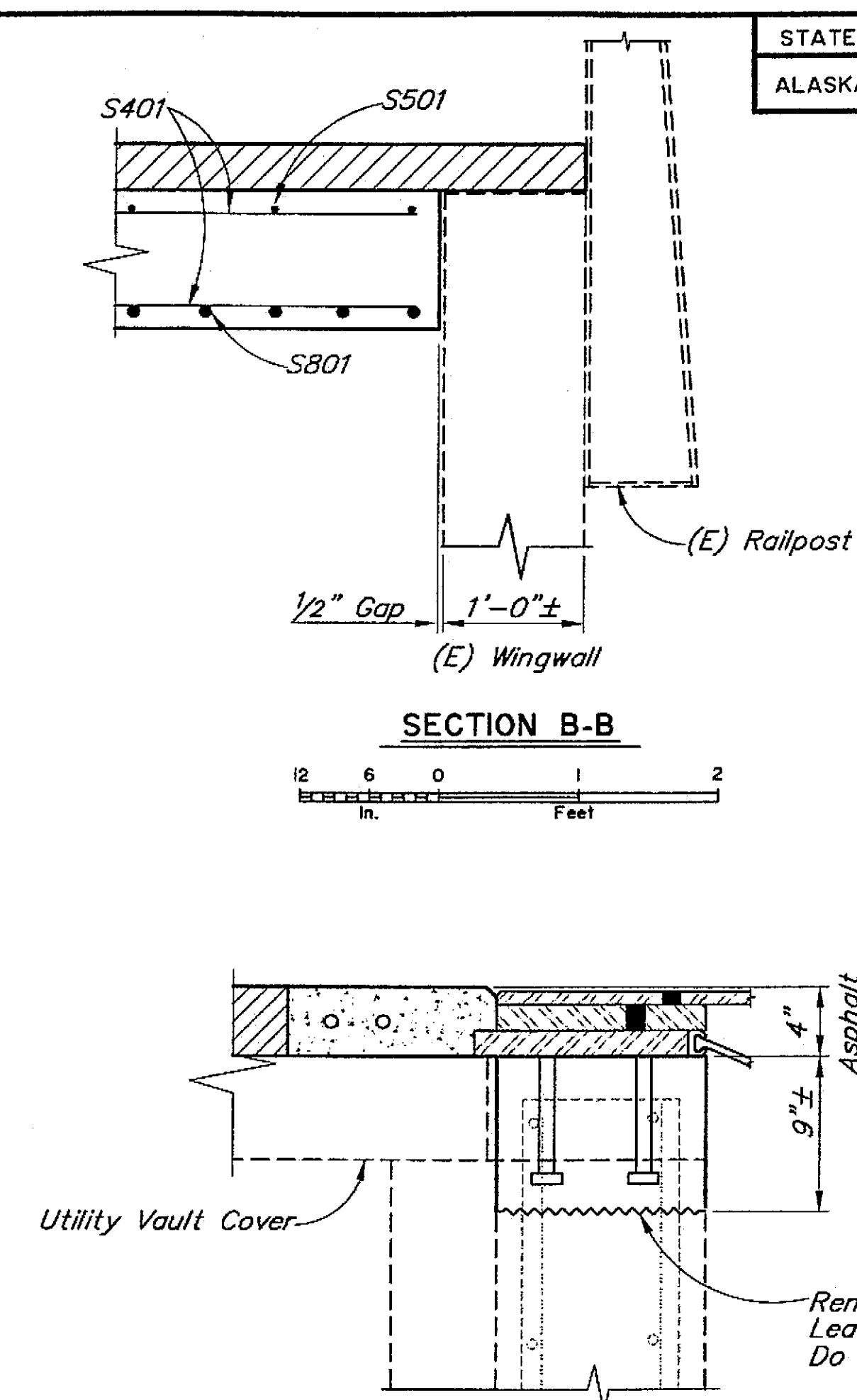
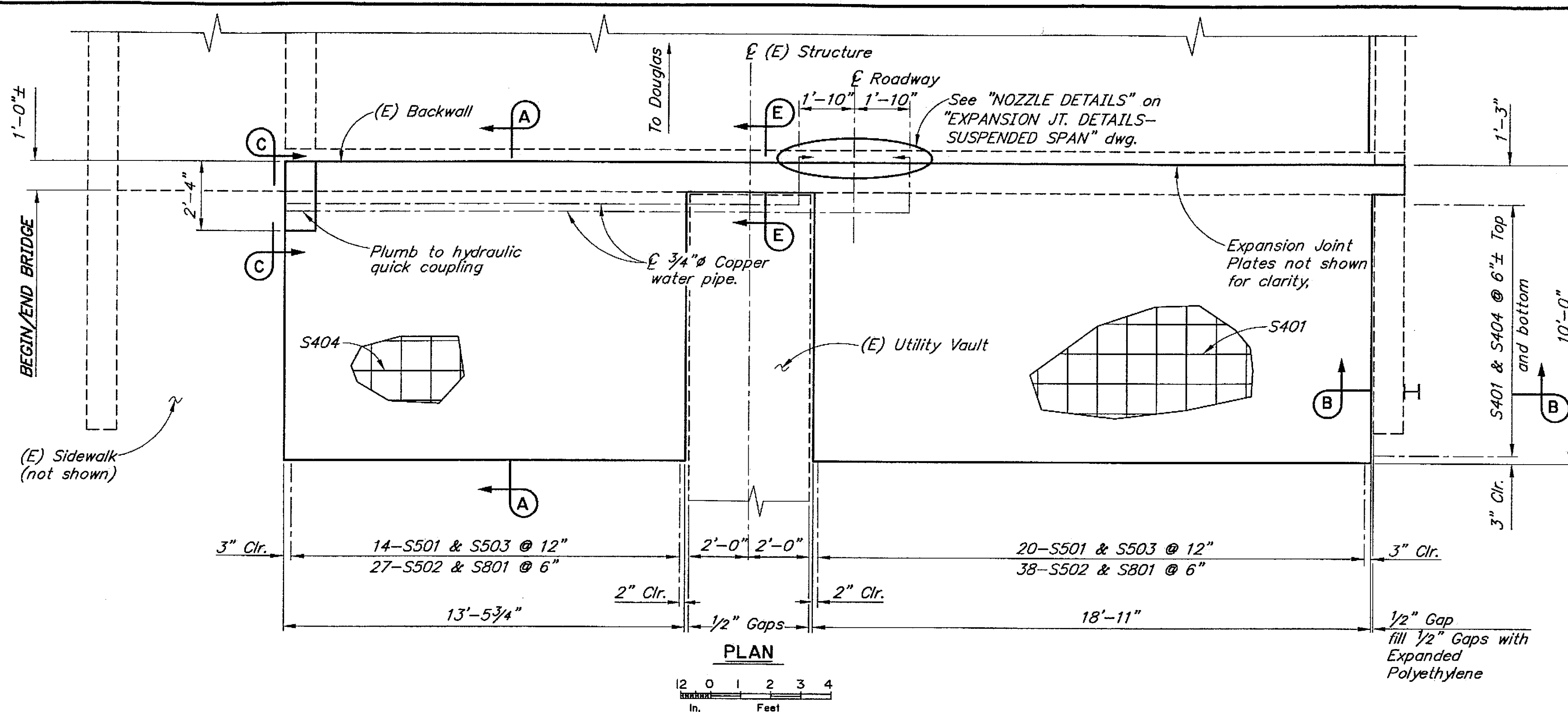
REINFORCING STEEL
SCHEDULE

MARK	SIZE	NO.	LENGTH	TYPE
S401	4	36	18'-6"	—
S402	4	2	4'-6"	Bent
S403	4	2	4'-5"	Bent
S404	4	36	13'-0 ³ / ₄ "	—
S501	5	34	9'-7"	—
S502	5	65	3'-5"	Bent
S503	5	34	3'-0"	Bent
S801	8	65	8'-8"	—

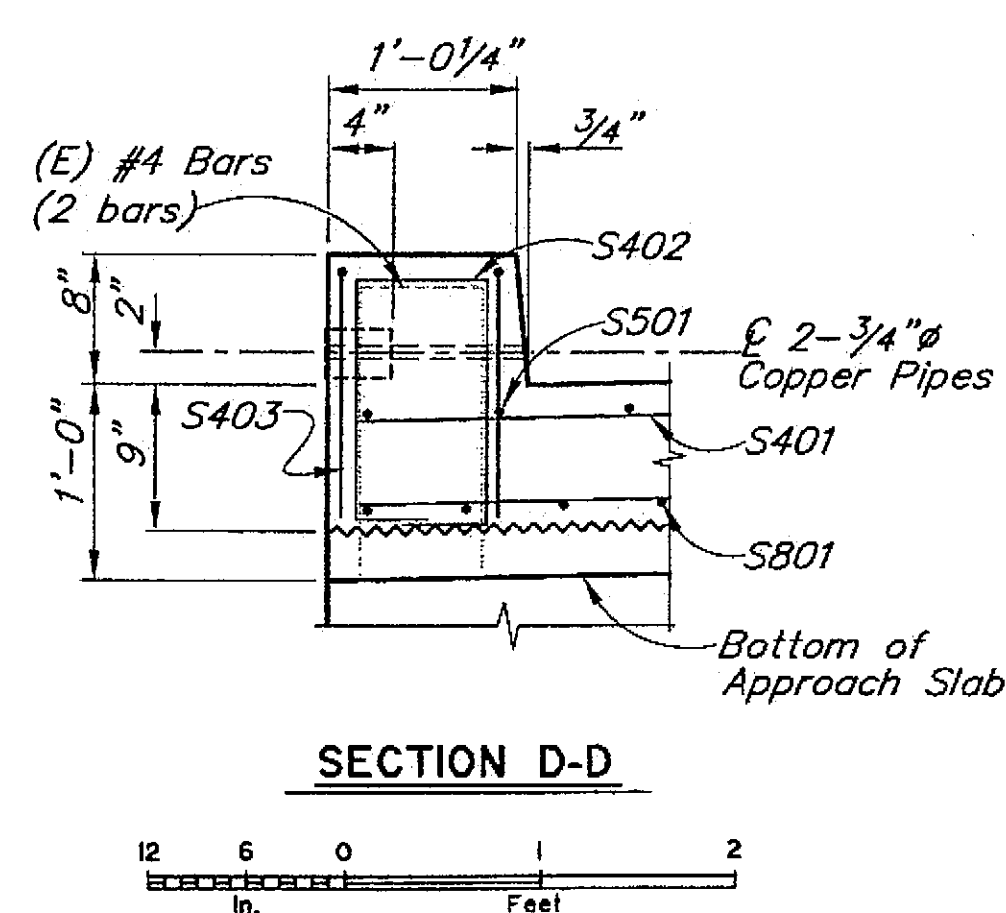
BENDING DIAGRAM



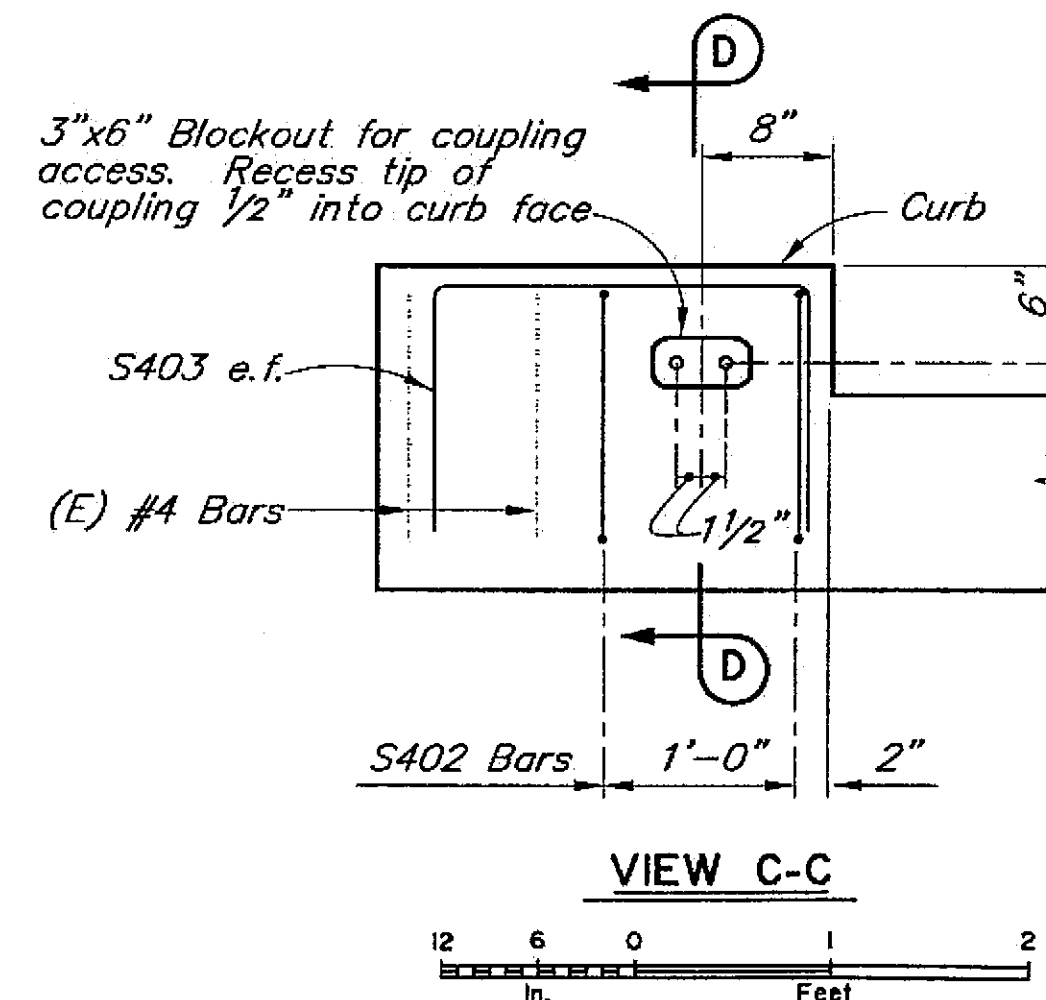
Epoxy coat all reinforcing steel. Drill & bond all S503 dowels in 1'-2" min. holes.



