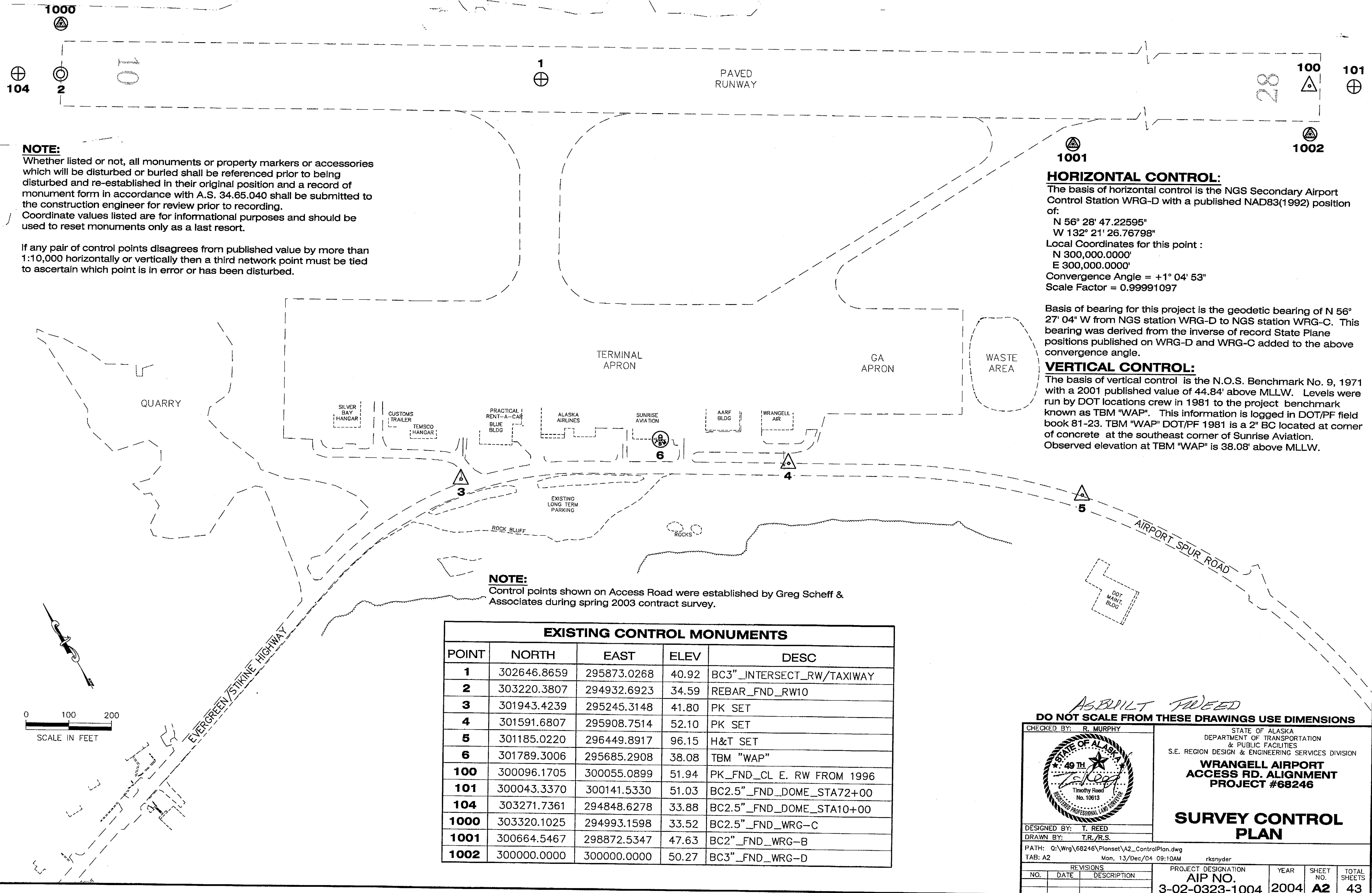


AIP NO. 3-02-0323-1004~68246



As-Built Filed



NOTE:
Whether listed or not, all monuments or property markers or accessories which will be disturbed or buried shall be referenced prior to being disturbed and re-established in their original position and a record of monument form in accordance with A.S. 34.65.040 shall be submitted to the construction engineer for review prior to recording.
Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

HORIZONTAL CONTROL:

The basis of horizontal control is the NGS Secondary Airport Control Station WRG-D with a published NAD83(1992) position of:

N 56° 28' 47.22595"
W 132° 21' 26.76798"

Local Coordinates for this point :

N 300,000.0000'
E 300,000.0000'

Convergence Angle = +1° 04' 53"

Scale Factor = 0.99991097

Basis of bearing for this project is the geodetic bearing of N 56° 27' 04" W from NGS station WRG-D to NGS station WRG-C. This bearing was derived from the inverse of record State Plane positions published on WRG-D and WRG-C added to the above convergence angle.

VERTICAL CONTROL:

The basis of vertical control is the N.O.S. Benchmark No. 9, 1971 with a 2001 published value of 44.84' above MLLW. Levels were run by DOT locations crew in 1981 to the project benchmark known as TBM "WAP". This information is logged in DOT/PF field book 81-23. TBM "WAP" DOT/PF 1981 is a 2" BC located at corner of concrete at the southeast corner of Sunrise Aviation. Observed elevation at TBM "WAP" is 38.08' above MLLW.

NOTE:
Control points shown on Access Road were established by Greg Scheff & Associates during spring 2003 contract survey.

EXISTING CONTROL MONUMENTS

POINT	NORTH	EAST	ELEV	DESC
1	302646.8659	295873.0268	40.92	BC3" _INTERSECT_RW/TAXIWAY
2	303220.3807	294932.6923	34.59	REBAR _FND_RW10
3	301943.4239	295245.3148	41.80	PK SET
4	301591.6807	295908.7514	52.10	PK SET
5	301185.0220	296449.8917	96.15	H&T SET
6	301789.3006	295685.2908	38.08	TBM "WAP"
100	300096.1705	300055.0899	51.94	PK _FND_CL E. RW FROM 1996
101	300043.3370	300141.5330	51.03	BC2.5" _FND_DOME_STA72+00
104	303271.7361	294848.6278	33.88	BC2.5" _FND_DOME_STA10+00
1000	303320.1025	294993.1598	33.52	BC2.5" _FND_WRG-C
1001	300664.5467	298872.5347	47.63	BC2" _FND_WRG-B
1002	300000.0000	300000.0000	50.27	BC3" _FND_WRG-D

AS BUILT FIELD
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: R. MURPHY

DESIGNED BY: T. REED

DRAWN BY: T.R./R.S.

PATH: Q:\Wrg\68246\PlanSet\A2_ControlPlan.dwg

TAB: A2 Mon, 13/Dec/04 09:10AM rksnyder

REVISIONS

NO. DATE DESCRIPTION

PROJECT DESIGNATION

AIP NO.

3-02-0323-1004

YEAR

2004

SHEET NO.

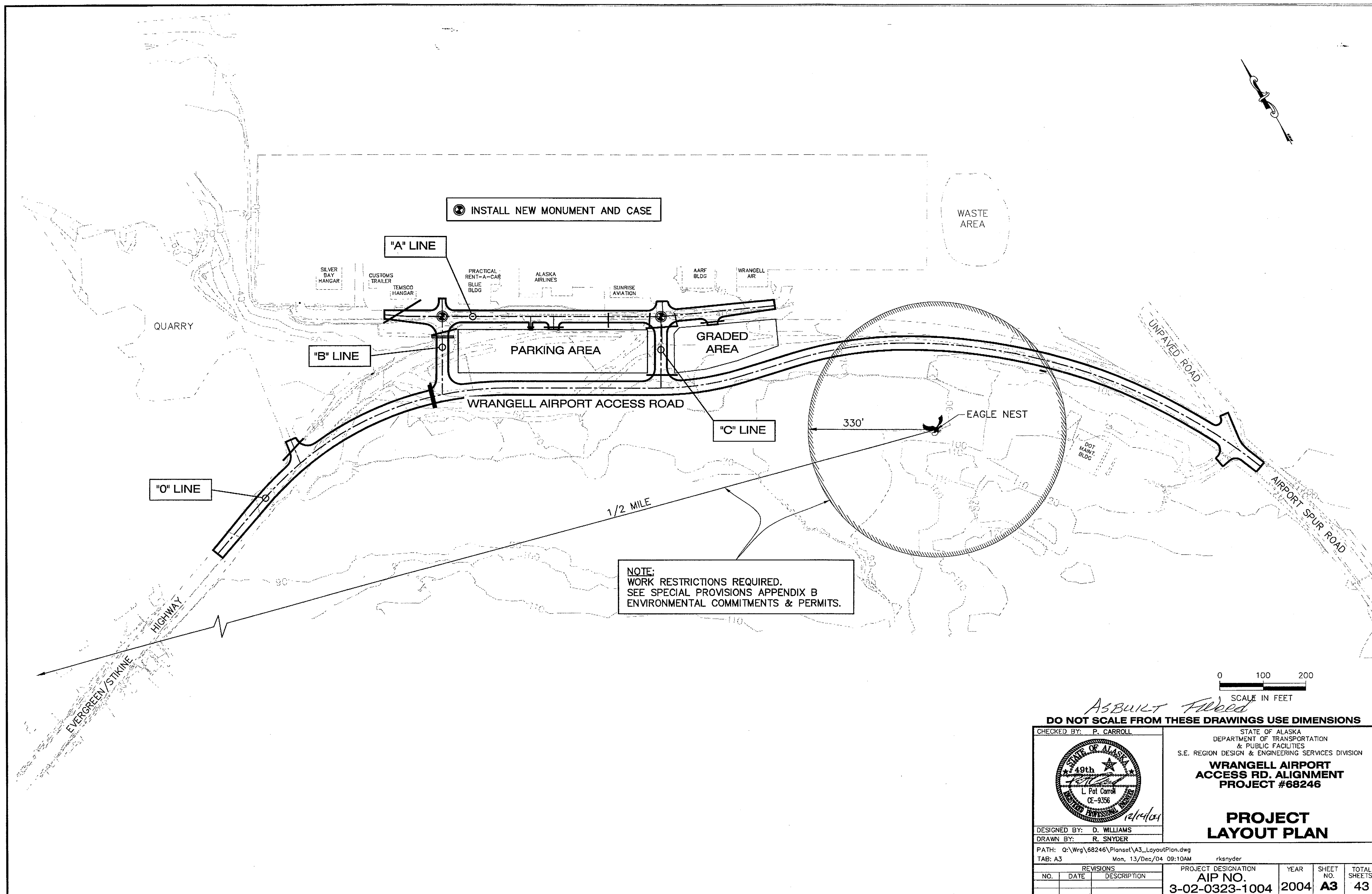
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TOTAL SHEETS

43

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

SURVEY CONTROL PLAN



State of Alaska

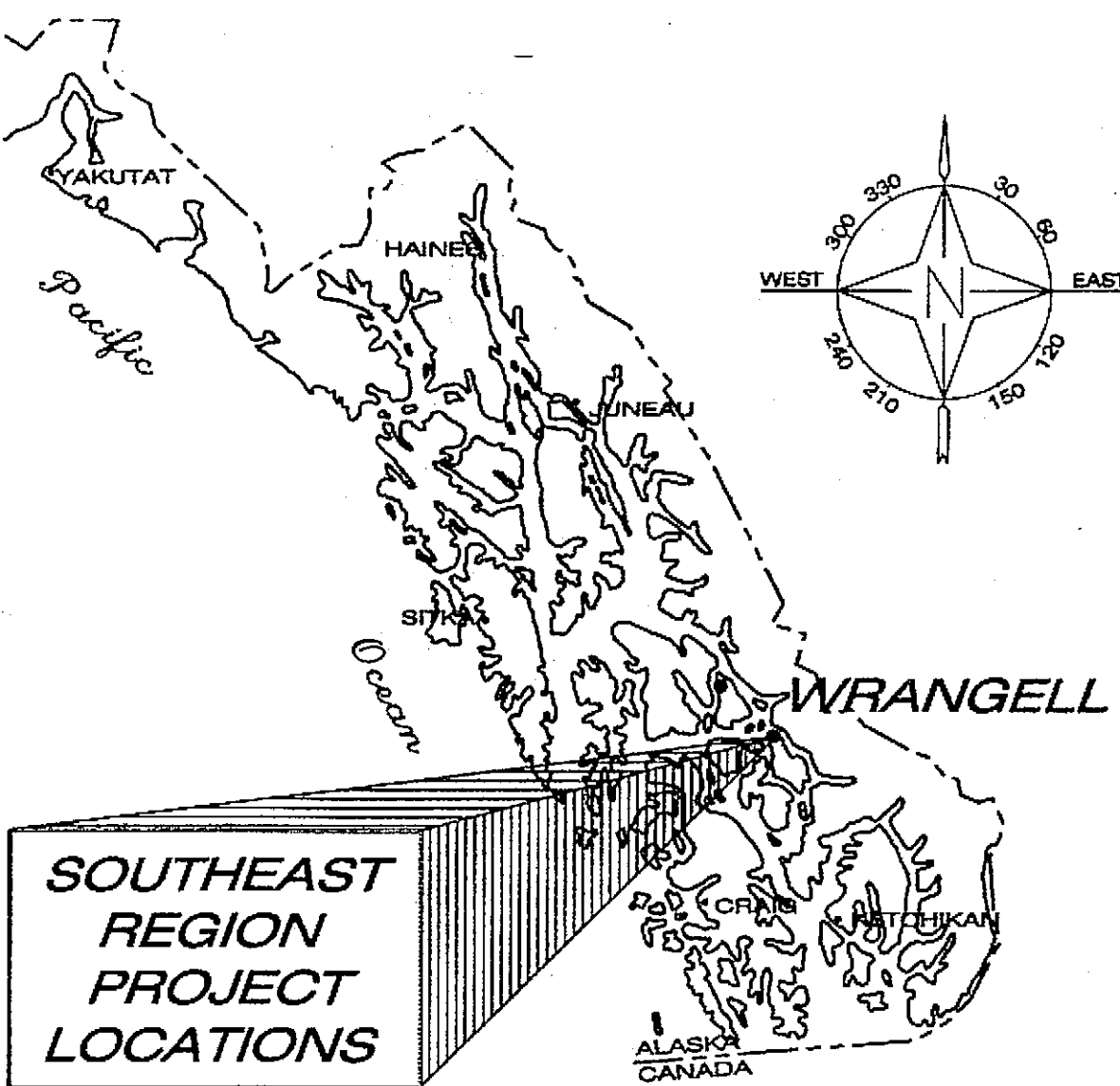
Department of Transportation
and Public Facilities

Southeast Design and Engineering Services Division

WRANGELL, ALASKA

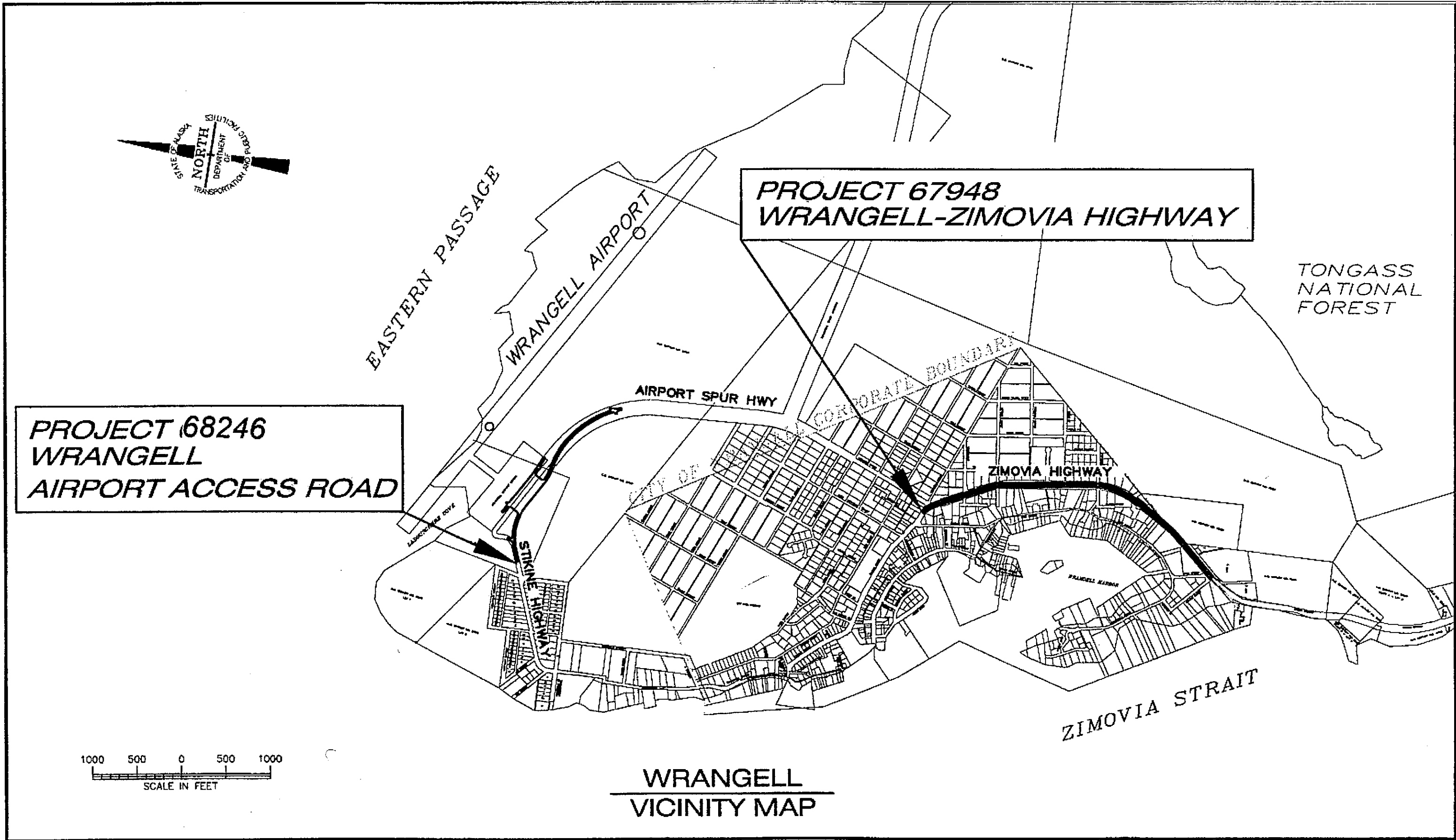
WRANGELL AIRPORT
AIRPORT ACCESS ROAD REALIGNMENT
AIP NO. 3-02-0323-1004~68246

WRG NON-NHS HWY SYS REFURBISHMENT
ZIMOVIA HWY - BENNETT ST TO BERGER ST
MGS - 0943(24) ~ 67948



INDEX	
SHEET NO.	DESCRIPTION
AA1	COMBINED TITLE SHEET
AA2	COMBINED ESTIMATE OF QUANTITIES
WRANGELL AIRPORT ACCESS ROAD (68246)	
A1	TITLE SHEET
A2	CONTROL SURVEY DATA SHEET
A3	PROJECT LAYOUT PLAN
B1-B4	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D3	SUMMARY SHEETS
F1-F9	PLAN & PROFILE SHEETS
F10	PARKING AREA PLAN
J1-J6	MISCELLANEOUS DETAILS
P1-P2	SIGNING & STRIPING
R1-R2	ILLUMINATION
S1-S2	TRAFFIC CONTROL PLANS
T1-T2	EROSION & POLLUTION CONTROL PLAN
U1-U8	UTILITY SHEETS

ZIMOVIA HWY BENNETT ST TO BERGER ST (67948)	
Y1	TITLE SHEET
Y2	ZIMOVIA PLAN/TYPICAL SECTION SHEET
Y3	ESTIMATE OF QUANTITIES/SIGN SUMMARY
Y4	ZIMOVIA PLAN INTERSECTION DETAILS
Y5	MISCELLANEOUS DETAILS
Y6	PTR - SITE LAYOUT
Y7	PTR - LOOP DETECTOR DETAILS
Y8	STRIPING PLAN
Y9-Y10	TRAFFIC CONTROL PLANS

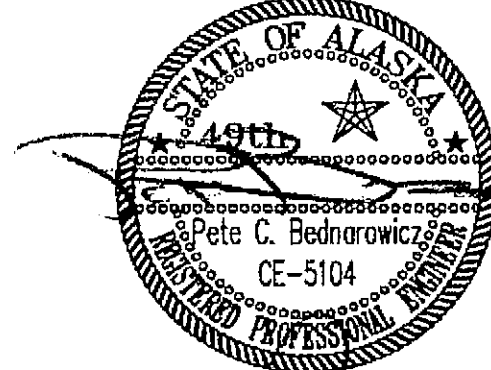


AS-BUILTS
CONTRACTOR: SOUTHEAST ROADBUILDERS
PE: DAVE SCHAEFER
BEGIN DATE: Feb 8, 2005
END DATE: Oct 5, 2005

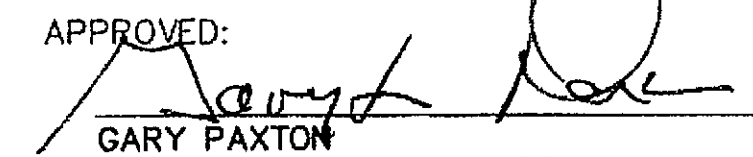
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Tue, 14/Dec/04 02:16PM Irobertson

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



APPROVED:  12/15/04
PATRICK J. KEMP
REGIONAL PRE-CONSTRUCTION ENGINEER
DATE

APPROVED:  12/15/04
GARY PAXTON
SOUTHEAST REGIONAL DIRECTOR
DATE

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

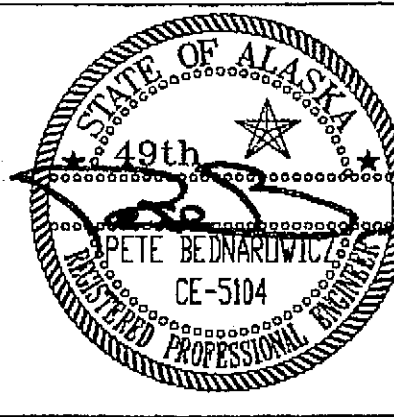
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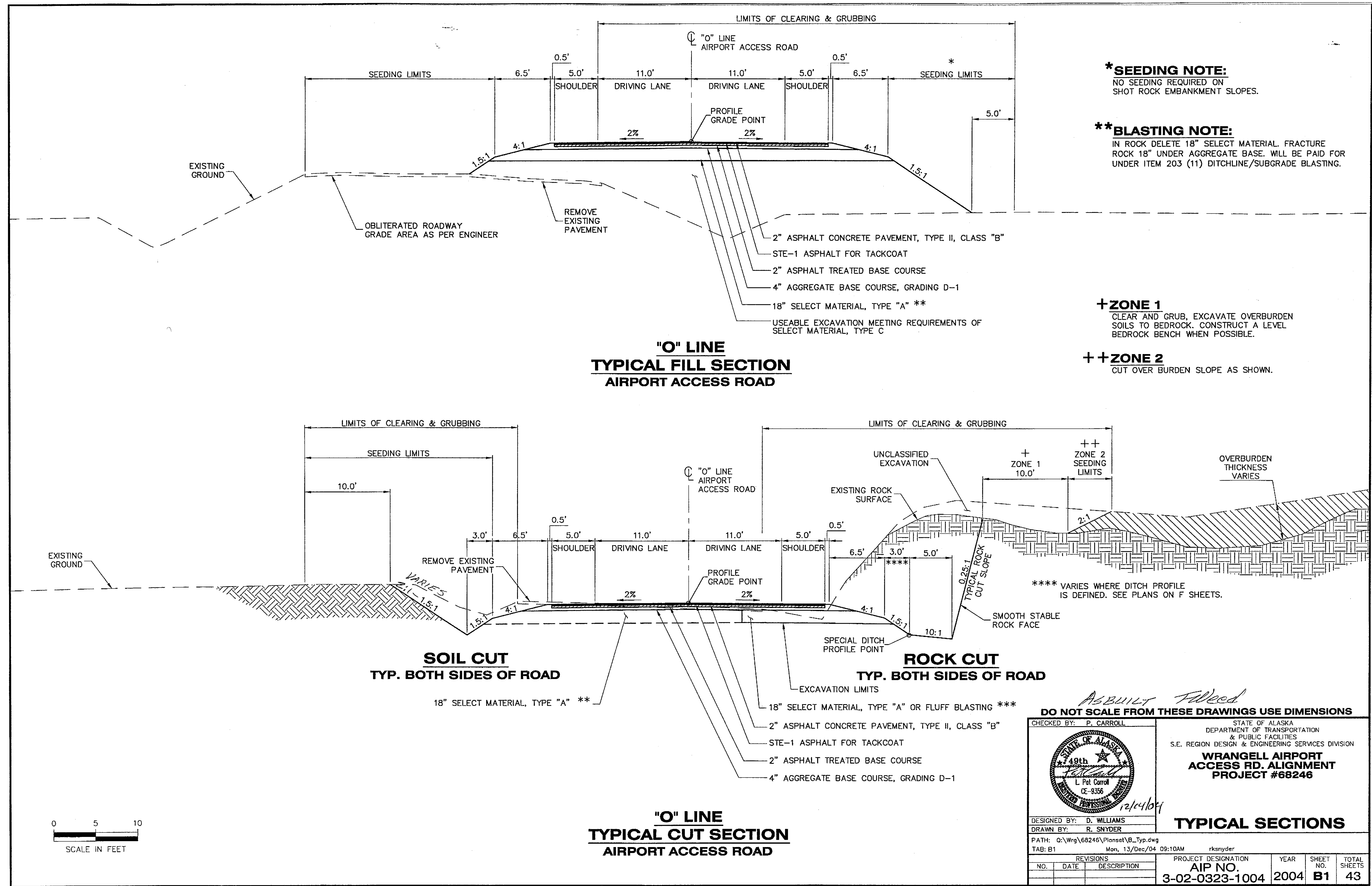
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
ALASKA	AS NOTED	2004	AA1

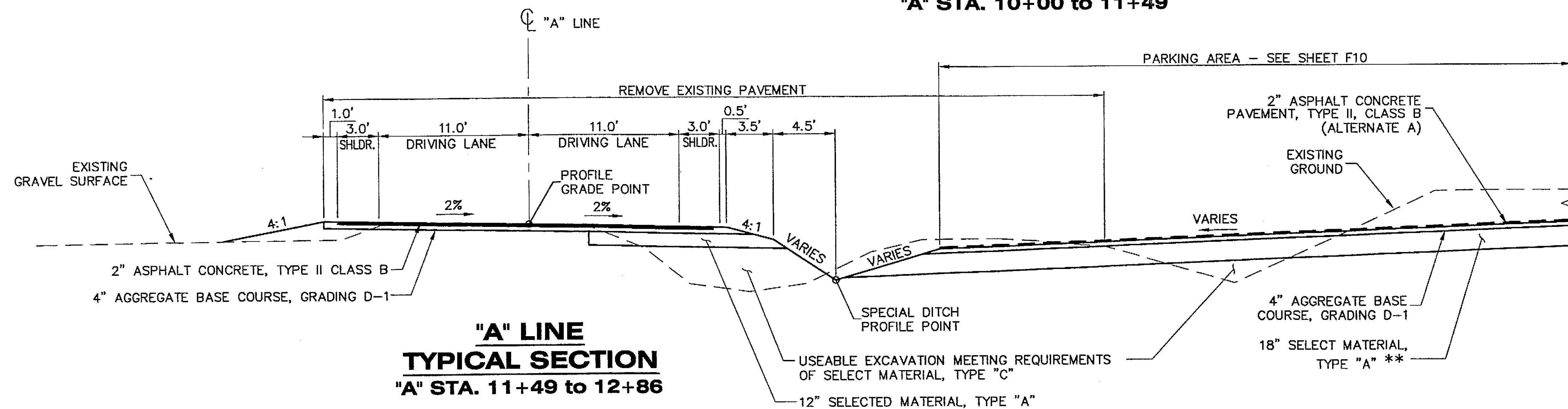
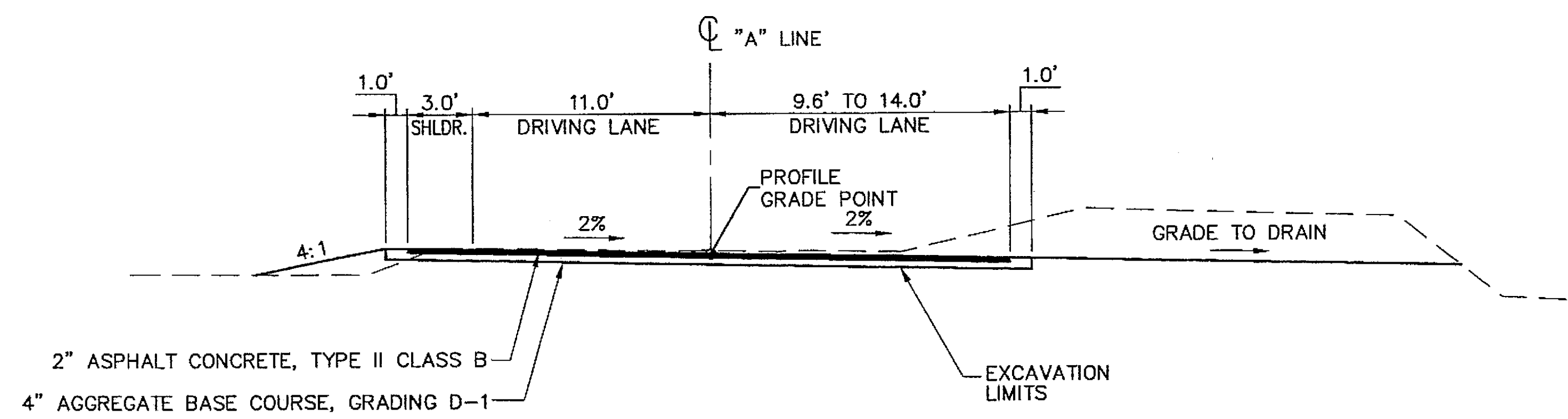
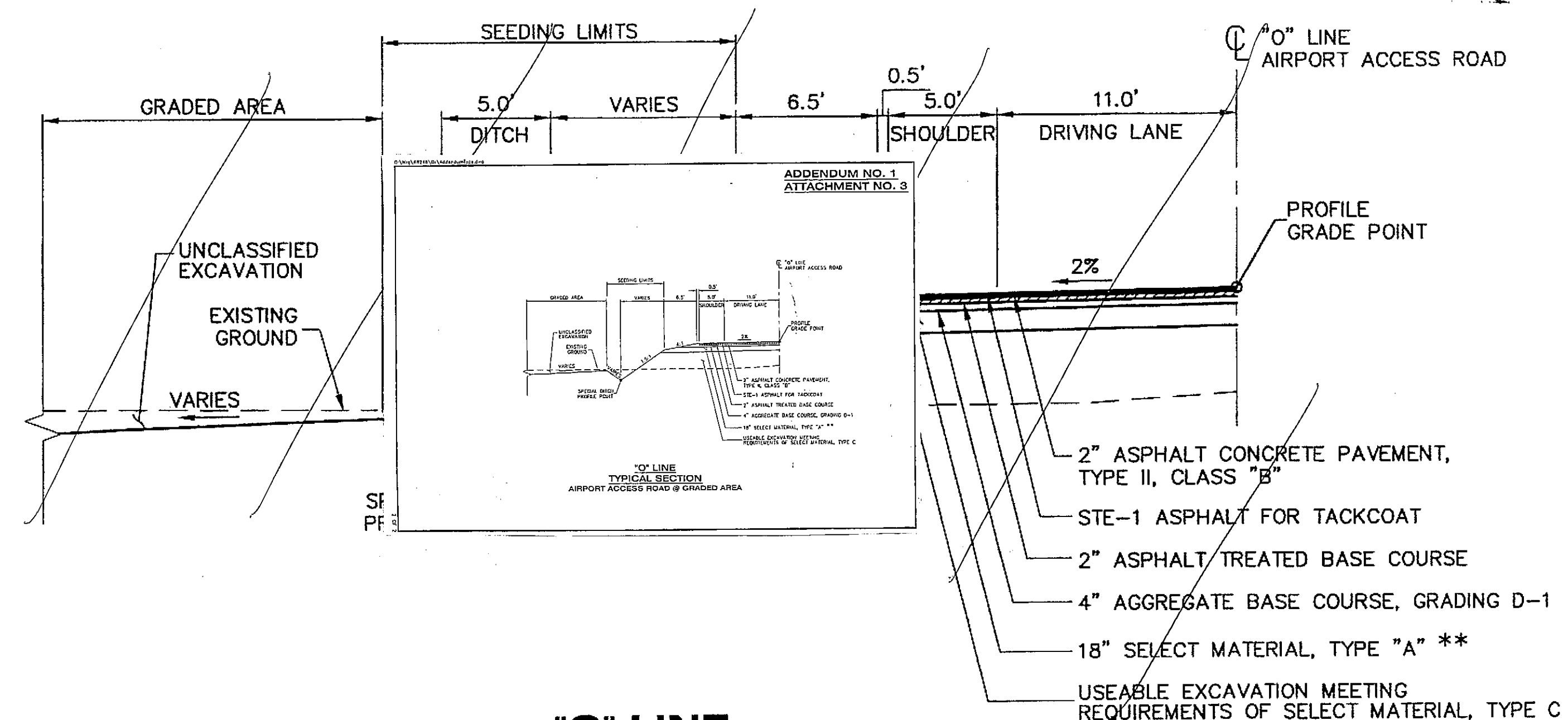
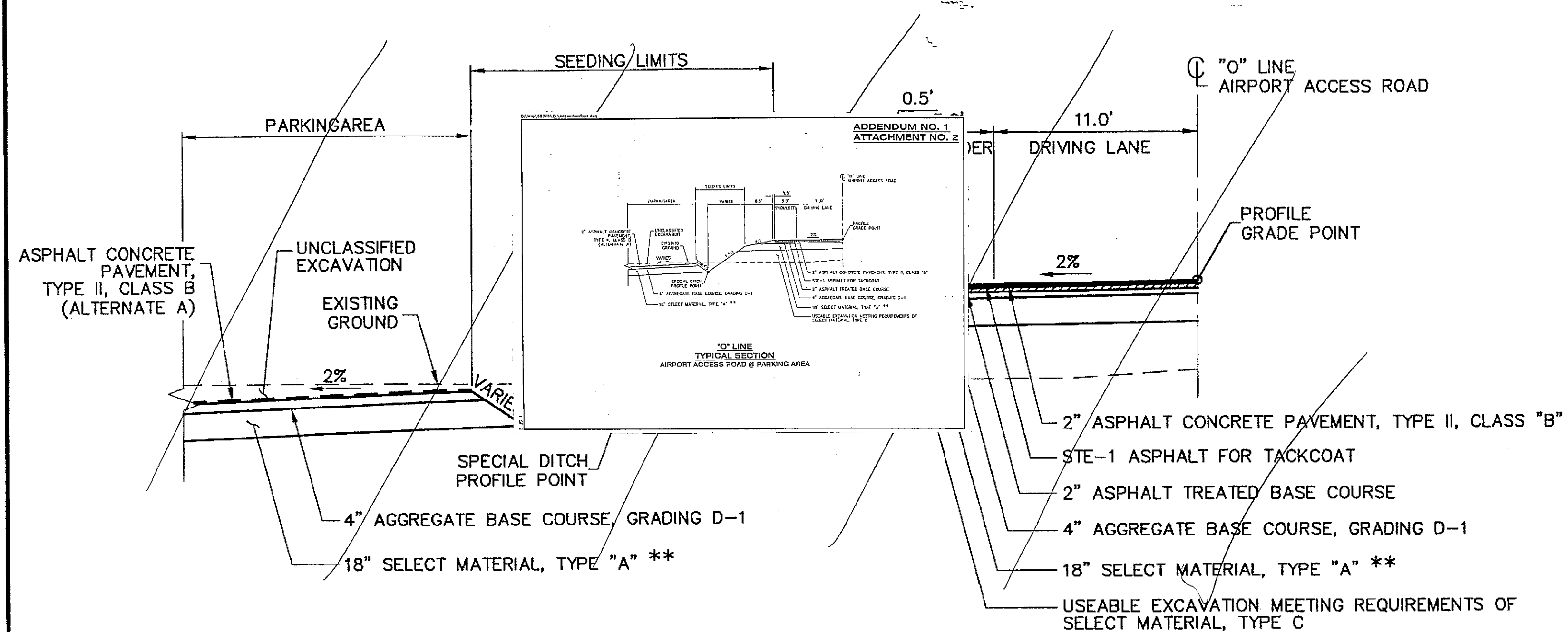
COMBINED ESTIMATE OF QUANTITIES

ITEM NO.	PAY ITEM	PAY UNIT	WRG-AIRPORT ACCESS ROAD REALIGNMENT PROJECT NO. 68246	WRG-NON-NHS HIGHWAY SYSTEM REFURBISHMENT PROJECT NO. MGS-0943(24) 67948	TOTALS
201(3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED		ALL REQUIRED
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED		ALL REQUIRED
202(2)	REMOVAL OF PAVEMENT	SQUARE YD.	~~10600~~ 6562		~~10600~~ 6562
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YD.	~~75000~~ 99,924		~~75000~~ 99,924
203(11)	DITCHLINE/SUBGRADE BLASTING	SQUARE YD.	~~16500~~ 4,200		~~16500~~ 4,200
203(19)	PRE-BLAST SURVEY	EACH	~~8~~ 9		~~8~~ 9
301(1)	AGGREGATE BASE COURSE, GRADING D-1, CO 4	TON	~~4700~~	~~400~~ 0	~~4800~~ 0
306(1)	ATB	TON	~~1180~~ 1,084.72		~~1180~~ 1,084.72
308(1)	CRUSHED ASPHALT BASE COURSE	SQUARE YD.		~~14200~~ 14,229	~~14200~~ 14,229
308(2)	CSS-1 ASPHALT FOR BASE COURSE	TON		~~112~~ 113.03	~~112~~ 113.03
308(3)	PORTLAND CEMENT	TON		~~40~~ 38.84	~~40~~ 38.84
401(1)	ASPHALT CONCRETE PAVEMENT, TYPE II CLASS B	TON	~~1670~~ 1,603.04	~~1700~~ 1,630.45	~~3370~~ 3,321.49
401(2)	ASPHALT CEMENT, GRADE PG 58-28	TON	~~147~~ 130.90	~~102~~ 91.29	~~249~~ 222.19
401(6)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
402(1)	STE-1 ASPHALT FOR TACK COAT	TON	5	5	10
603(1-12)	12-INCH CSP	LINEAR FOOT	36		36
603(21-18)	18-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	110		110
603(21-24)	24-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~270~~ 490		~~270~~ 490
603(21-36)	36-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~138~~ 150		~~138~~ 150
603(22-8)	8-INCH DUCTILE IRON PIPE	LINEAR FOOT	~~56~~ 57.3		~~56~~ 57.3
604(4)	ADJUST EXISTING MANHOLE	EACH	3	1	4
604(5)	INLET, TYPE A	EACH	1		1
615(1)	STANDARD SIGN	SQUARE FT.	83.25	133	216.25
618(1)	SEEDING	LUMP SUM	ALL REQUIRED		ALL REQUIRED
626(3)	ADJUST EXISTING CLEANOUT	EACH	1		1
627(1)	8-INCH DUCTILE IRON WATER CONDUIT, CLASS 50	LINEAR FOOT	875		875
627(6)	FIRE HYDRANT RELOCATION	EACH	1		1
627(10)	ADJUSTMENT OF VALVE BOX	EACH	3	2	5
635(1)	INSULATION BOARD	SQUARE FT.	~~200~~ 272		~~200~~ 272
639(2)	COMMERCIAL DRIVEWAY	EACH	7		7
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)	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED	~~ALL REQUIRED~~ 0	ALL REQUIRED
641(5)	TEMPORARY CHECK DAM	EACH	5		5
641(6)	SILT FENCE	LINEAR FOOT	~~200~~ 1,479		~~200~~ 1,479
641(7)	PRELIMINARY SEEDING	ACRE	~~2~~ 0.420		~~2~~ 0.420
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642(3)	THREE PERSON SURVEY PARTY	HOURL	~~10~~ 6.91		~~10~~ 6.91
642(4)	SET PRIMARY MONUMENT	EACH	2		2
642(10)	MONUMENT CASE	EACH	2		2
642(11)	ADJUST EXISTING MONUMENT CASE	EACH		1	1
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED	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
644(1)	FIELD OFFICE	LUMP SUM	ALL REQUIRED		ALL REQUIRED
644(6)	VEHICLES	LUMP SUM	ALL REQUIRED		ALL REQUIRED
651(1)	EAGLE MONITORING	HOURL	~~80~~ 150.24		~~80~~ 150.24
660(3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED		ALL REQUIRED
662(1)	ELECTRICAL SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED		ALL REQUIRED
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
201(3B)	ADDITIONAL CLEARING & GRUBBING, CO 6	LUMP SUM	ALL REQUIRED		ALL REQUIRED
301(10)	AGGREGATE BASE COURSE, GRADING D-1, CO 4	LUMP SUM	ALL REQUIRED		ALL REQUIRED
611(1)	RIPEAP CLASS 1, CO 2	SQUARE YARD	4,959		4,959
612(1A)	ELECTRICAL SYSTEM MODIFICATIONS, CO 3	LUMP SUM	ALL REQUIRED		ALL REQUIRED
627(1-12)	12" DUCTILE IRON WATER CONDUIT, CO 1	LINEAR FOOT	803.55		803.55
630(1)	GEOTEXTILE SEPARATION, CO 2	SQUARE YARD	1,122		1,122
662(10)	ELECTRICAL SYSTEM MODIFICATIONS, CO 5	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
662(10)	EXCESS CABLE (NP), CO 5	LUMP SUM		ALL REQUIRED	ALL REQUIRED

As-BUILT Filed

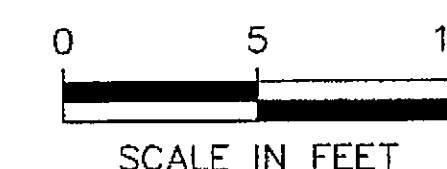
DESIGNED BY: J. HOLLATZ	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
	SOUTHEAST REGION
WRANGELL PROJECT SUMMARIES	
CHECKED BY: T. MOORE DRAWN BY: L.R.	PROJECT DESIGNATION: AS NOTED
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***SEEDING NOTE:**
NO SEEDING REQUIRED ON
SHOT ROCK EMBANKMENT SLOPES.

****BLASTING NOTE:**
IN ROCK DELETE 18" SELECT MATERIAL. FRACTURE
ROCK 18" UNDER AGGREGATE BASE. WILL BE PAID FOR
UNDER ITEM 203 (11) DITCHLINE/SUBGRADE BLASTING.



As Built Filed

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL

DESIGNED BY: D. WILLIAMS
DRAWN BY: R. SNYDER

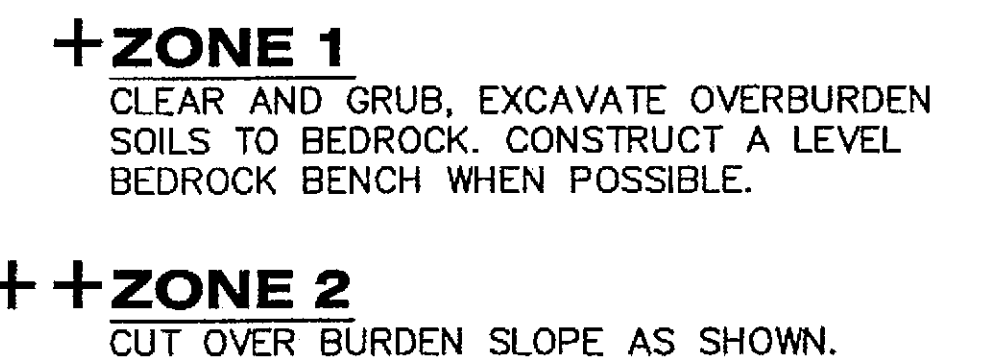
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Mon, 13/Dec/04 09:11AM rksnyder

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

TYPICAL SECTIONS

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AIP NO. 3-02-0323-1004	2004	B2	43



****BLASTING NOTE:**
IN ROCK DELETE 18" SELECT MATERIAL. FRACTURE
ROCK 18" UNDER AGGREGATE BASE. WILL BE PAID FOR
UNDER ITEM 203 (11) DITCHLINE/SUBGRADE BLASTING.

0 5 10

SCALE IN FEET

AS BUILT *Fixed*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL  <i>12/14/04</i>	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246																					
DESIGNED BY: D. WILLIAMS DRAWN BY: R. SNYDER	TYPICAL SECTIONS																					
PATH: Q:\Wrg\68246\Planset\B_Typ.dwg TAB: B4 Mon, 13/Dec/04 09:11AM rksnyder																						
<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">REVISIONS</th> <th style="text-align: center;">PROJECT DESIGNATION</th> <th style="text-align: center;">YEAR</th> <th style="text-align: center;">SHEET NO.</th> <th style="text-align: center;">TOTAL SHEETS</th> </tr> <tr> <th style="text-align: center;">NO.</th> <th style="text-align: center;">DATE</th> <th style="text-align: center;">DESCRIPTION</th> <th style="text-align: center;">AIP NO.</th> <th></th> <th></th> <th></th> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center; font-size: 1.2em;">3-02-0323-1004</td> <td style="text-align: center; font-size: 1.2em;">2004</td> <td style="text-align: center; font-size: 1.2em;">B4</td> <td style="text-align: center; font-size: 1.2em;">43</td> </tr> </table>		REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE	DESCRIPTION	AIP NO.							3-02-0323-1004	2004	B4	43
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																
NO.	DATE	DESCRIPTION	AIP NO.																			
			3-02-0323-1004	2004	B4	43																

ESTIMATE OF QUANTITIES			
Item No.	Pay Item	Pay Unit	Quantity
201(3B)	Clearing And Grubbing	Lump Sum	All Required
202 (1)	Removal Of Structures And Obstructions	Lump Sum	All Required
202 (2)	Removal of Pavement	Square Yard	10600
203 (3)	Unclassified Excavation	Cubic Yard	75000
203 (11)	Ditchline/Subgrade Blasting	Square Yard	16500
203 (19)	PreBlast Survey	Each	8
301 (1)	Aggregate Base Course, Grading D-1	TON	4700
306 (1)	ATB	Ton	1180
401 (1)	Asphalt Concrete Pavement, Type II, Class B	Ton	1670
401 (2)	Asphalt Cement, Grade PG 58-28	Ton	147
401 (6)	Asphalt Price Adjustment	Contingent Sum	All Required
402 (1)	STE-1 Asphalt For Tack Coat	Ton	5
603(1-12)	12 Inch CSP	Linear Foot	36
603(21-18)	18 Inch Corrugated Polyethylene Pipe	Linear Foot	110
603(21-24)	24 Inch Corrugated Polyethylene Pipe	Linear Foot	440 270
603(21-36)	36 Inch Corrugated Polyethylene Pipe	Linear Foot	150 136
603(22-8)	8 Inch Ductile Iron Pipe	Linear Foot	56
604 (4)	Adjust Existing Manhole	Each	3
604 (5)	Inlet, Type A	Each	1
615 (1)	Standard Sign	Square Foot	83.25
618 (1)	Seeding	Lump Sum	All Required
626 (3)	Adjust Existing Cleanout	Each	1
627 (1)	8-Inch Ductile Iron Water Conduit, Class 50	Linear Foot	875
627 (6)	Fire Hydrant Relocation	Each	1
627 (10)	Adjustment of Valve Box	Each	3
635 (1)	Insulation Board	Square Foot	200
639 (2)	Commercial Driveway	Each	7
640 (1)	Mobilization And Demobilization	Lump Sum	All Required
641 (1)	Erosion And Pollution Control Administration	Lump Sum	All Required
641 (2)	Temporary Erosion And Pollution Control	Contingent Sum	All Required
641 (5)	Temporary Check Dam	Each	5
641 (6)	Silt Fence	Linear Foot	200
641 (7)	Preliminary Seeding	Acre	2
642 (1)	Construction Surveying	Lump Sum	All Required
642 (3)	Three Person Survey Party	Hour	10
642 (4)	Set Primary Monument	Each	2
642 (10)	Monument Case	Each	2
643 (2)	Traffic Maintenance	Lump Sum	All Required
643 (3)	Permanent Construction Signs	Lump Sum	All Required
643 (15)	Flagging	Contingent Sum	All Required
643 (25)	Traffic Control	Contingent Sum	All Required
644 (1)	Field Office	Lump Sum	All Required
644 (6)	Vehicles	Lump Sum	All Required
651(1)	Eagle Monitoring	Hour	150 60
660(3)	Highway Lighting System Complete	Lump Sum	All Required
662(1)	Electrical System Complete	Lump Sum	All Required
670 (10)	Methyl Methacrylate Pavement Markings	Lump Sum	All Required

BASIS OF ESTIMATE		
Item No.	Pay Item	Quantity
203 (3)	Unclassified Excavation	75,000 CY INCLUDES 15,000 CY WASTE
301 (1)	Aggregate Base Course, Grading D-1	1.98 Tons/CY
306 (1)	Asphalt Treated Base Course	119 lbs./Sq.Yd./inch depth
401 (1)	Asphalt Concrete, Type II, Class B	120 lbs./Sq.Yd./inch depth
401 (2)	Asphalt Cement, Grade PG-58-28	6% of item 401(1) plus 4% of item 306(1)
402 (1)	STE-1 Asphalt for Tackcoat	0.1 Gal/Sq. Yd. @ 240 Gal/Ton

ADDITIVE ALTERNATE A			
Item No.	Pay Item	Pay Unit	Quantity
401 (1)	Asphalt Concrete Pavement, Type II, Class B	Ton	583
401 (2)	Asphalt Cement, Grade PG 58-28	Ton	35 182
670 (10)	Methyl Methacrylate Pavement Markings	Lump Sum	All Required

ASBUILT Filed

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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

WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246

ESTIMATE OF
QUANTITIES

DESIGNED BY: D. WILLIAMS
DRAWN BY: R. SNYDER
PATH: Q:\Wrg\68246\Plans\Est.dwg
TAB: C1

12-14-04

12-14-04

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

WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246

ESTIMATE OF
QUANTITIES

DESIGNED BY: D. WILLIAMS
DRAWN BY: R. SNYDER
PATH: Q:\Wrg\68246\Plans\Est.dwg
TAB: C1

12-14-04

12-14-04

REVISIONS

NO. DATE DESCRIPTION

PROJECT DESIGNATION
AIP NO.

3-02-0323-1004

YEAR

2004

SHEET NO.

C1

TOTAL SHEETS

43

REMOVAL OF STRUCTURES & OBSTRUCTIONS

GUARDRAIL REMOVAL

Station to Station	LT	RT	Linear Ft	Remarks
"O" 20+98.50 TO 25+23.01	X		412.50	
"A" 11+41.23 TO 11+80.23		X	50.00	
"A" 13+21.44 TO 14+87.83	X		175.00	
TOTAL			637.50	

CULVERT REMOVAL

Station	Offset	Size	Length	Remarks
"O" 13+81.6	39' LT	24"	69'	
"O" 18+86.40	79' LT	9"	100'	
"O" 24+94.90	11' RT	24"	15'	
"A" 9+86.40	36' RT	30"	23'	
"A" 10+78.00	7' RT	42" X 31"	160'	
"A" 11+91.14	49' RT	24"	62'	
"A" 15+76.10	27' RT	42"	60'	
"A" 16+49.00	6' LT	18"	48'	
"A" 17+09.40	1' LT	18"	17'	
"A" 14+00.00	4' LT	36"	230'	
"A" 16+03.70	4' LT	36"	32'	
"A" 16+21.90	21' LT	36"	50'	
A 18+38.00	6' RT	12"	20'	
		TOTAL	886'	

MANHOLE REMOVAL

Station	LT	RT	Remarks
"A" 16+22.50	7.5'		

INLET REMOVAL

Station	LT	RT	Remarks
"A" 10+84.50	38'		
"A" 13+28.41	4'		
"A" 14+21.23	3'		

MONITORING WELL REMOVAL

Station	LT	RT	Remarks
"A" 14+02.41	10'		
"A" 14+59.38	10'		

MONUMENT REMOVAL

Station	LT	RT	Remarks
"O" 12+36.80	22'		
"A" 14+15.15		22'	
"A" 15+05.99		22'	

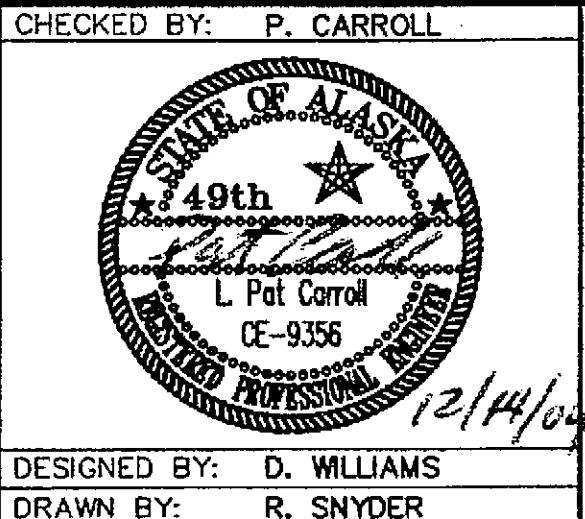
SIGN REMOVAL

Station	LT	RT	Remarks
"A" 12+85.24		11'	
"A" 16+25.20	1.5'		

8 INCH WATERLINE REMOVAL

Station	Offset	Station	Offset	Linear Ft.	Remarks
"O" 23+28.50	83.0' LT	"O" 30+00.90	3.0' RT	753'	

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

MISCELLANEOUS
SUMMARIES

DESIGNED BY: D. WILLIAMS
DRAWN BY: R. SNYDER

PATH: Q:\Wrg\68246\PlanSet\0_Sums.dwg
TAB: D1 Mon, 13/Dec/04 09:12AM rksnyder

REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	AIP NO.				
			3-02-0323-1004		2004	D1	43

PIPE SUMMARY												
Inlet			Outlet			8	12	18	24	36		
Station	Offset	Invert (ft)	Station	Offset	Invert (ft)	Inch DIP	Inch CSP	Inch CPP	Inch CPP	Inch CPP	Grade	Remarks
"O" 15+19.90	26.0	40.9	"O" 15+35.10	37.0	34.6					63.0	12.68%	
"O" 15+24.90	34.0	34.9	"O" 15+40.00	37.7	33.9					72.5	1.64%	
"A" 10+83.40	38.5	31.4	"A" 9+98.00	19.4	30.2			110.0			1.00%	
"A" 15+20.10	7.8	35.0	"A" 15+20.10	19.5	32.5	27.3					-2.33%	EXTENSION OF EXISTING PIPE
"A" 16+16.00	8.0	35.2	"A" 16+14.50	27.7	34.9		35.7				0.50%	EXTENSION OF EXISTING PIPE
"A" 16+74.70	4.3	36.1	"A" 16+77.60	24.0	35.9	28.2					0.48%	EXTENSION OF EXISTING PIPE
"B" 11+11.80	25.5	66.4	"B" 11+30.20	25.3	32.2				54.0		2.66%	
"B" 11+51.90	24.7	32.6	"B" 11+36.10	25.3	32.2				52.5		0.76%	
"C" 10+30.90	45.3	37.1	"C" 10+32.00	37.9	36.0				88.0		1.49%	
"C" 11+47.60	39.0	35.6	"C" 11+42.50	34.7	33.9				73.9		2.93%	
										150		
					TOTAL	55.5	35.7	110.0	268.4	135.0		

COMMERCIAL DRIVEWAY SUMMARY						
Station	LT	RT	Width	Radius		Remarks
				LT	RT	
"O" 11+88	X		27'	30'	30'	
"O" 34+58		X	30'	21.5'	21.5'	
"O" 34+76	X		20'	12'	80'	
"A" 11+35	X		16'	20'	20'	
"A" 13+91		X	24'	10'	10'	
"A" 16+50	X		30'	20'	20'	
"A" 17+60		X	24'	15'	15'	

DRIVEWAY CULVERT PIPE					
Station	Diameter (in)	Length (ft)	Offset	Grade	Remarks
"O" 11+95.30	24	70	35.6' LT	1.0%	
"O" 29+95.20	24	25	28.5' RT	2.0%	
"A" 13+40.00	24	28	25.5' RT	0.5%	
"A" 13+93.30	24	44	25.5' RT	0.5%	
"A" 17+60.00	24	54	24.0' RT	FLAT	
	TOTAL	221			

VALVE BOX ADJUSTMENT			
Station	LT	RT	Remarks
"A" 10+44	10.23'		
"A" 18+54	17.52'		
"A" 18+70		1.91'	

SEWER CLEANOUT ADJUSTMENT			
Station	LT	RT	Remarks
"A" 18+66.34	2.30'		

INLET INSTALLATION						
Inlet Type	Station	Left	Right	Top of Grate Elev	Grate Type	Remarks
A	"A" 10+84.5	38'		33.8'	FIELD	USE EXISTING FRAME & GRATE

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

WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246

MISCELLANEOUS
SUMMARIES

DESIGNED BY: D. WILLIAMS
DRAWN BY: R. SNYDER
PATH: O:\Wrg\68246\Planset\D_Sums.dwg
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12/14/04
Mon, 13/Dec/04 04:08PM
rksnyder

REVISIONS
NO. DATE DESCRIPTION

PROJECT DESIGNATION
AIP NO.
3-02-0323-1004

YEAR
2004

SHEET NO.
D2

TOTAL SHEETS
43

BOLLARD INSTALLATION		
Station	Right Offset	Remarks
"A" 11+78.90	39.3'	SECTION ENCLOSURE
"A" 11+87.00	39.2'	SECTION ENCLOSURE
"A" 11+87.00	34.2'	SECTION ENCLOSURE
"A" 13+12.10	33.2'	3PH TRANSFORMER
"A" 13+12.10	38.2'	3PH TRANSFORMER
"A" 13+16.40	38.2'	3PH TRANSFORMER
"A" 13+20.70	38.2'	3PH TRANSFORMER
"A" 13+20.70	33.3'	3PH TRANSFORMER
"A" 15+90.00	34.3'	SECTION ENCLOSURE
"A" 15+90.00	39.3'	SECTION ENCLOSURE
"A" 16+00.00	39.3'	SECTION ENCLOSURE
"A" 16+00.00	34.3'	SECTION ENCLOSURE

MANHOLE ADJUSTMENT				
Station	LT	RT	Elevation	Remarks
"A" 11+82	14.0'			ELECTRICAL
"A" 14+40	14.1'			
"A" 18+43		4.8'		

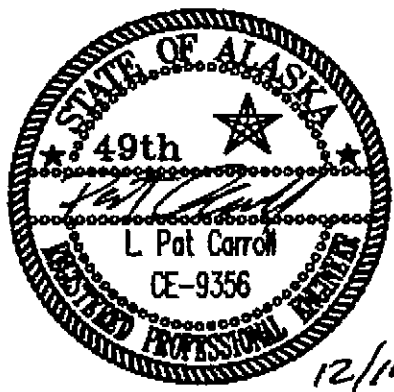
FIRE HYDRANT RELOCATION		
Existing Location	New Location	Remarks
"O" 29+95, 17.0' RT	"O" 29+80, 32.0' RT	

SIGN SUMMARY												
Sign No.	Station	Offset		Type	Facing Traffic	Sign Legend	Size (")		Area (Sq Ft)	Post Size	Post Type	Remarks
		Lt	Rt				Wd	Ht				
1	"O" 14+05	28		R2-1	EB	Speed Limit 25	30	36	7.5	2"	pst	
2	"O" 15+40	40		R1-1	SB	Stop	30	30	6.25	2"	pst	
3	"O" 15+60		34	D1-2	SB	<== Zimovia Hwy Ferry Terminal ==>	66	24	11	2"	pst	double post
4	"O" 20+45	47		R1-1	SB	Stop	30	30	6.25	2"	pst	
5	"O" 20+64		30	D1-2	SB	<== Zimovia Hwy Ferry Terminal ==>	66	24	11	2"	pst	double post
6	"O" 26+87		34	R2-1	WB	Speed Limit 40	30	36	7.5	2"	pst	
7	"O" 26+87	28		R2-1	EB	Speed Limit 25	30	36	7.5	2"	pst	
8	"B" 11+52		20	R1-1	NB	Stop	30	30	6.25	2"	pst	
9	"A" 14+10		22	R1-1	SB	Stop	30	30	6.25	2"	pst	
10	"C" 11+37		22	R1-1	SB	Stop	30	30	6.25	2"	pst	
~~ALTERNATE A~~												
11	"A" 12+74		34	R7-8RL	NB	Reserved Parking	12	18	2' 1.5"	2"	pst	
12	"A" 12+86		34	R7-8RL	NB	Reserved Parking	12	18	2' 1.5"	2"	pst	
13	"A" 12+98		34	R7-8RL	NB	Reserved Parking	12	18	2' 1.5"	2"	pst	
14	"A" 13+47		34	R7-8RL	NB	Reserved Parking	12	18	2' 1.5"	2"	pst	
15	"A" 13+59		34	R7-8RL	NB	Reserved Parking	12	18	2' 1.5"	2"	pst	

ASBUILT Filed

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CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS
DRAWN BY: R. SNYDER

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TAB: D3

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

WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246

MISCELLANEOUS
SUMMARIES

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT DESIGNATION
AIP NO.

3-02-0323-1004

YEAR

2004

SHEET NO.