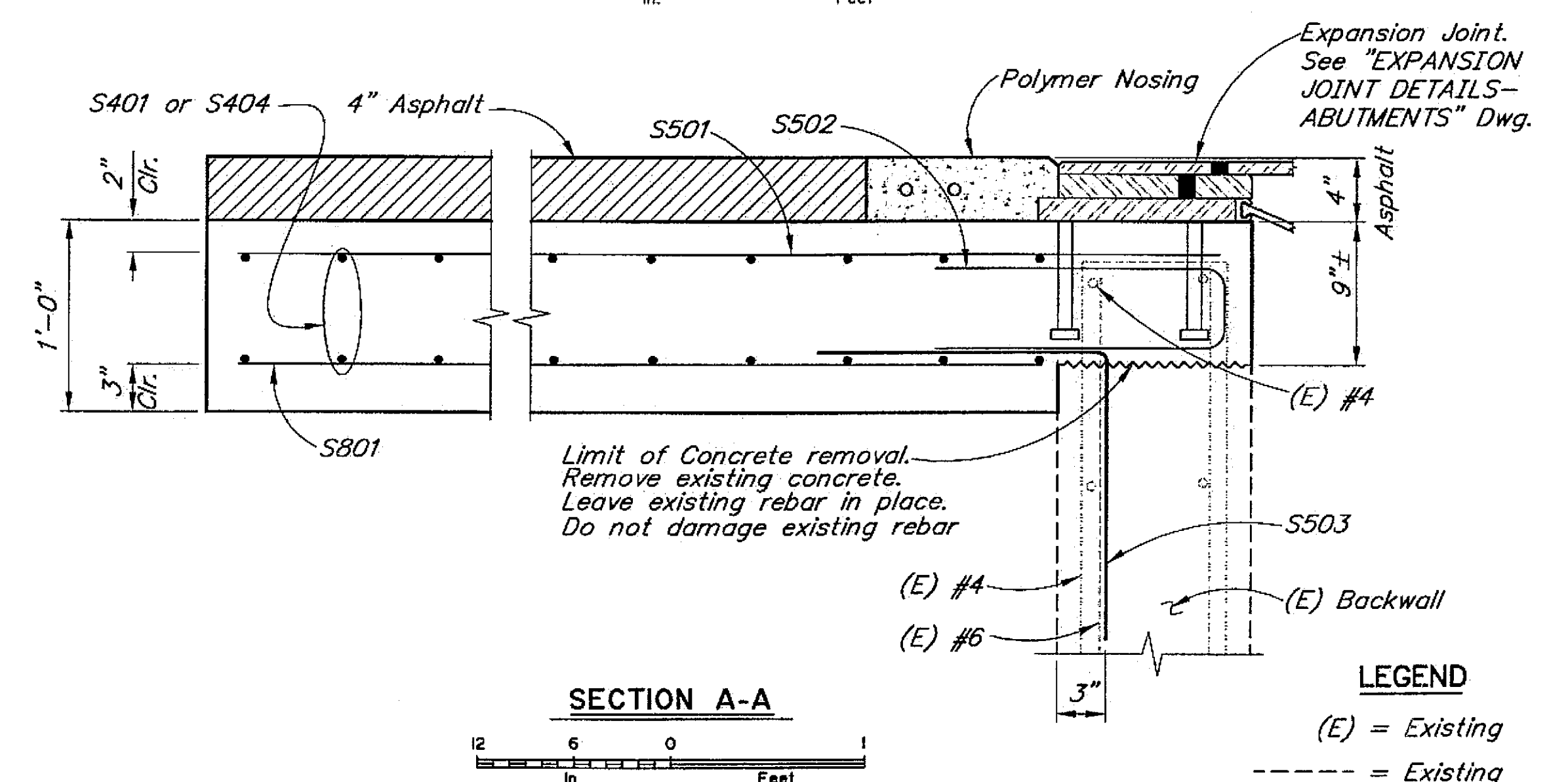
TYPICAL SECTION SHOWING DECK



SECTION D-D



VIEW C-C



SECTION A-A

LEGEND

(E) = Existing
----- = Existing
———— = This Contract

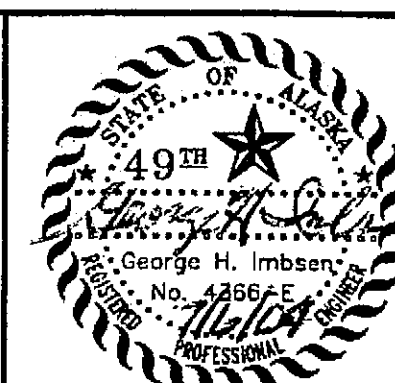
Elevations, bearings and dimensions are based on Shop Drawings and Contract Drawings. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: <i>George Imbsen</i>	CHECKED: <i>Derek Soden</i>
DRAWN BY: <i>C. Anderson</i>	CHECKED: <i>George Imbsen</i>
QUANTITIES BY: <i>George Imbsen</i>	CHECKED: <i>Derek Soden</i>

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

PE [Signature] Date 9/27/08

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION

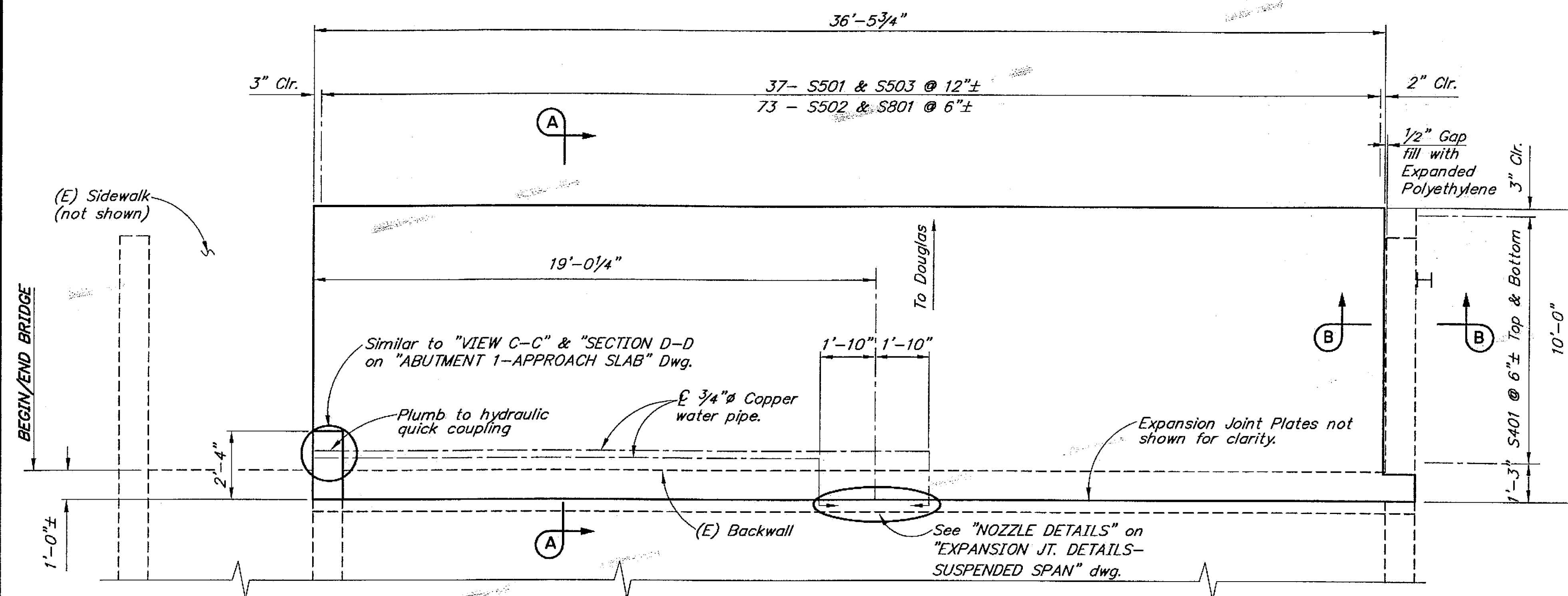


**GASTINEAU CHANNEL BRIDGE
10TH & EGAN IMPROVEMENTS—PHASE I
ABUTMENT 1 APPROACH SLAB**

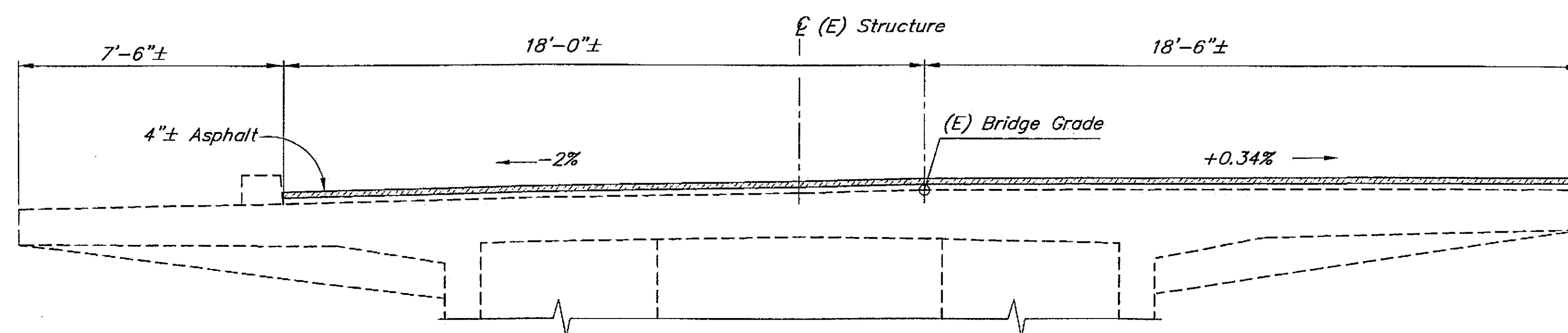


BRIDGE NO. 740
DWG. NO. 4

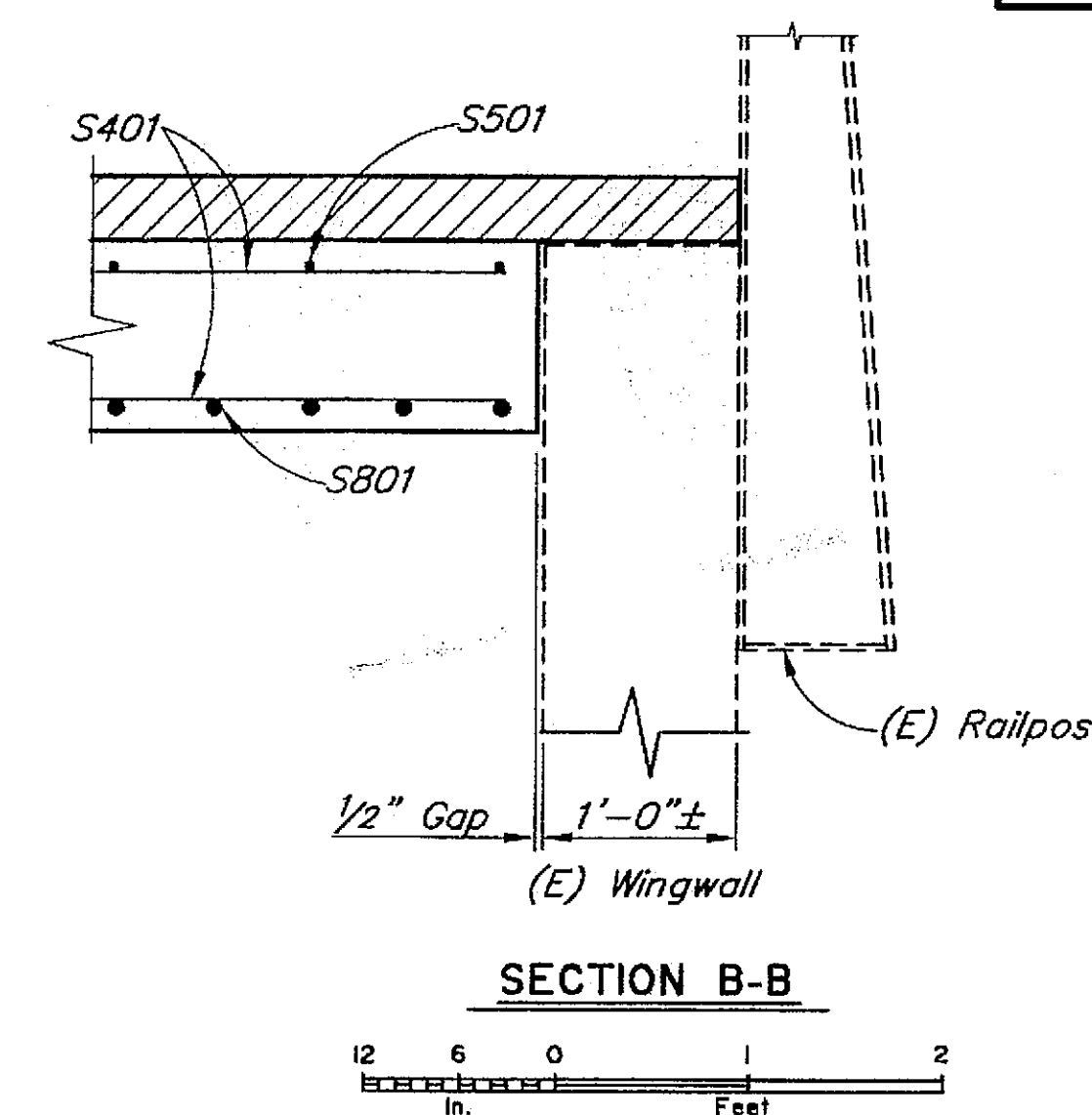
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-2(29)/70168	2004		