D3

TOTAL SHEETS

43

B.O.P.
"O" STA. 9+00
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E 294,537.3744
 MATCH EXISTING
 PAVEMENT

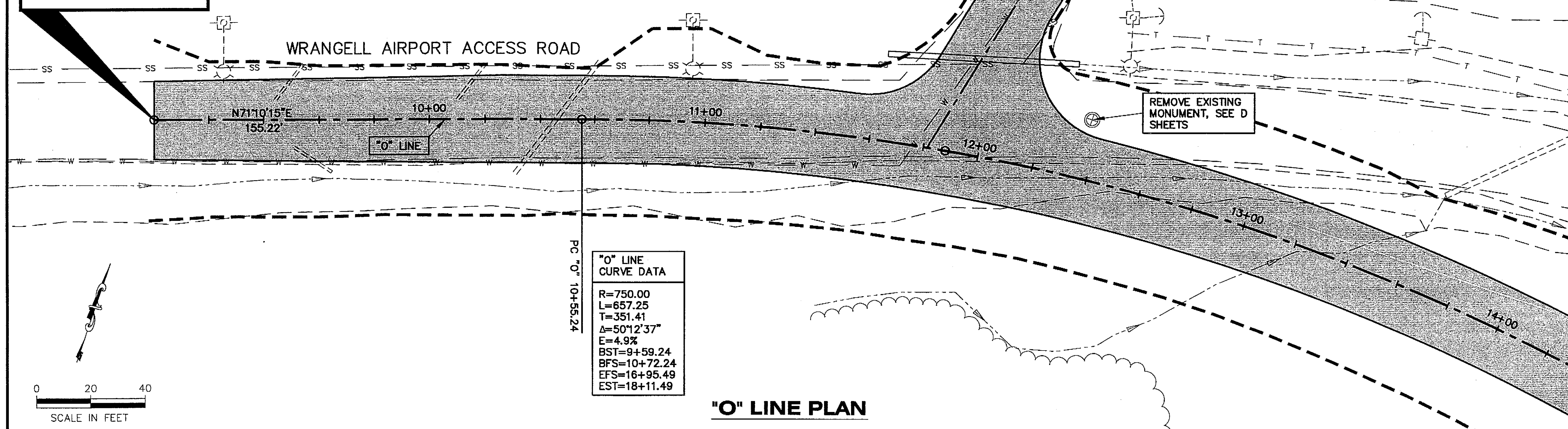
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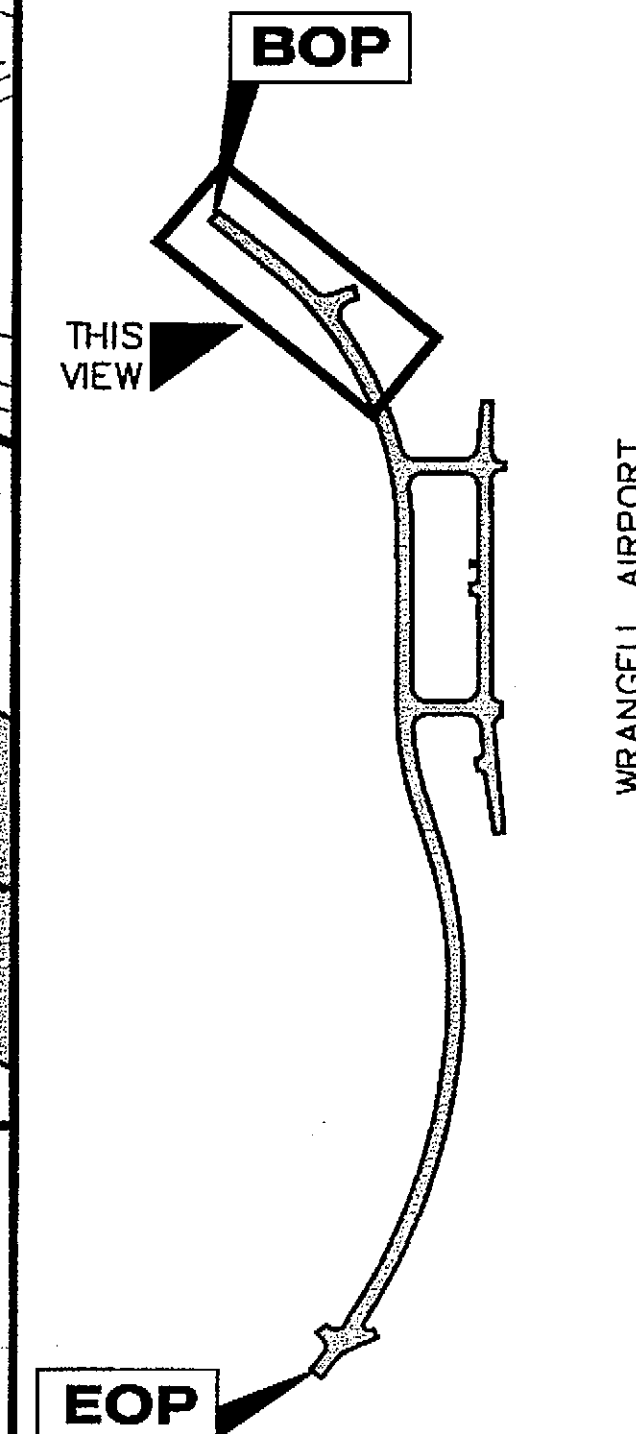
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RECORD OF REVISIONS

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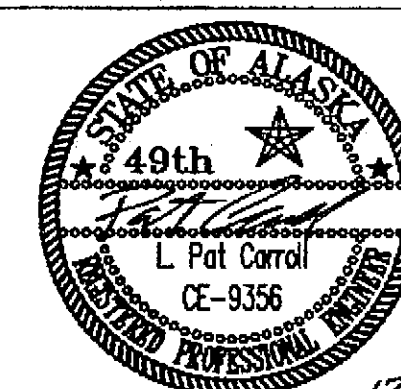


"O" LINE PLAN



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

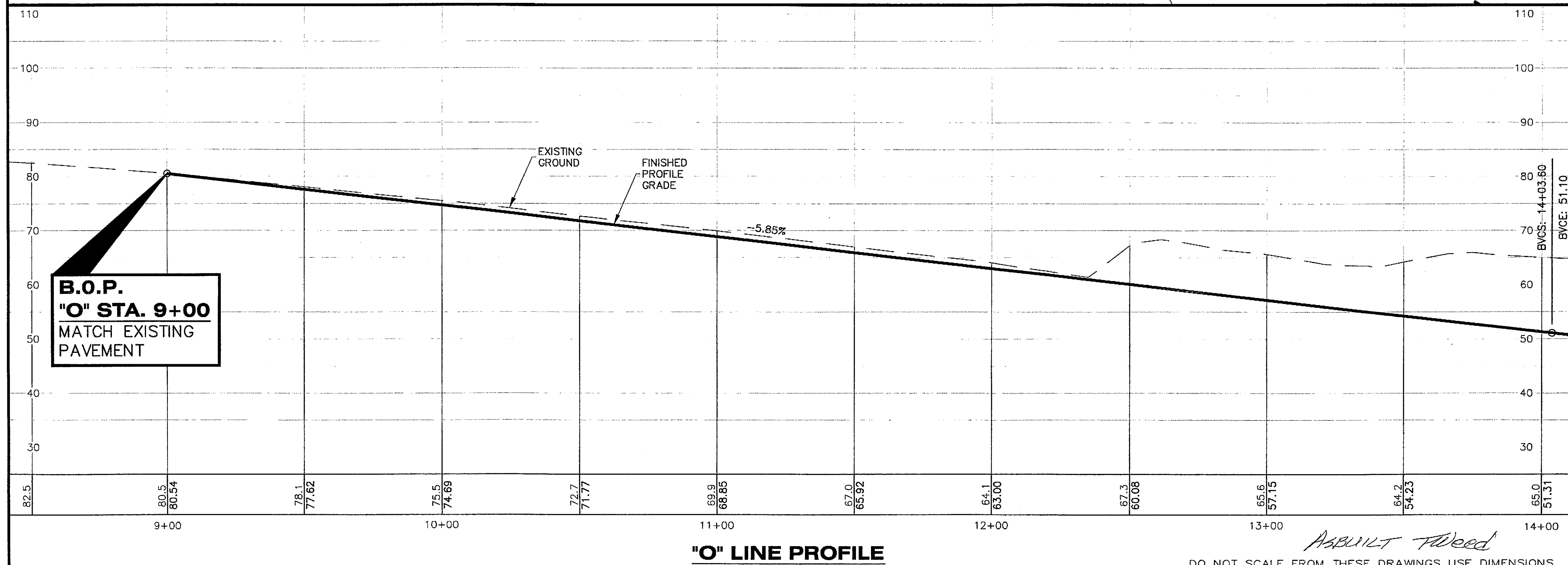
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 S.E. REGION DESIGN & ENGINEERING
 SERVICES DIVISION
**WRANGELL AIRPORT
 ACCESS RD. ALIGNMENT
 PROJECT #68246**

**"O" LINE
 PLAN & PROFILE**

PROJECT DESIGNATION

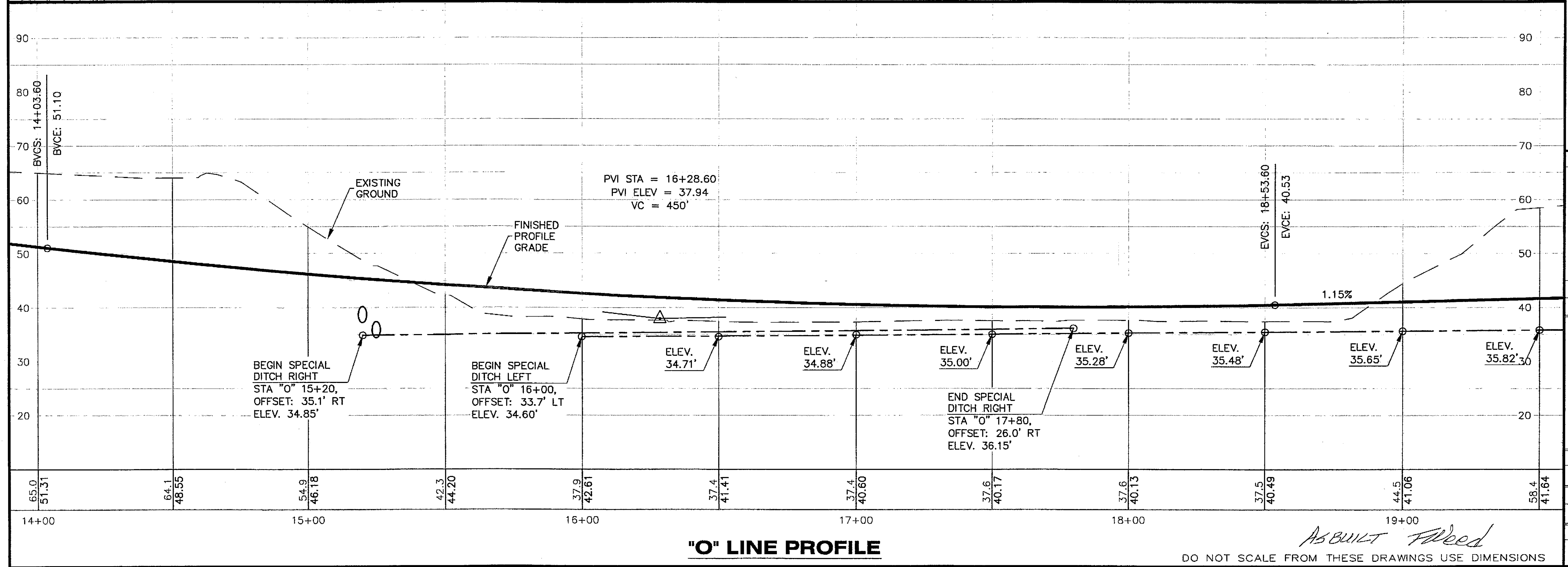
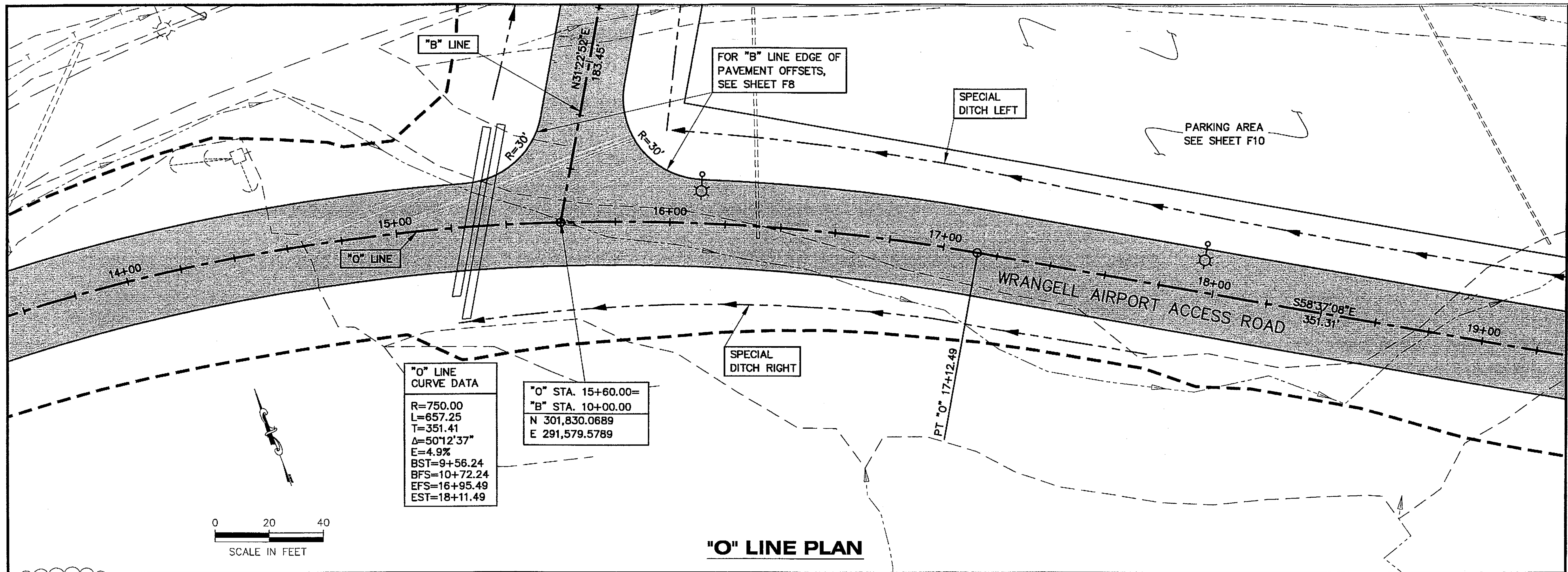
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STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F1	43



"O" LINE PROFILE

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

BOP

THIS VIEW

WRANGELL AIRPORT

EOP

PLAN LEGEND

CHECKED BY: P. CARROLL

DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246
12/14/04

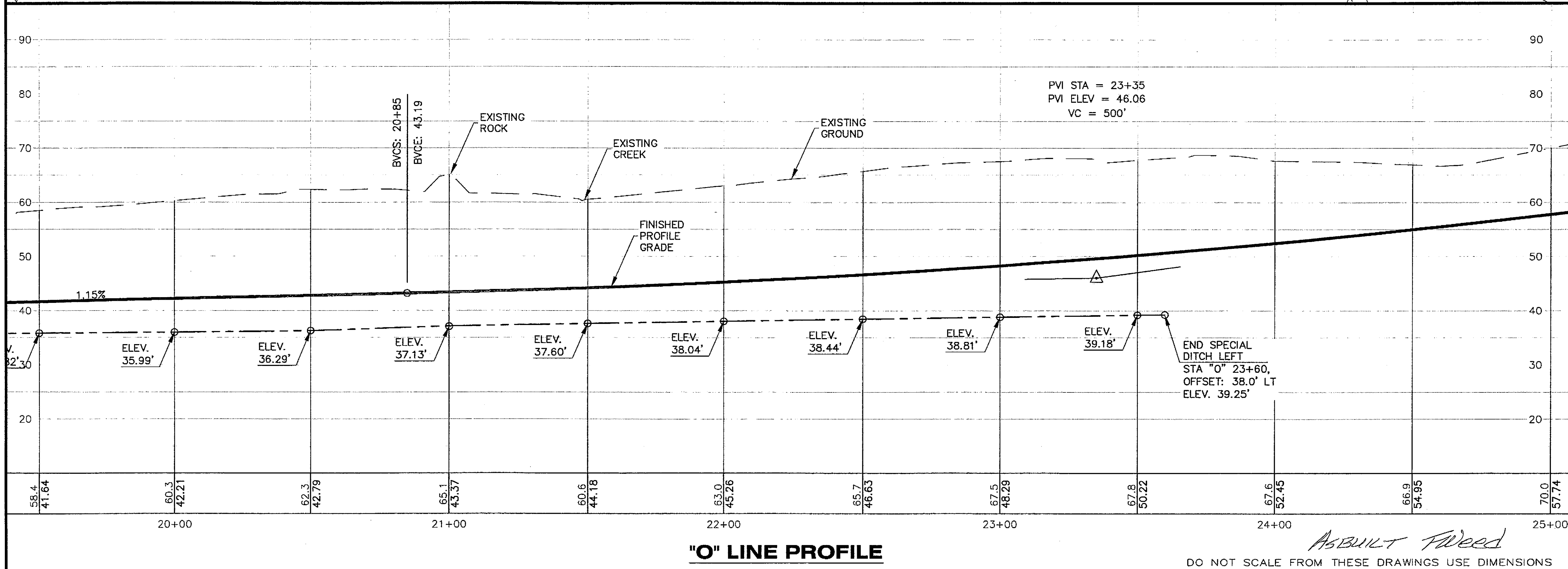
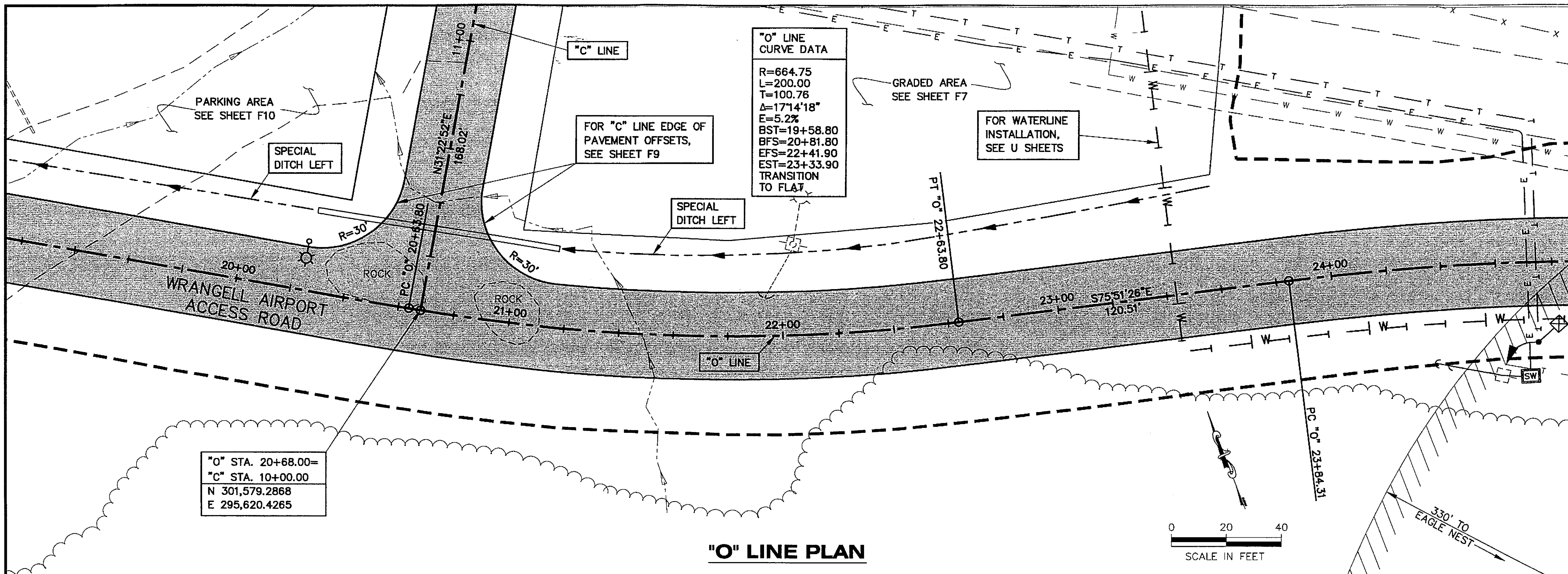
"O" LINE PLAN & PROFILE

PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEETS
F2	43



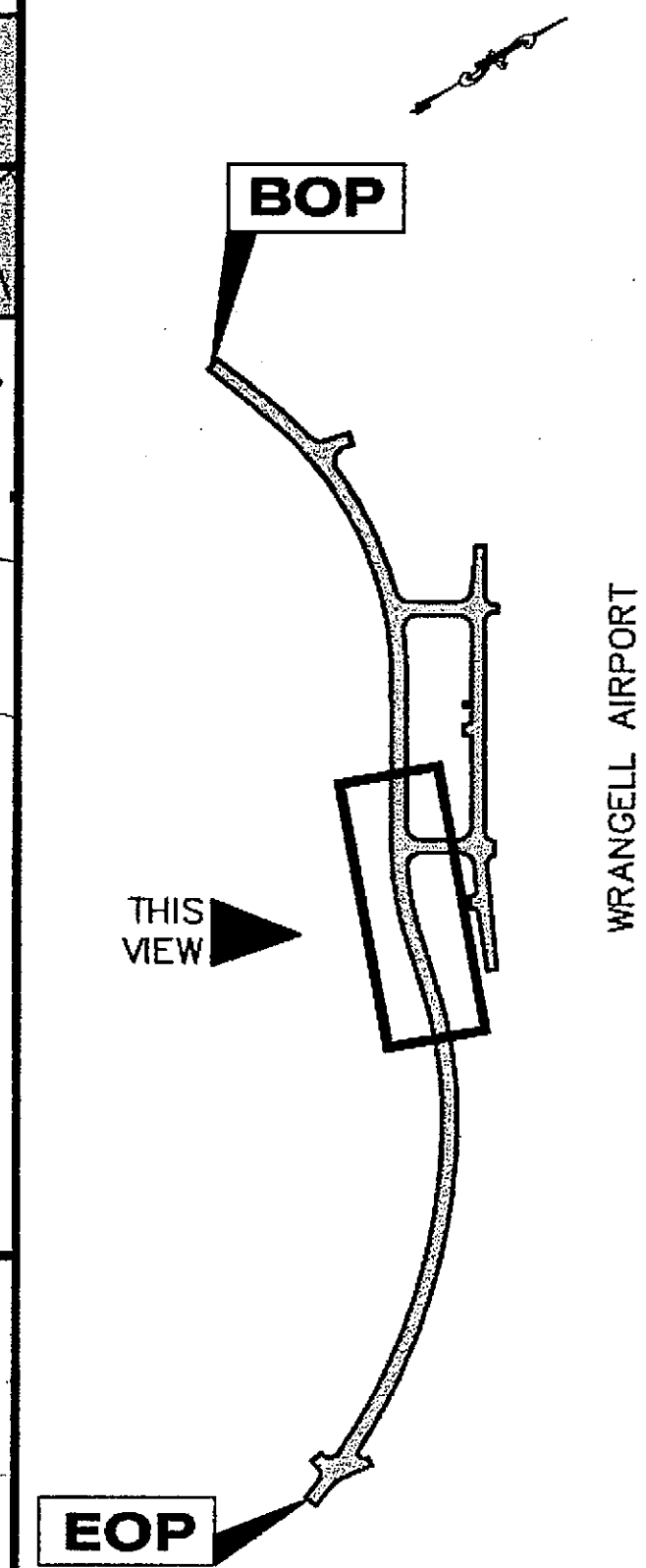
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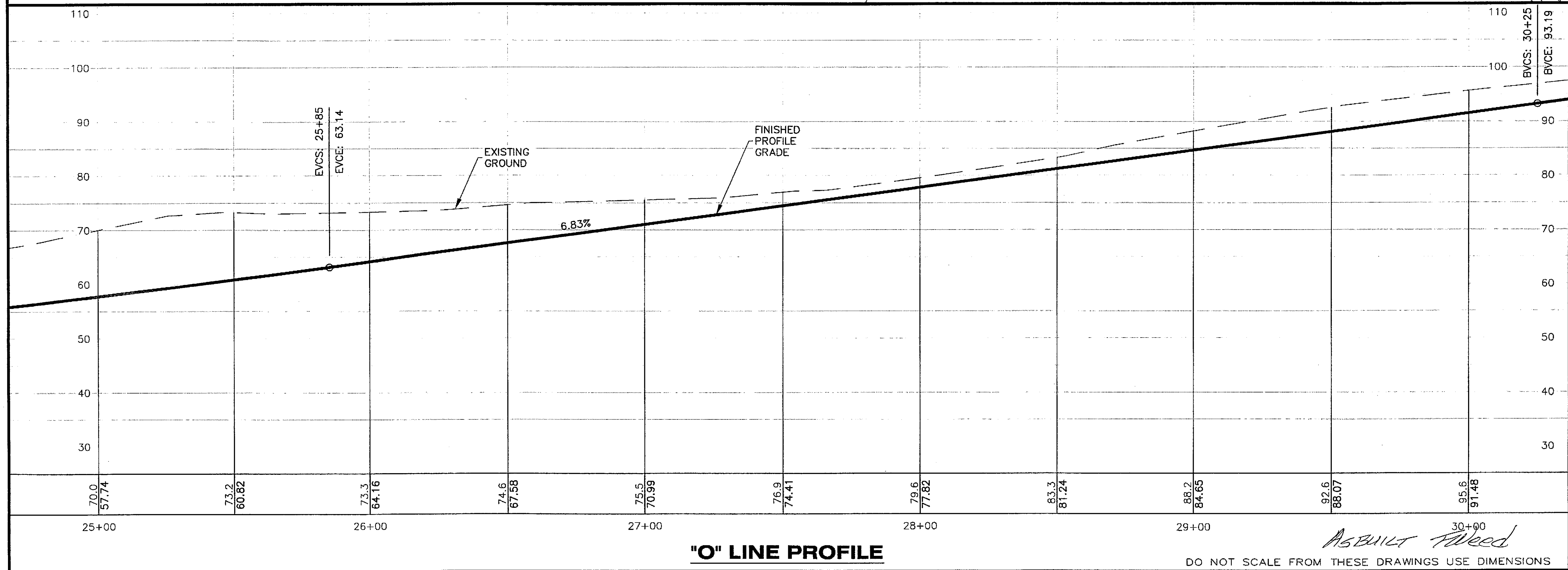
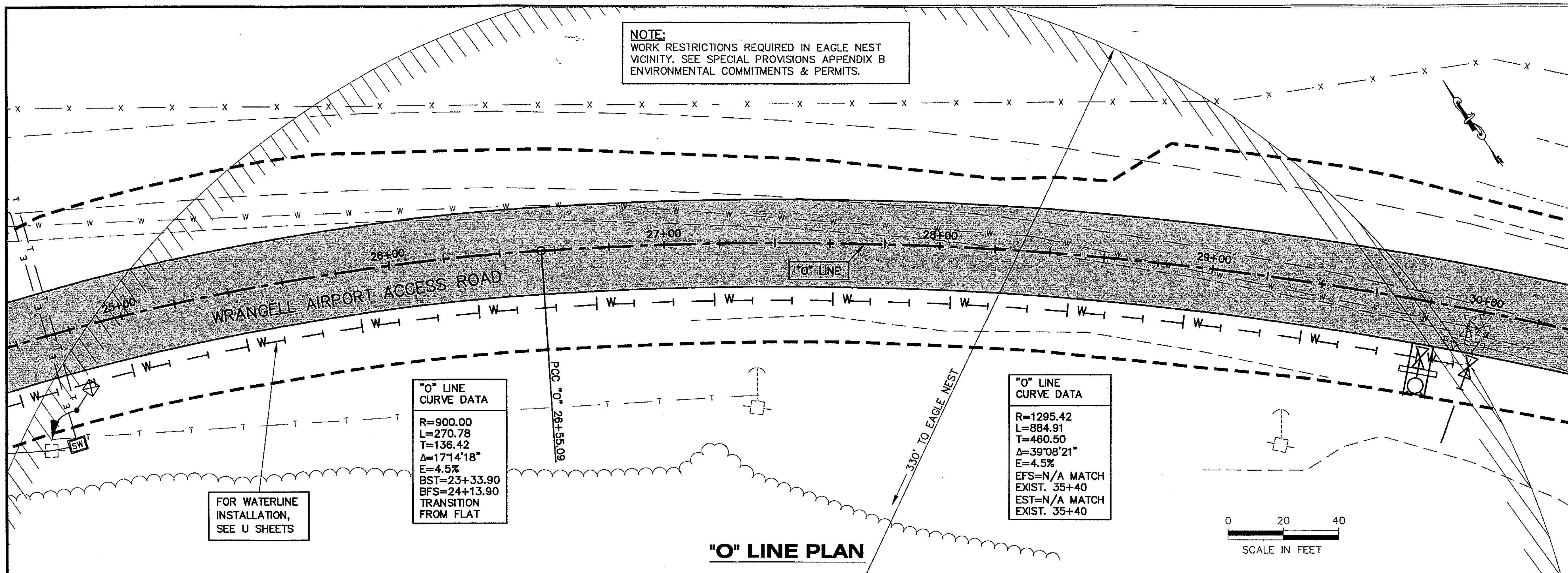
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RECORD OF REVISIONS

No.	DATE	DESCRIPTION





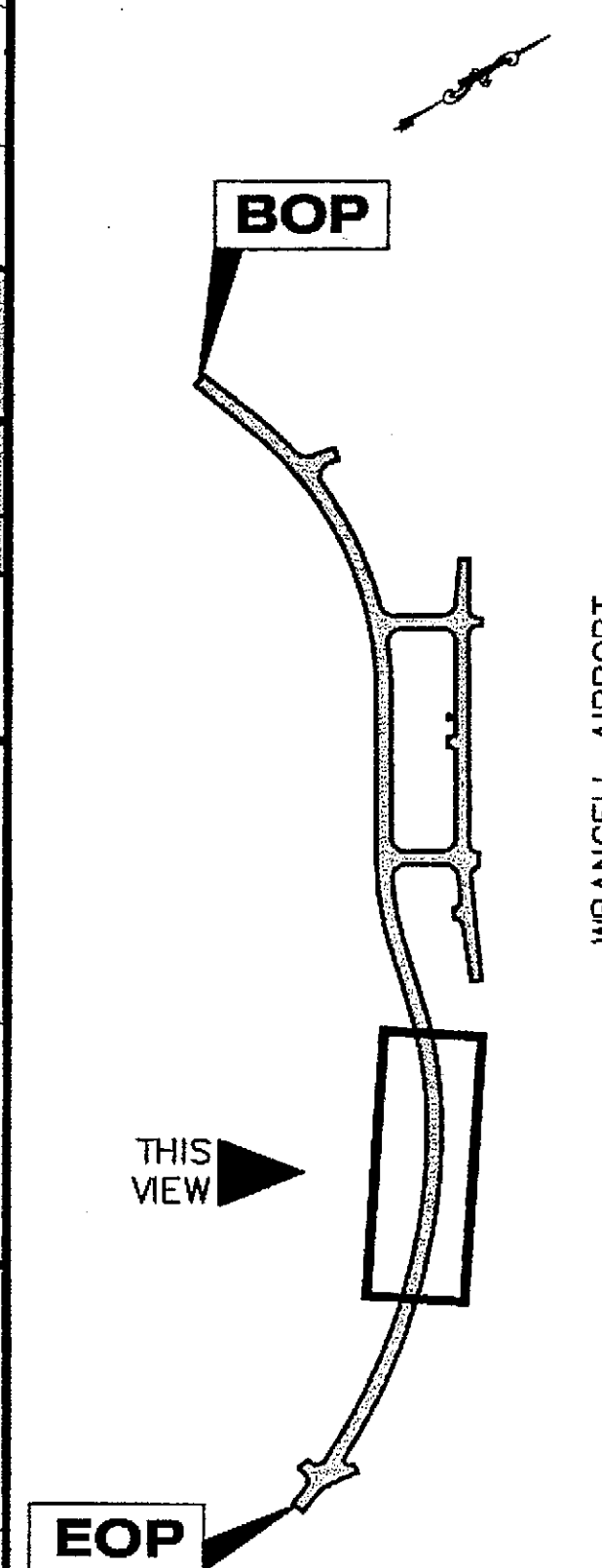
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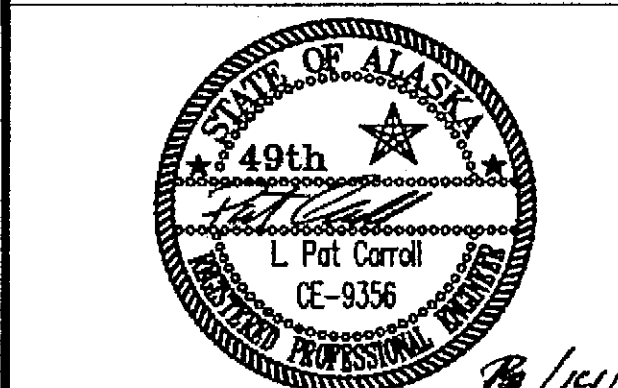
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING
SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

"O" LINE
PLAN & PROFILE

PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

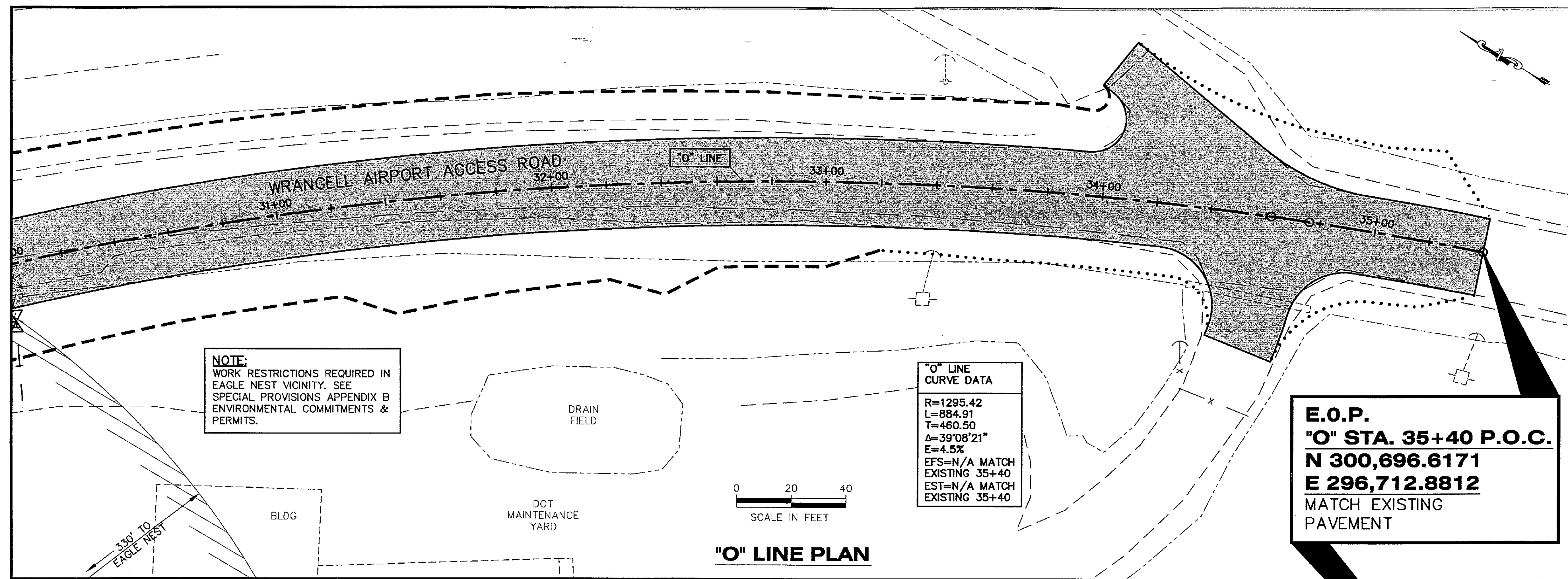
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ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
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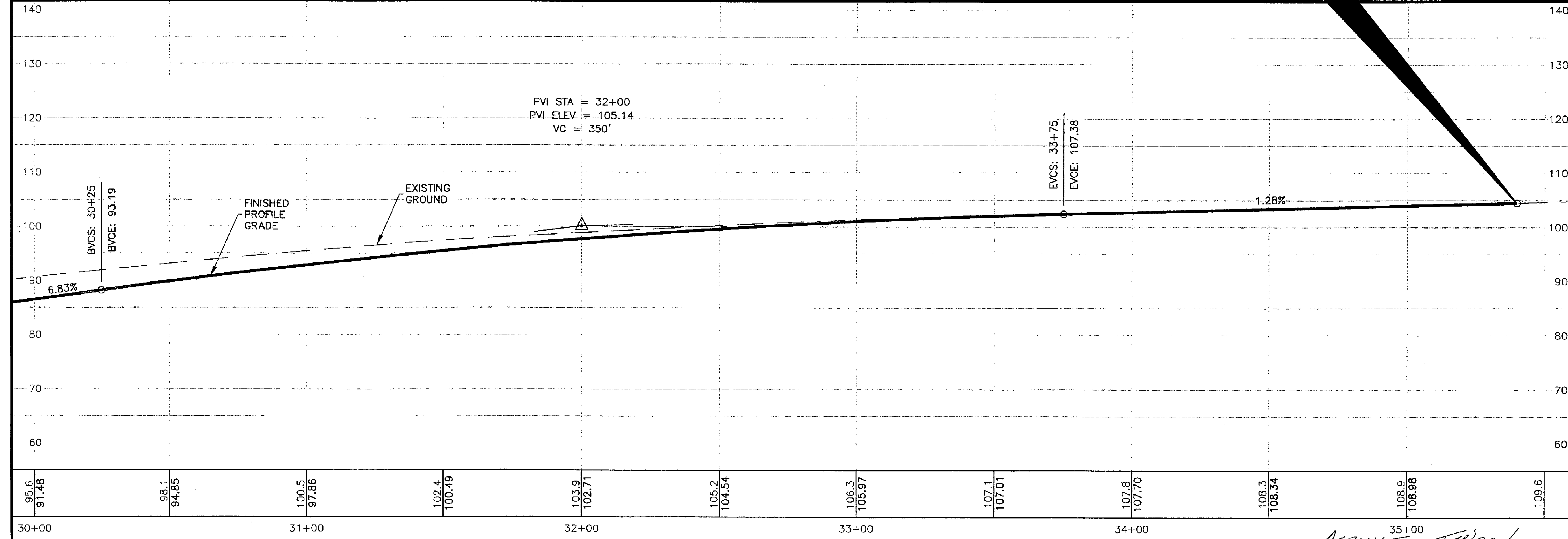
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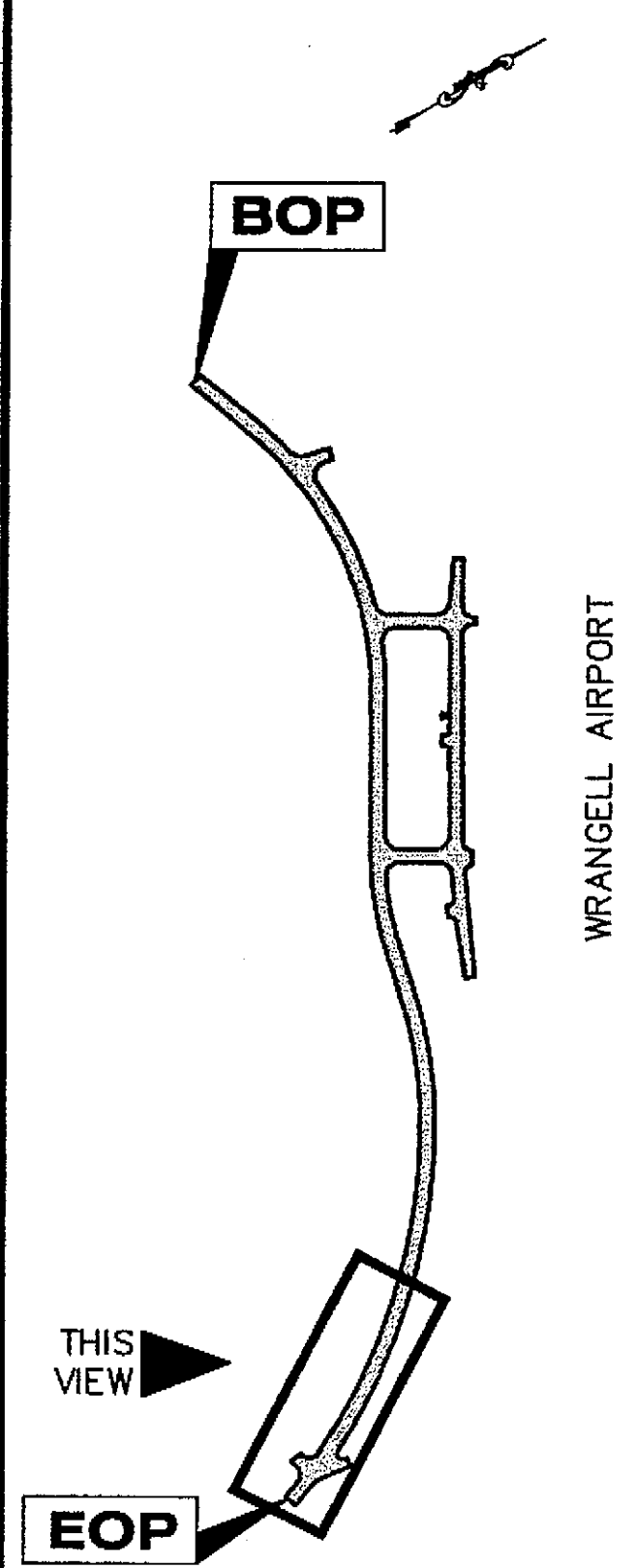
No.	DATE	DESCRIPTION



"O" LINE PLAN



"O" LINE PROFILE



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING
SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

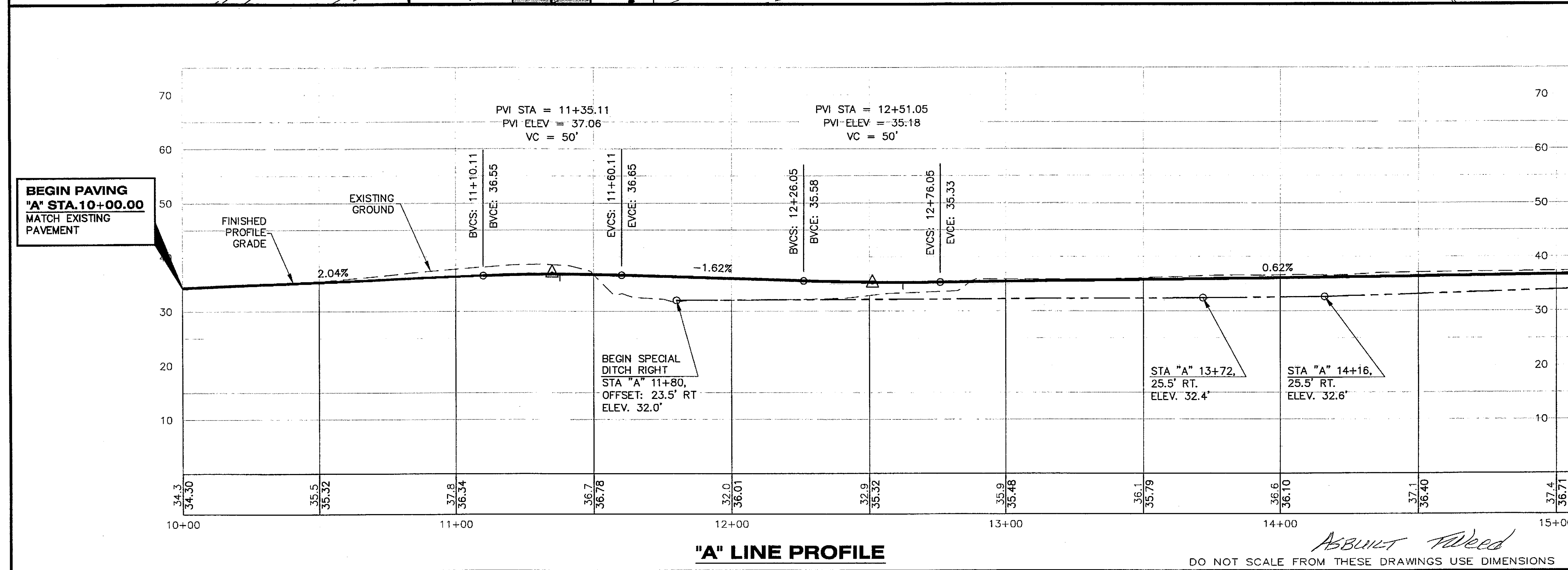
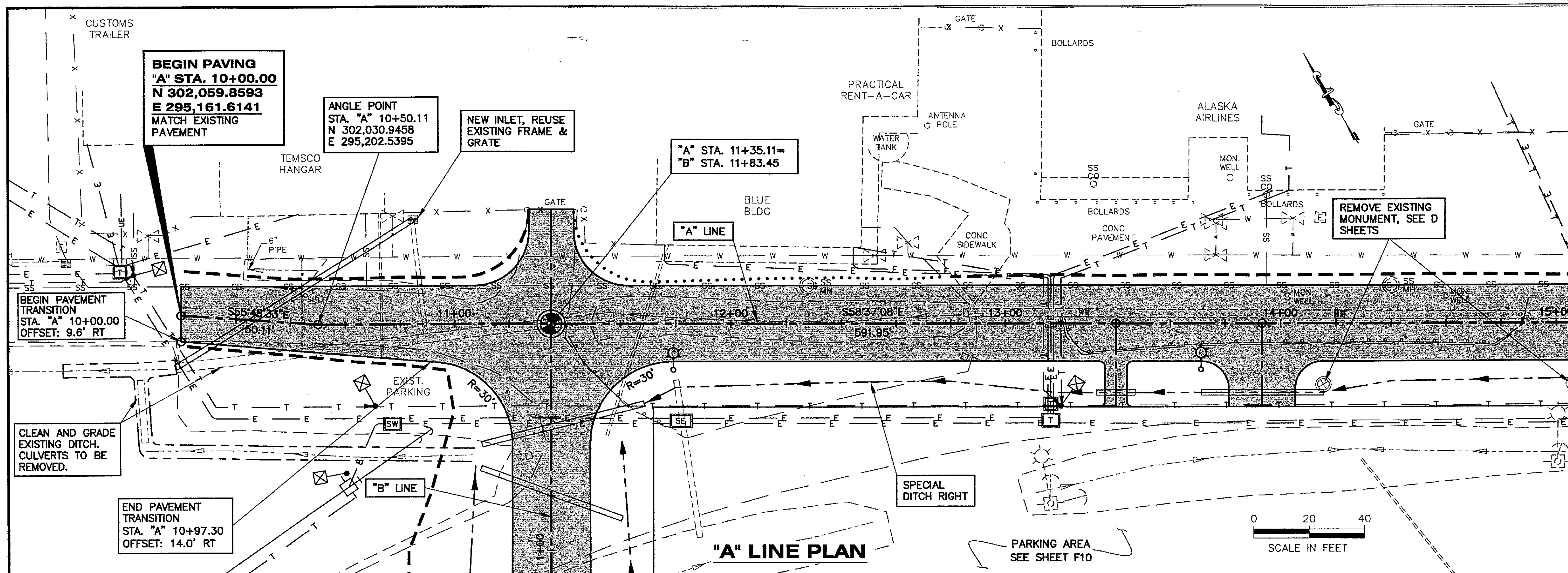
**"O" LINE
PLAN & PROFILE**

PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F5	43

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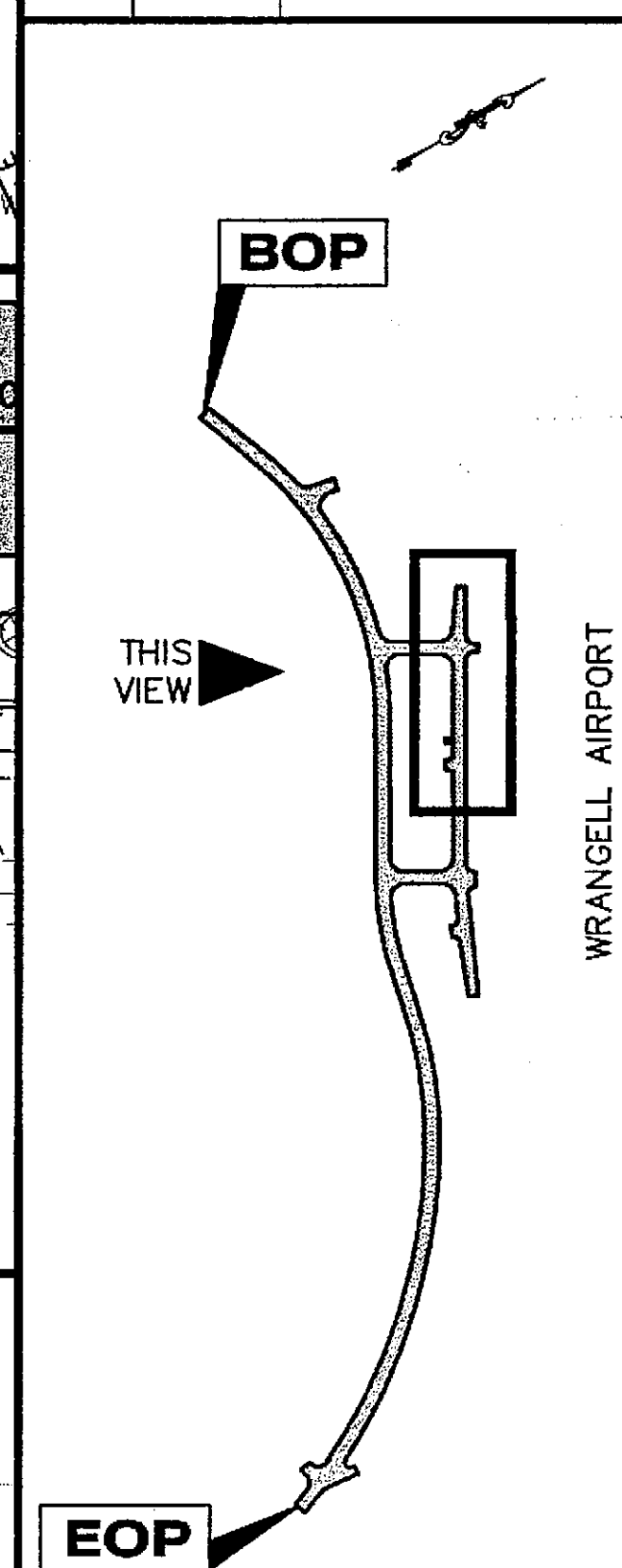
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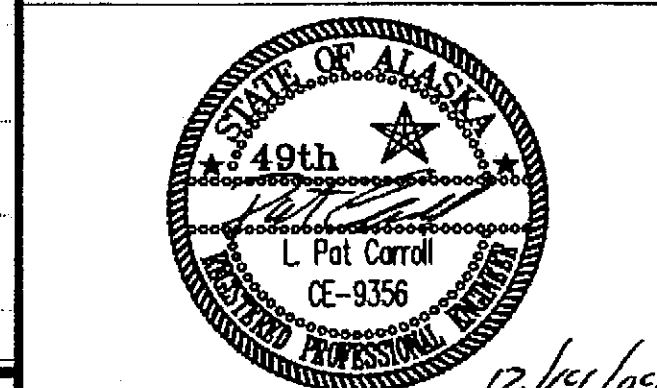
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING
SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

**"A" LINE
PLAN & PROFILE**

PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F6	43

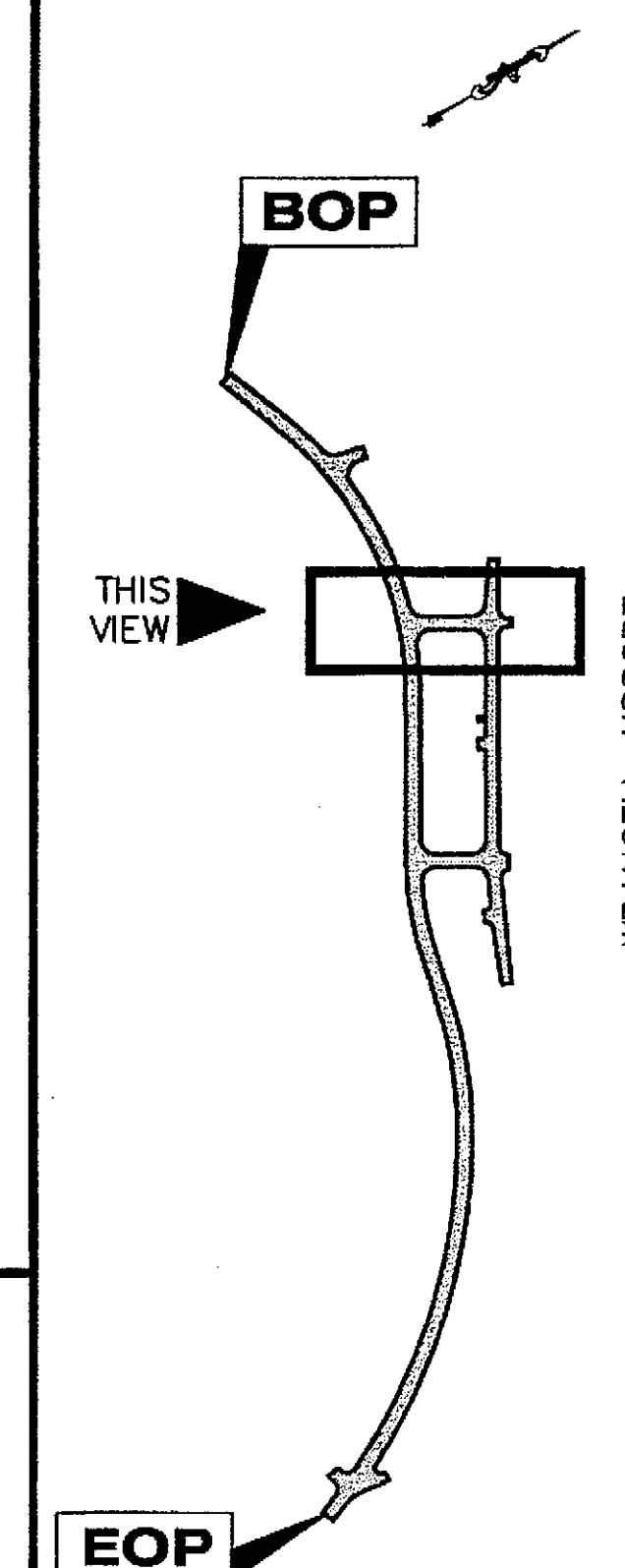
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ATTACHMENT NUMBER

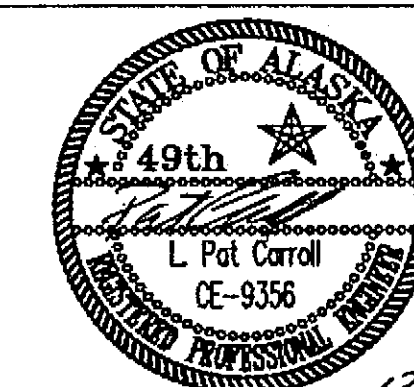
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING
SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

"B" LINE PLAN & PROFILE

PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

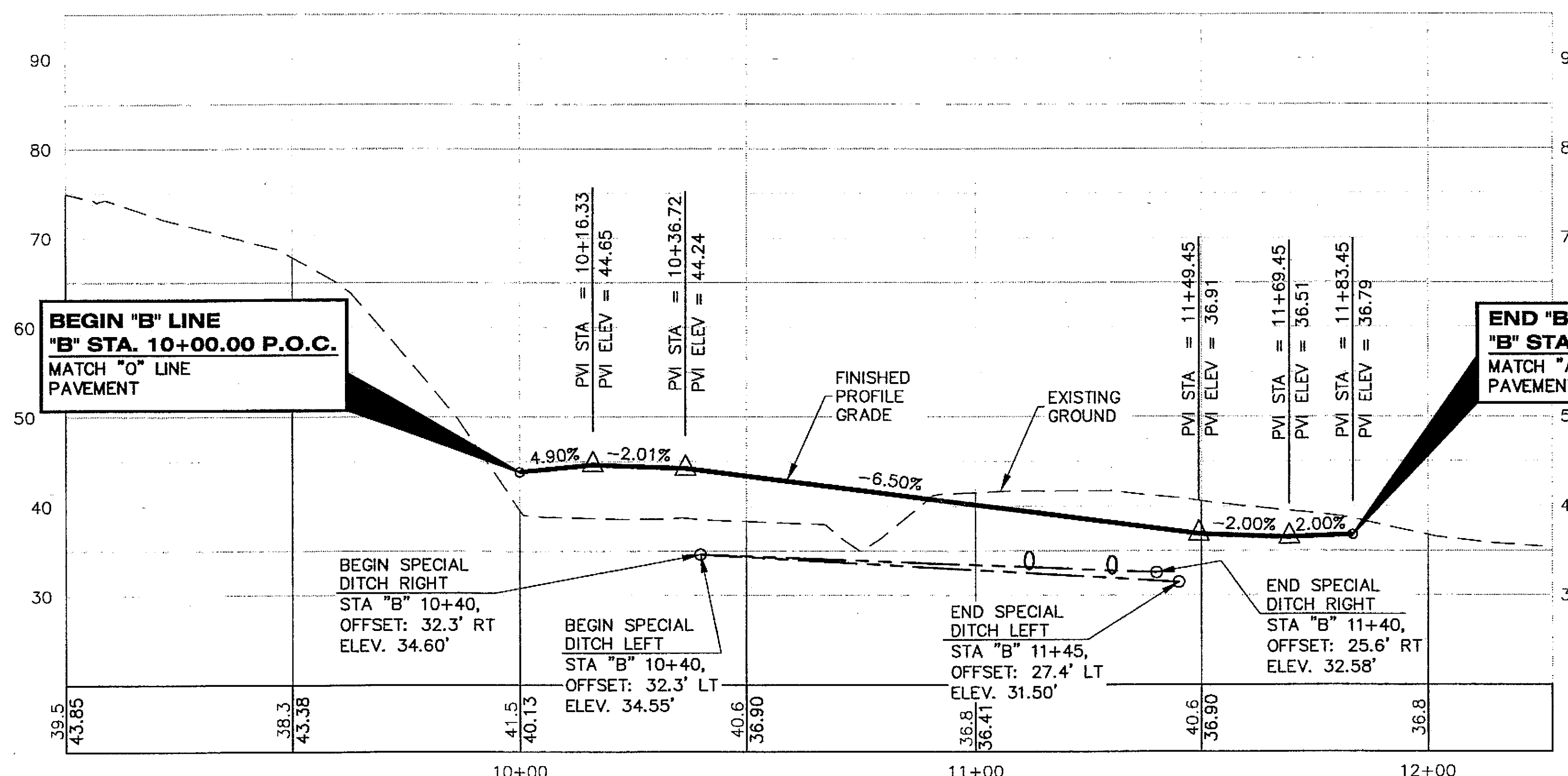
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F8	43

BEGIN "B" LINE
"B" STA. 10+00.00=
"O" STA. 15+60.00 P.O.C.
N 301,830.0624
E 295,179.5896
MATCH "O" LINE
PAVEMENT

END "B" LINE
PT "B" STA. 11+83.45=
"A" STA. 11+35.11 P.O.T.
N 301,986.6840
E 295,275.1060
MATCH "A" LINE
PAVEMENT

PT NO	STATION	OFFSET	DESCRIPTION
CP1	"O"15+26.44	16' LT	PC
CP2	"O"15+26.44	46' LT	PI R=30'
CP3	"O"15+54.09	39.2' LT	PT
CP4	"O"16+10.95	16' LT	PC
CP5	"O"16+10.95	46' LT	PI R=30'
CP6	"O"15+83.09	50.6' LT	PT
CP7	"A"10+91.11	14' RT	PC
CP8	"A"10+91.11	44' RT	PI R=30'
CP9	"A"11+21.11	44' RT	PT
CP10	"A"11+79.11	14' RT	PC
CP11	"A"11+79.11	44' RT	PI R=30'
CP12	"A"11+49.11	44' RT	PT

"B" LINE PLAN



"B" LINE PROFILE

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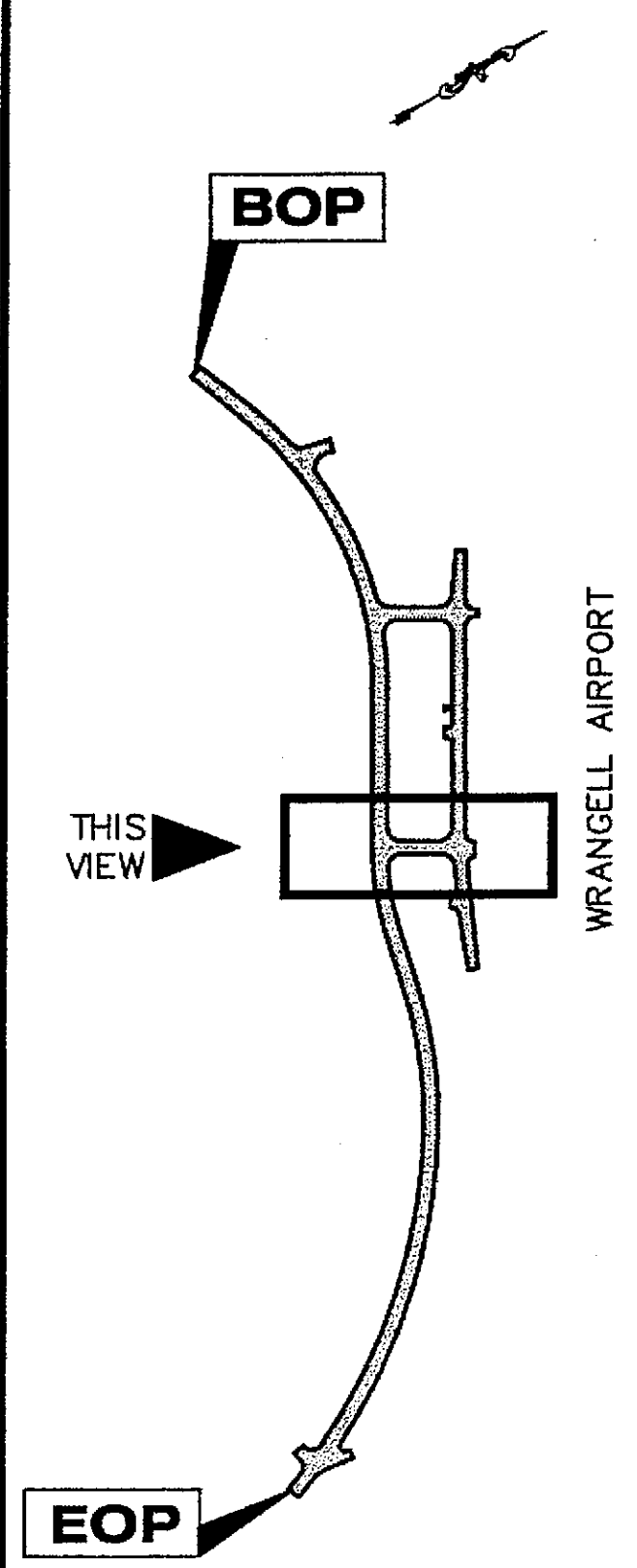
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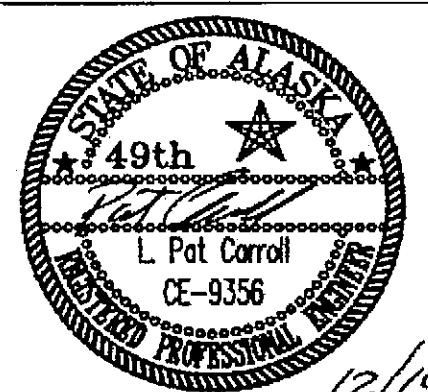
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING
SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

**"C" LINE
PLAN & PROFILE**

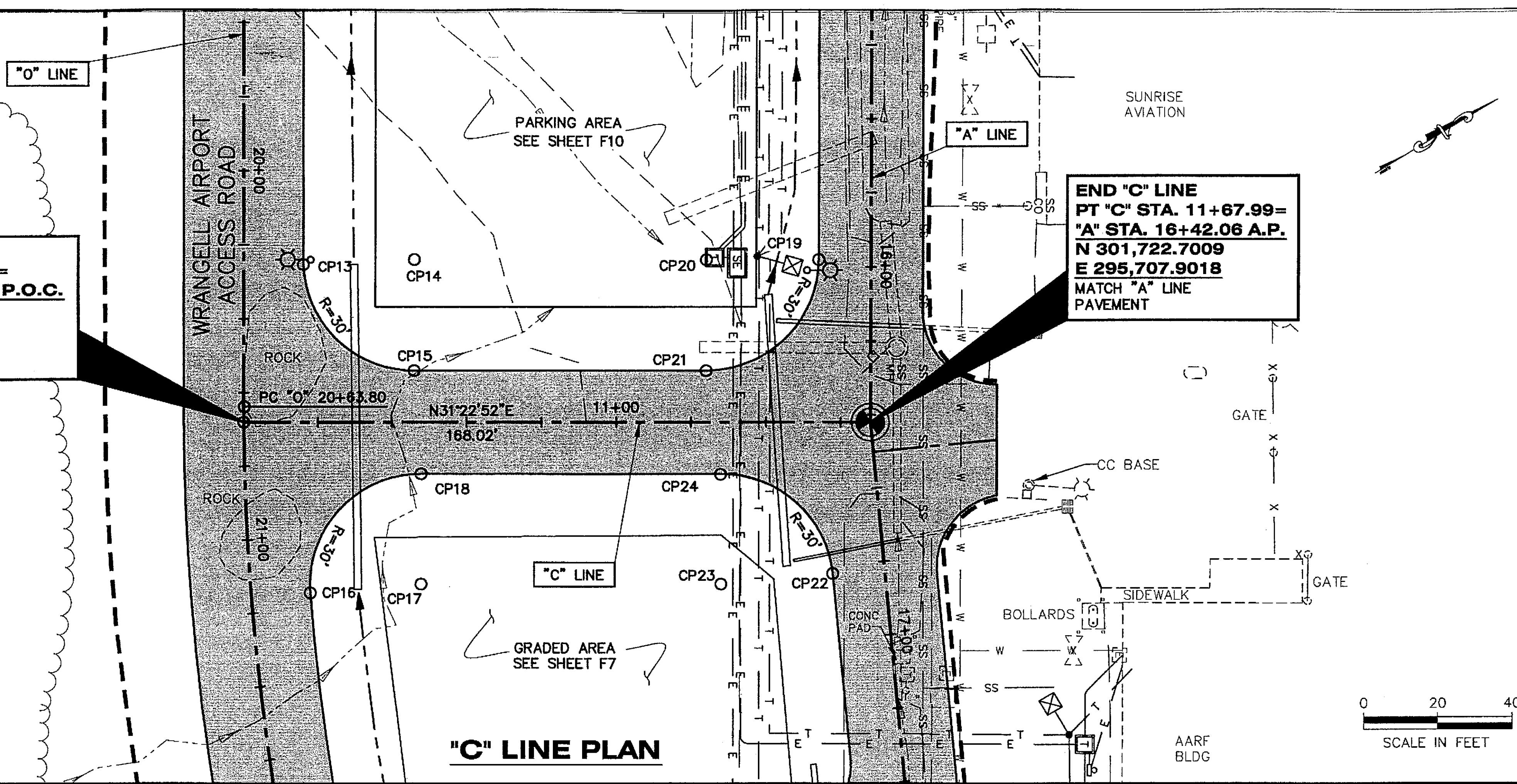
PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