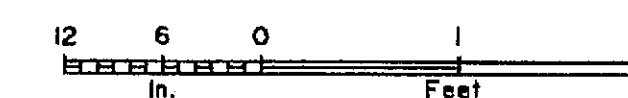
PLAN



TYPICAL SECTION SHOWING DECK



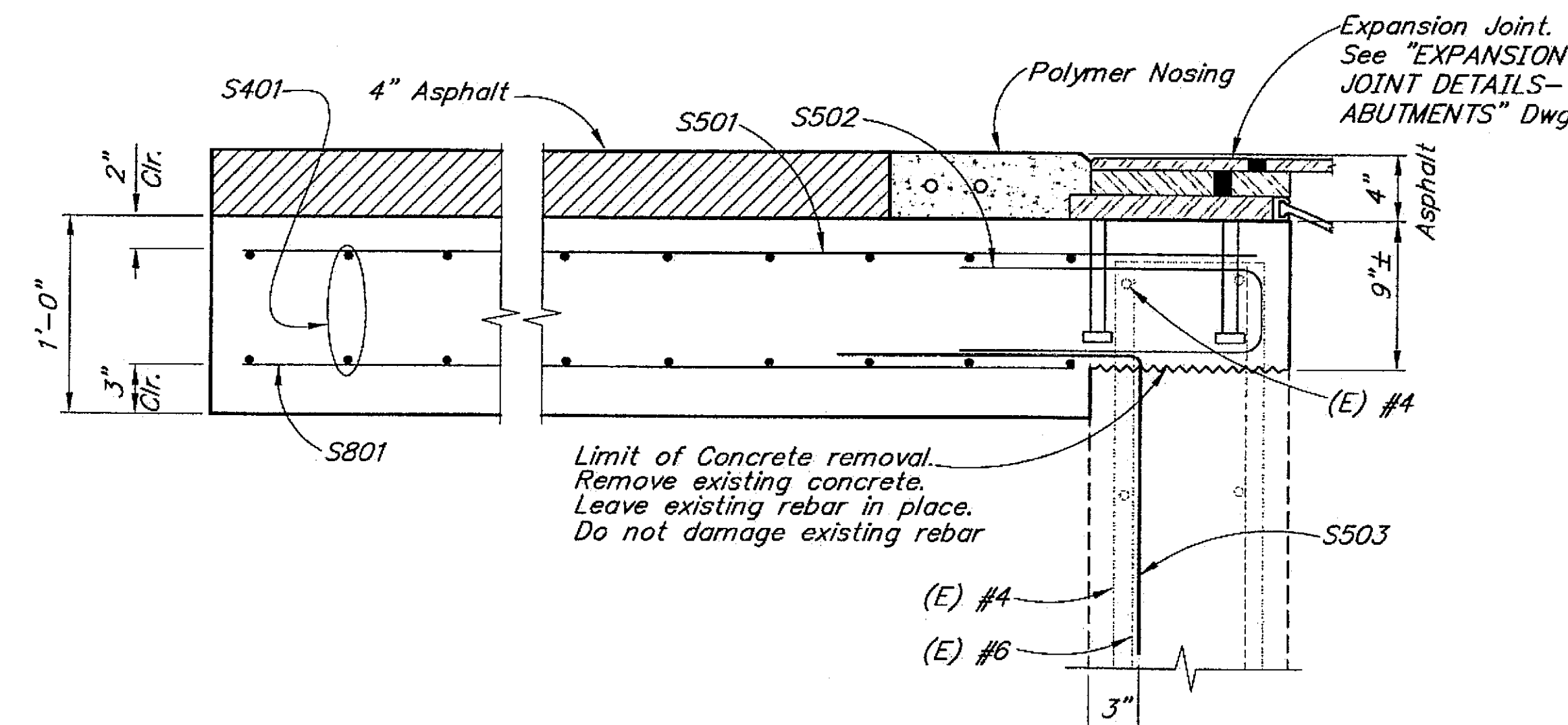
SECTION B-B



REINFORCING STEEL SCHEDULE				
MARK	SIZE	NO.	LENGTH	TYPE
S401	4	36	36'-0 3/4"	-
S402	4	2	4'-6"	Bent
S403	4	2	4'-5"	Bent
S501	5	37	9'-7"	-
S502	5	73	3'-5"	Bent
S503	5	37	3'-0"	Bent
S801	8	73	8'-8"	-

BENDING DIAGRAM

Epoxy coat all reinforcing steel. Drill & bond all S503 dowels in 1'-2" min. holes.



SECTION A-A



LEGEND

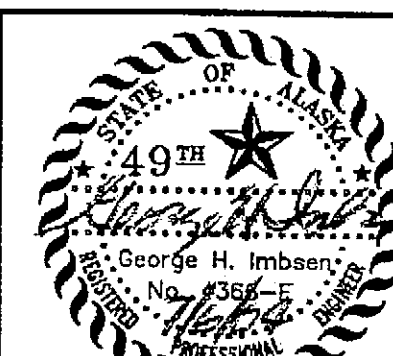
(E) = Existing
 --- = Existing
 — = This Contract

Elevations, bearings and dimensions are based on Shop Drawings and Contract Drawings. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Derek Soden
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Derek Soden

Project As-Built Drawings have been reviewed by the Project Engineer and represent the best of my knowledge, the project as constructed.
 PE: [Signature] Date: 7/27/07

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 BRIDGE SECTION

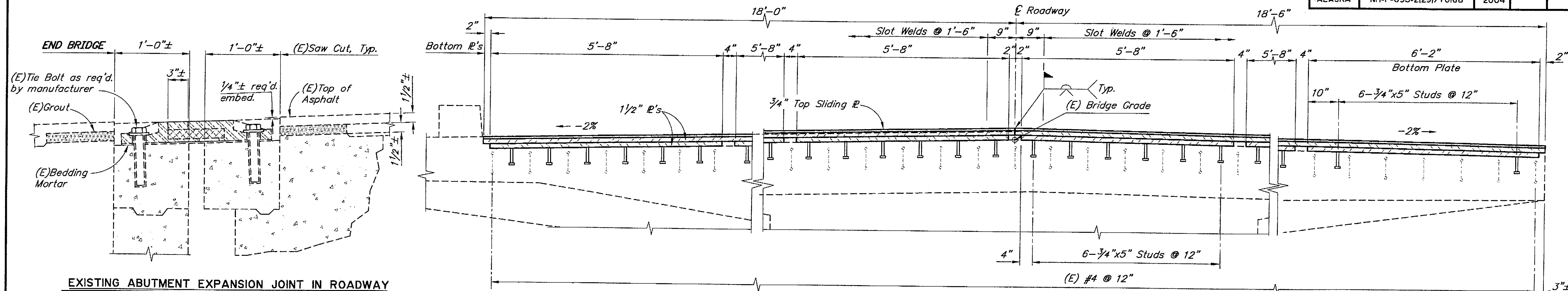


GASTINEAU CHANNEL BRIDGE
 10TH & EGAN IMPROVEMENTS-PHASE I
 ABUTMENT 4 APPROACH SLAB

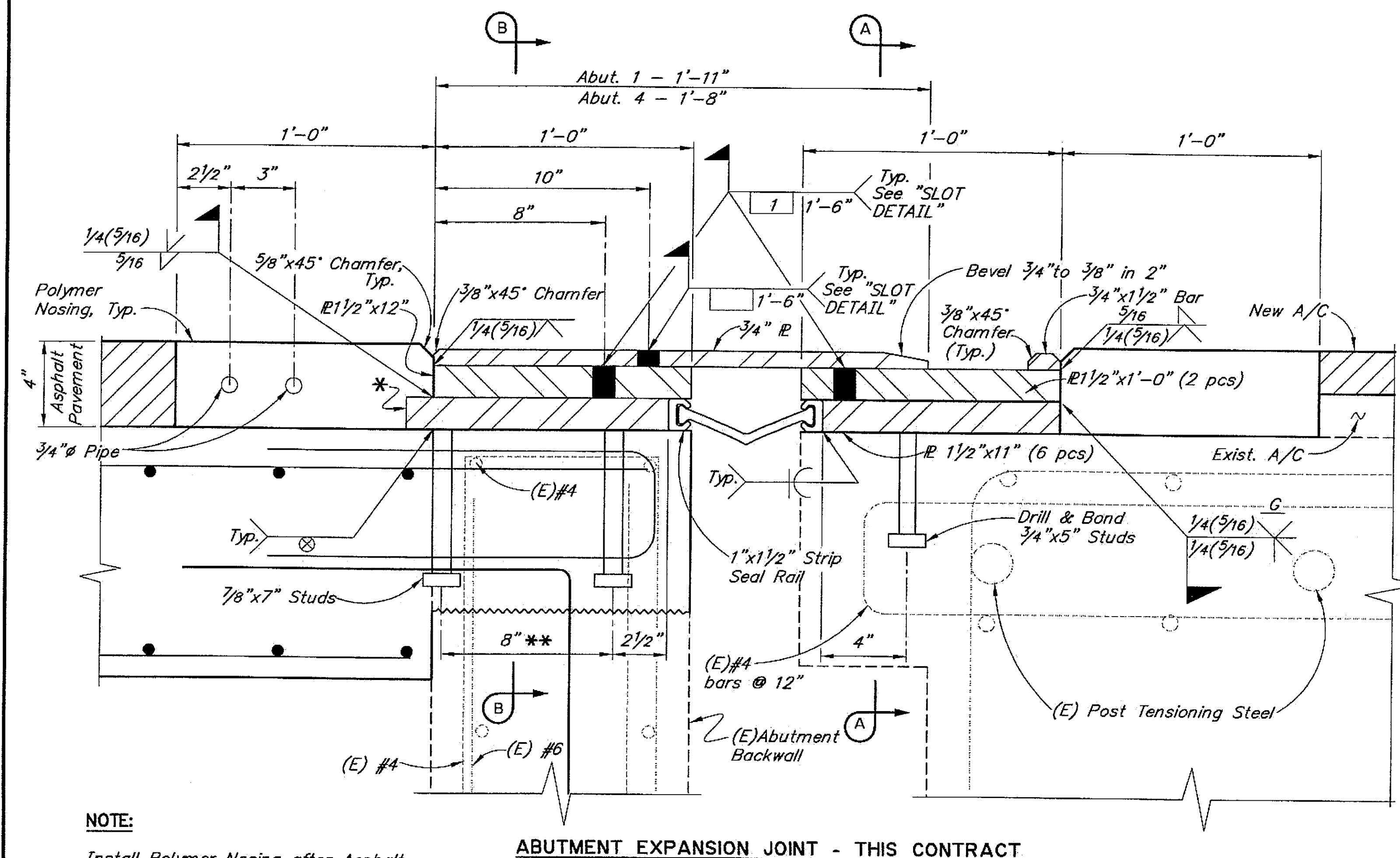


BRIDGE NO. 740
 DWG. NO. 5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-21291/70168	2004		

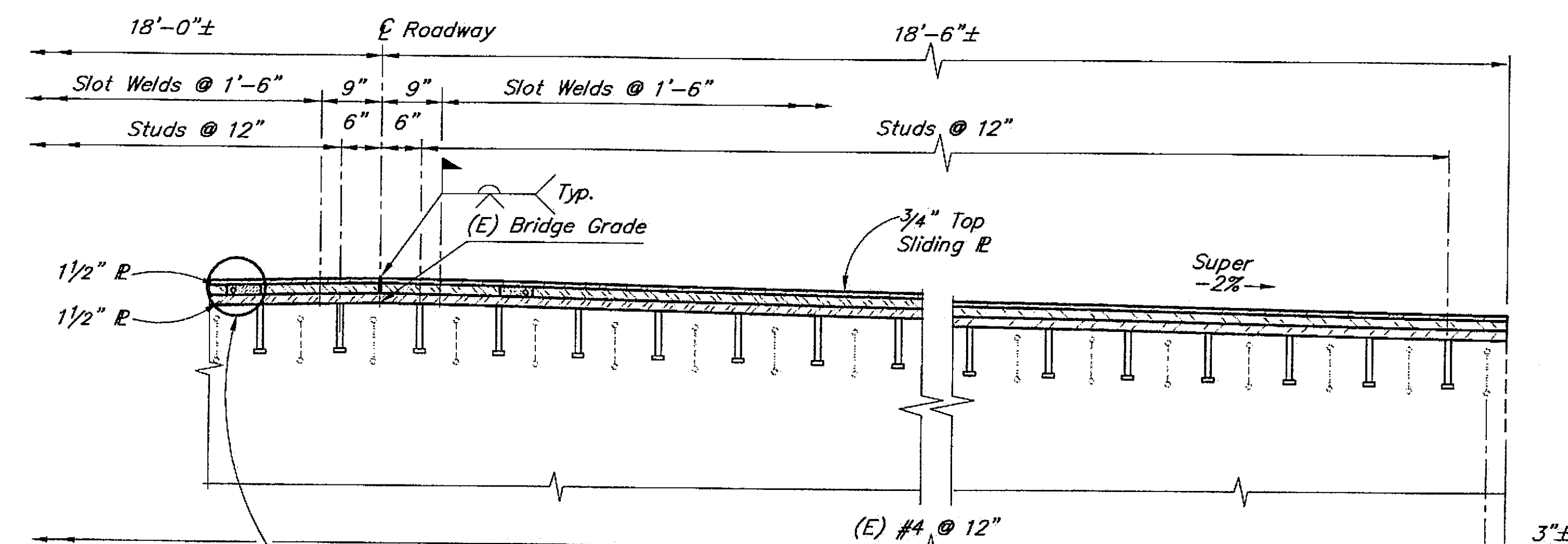


SECTION A-A
(Abutment 1 shown, Abutment 4 similar)



NOTE:

Install Polymer Nosing after Asphalt Pavement and Expansion Joint. Saw cut Asphalt Pavement for Polymer Nosing.



SECTION B-B

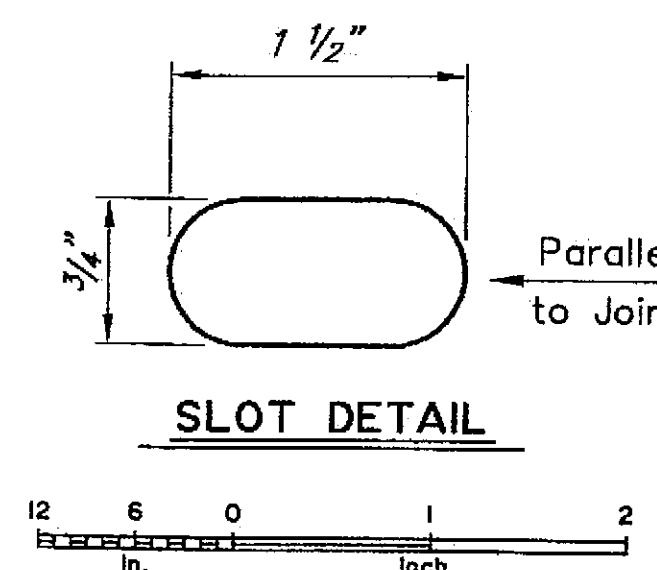
NOTES:

- * See "EXPANSION JT. DETAILS-SUSPENDED SPAN" Dwg. for cut-out detail for this steel plate.
- ** Except @ west Wingwalls and Abutment 1 utility vault use 5 1/2" space.