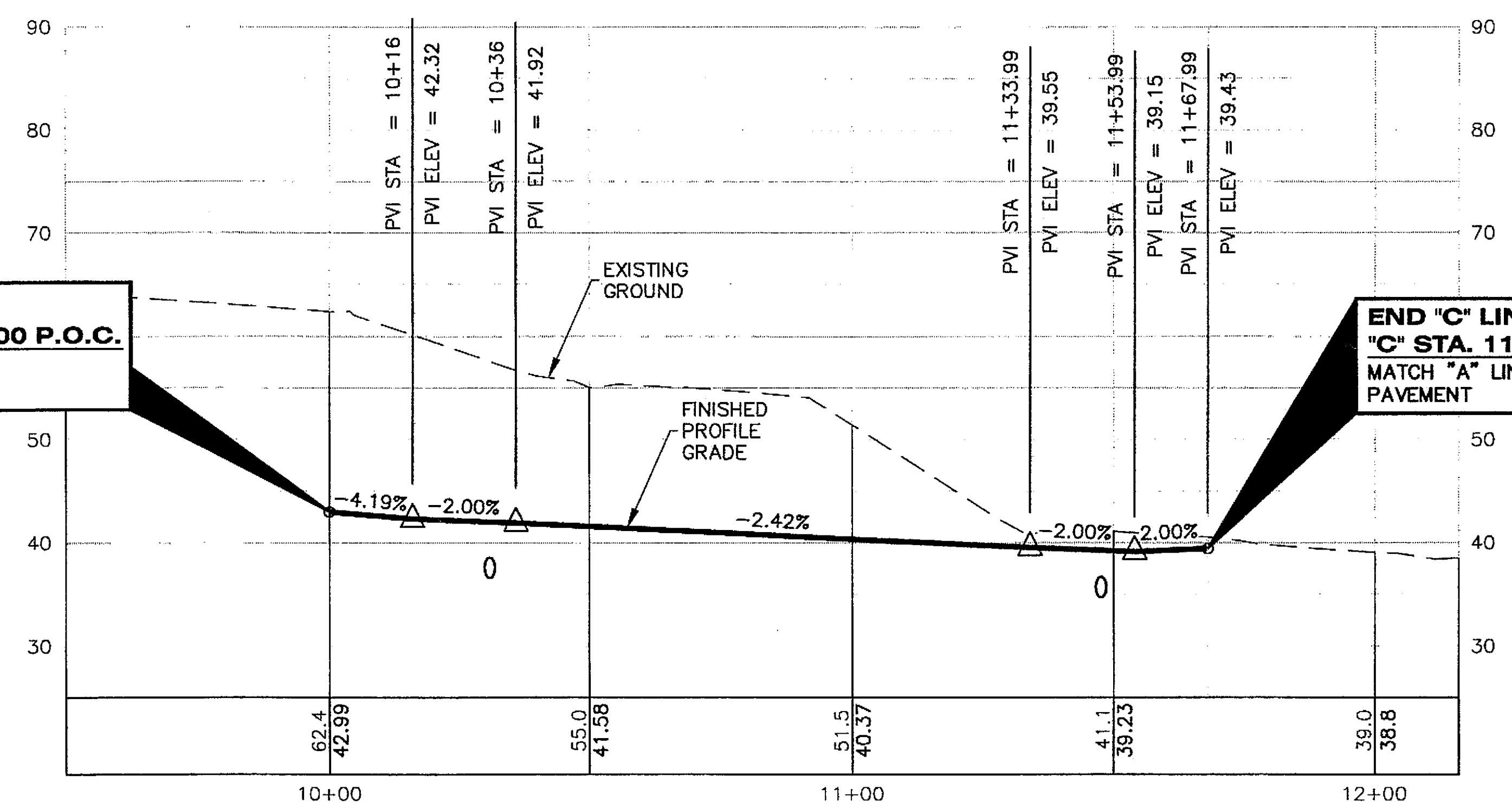
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F9	43

**BEGIN PAVING
"C" STA. 10+00.00=
"O" STA. 20+68.00 P.O.C.
N 301,579.2868
E 295,620.4265
MATCH "O" LINE
PAVEMENT**

PT NO	STATION	OFFSET	DESCRIPTION
CP13	"O"20+24.00	16' LT	PC
CP14	"O"20+24.00	46' LT	PI R=30'
CP15	"O"20+54.00	46' LT	PT
CP16	"O"21+15.64	16' LT	PC
CP17	"O"21+15.64	46' LT	PI R=30'
CP18	"O"20+83.41	47.6' LT	PT
CP19	"A"15+98.06	14' RT	PC
CP20	"A"15+98.06	44' RT	PI R=30'
CP21	"A"16+28.06	44' RT	PT
CP22	"A"16+82.02	14' RT	PC
CP23	"A"16+82.02	44' RT	PI R=30'
CP24	"A"15+52.15	41.1' RT	PT

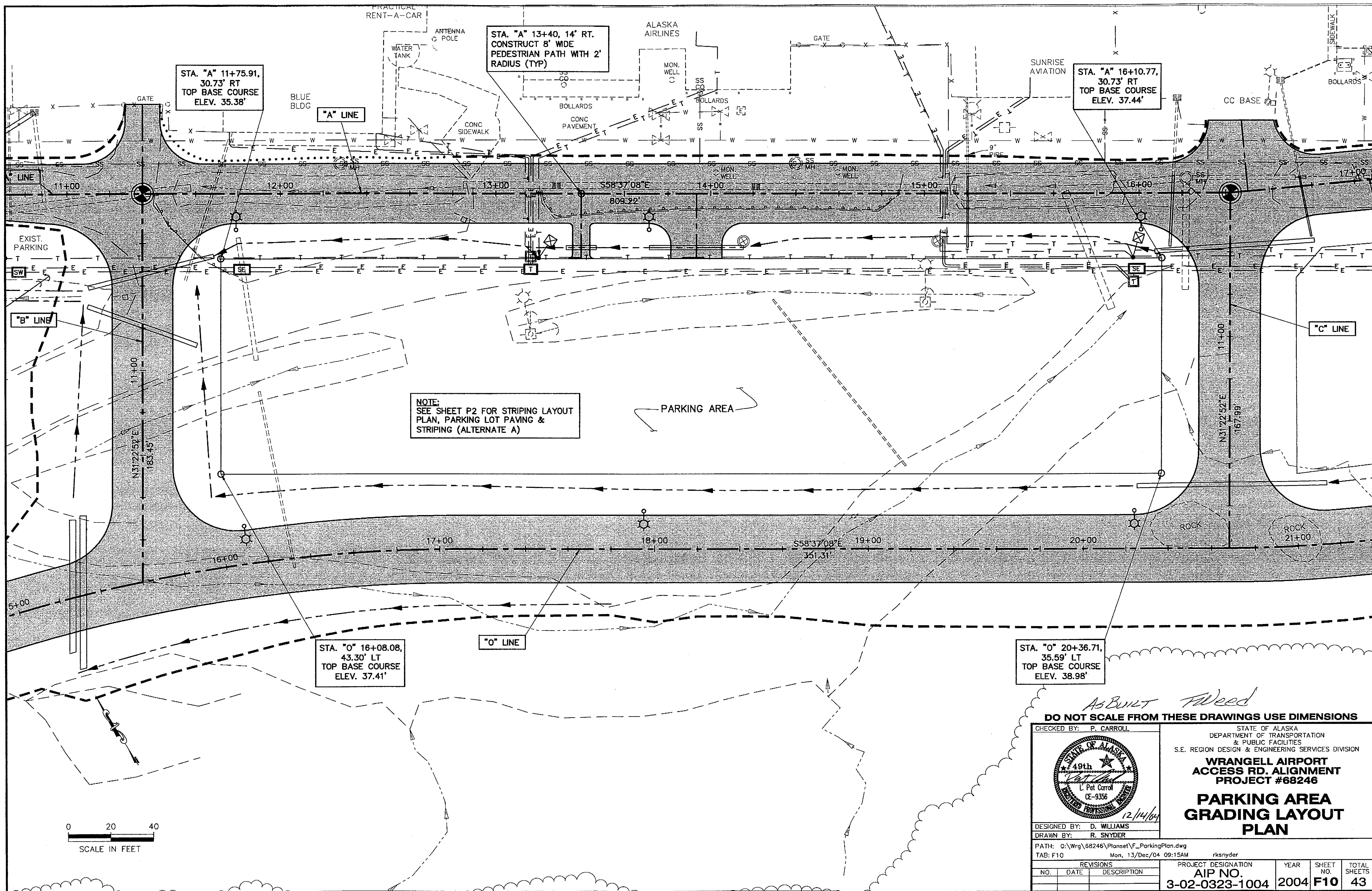


"C" LINE PLAN



"C" LINE PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



AS BUILT *Wend*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL

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

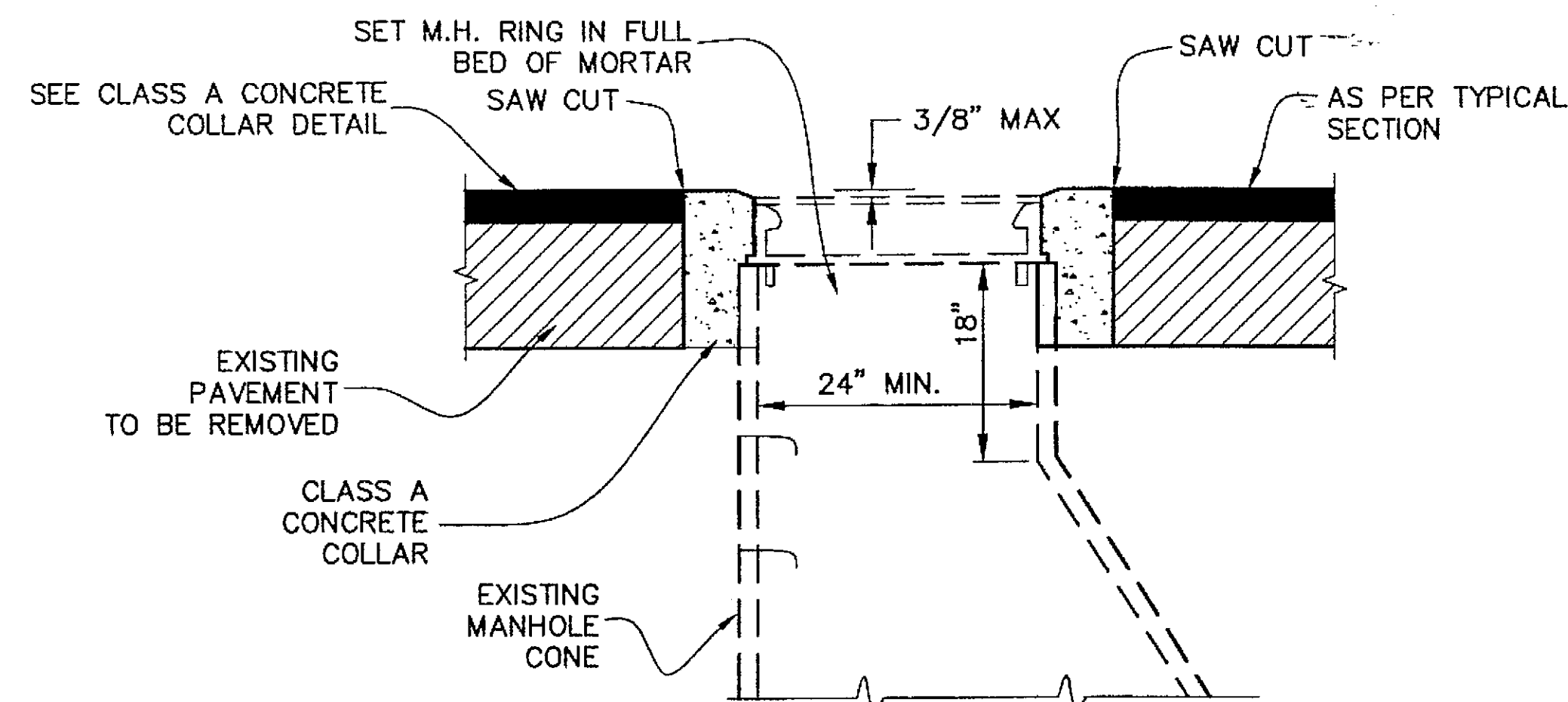
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

**PARKING AREA
GRADING LAYOUT
PLAN**

DESIGNED BY: D. WILLIAMS
DRAWN BY: R. SNYDER
PATH: O:\Wrg\68246\Planset\F_ParkingPlan.dwg
TAB: F10 Mon, 13/Dec/04 09:15AM rksnyder

12/14/04

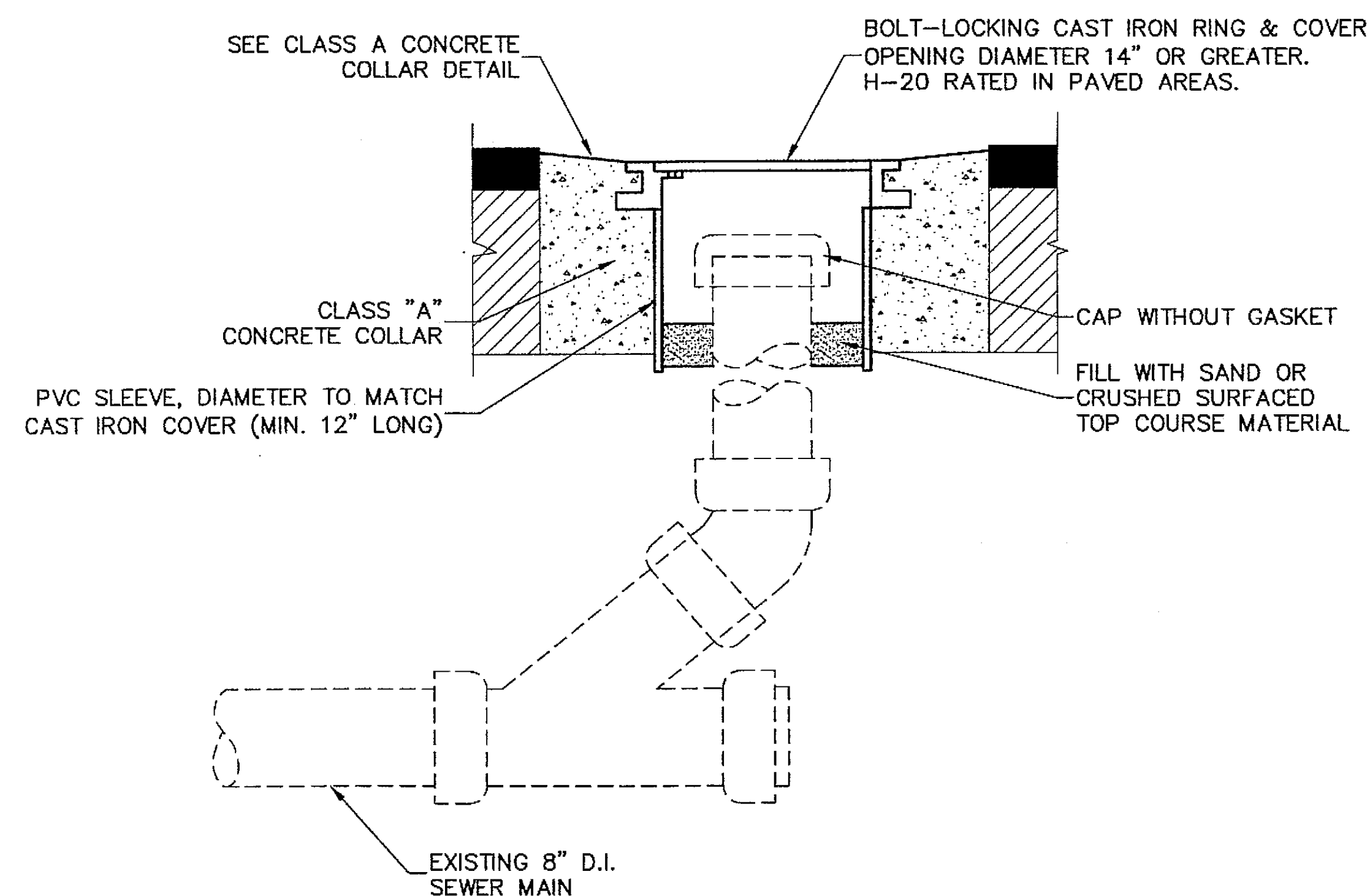
REVISIONS			PROJECT DESIGNATION AIP NO.	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			3-02-0323-1004	2004	F10	43



MANHOLE ADJUSTMENT DETAIL

N.T.S.

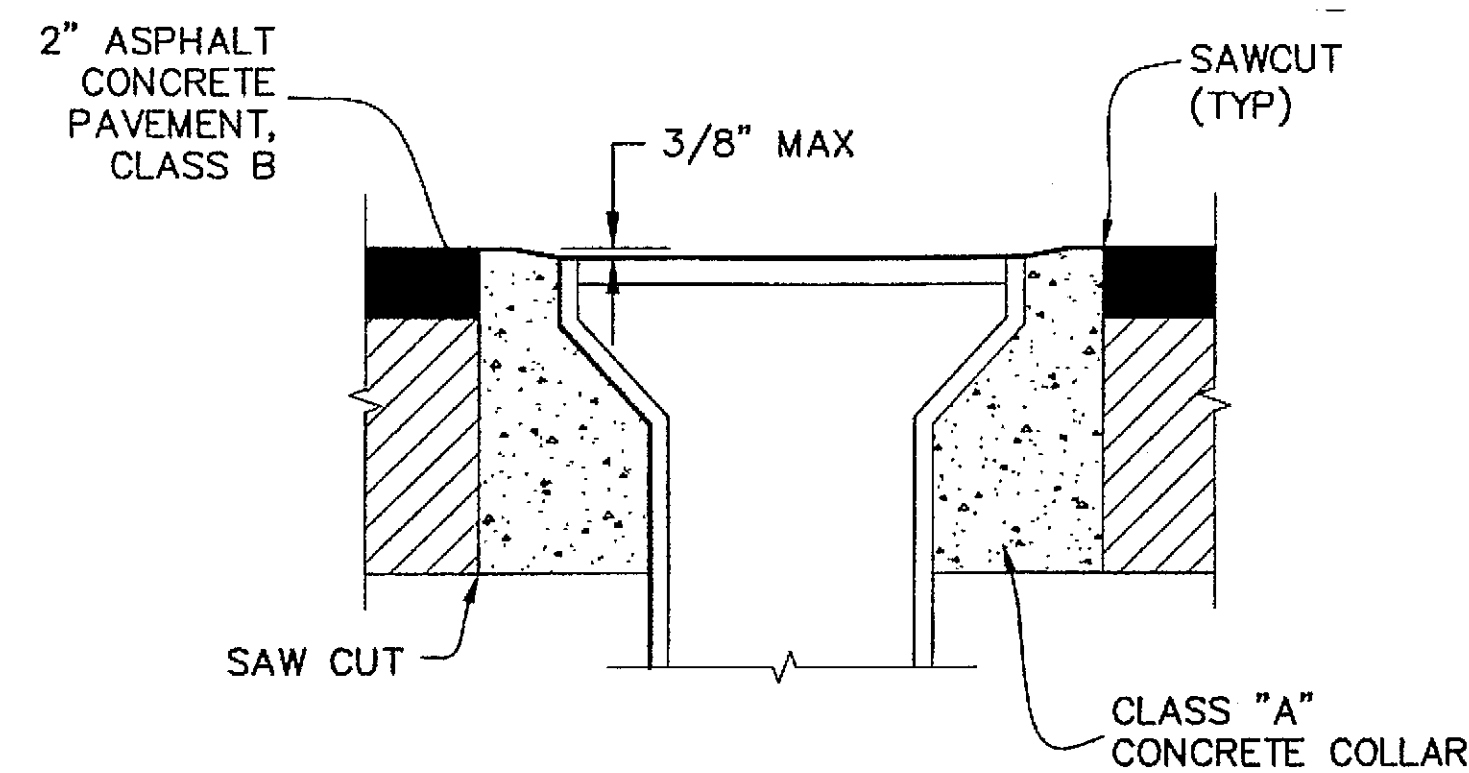
- NOTES:**
1. ALL ADJUSTMENTS SHALL BE MADE BELOW THE FRAME ON THE MANHOLE CONE.
 2. THE CONTRACTOR SHALL HAVE THE OPTION TO USE BRICKS OR ADJUSTMENT RINGS TO ADJUST THE EXISTING MANHOLES.



SEWER CLEANOUT ADJUSTMENT DETAIL

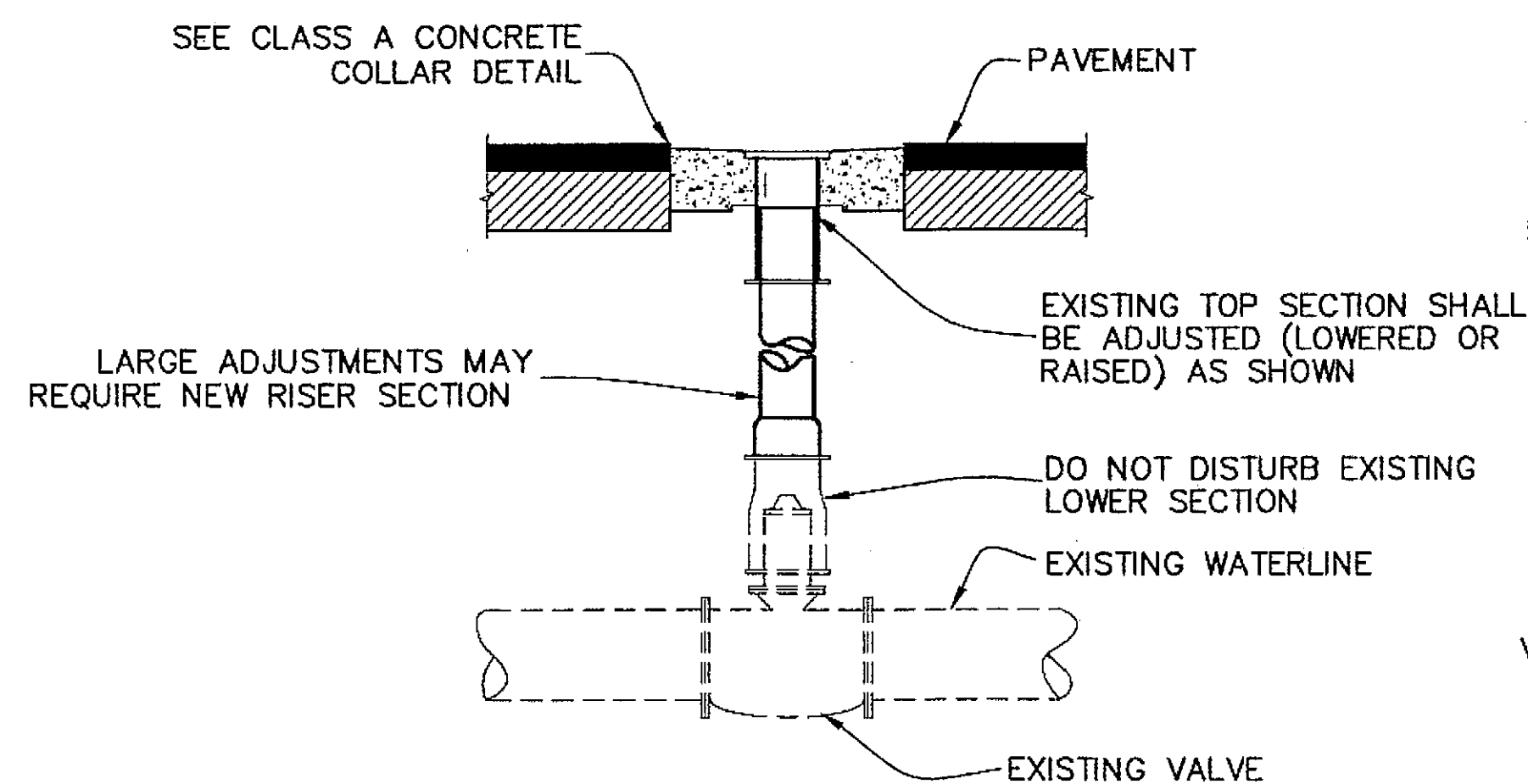
STA. "A" 18+66
N.T.S.

- NOTES:**
1. CAST IRON COVER SHALL READ "SEWER".
 2. LOCKING BOLTS FOR COVER SHALL BE 5/8" - 11 NC STAINLESS STEEL TYPE 304 SOCKET (ALLEN) HEAD BOLTS, 2 INCHES LONG.
 3. 14" BOLT-LOCKING CAST IRON COVER SHALL BE EQUAL TO INLAND FOUNDRY NO. 209.



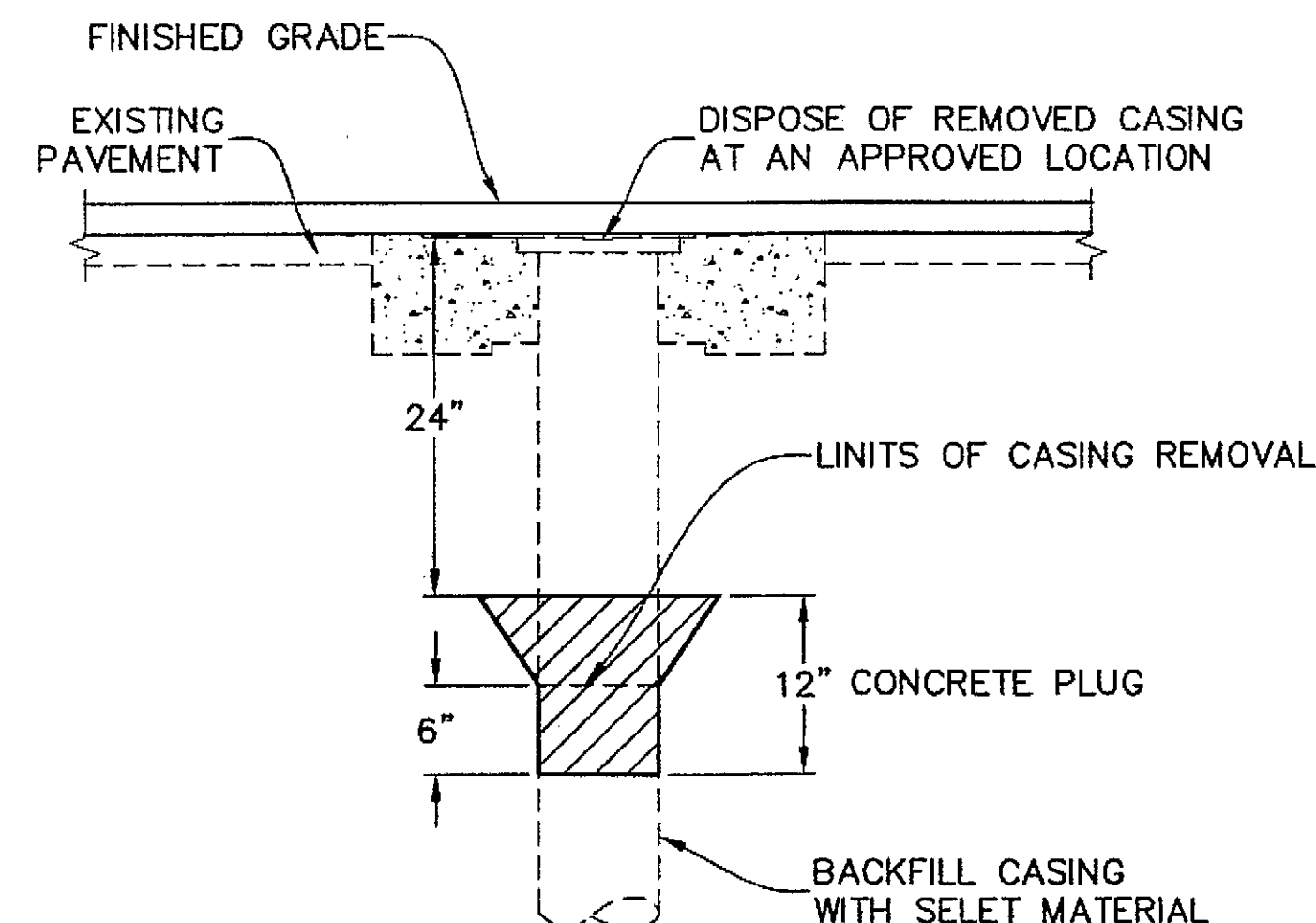
VALVE BOX ADJUSTMENT FLUSH

N.T.S.



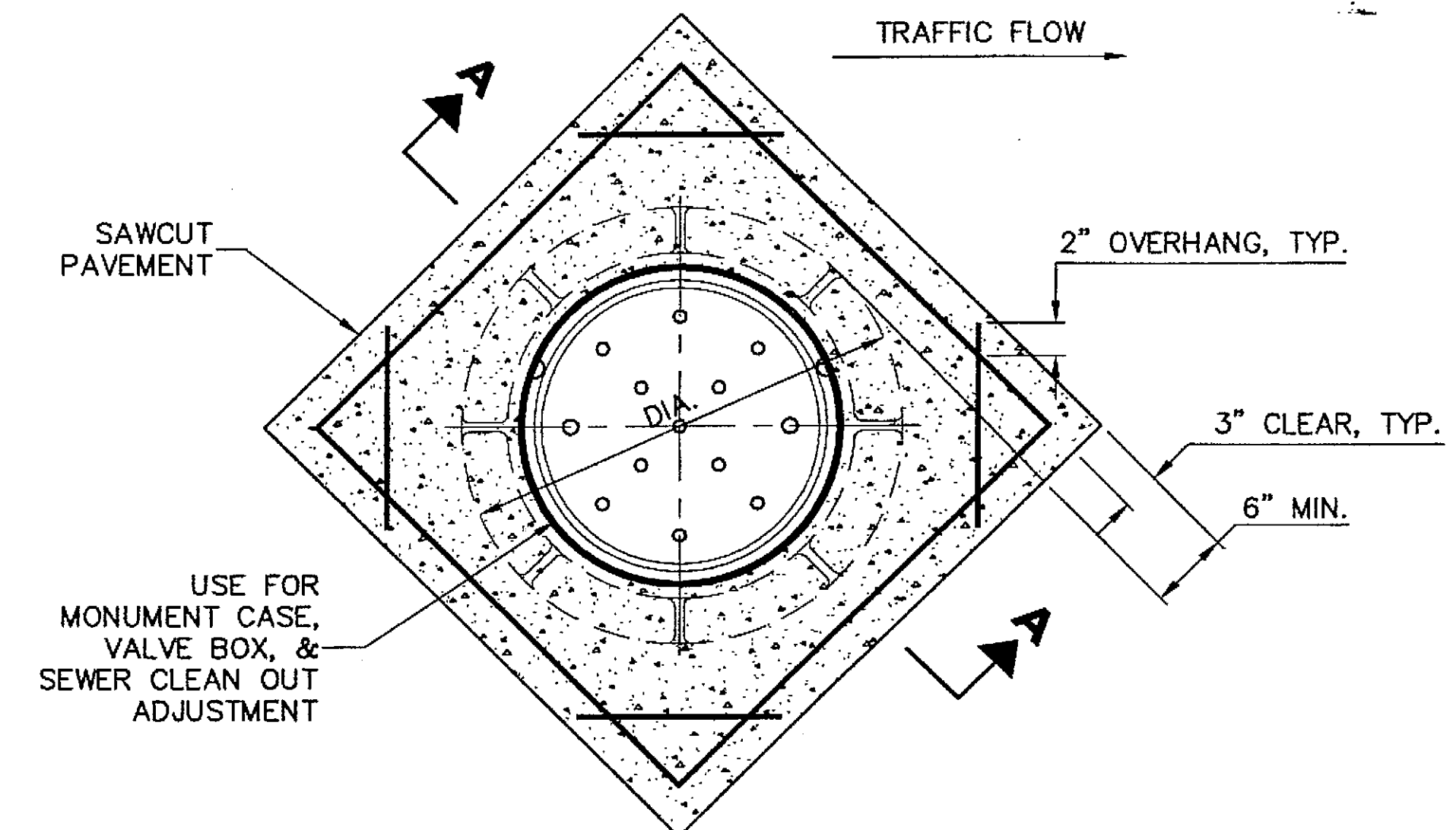
VALVE BOX ADJUSTMENT DETAIL

N.T.S.

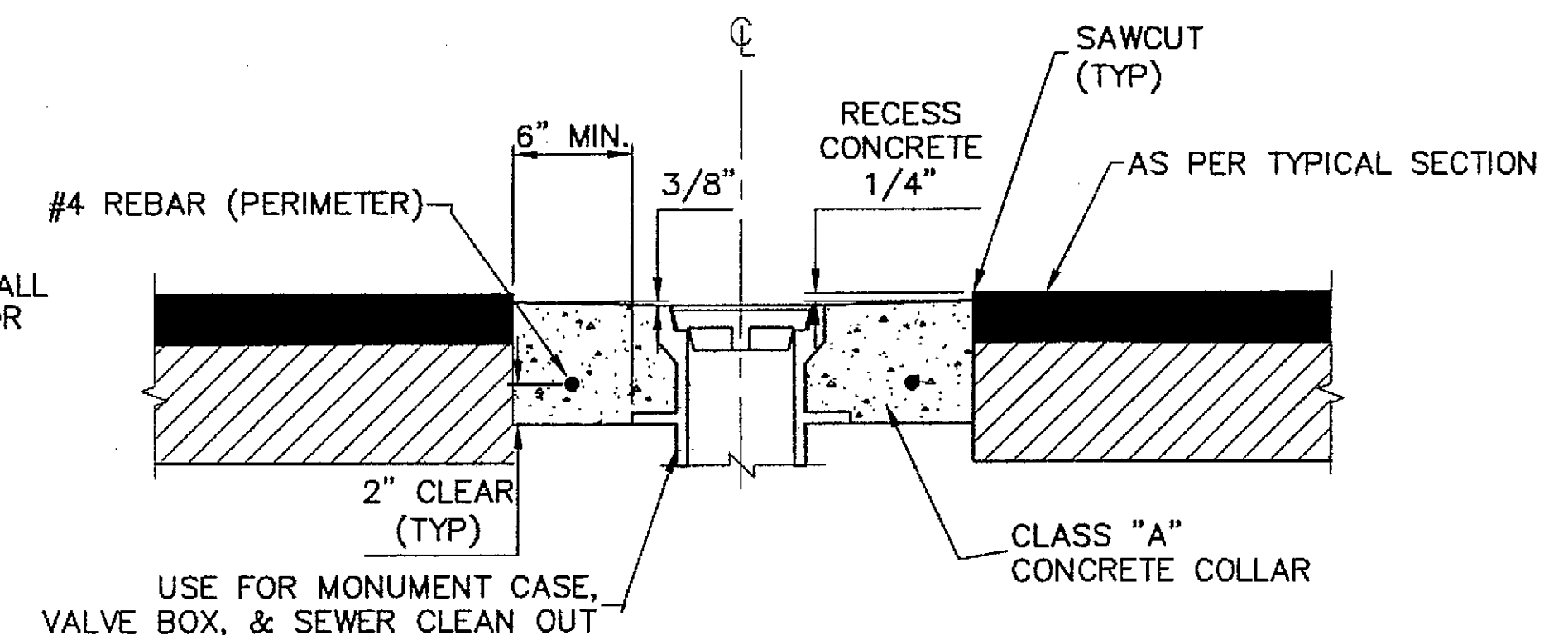


MONITOR WELL REMOVAL DETAIL

N.T.S.



PLAN

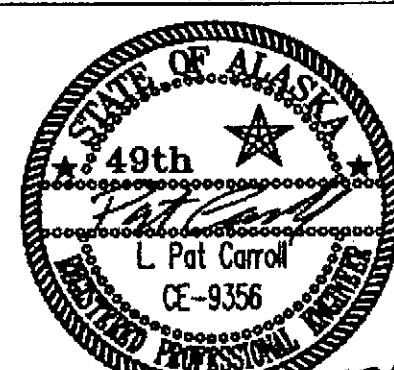


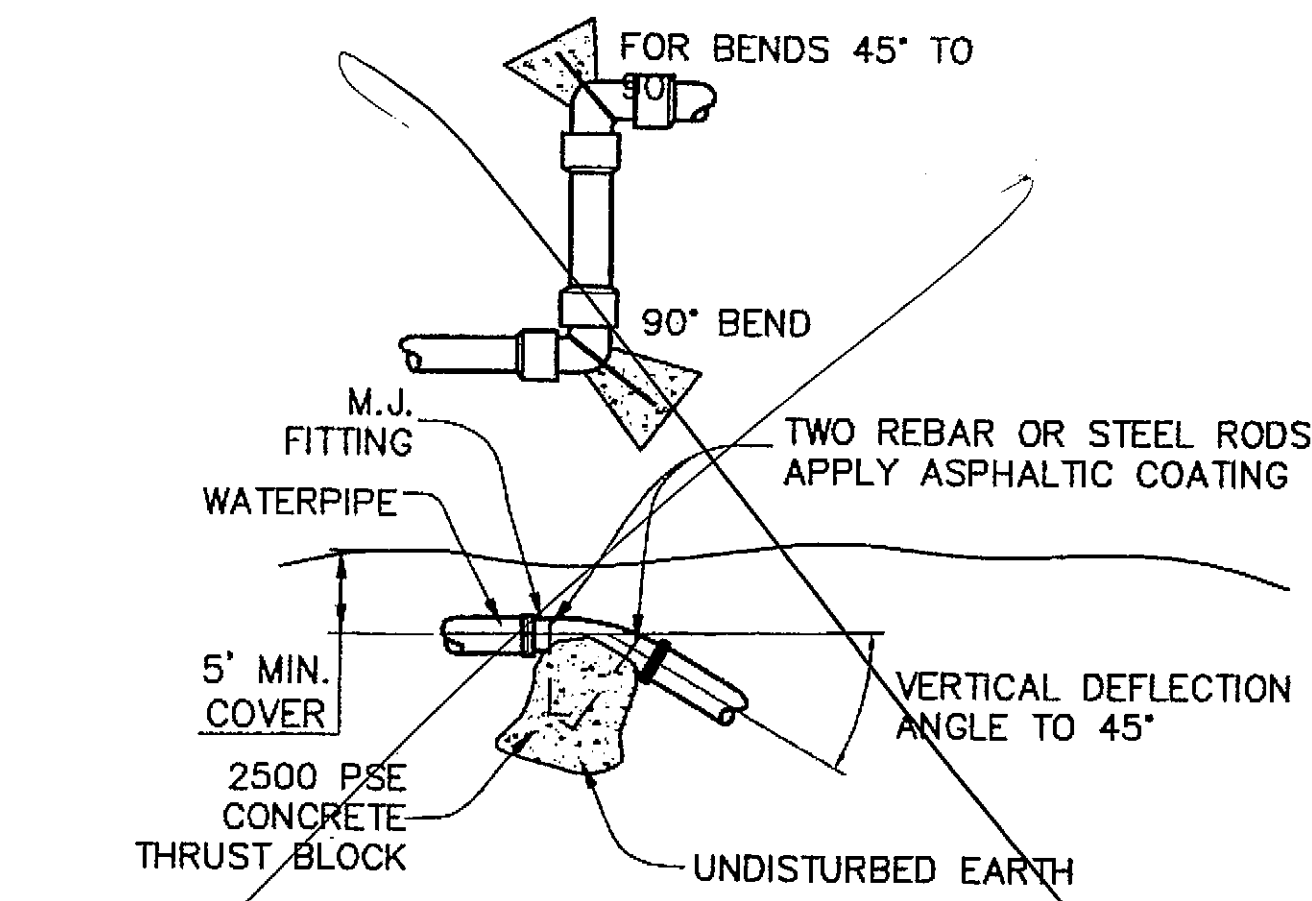
SECTION A-A

CLASS A CONCRETE COLLAR ENCASEMENT DETAIL

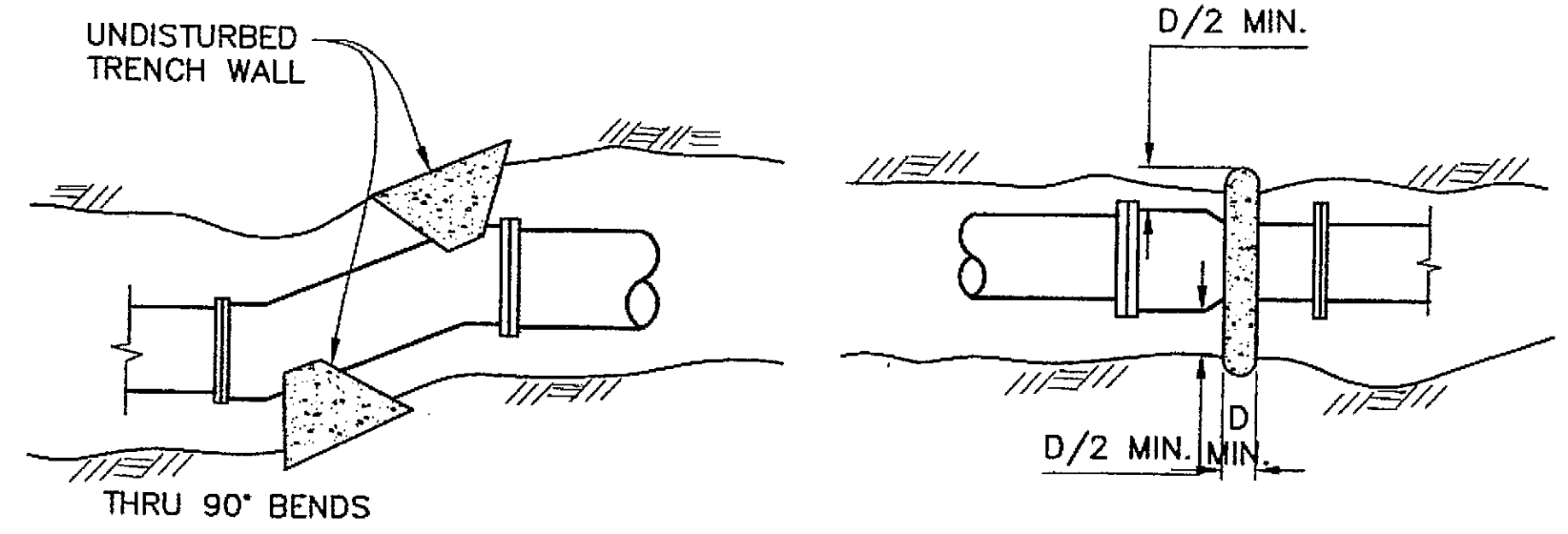
REFER TO PLAN SHEETS / SUMMARY TABLES
FOR APPROXIMATE LOCATIONS

AS BUILT *Fixed*
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

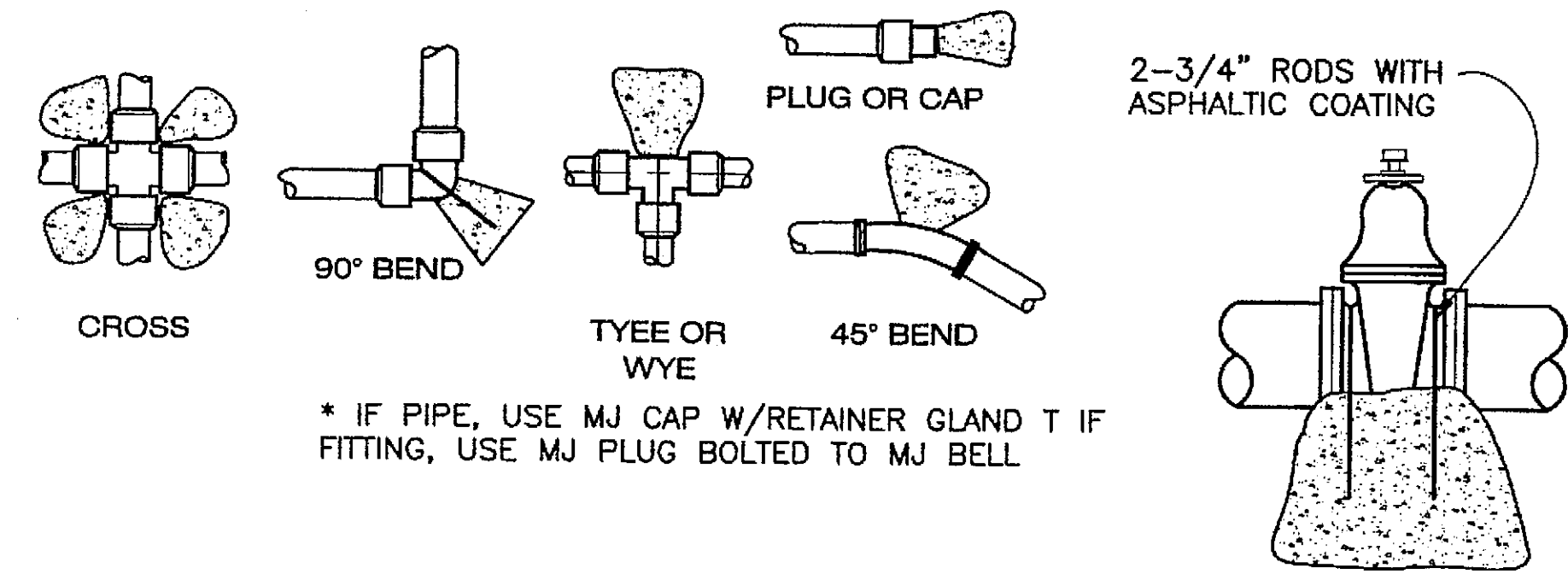
CHECKED BY: P. CARROLL  DESIGNED BY: D. WILLIAMS DRAWN BY: R. SNYDER PATH: Q:\Wrg\68246\Planset\J_Details.dwg TAB: J1 Mon, 13/Dec/04 09:15AM rksnyder		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246	
MISCELLANEOUS DETAILS		PROJECT DESIGNATION AIP NO. 3-02-0323-1004	
NO.	DATE	DESCRIPTION	YEAR
			2004
SHEET NO. J1		TOTAL SHEETS 43	



VERTICAL THRUST BLOCKS
N.T.S.



PLACEMENT OF THRUST BLOCKS
N.T.S.



HORIZONTAL THRUST BLOCKS
N.T.S.

PIPE SIZE	MIN. CONC. VOL. (CU. FEET)	MIN. ROD SIZE	MIN. BRG. SURFACE SQ. FEET
6"	27	7/8"	3.0
8"	41	7/8"	3.5
10"	67	7/8"	5.5
12"	95	7/8"	8.0
14"	127	1"	9.5
16"	168	1 1/8"	12.5
18"	212	1 1/4"	15.0
20"	258	1 3/16"	19.0
24"	371	1 1/2"	28.0

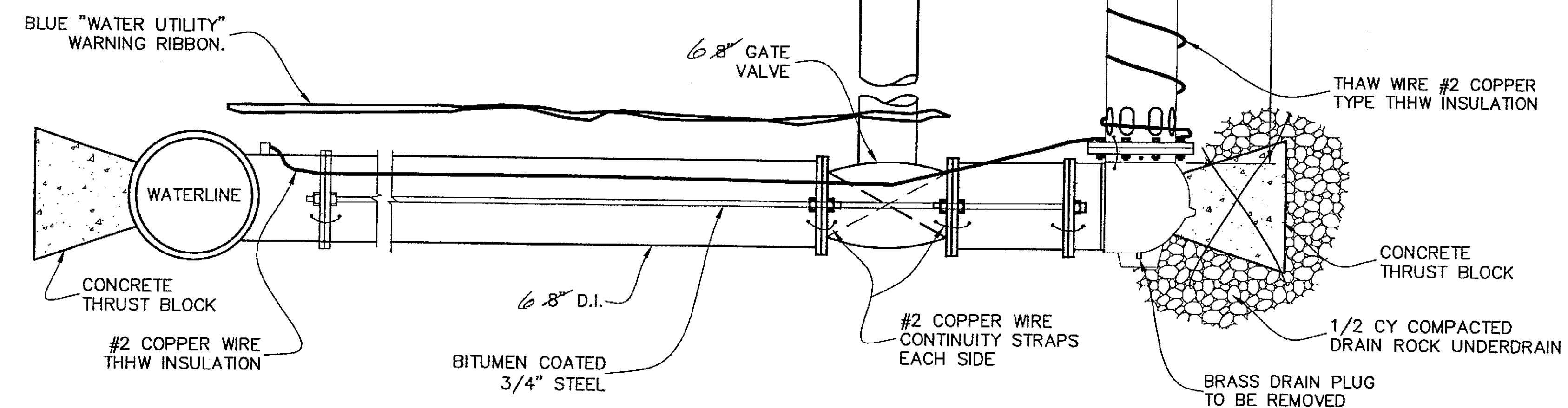
AS PER WRANGELL WATER DEPT. MEGA-LUGS WERE ORDERED & USED. NO THRUST BLOCKS - APPROVED BY DOT-DESIGN.
Tom Weed, P.E.
WATER PUBLIC UTILITIES
Bob Caldwell

90° BEND/TEE/PLUG			45° BEND OR LESS/CROSS		VALVES
PIPE SIZE	MIN. BRG. AREA SQ. FEET	MIN. CONC. CU. FEET	MIN. BRG. AREA SQ. FEET	MIN. CONC. CU. FEET	MIN. CONC. CU. FEET
4"	2.0	10.0	1.0	6.5	N/A
6"	3.0	10.0	1.5	6.5	6.5
8"	5.5	13.5	3.0	8.0	13.5
10"	8.0	20.0	4.5	10.0	13.5
12"	12.0	27.0	6.5	20.0	13.5
14"	16.0	27.0	9.0	20.0	20.0
16"	12.5	33.5	12.0	27.0	20.0
18"	27.0	41.0	15.0	27.0	27.0
20"	34.0	47.0	18.0	41.0	27.0
24"	48.0	53.0	26.0	41.0	27.0

* THRUST BLOCKS ON VALVES REQUIRED ONLY ON MAIN LINES.

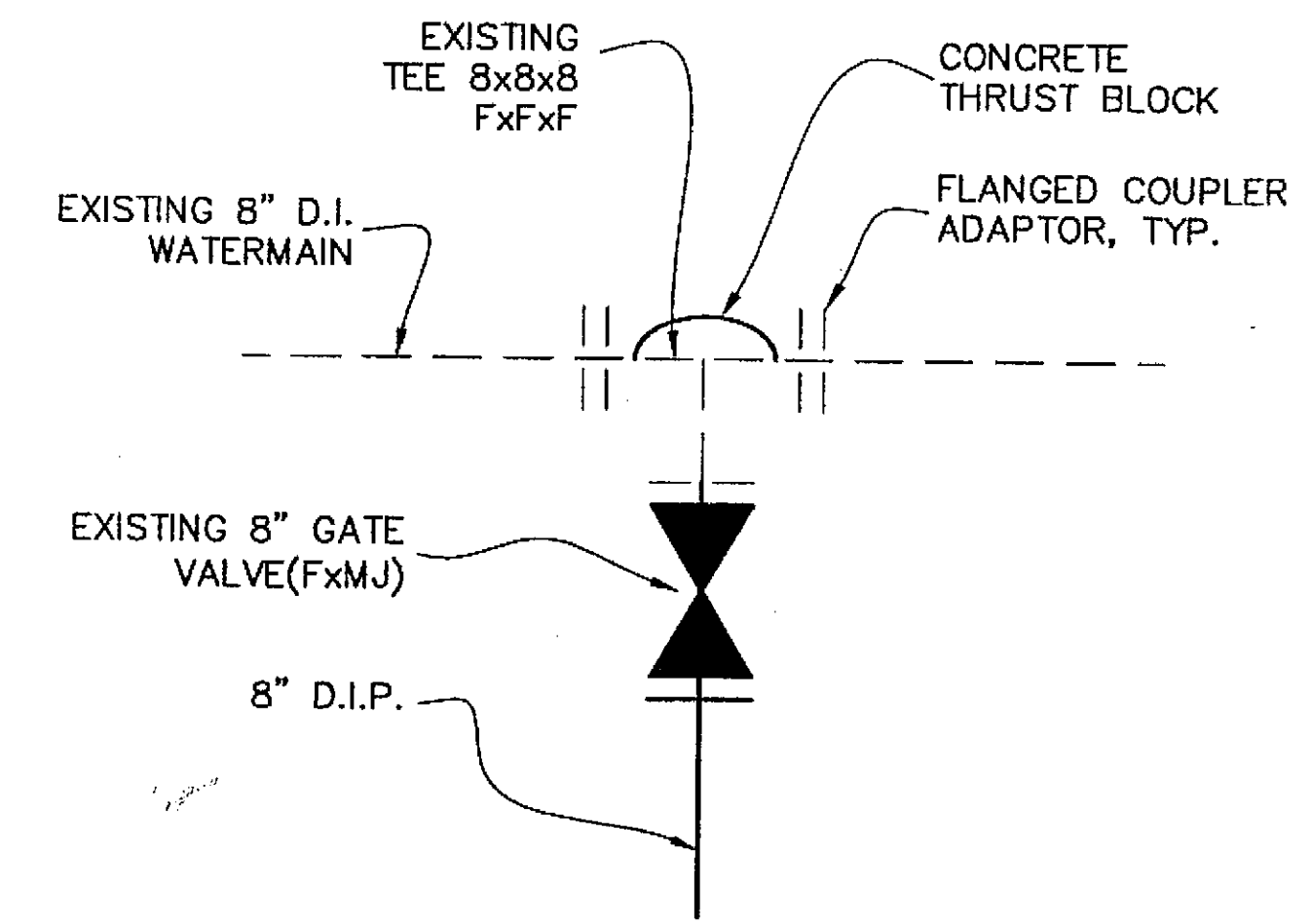
NOTES

- THRUST BLOCKS ARE REQUIRED WHENEVER PIPELINE CHANGES DIRECTION, CHANGES SIZE, DEAD ENDS, OR DEVELOPS THRUST AT VALVES.
- VOLUME AND BEARING SURFACE OF 2500 PSI CONCR. THRUST BLOCKS, BASED ON 150 PSI PRESSURE AND SOIL BEARING CAPACITY OF 2000 PSF. ALL OTHER PRESSURE AND/OR SOIL CONDITIONS ARE SUBJECT TO ENGINEER'S REVIEW AND APPROVAL.
- CONCRETE THRUST BLOCKING SHALL BE POURED IN PLACE BETWEEN THE FITTING AND UNDISTURBED EARTH. MATERIAL BEHIND THE THRUST BLOCKS, DEEMED INADEQUATE BY THE ENGINEER, SHALL BE REMOVED AND REPLACED BY A BALLAST MATERIAL. THE EXTENT AND QUANTITY OF REPLACEMENT MATERIAL TO BE DETERMINED BY THE ENGINEER.
- THRUST BLOCKS SHALL BE POURED SO JOINTS OF FITTINGS REMAIN CLEAR.



FIRE HYDRANT
N.T.S.

- FIRE HYDRANT NOTES:**
- WHERE THE STORM DRAIN CROSSES OVER WATER OR SANITARY SEWER LINES THE LOWER LINE SHALL BE INSULATED 4 FEET IN EACH DIRECTION FROM THE CROSSING.
 - FOAM INSULATION NOT SHOWN FOR CLARITY.
 - SEE SHEET J3 FOR HYDRANT INSTALLATION DETAILS.



WATER CONNECTION
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL

DESIGNED BY: D. WILLIAMS
DRAWN BY: R. SNYDER

PATH: G:\Wrg\68246\PlanSet\J_Details.dwg
TAB: J2 Mon, 13/Dec/04 09:15AM rksnyder

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246

MISCELLANEOUS DETAILS

PROJECT DESIGNATION: AIP NO. 3-02-0323-1004
YEAR: 2004
SHEET NO.: J2
TOTAL SHEETS: 43

WRANGELL AIRPORT ROAD

TRAFFIC FLOW

EDGE OF PAVEMENT

TYPICAL
5' DITCH

24" HDPE PIPE

5' MIN.

0.25:1

PLAN

EXISTING
GROUND

TYPICAL
DITCH BACKSLOPE

BACKSLOPE IN
HYDRANT POCKET

TOP OF PAVEMENT
WRANGELL AIRPORT
ROAD

HINGE POINT

2%

2" ASPHALT
CONCRETE PAVEMENT

24" HDPE PIPE

5' MIN.

NOTE:
WHERE IDENTIFIED ON CONTRACT DRAWINGS OR DIRECTED BY ENGINEER,
INSTALL HDPE PIPE CENTERED OVER HYDRANT LEG. ACCESS PAD TO BE MIN.
5' WIDE WITH NOMINAL 2:1 SIDE SLOPES. BACKFILL ACCESS PAD WITH
D-1 BASE MATERIAL. COMPACT TO 95% MAX. DENSITY. SEED SIDE
SLOPES OF ACCESS PAD IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

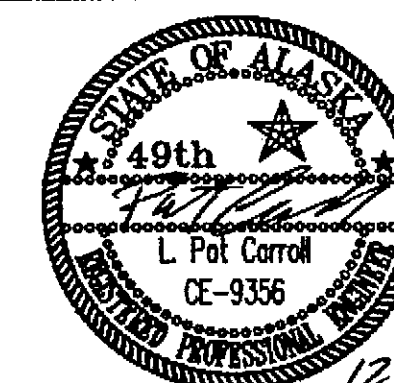
ELEVATION

FIRE HYDRANT INSTALLATION

STA. "O" 29+80

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

PATH: Q:\Wrg\68246\Planset\J_Details.dwg

TAB: J3 Mon, 13/Dec/04 09:15AM

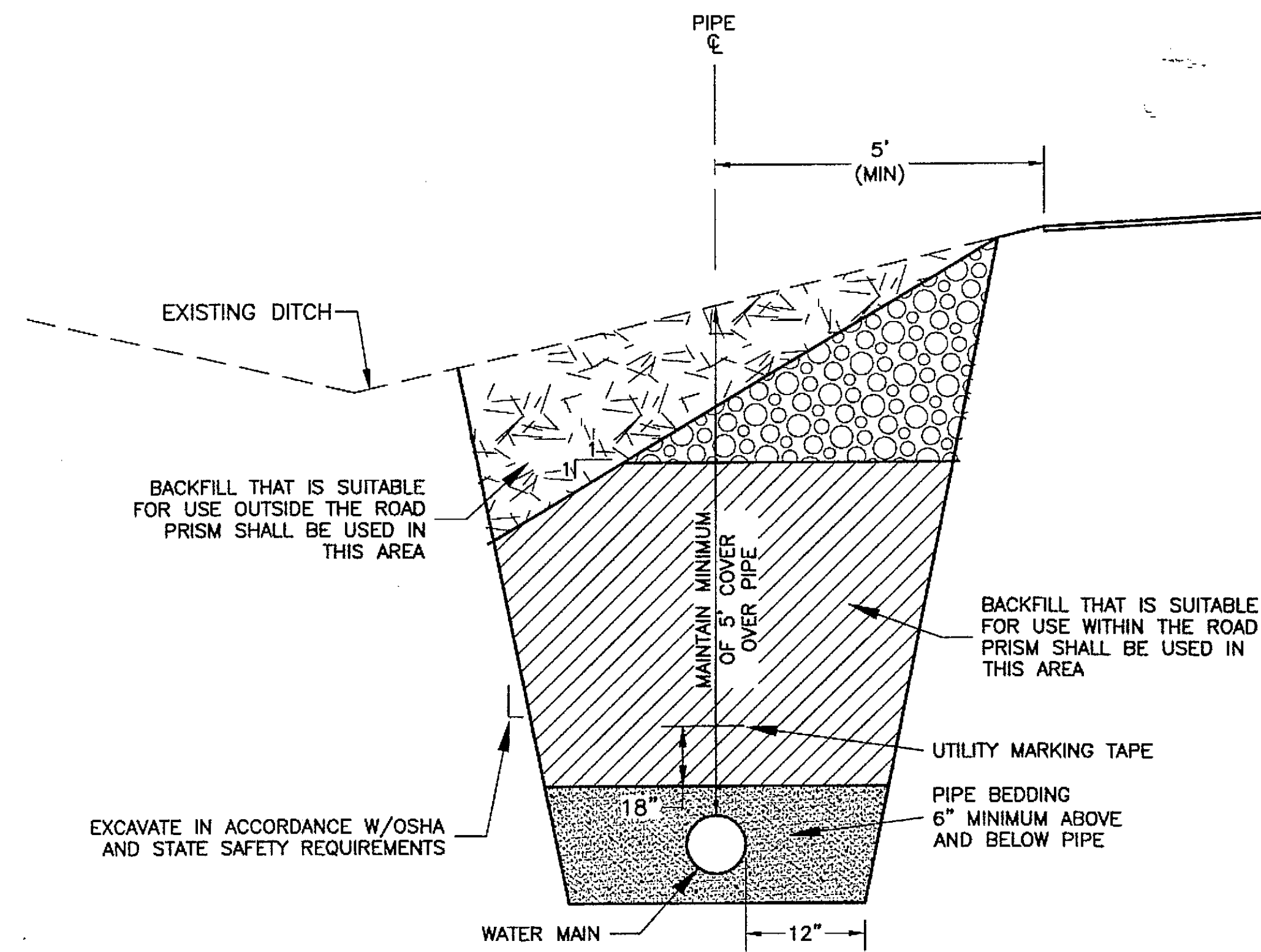
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246