LEGEND

- (E) = Existing
- = Existing
- = This Contract

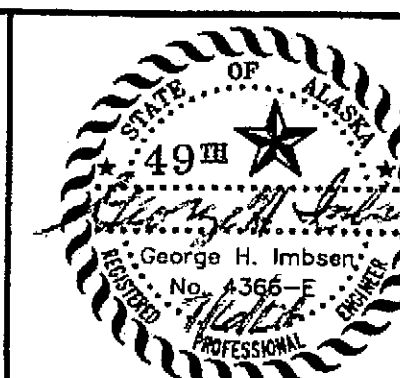
Elevations, bearings and dimensions are based on Shop Drawings and Contract Drawings. Verify all controlling field dimensions before ordering or fabricating any material.



DESIGNED BY: George Imbsen	CHECKED: Derek Soden
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Derek Soden

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [Signature] Date 3/21/07

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION

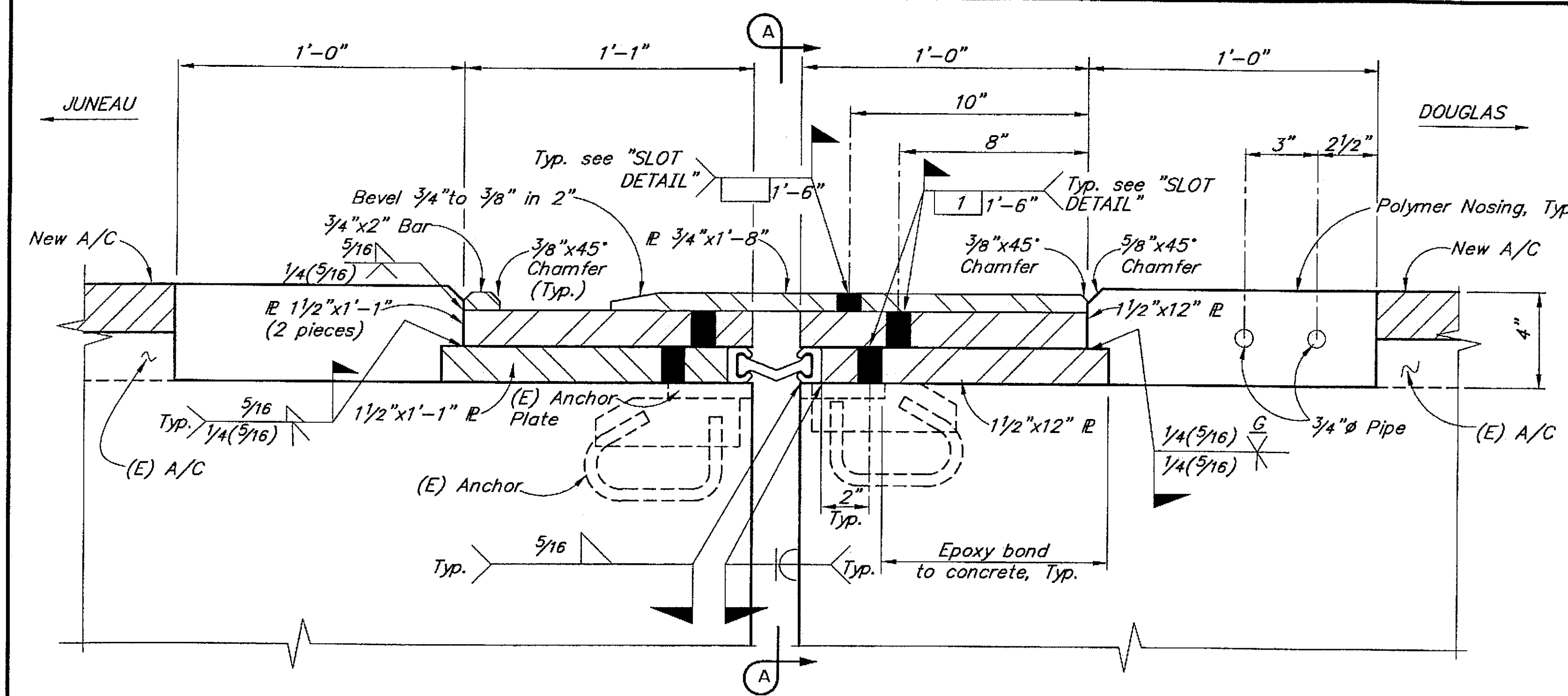


GASTINEAU CHANNEL BRIDGE
10TH & EGAN IMPROVEMENTS-PHASE I
EXPANSION JOINT DETAILS-ABUTMENTS

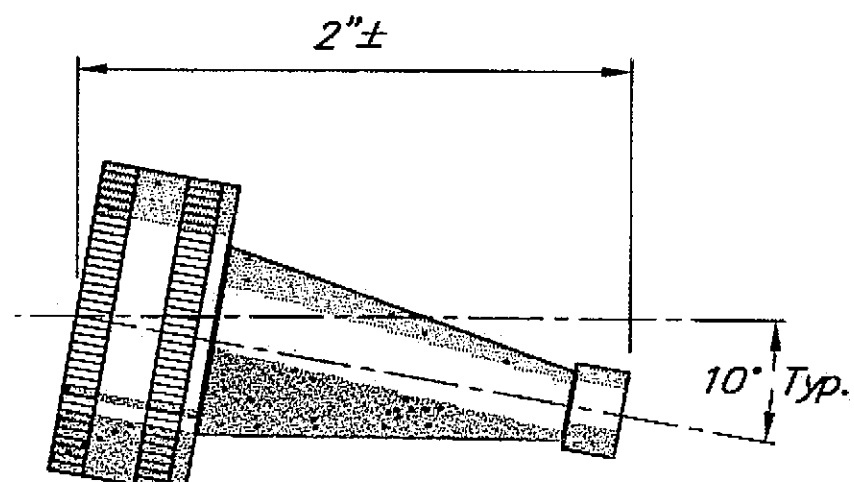
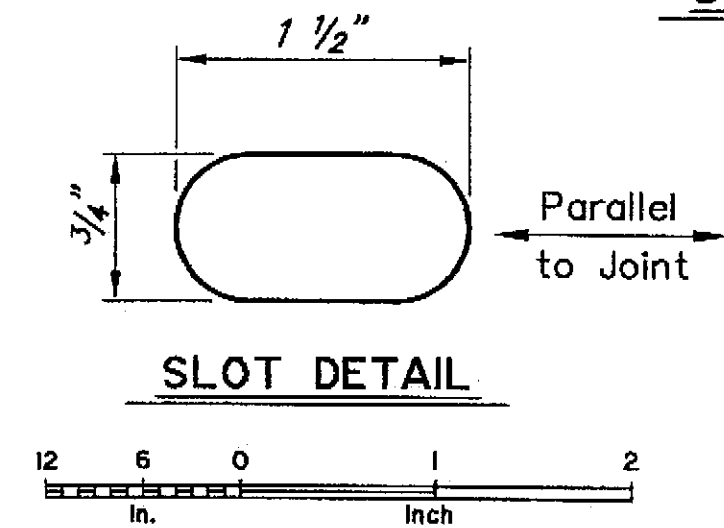


BRIDGE NO. 740
DWG. NO. 6

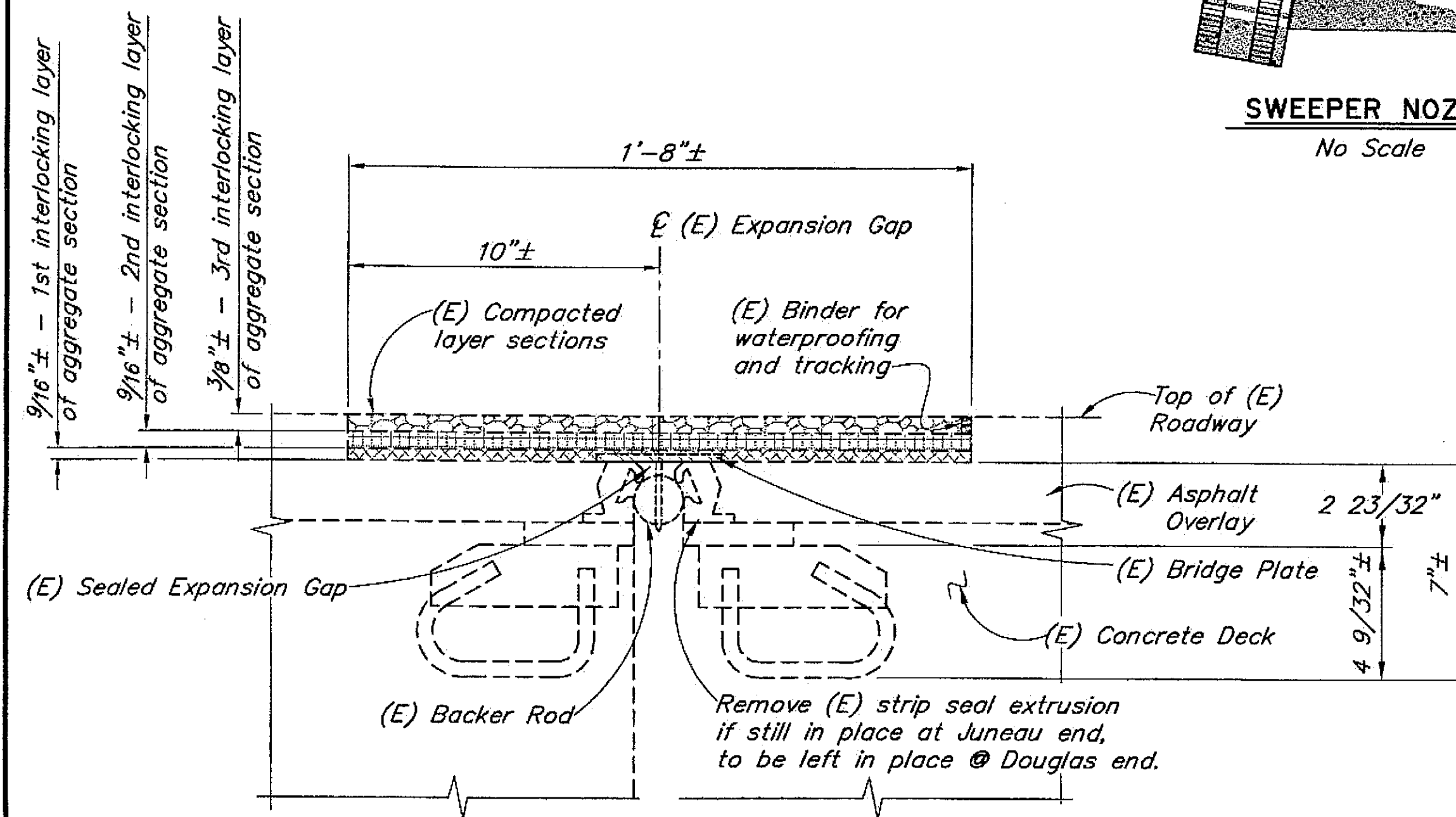
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-2(29)/70168	2004		