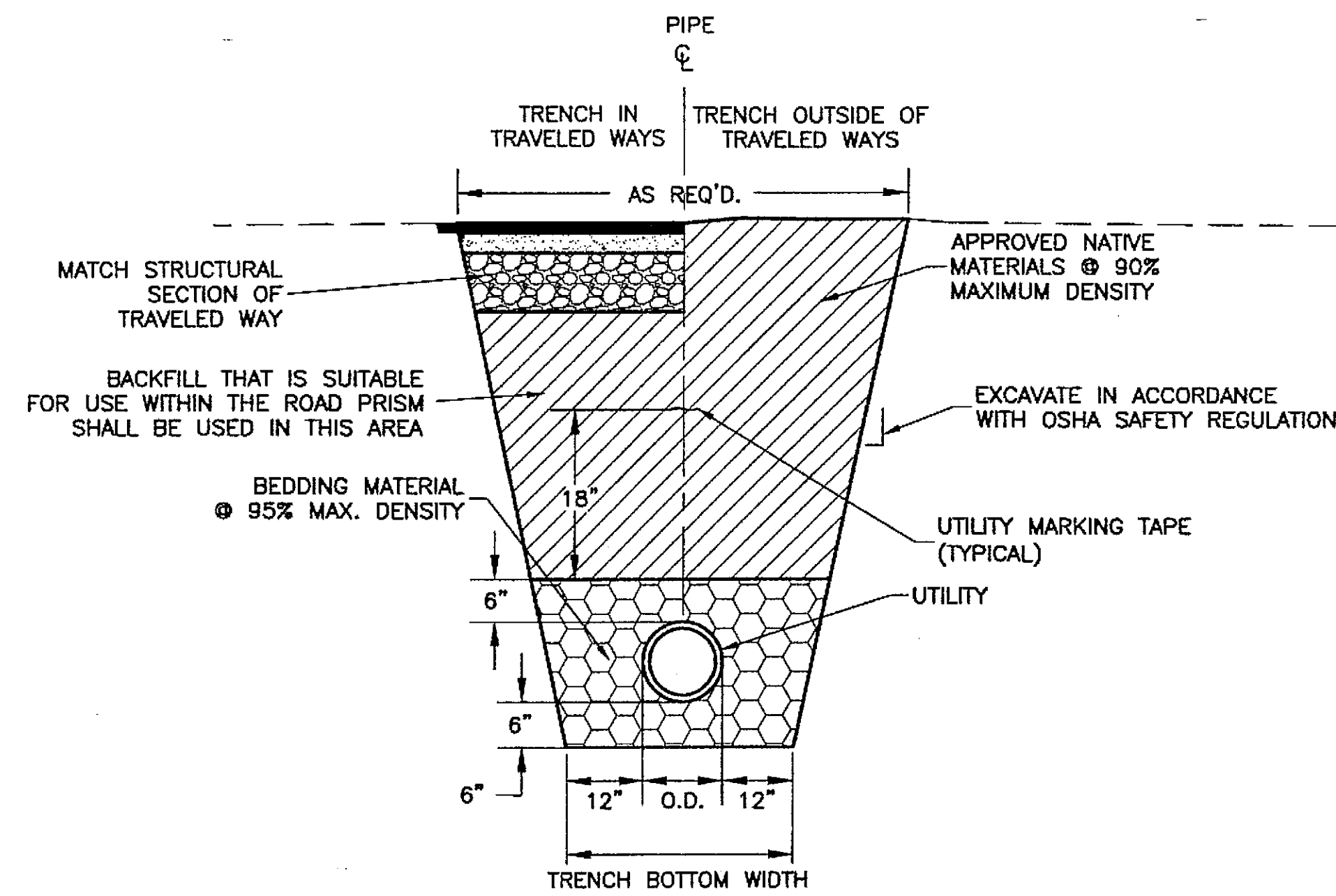
MISCELLANEOUS
DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

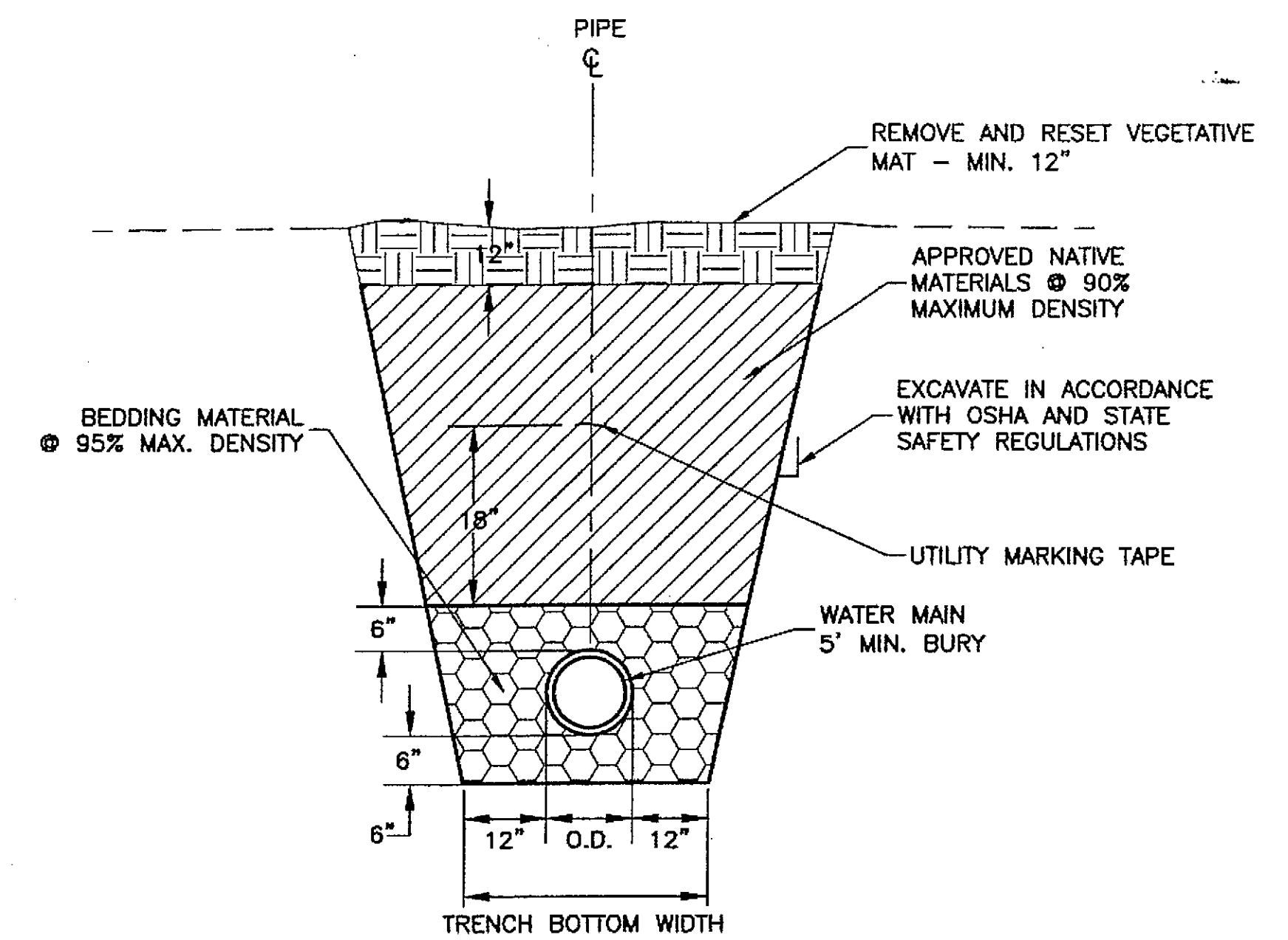
PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
AIP NO.		2004	J3	43
3-02-0323-1004				



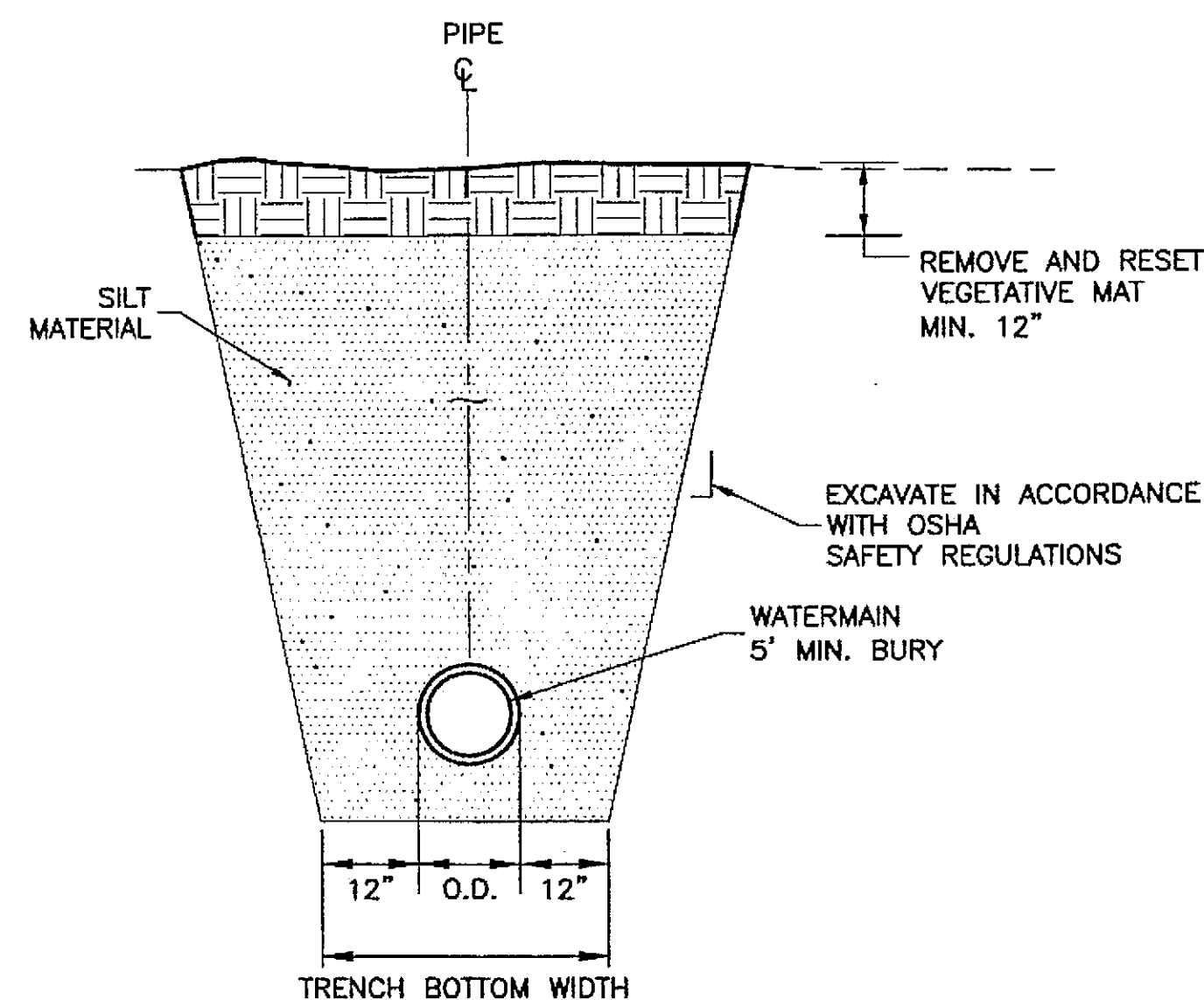
TRENCH SECTION ALONG HIGHWAY
N.T.S.



TYPICAL TRENCH DETAIL
N.T.S.



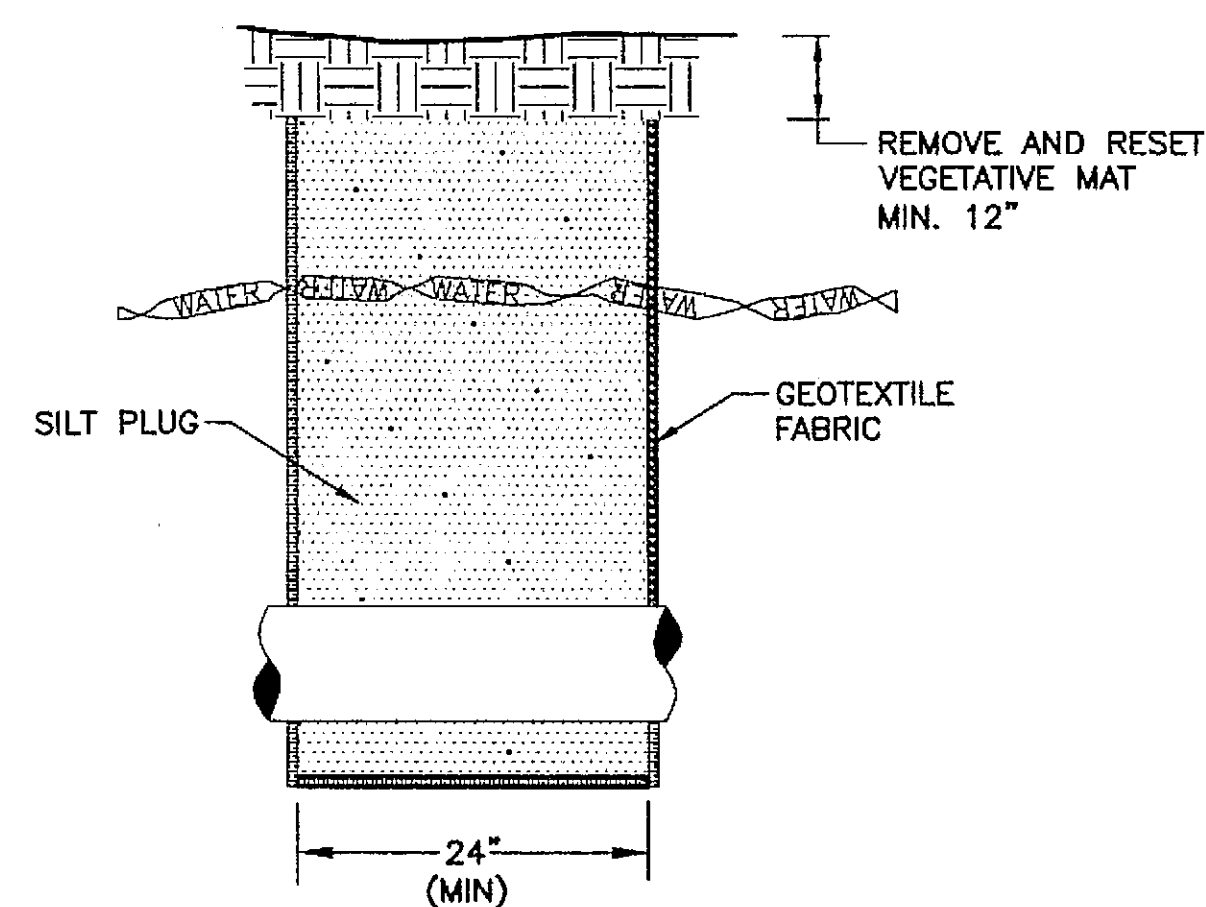
MUSKEG WETLAND TRENCH
N.T.S.



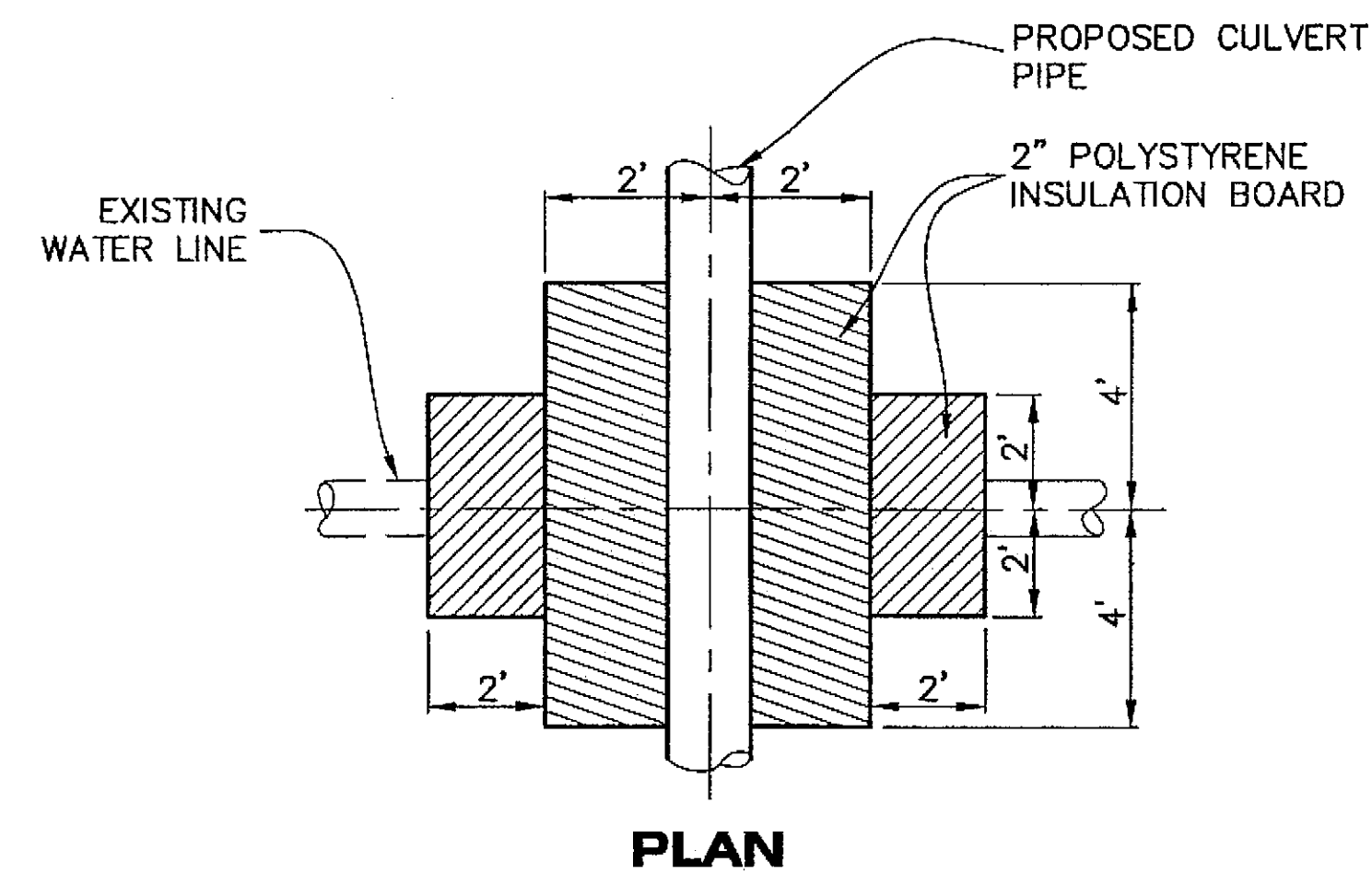
SECTION

SILT PLUG
N.T.S.

NOTE:
SILT PLUG TO BE PLACED NEAR
DOWN HILLSIDE END OF WETLANDS
AREA

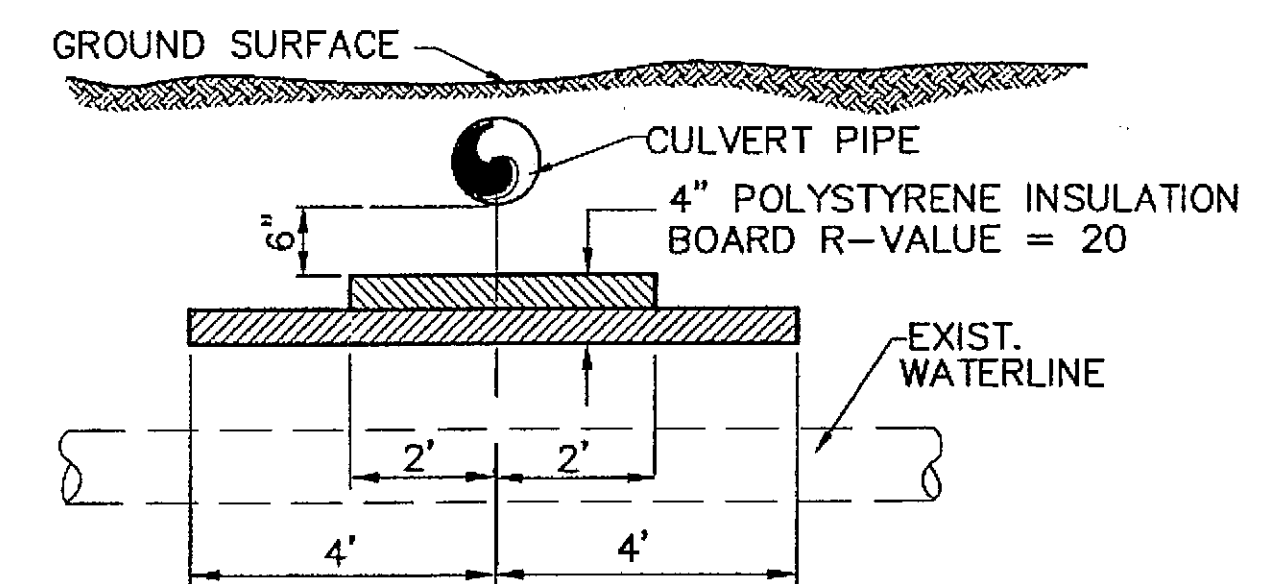


SIDE VIEW



PLAN

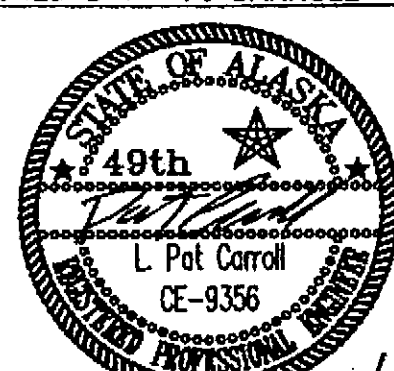
RIGID INSULATION
N.T.S.



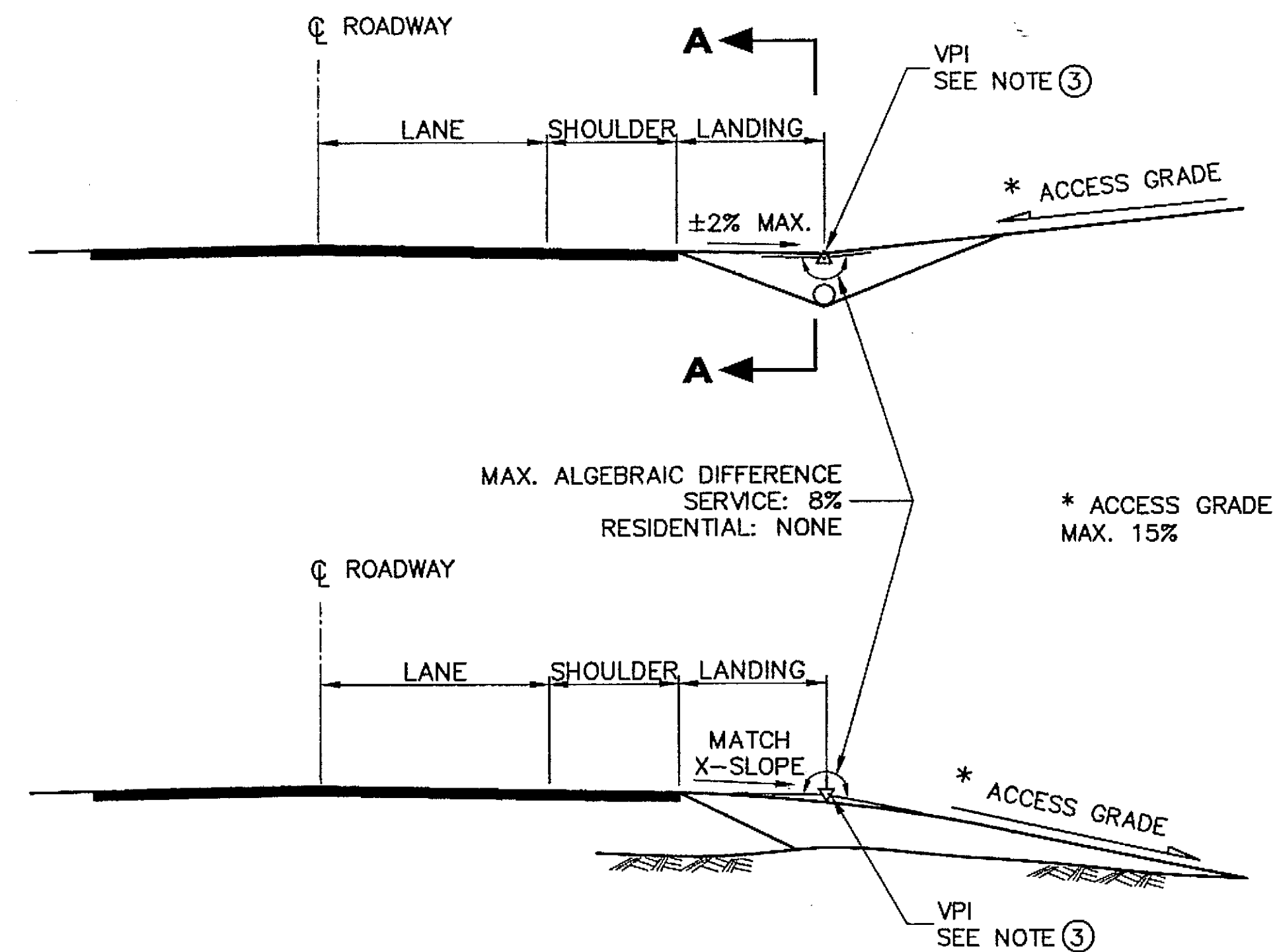
SECTION

- NOTES:**
1. INSTALL INSULATION AS SHOWN.
 2. WRAP AROUND INSULATION WITH R-VALUE EQUAL TO 20 MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.

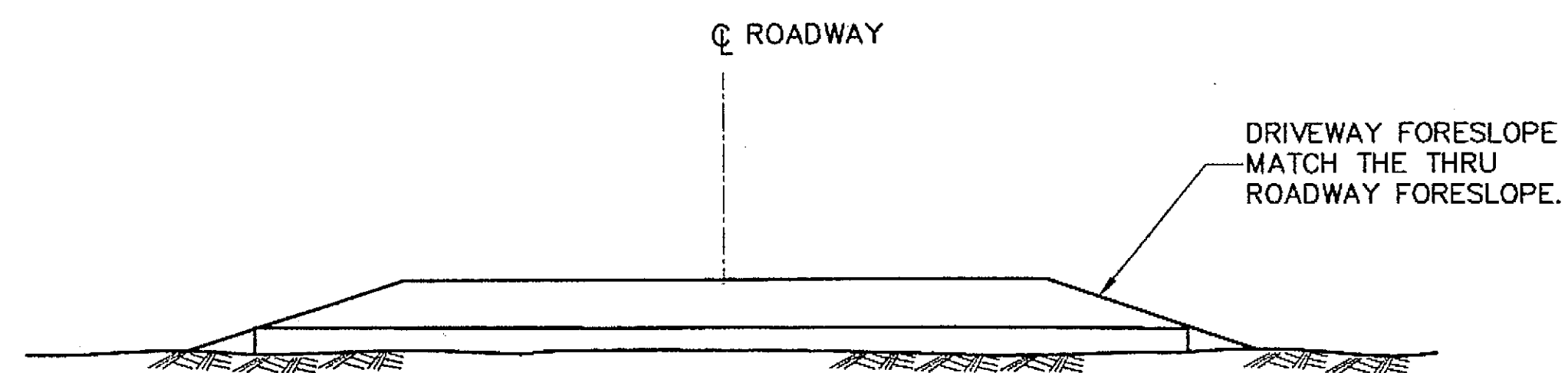
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL  DESIGNED BY: D. WILLIAMS DRAWN BY: R. SNYDER PATH: Q:\Wrg\68246\PlanSet\J_Details.dwg TAB: J4 Mon, 13/Dec/04 09:16AM rkanyder		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246	
MISCELLANEOUS DETAILS		PROJECT DESIGNATION AIP NO. 3-02-0323-1004	
NO.	DATE	REVISIONS DESCRIPTION	YEAR
			2004
		SHEET NO. J4	TOTAL SHEETS 43

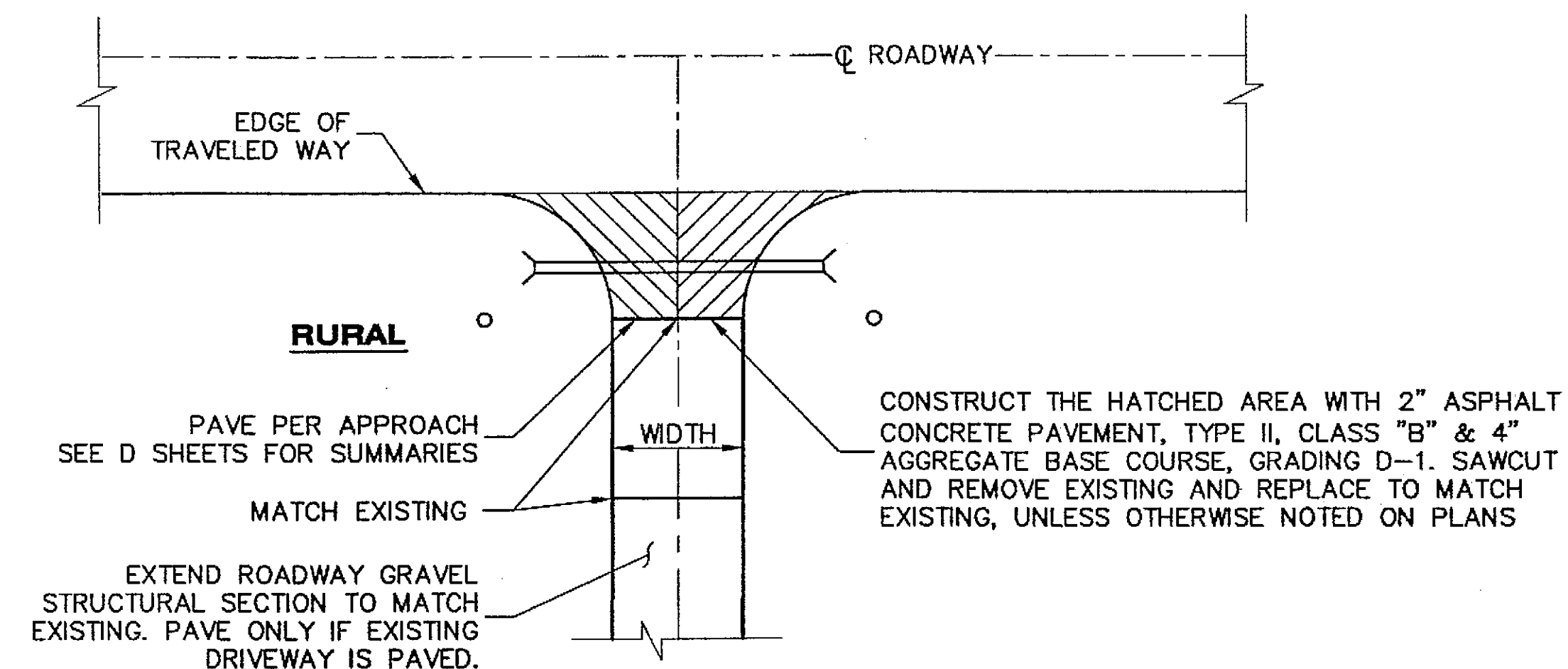
AS BUILT



RURAL DRIVEWAY PROFILES

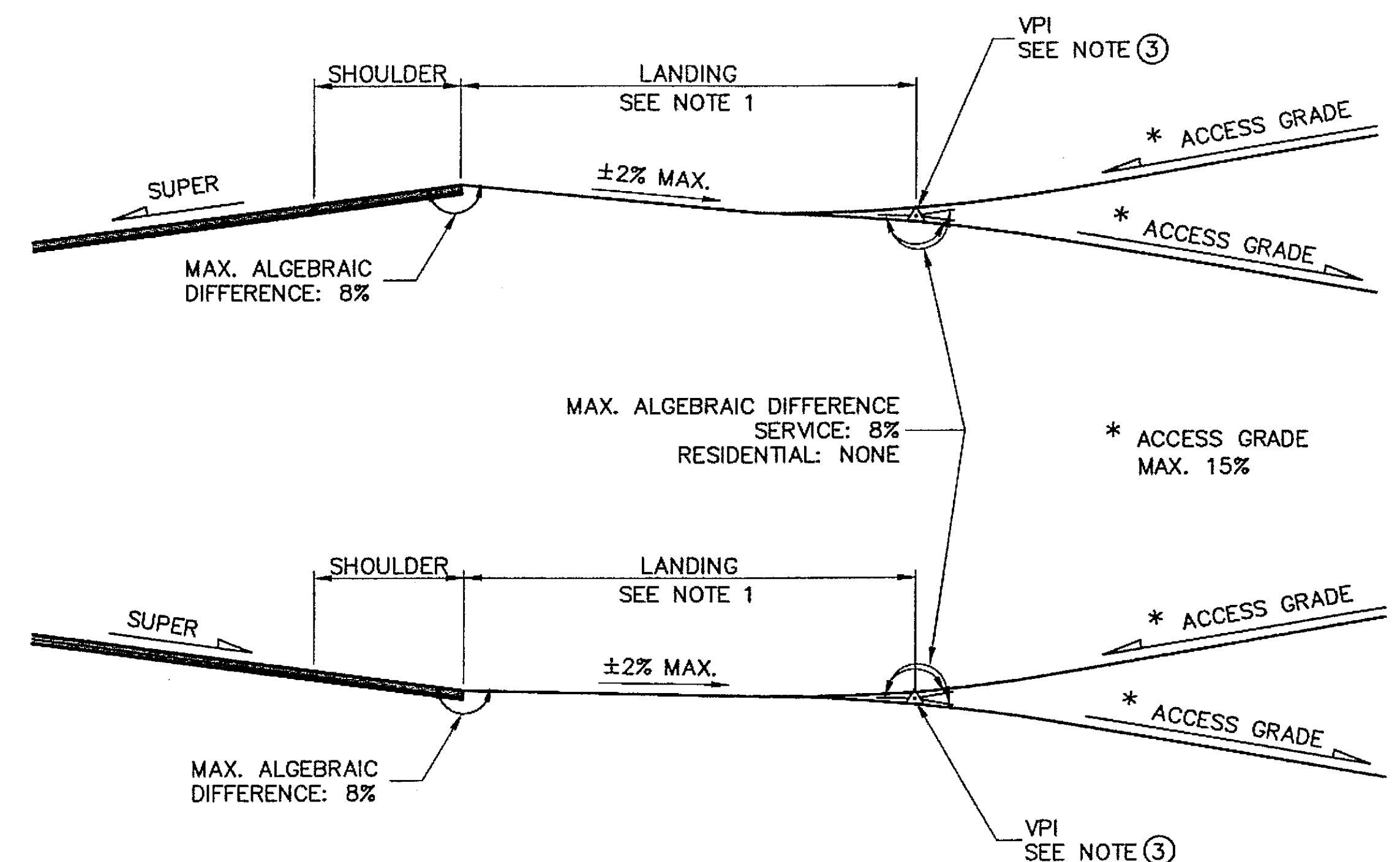


SECTION A-A



PLAN

DRIVEWAY DETAILS



DRIVEWAY PROFILES WITH SUPER

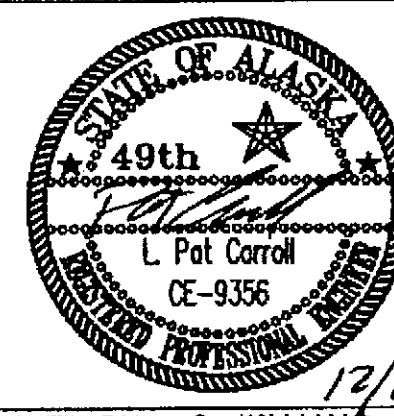
LANDING TABLE	
DRIVEWAY TYPE	LENGTH ①
RESIDENTIAL	10'
② SERVICE	30'