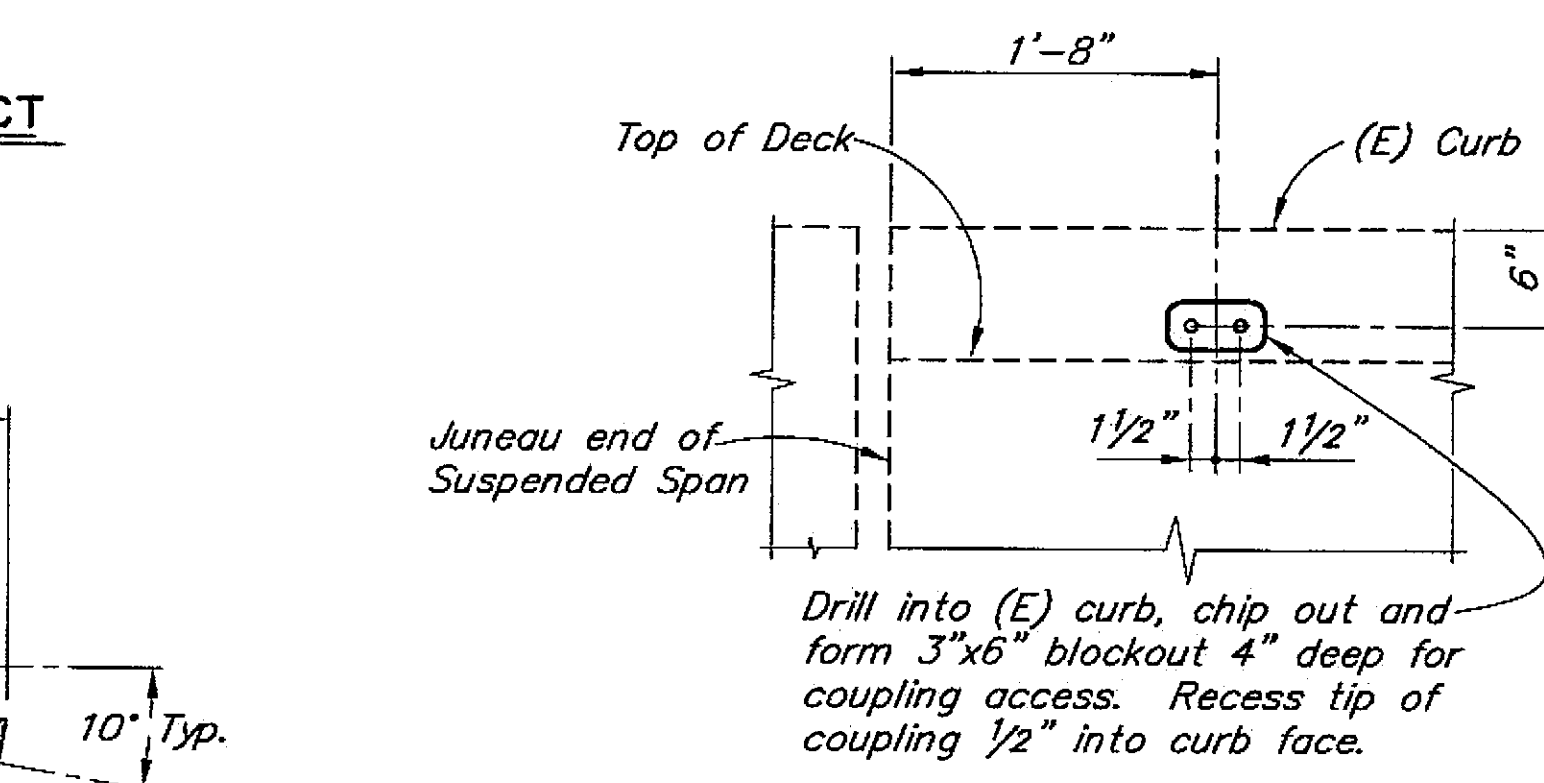
SUSPENDED SPAN EXPANSION JOINT JUNEAU END - THIS CONTRACT



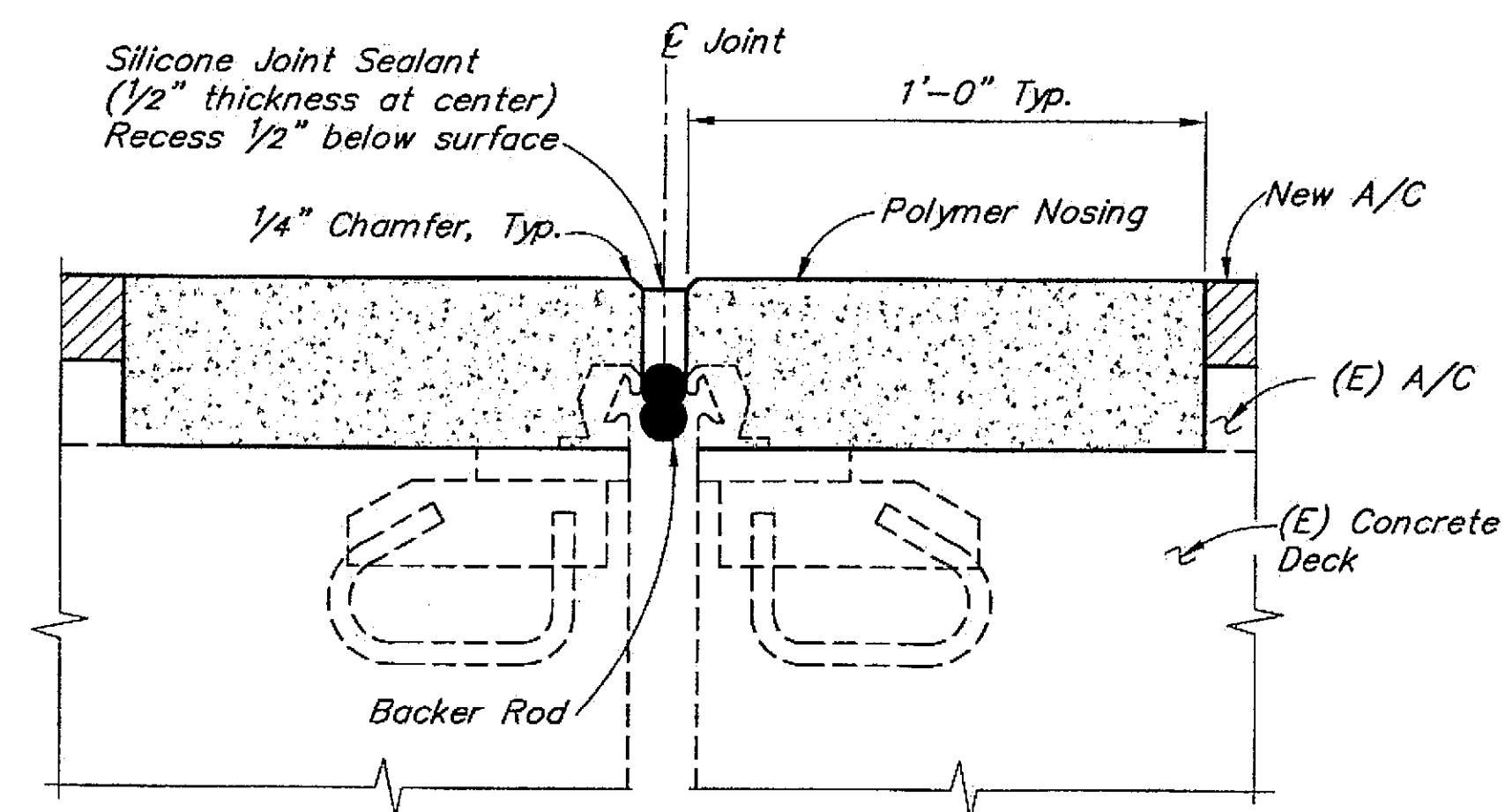
SWEEPER NOZZLE
No Scale



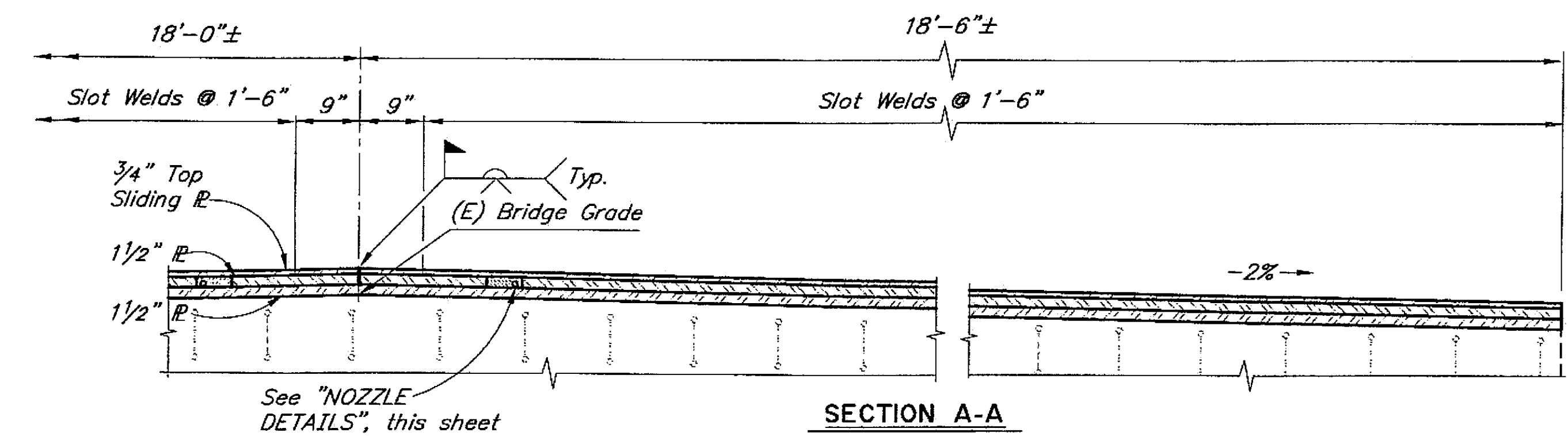
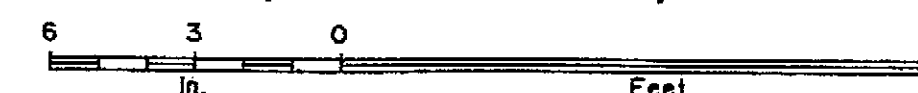
EXISTING SUSPENDED SPAN EXPANSION JOINT - BOTH ENDS



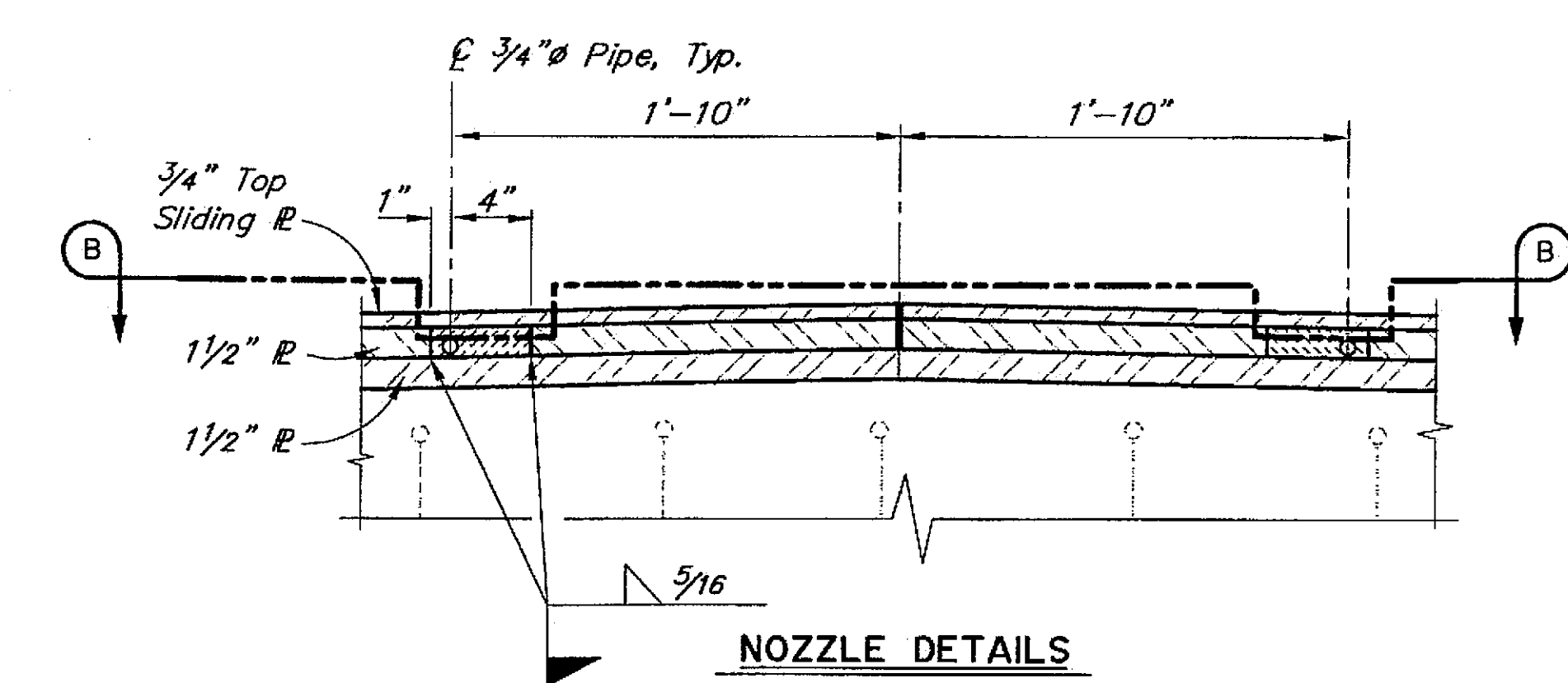
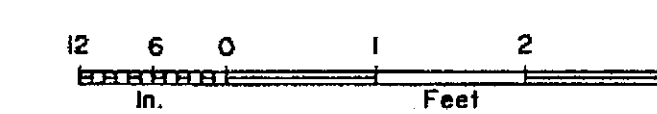
CURB DETAIL



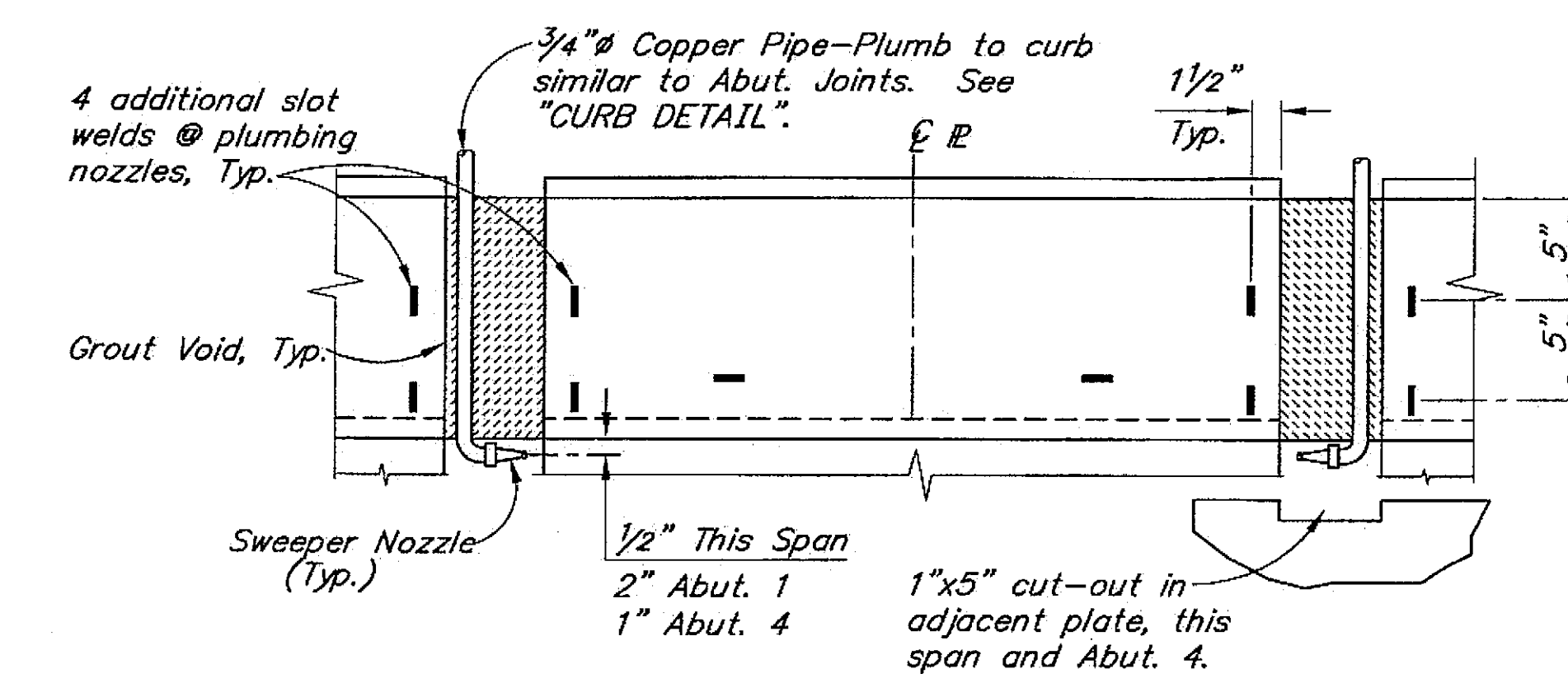
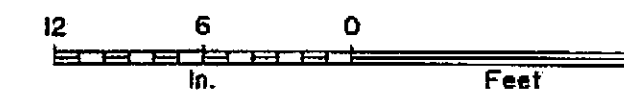
SUSPENDED SPAN EXPANSION JOINT - DOUGLAS END
(THIS CONTRACT)



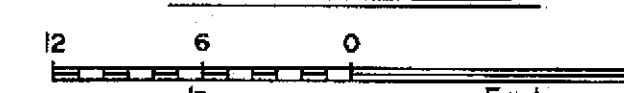
SECTION A-A



NOZZLE DETAILS



SECTION B-B



LEGEND
(E) = Existing
--- = Existing
— = This Contract

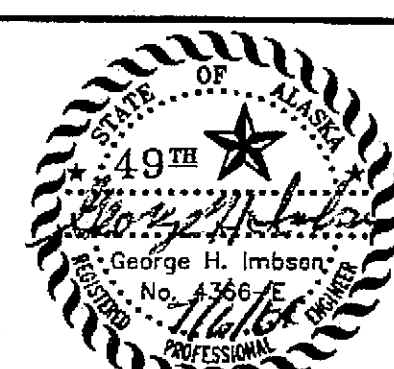
Elevations, bearings and dimensions are based on Shop Drawings and Contract Drawings. Verify all controlling field dimensions before ordering or fabricating any material.

P:\740\740-G.dwg, 07/06/2004 01:29:03 PM

DESIGNED BY: George Imbsen	CHECKED: Derek Soden
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Derek Soden

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [Signature] Date 9/28/07

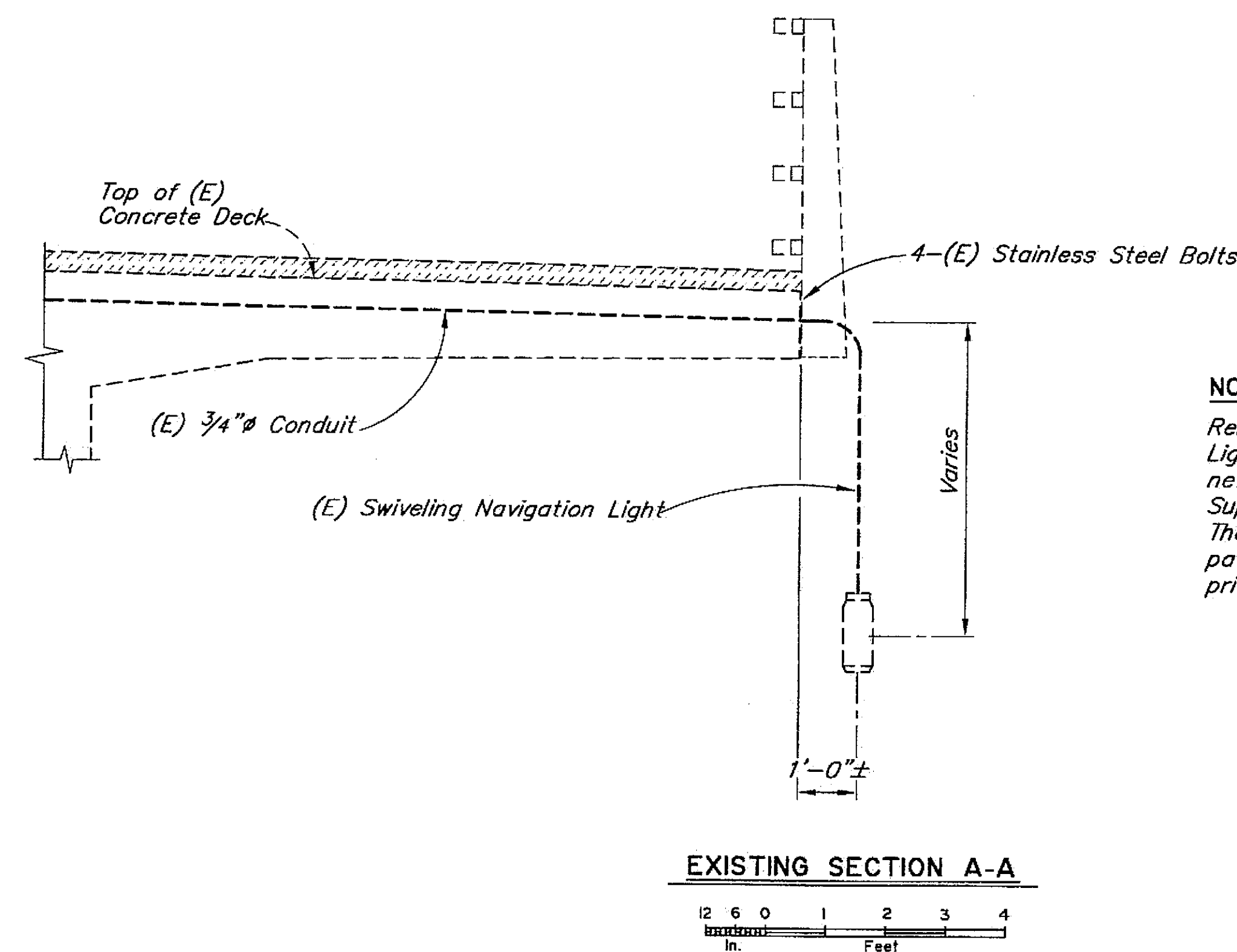
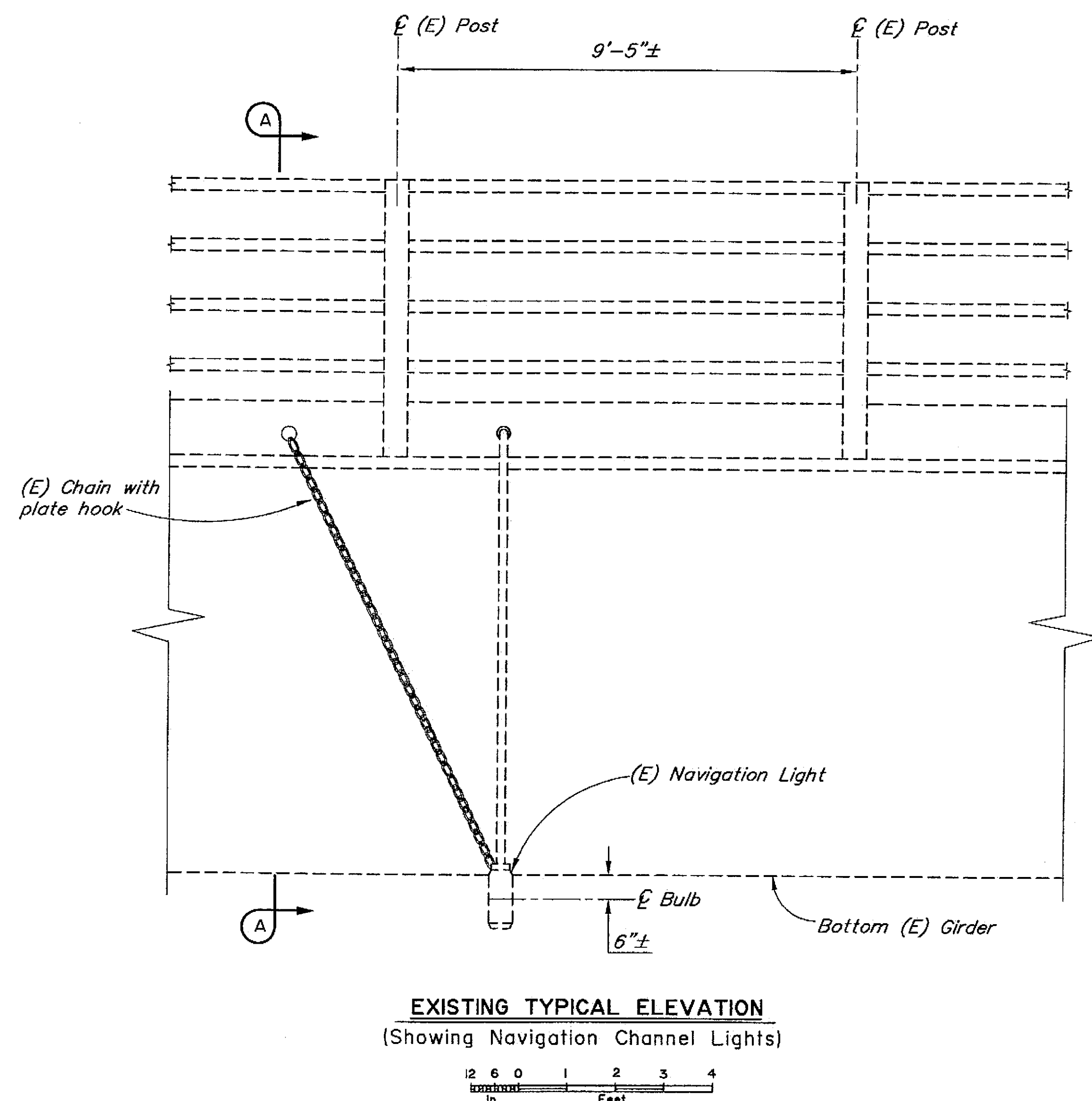
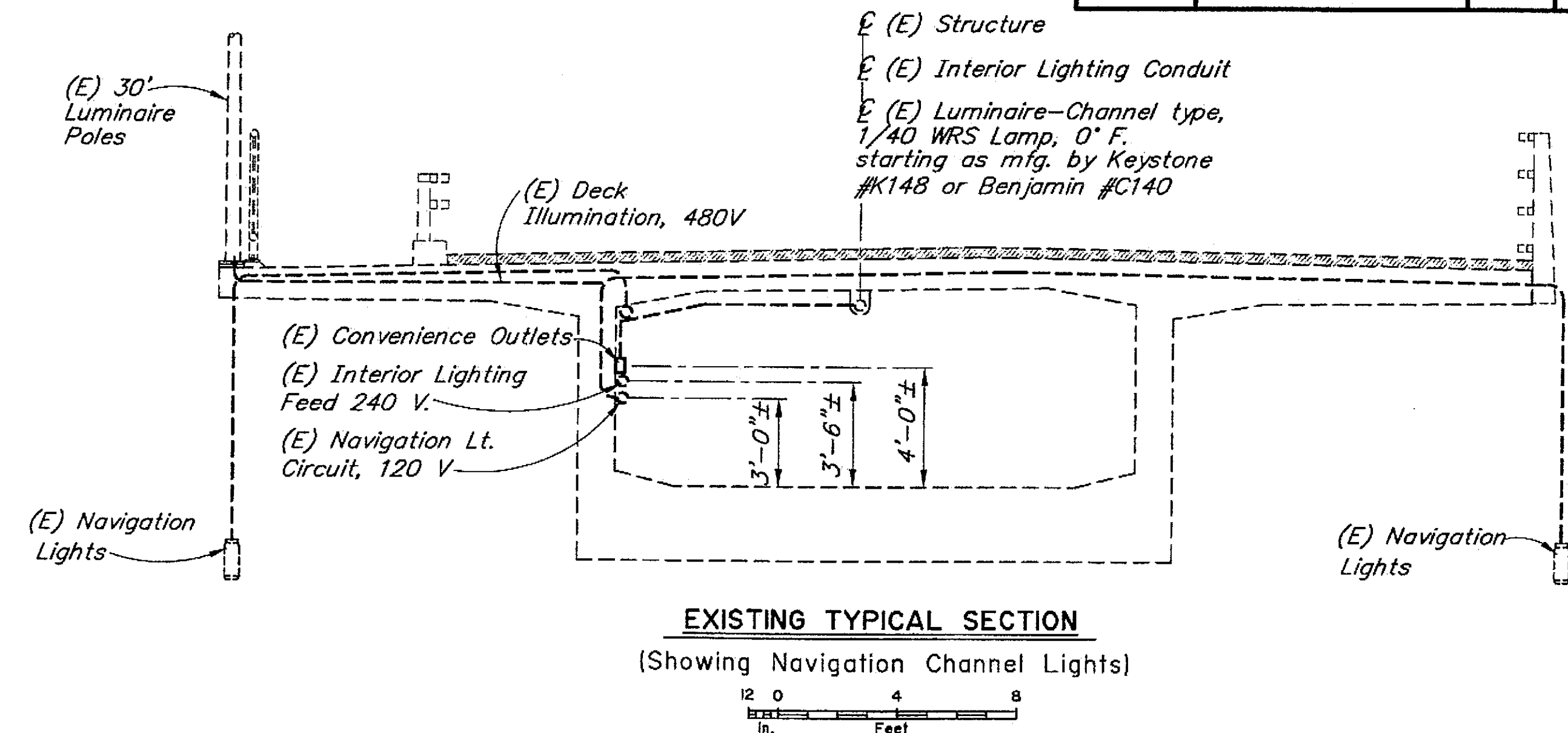
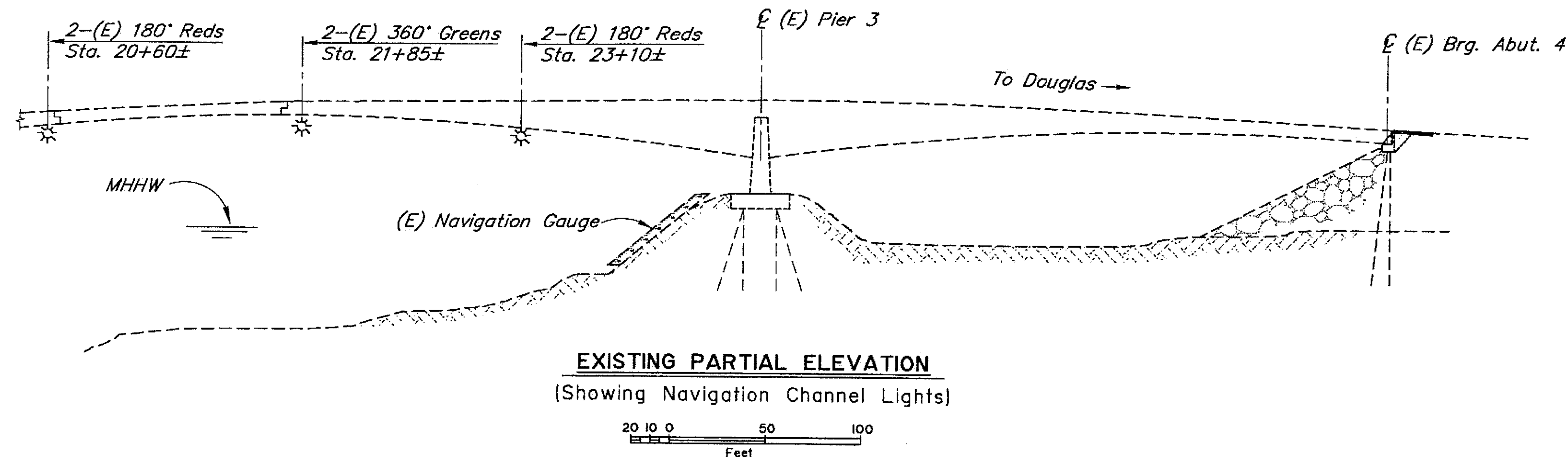
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION



GASTINEAU CHANNEL BRIDGE
10TH & EGAN IMPROVEMENTS-PHASE I
EXPANSION JT. DETAILS-SUSPENDED SPAN

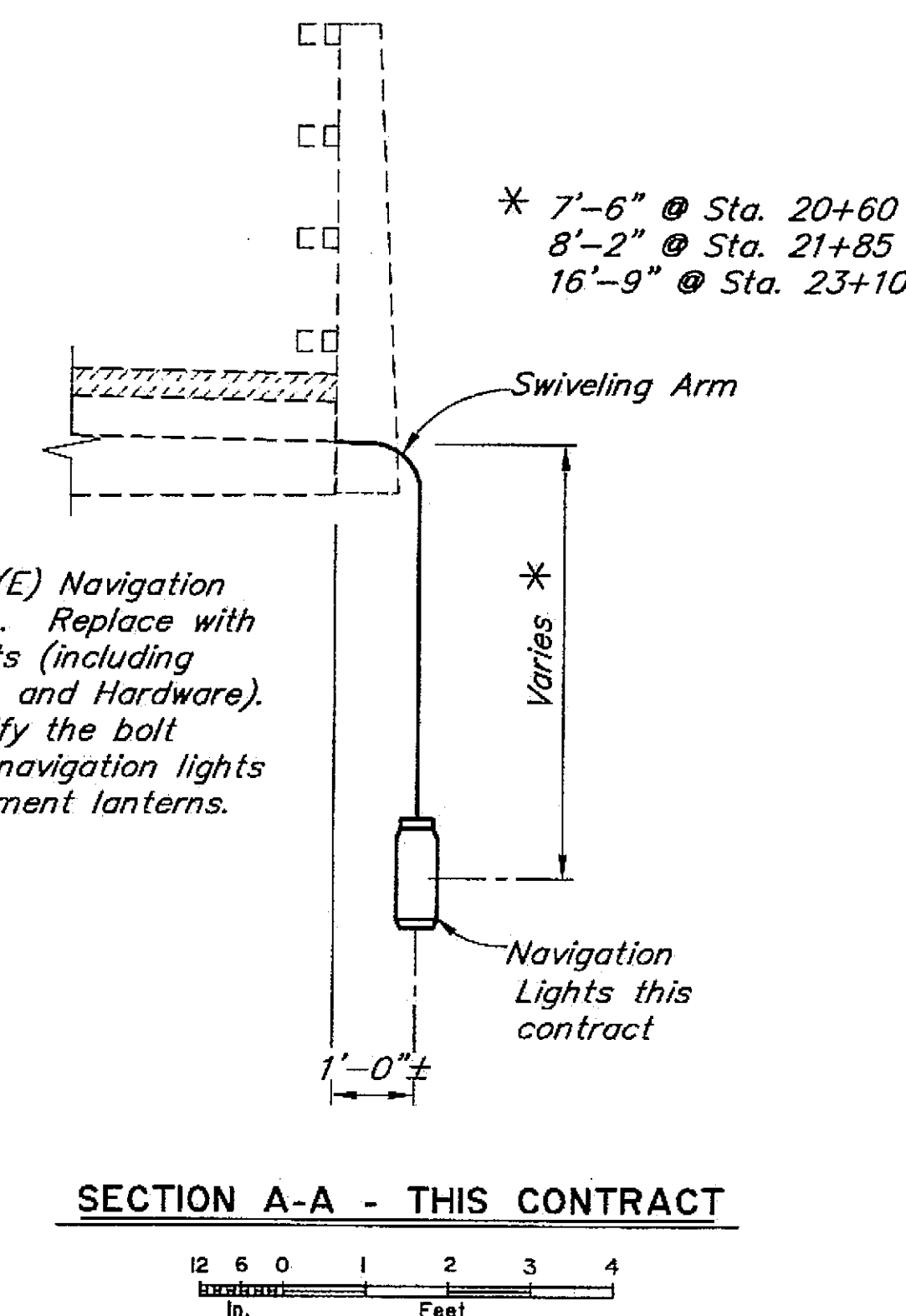
BRIDGE NO. 740
DWG. NO. 7

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-21291/70168	2004		



NOTE:

Remove and dispose of (E) Navigation Lights and Swiveling Arm. Replace with new LED Navigation Lights (including Support Brackets, Facing and Hardware). The Contractor shall verify the bolt pattern for the existing navigation lights prior to ordering replacement lanterns.



LEGEND

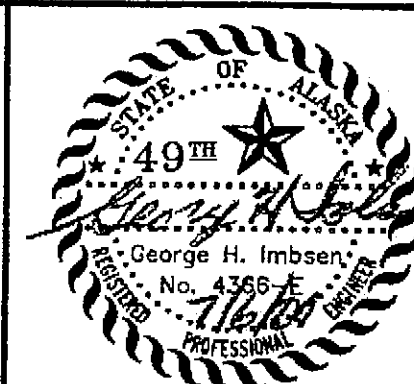
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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 7/16/07

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 BRIDGE SECTION



GASTINEAU CHANNEL BRIDGE
 10TH & EGAN IMPROVEMENTS-PHASE I
 NAVIGATION CHANNEL LIGHTS



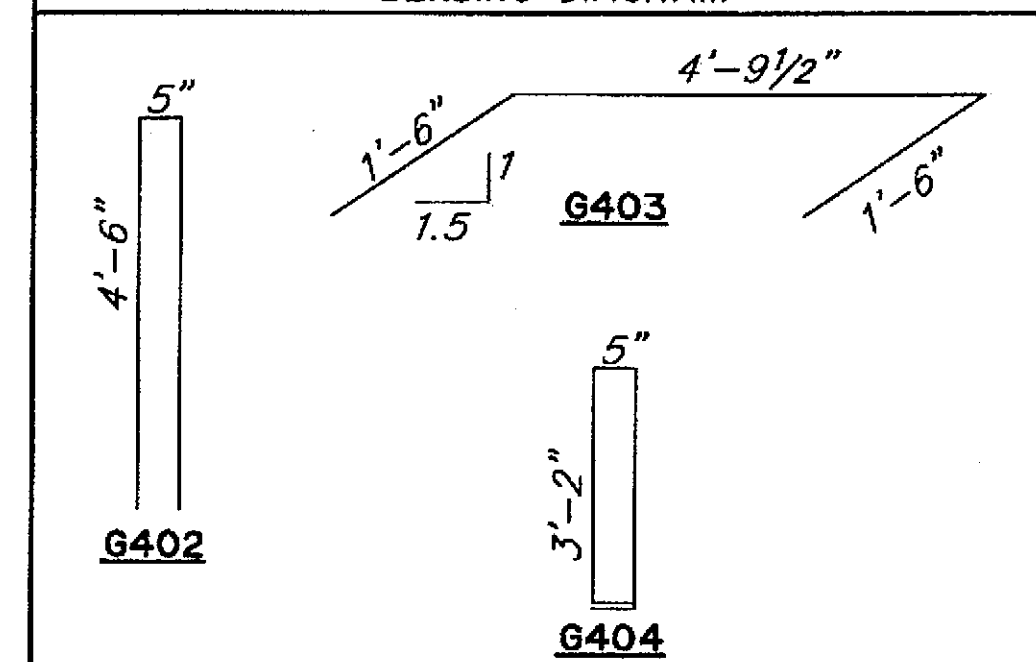
BRIDGE NO. 740
 DWG. NO. 8

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-F-093-2(29)/70168	2004		

a-REINFORCING STEEL SCHEDULE

MARK	SIZE	NO.	LENGTH	TYPE
G401	4	6	53'-0" to 57'-10"	-
G402	4	32	9'-5"	Bent
G403	4	2	7'-9 1/2"	Bent
G404	4	2	7'-7"	Bent

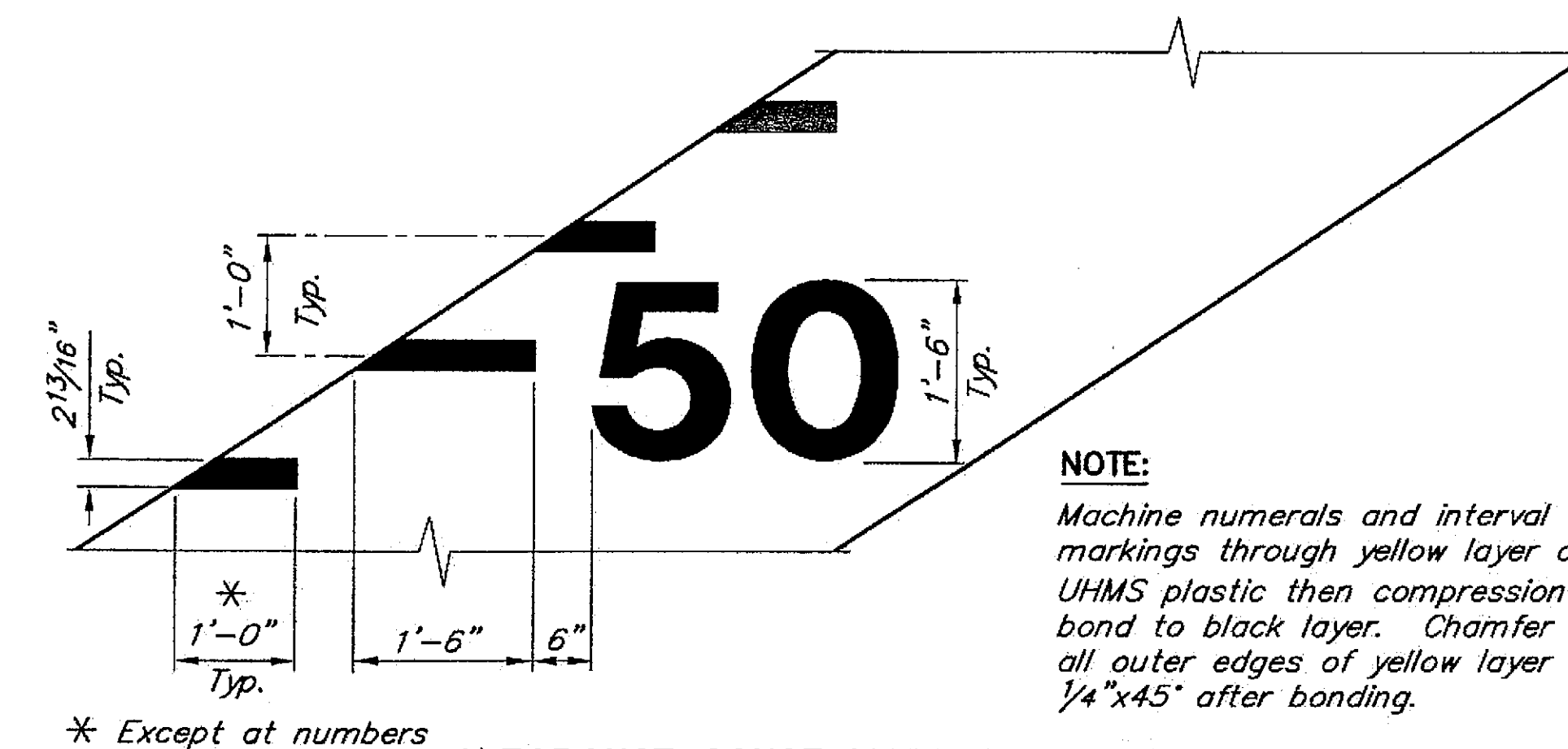
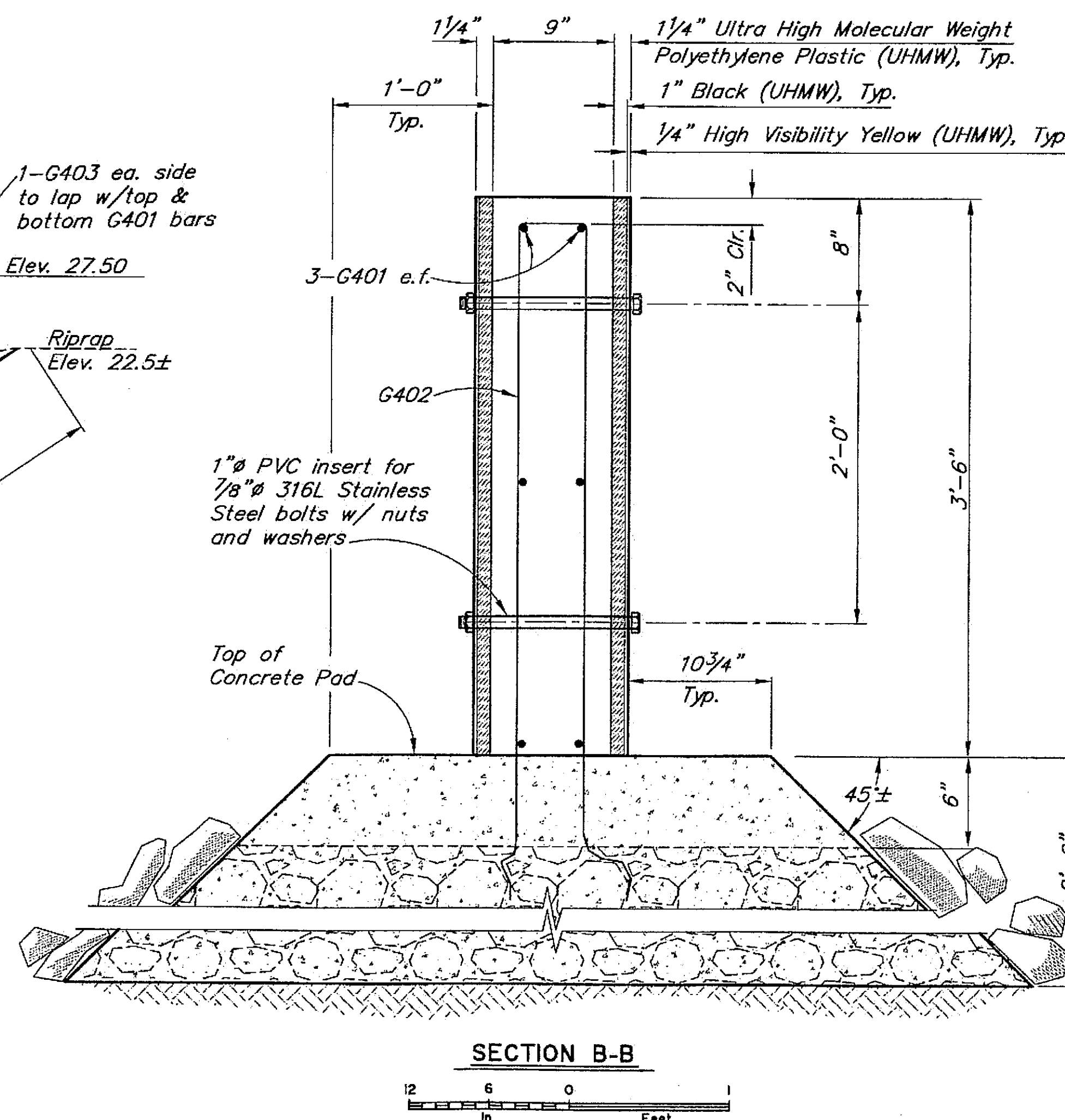
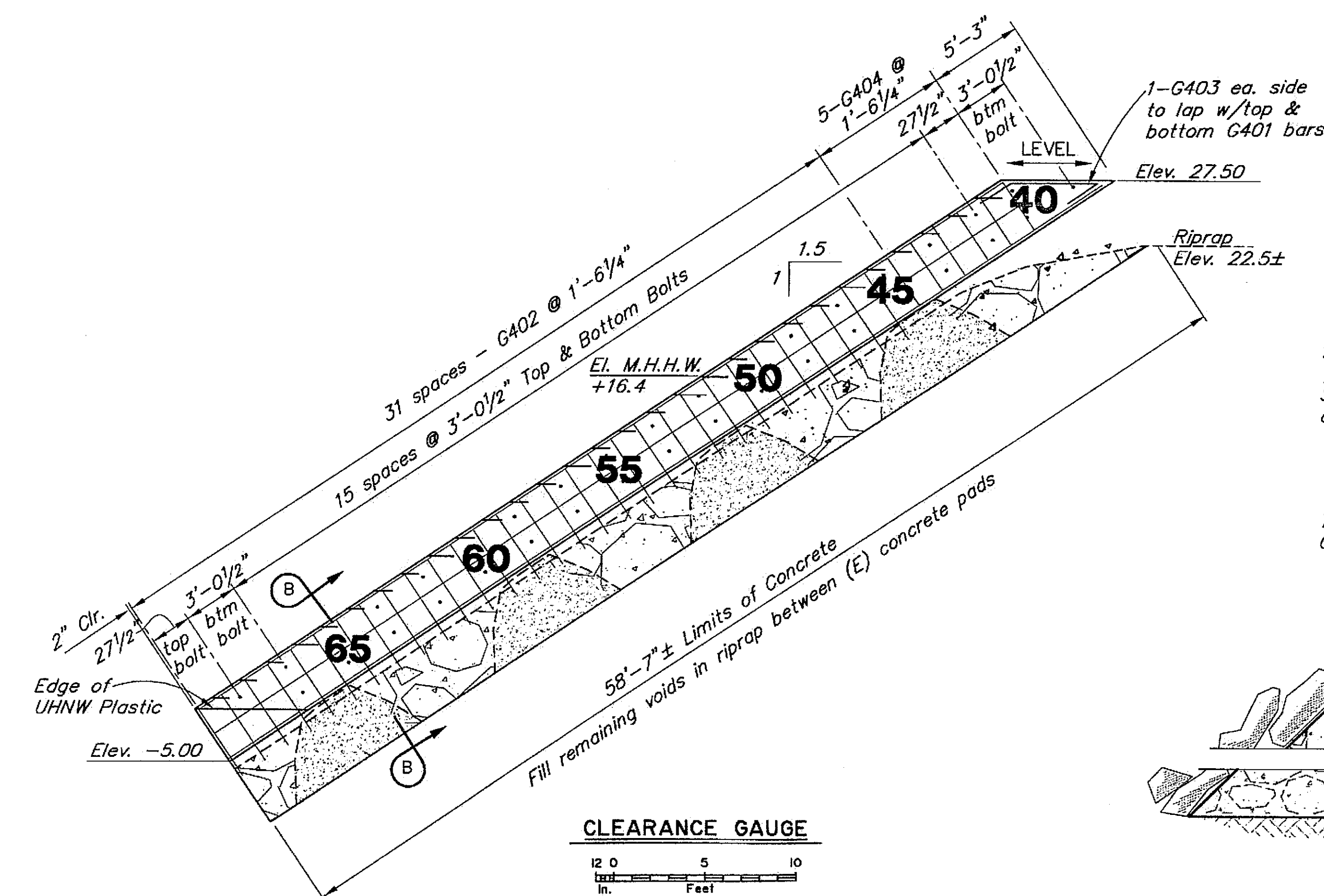
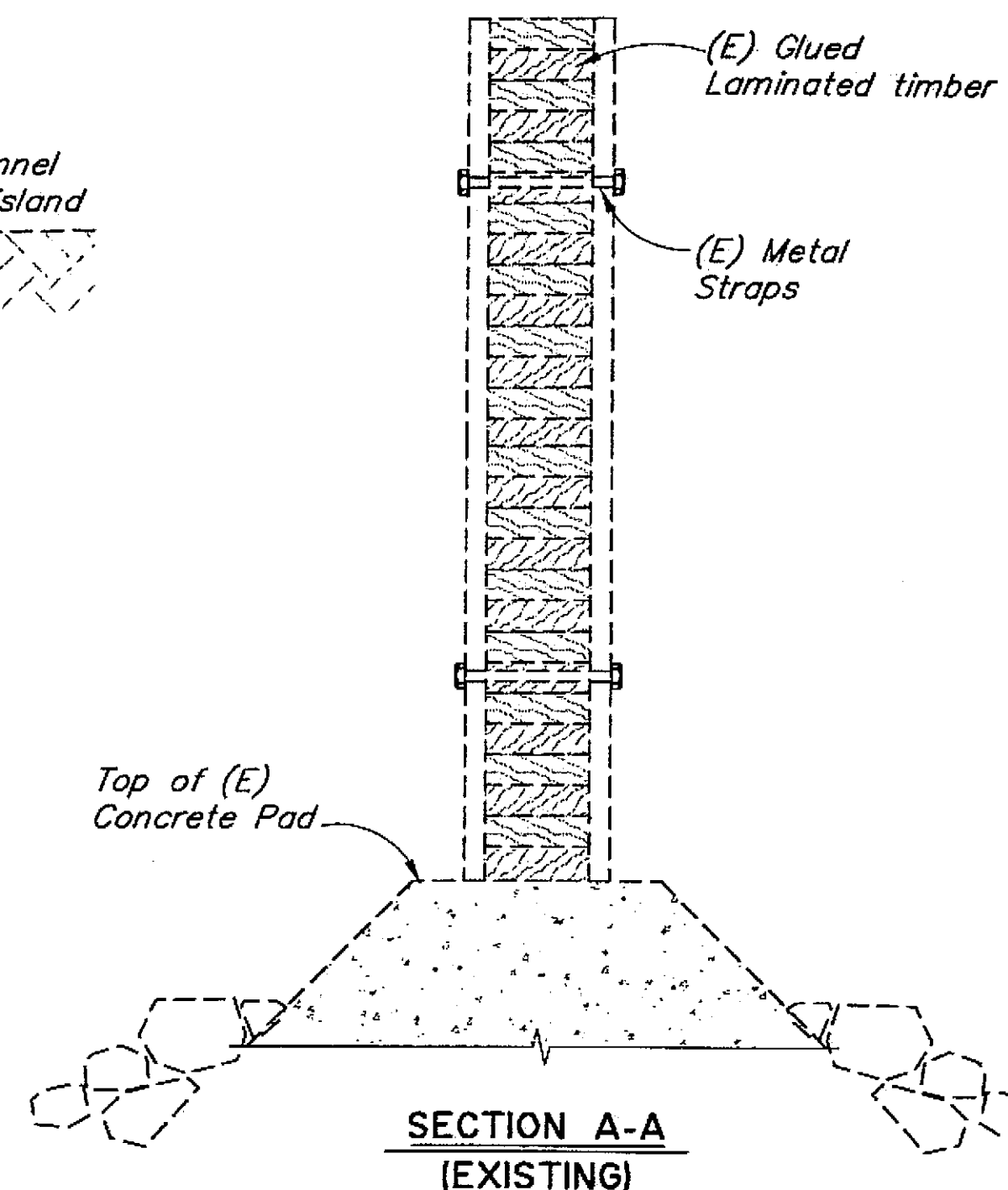
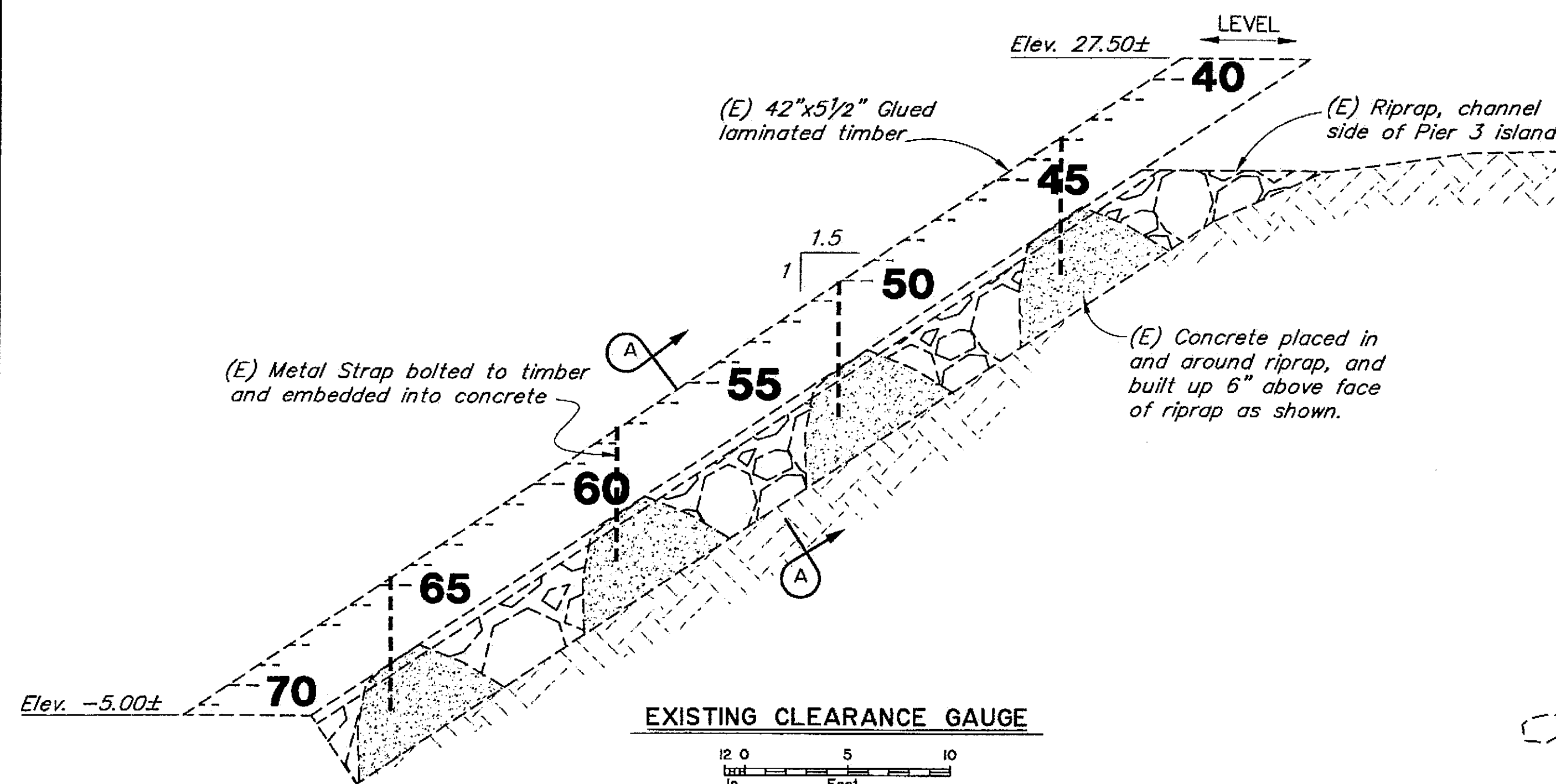
BENDING DIAGRAM



All reinforcing steel in navigation gauge shall be stainless clad reinforcement such as "NUOVINOX" from Stela Inc., Kirkland Wa., Phone (452)823-1913, SMI 316 from SMI Steel, Cayce S.C., phone (440)708-0898, or approved equal.

Do not place concrete underwater when tide is below +1.5 Elev.

** Drill & bond dowels (legs of G402 bars) in existing concrete pads where necessary. Bend legs to fit between existing riprap where new concrete will be cast.



NOTE:
Machine numerals and interval markings through yellow layer of UHMS plastic then compression bond to black layer. Chamfer all outer edges of yellow layer 1/4"x45° after bonding.

CLEARANCE GAUGE MARKING DETAIL



LEGEND

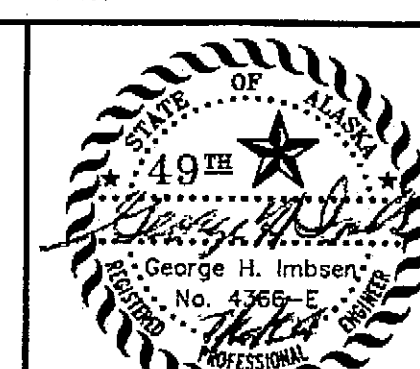
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PE: [Signature] Date: 9/29/17

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION



GASTINEAU CHANNEL BRIDGE
10TH & EGAN IMPROVEMENTS-PHASE I
NAVIGATION CLEARANCE GAUGE



BRIDGE NO. 740
DWG. NO. 9