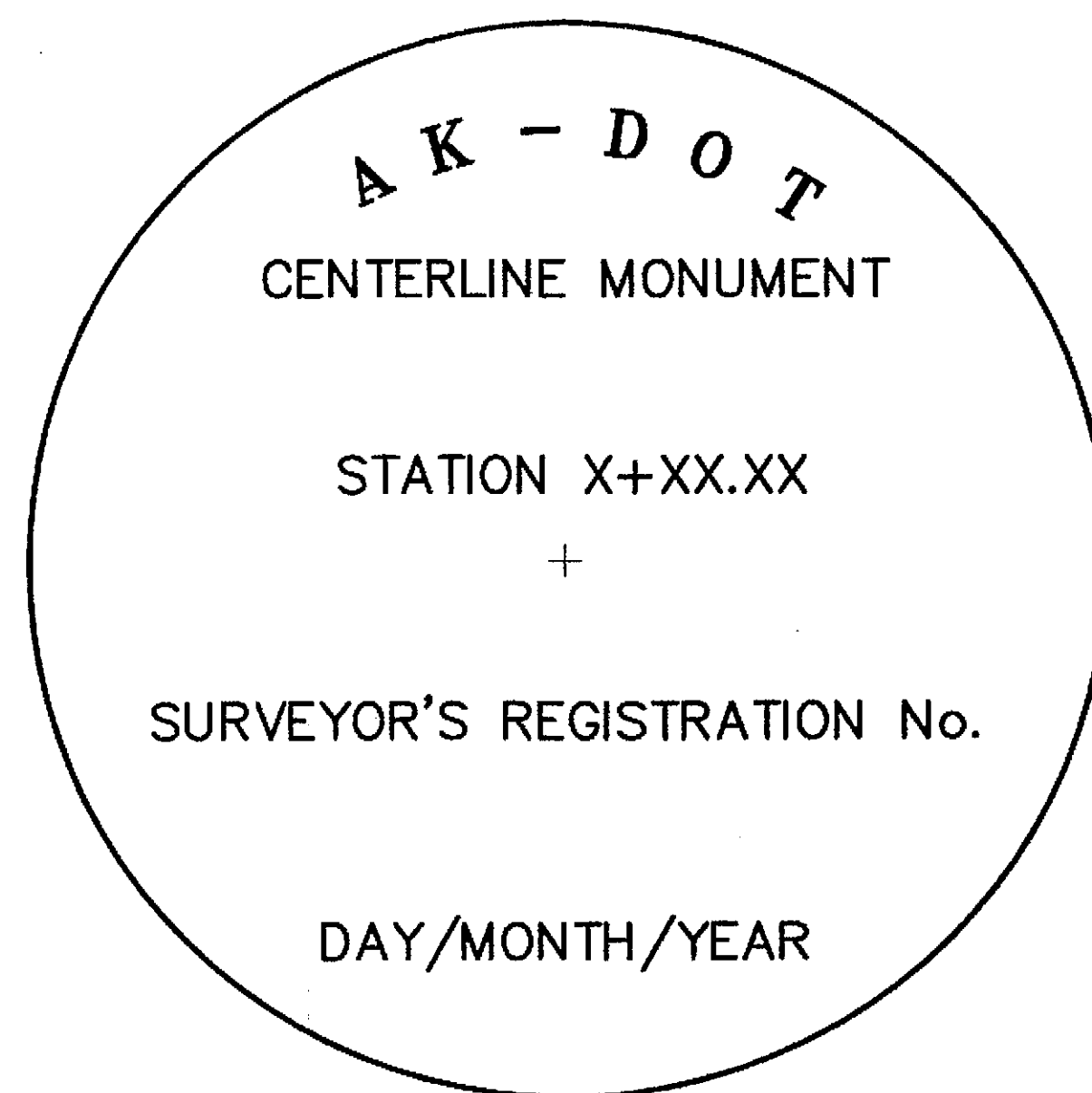
NOTES:

- ① SEE PLANS, OTHERWISE USE LANDING TABLE.
- ② SERVICE DRIVEWAY = COMMERCIAL DRIVEWAY.
- ③ DRIVEWAY VERTICAL CURVES REQUIREMENTS:
CREST- $\frac{3}{4}$ " MAXIMUM HUMP IN 10' CHORD
SAG-2" MAXIMUM DEPRESSION IN 10' CHORD
- ④ SEE DRIVEWAY SUMMARY ON SHEET D1 FOR WIDTHS, RADII AND PAVING LIMITS.

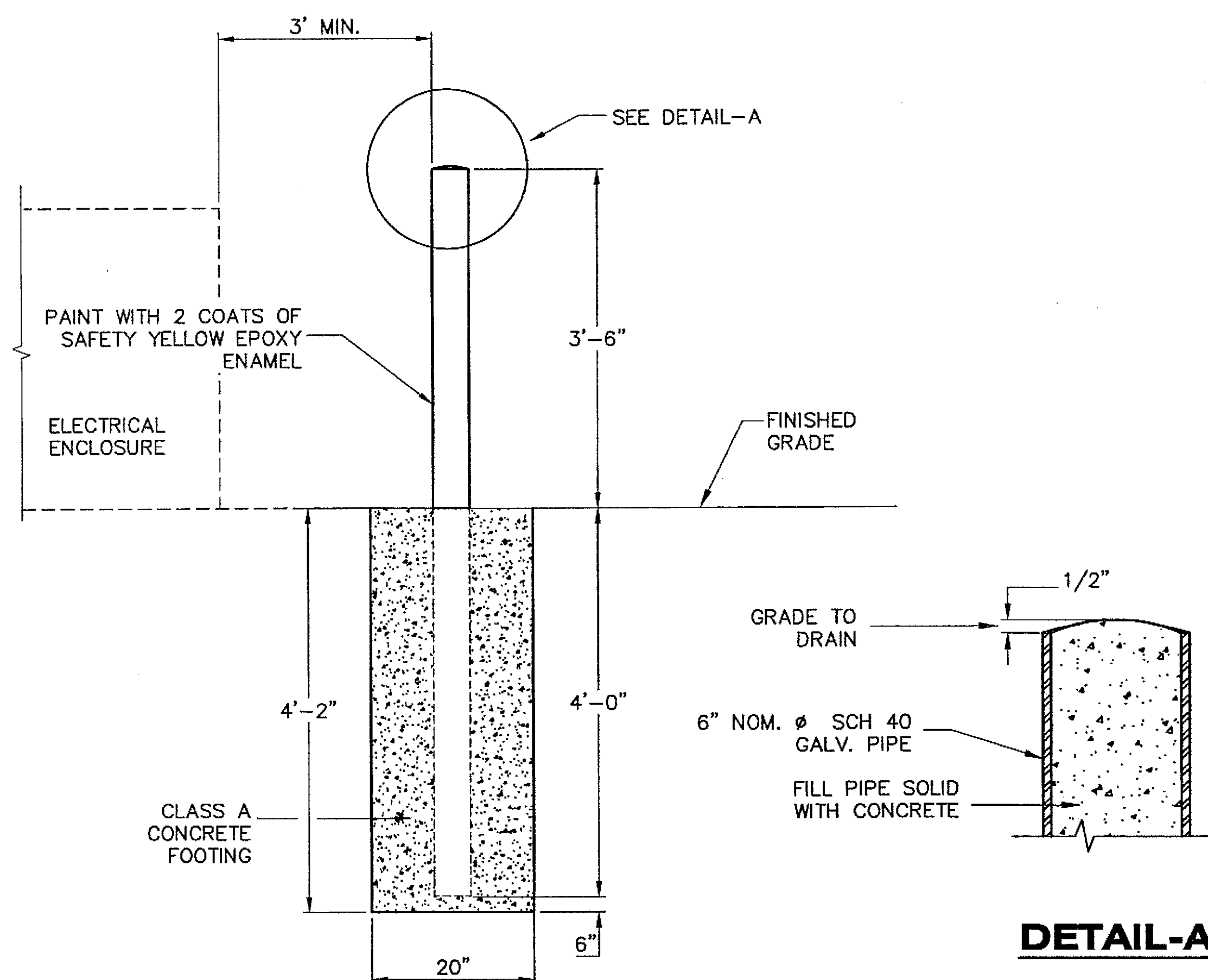
As Built *Filed*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

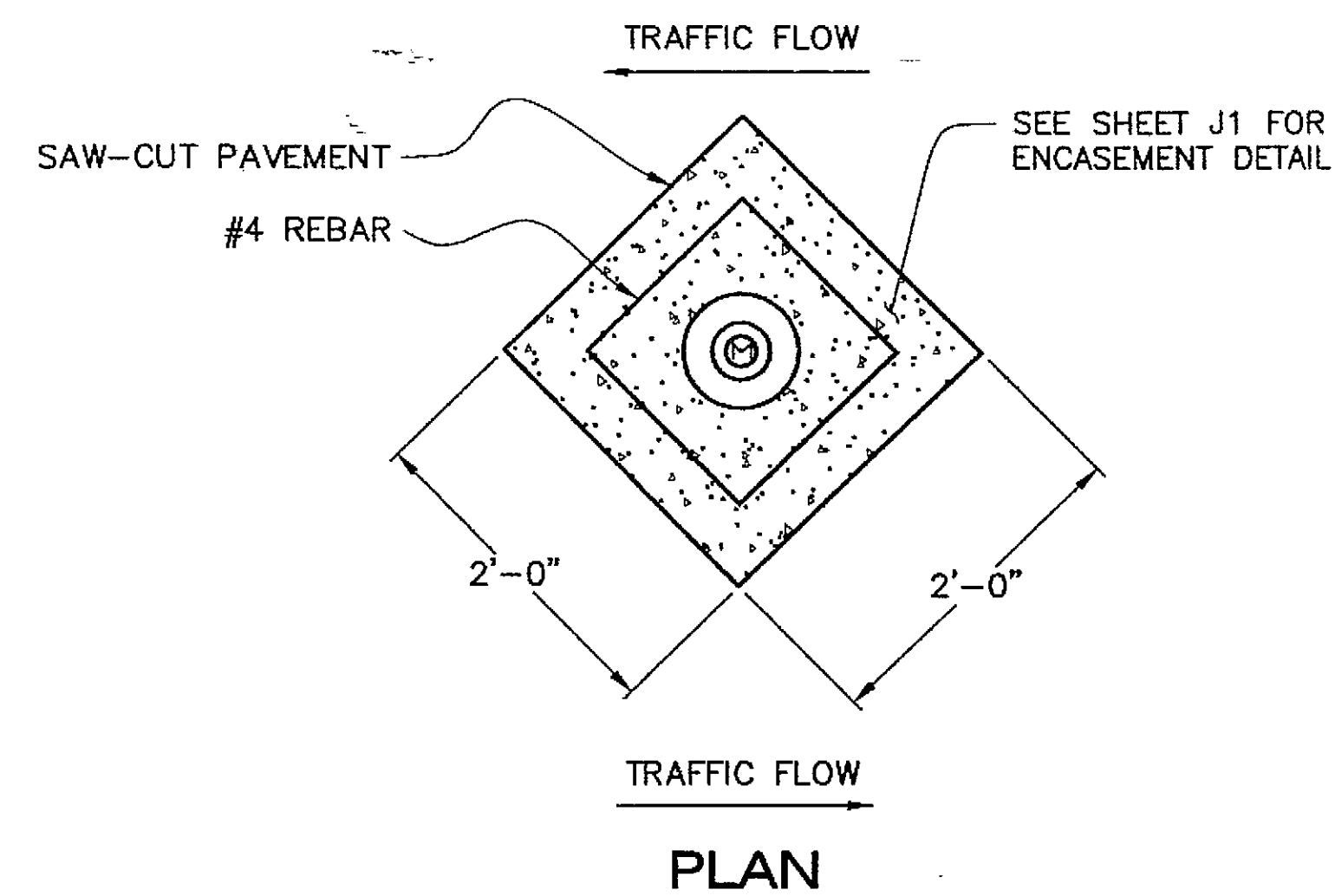
CHECKED BY: P. CARROLL  DESIGNED BY: D. WILLIAMS DRAWN BY: R. SNYDER PATH: G:\Wrg\68246\PlanSet\J_Details.dwg TAB: J5 Mon, 13/Dec/04 09:16AM rksnyder		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246			
MISCELLANEOUS DETAILS		PROJECT DESIGNATION AIP NO. 3-02-0323-1004	YEAR 2004	SHEET J5	TOTAL 43



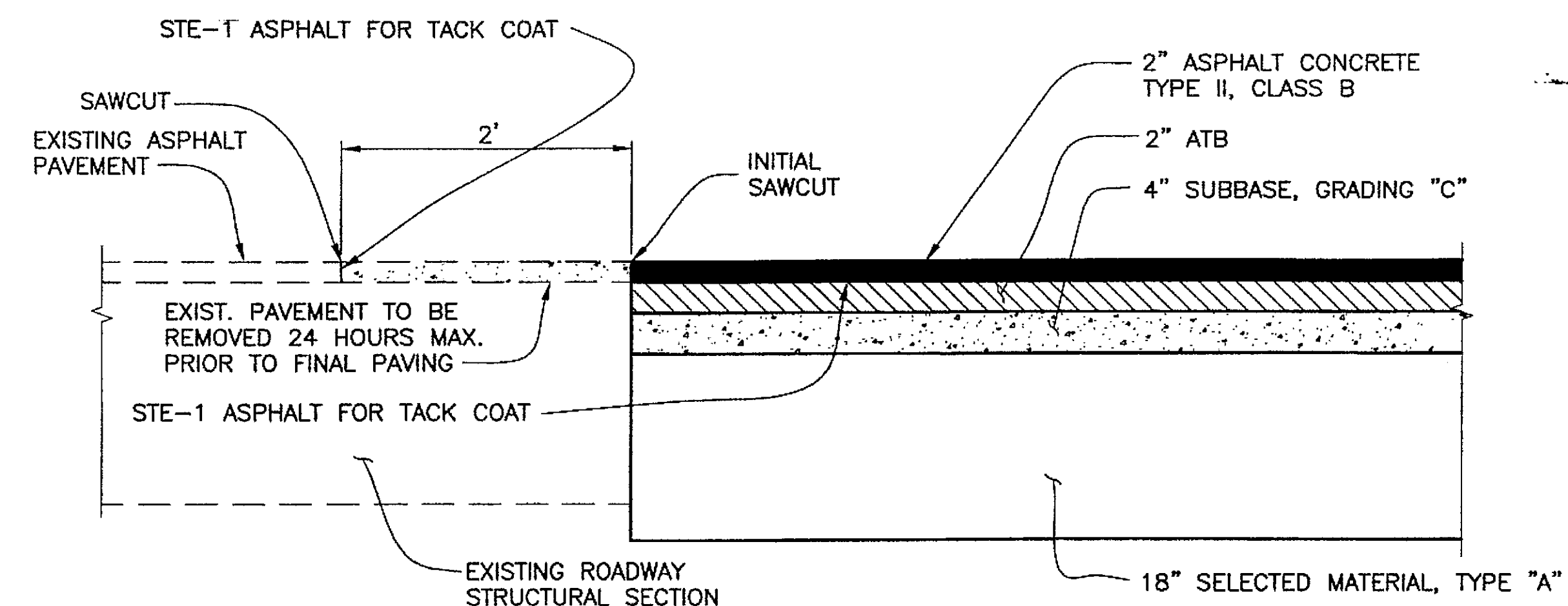
**C/L MONUMENT
CAP DETAIL**



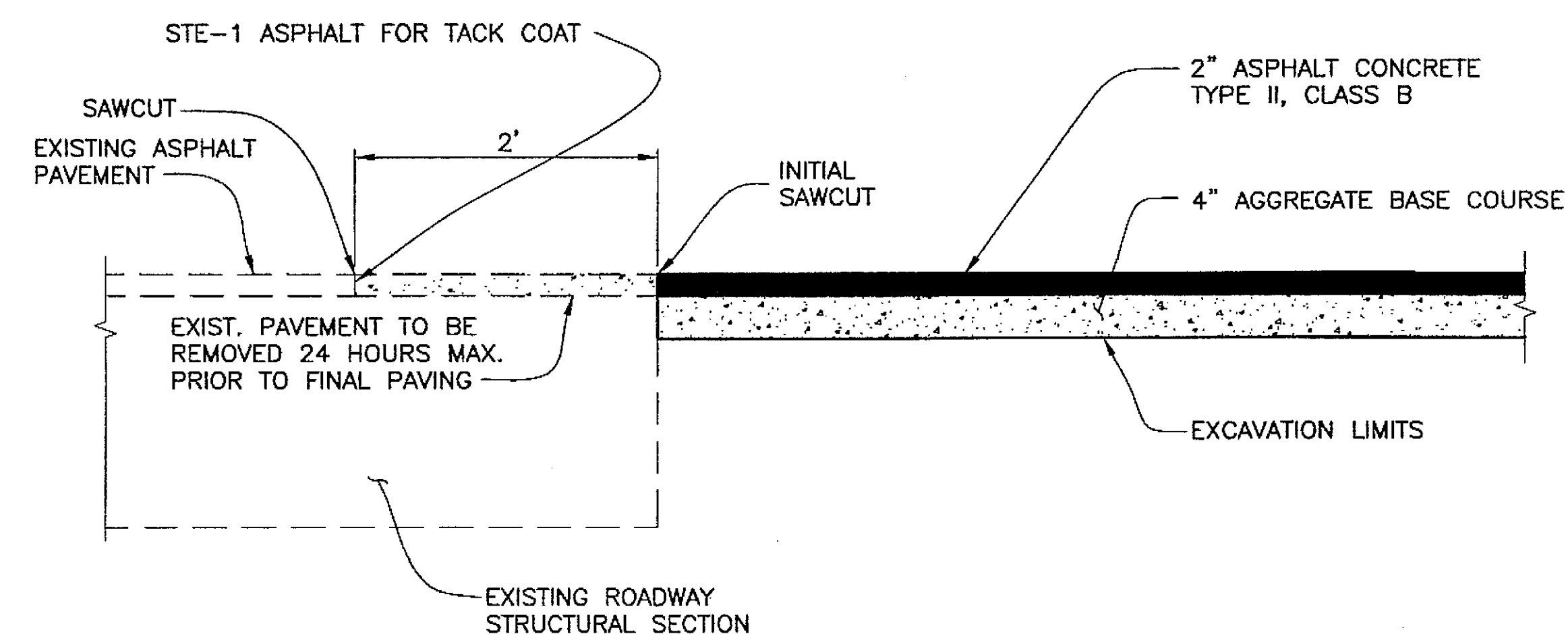
**BOLLARD POST SECTION
@ PARKING AREA
ELECTRICAL ENCLOSURE**



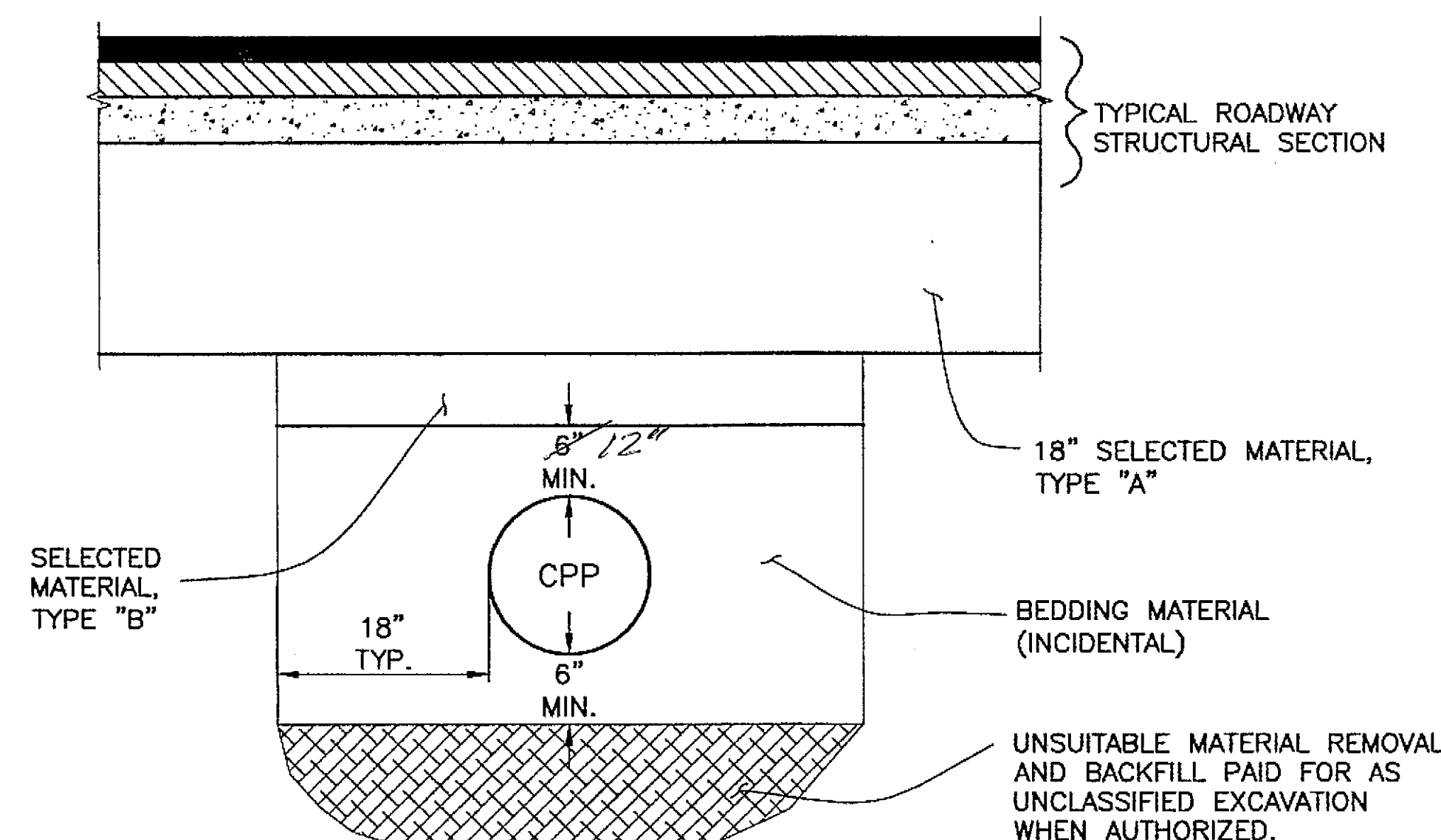
**MONUMENT
ENCASEMENT DETAIL**



**"O" LINE PAVEMENT MATCH JOINT DETAIL
B.O.P. & E.O.P.**



**"A" LINE PAVEMENT MATCH JOINT DETAIL
B.O.P. & E.O.P.**

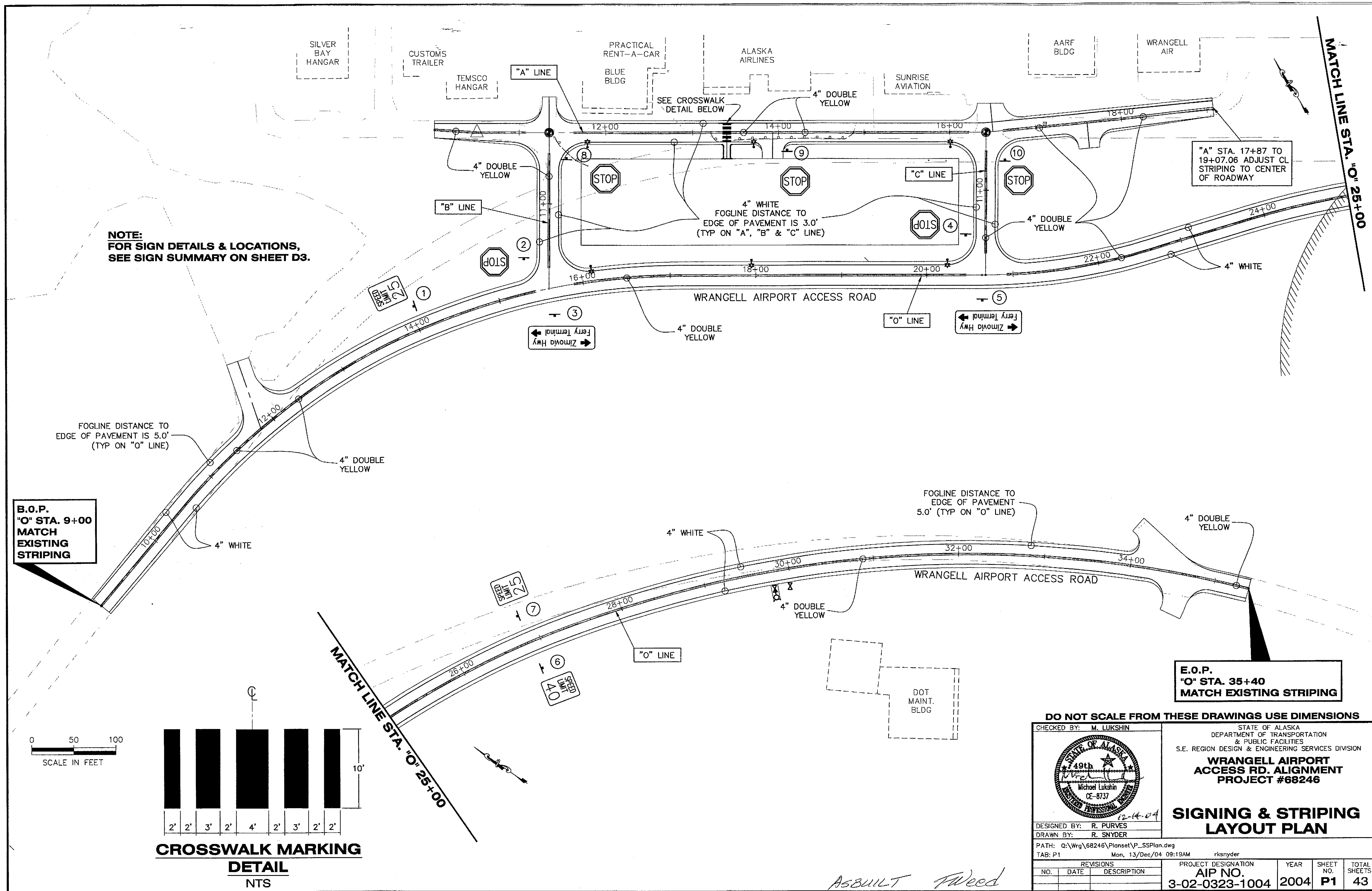


TYPICAL PIPE TRENCHING & BEDDING DETAIL

As BUILT *Fixed*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

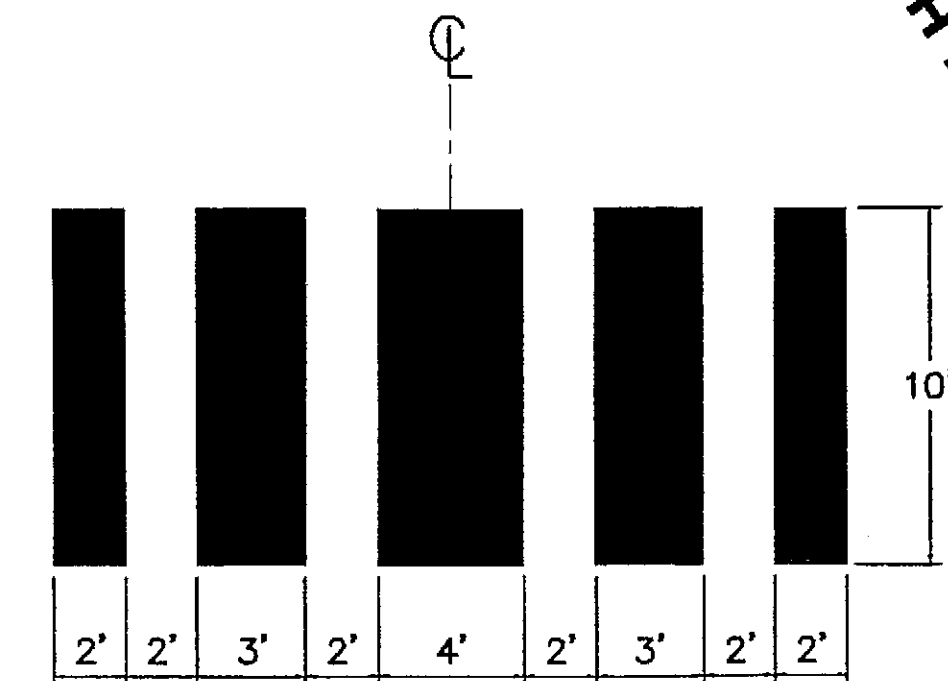
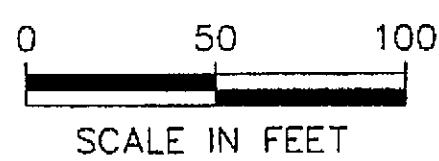
CHECKED BY: P. CARROLL DESIGNED BY: D. WILLIAMS DRAWN BY: R. SNYDER PATH: O:\Wrg\68246\PlanSet\J_Details.dwg TAB: J6 Mon, 13/Dec/04 09:16AM rksnyder		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246	
MISCELLANEOUS DETAILS		PROJECT DESIGNATION AIP NO.	
REVISIONS NO. DATE DESCRIPTION		YEAR 2004	SHEET NO. J6
TOTAL SHEETS 43		3-02-0323-1004	



NOTE:
FOR SIGN DETAILS & LOCATIONS,
SEE SIGN SUMMARY ON SHEET D3.

B.O.P.
"O" STA. 9+00
MATCH
EXISTING
STRIPING

E.O.P.
"O" STA. 35+40
MATCH EXISTING STRIPING

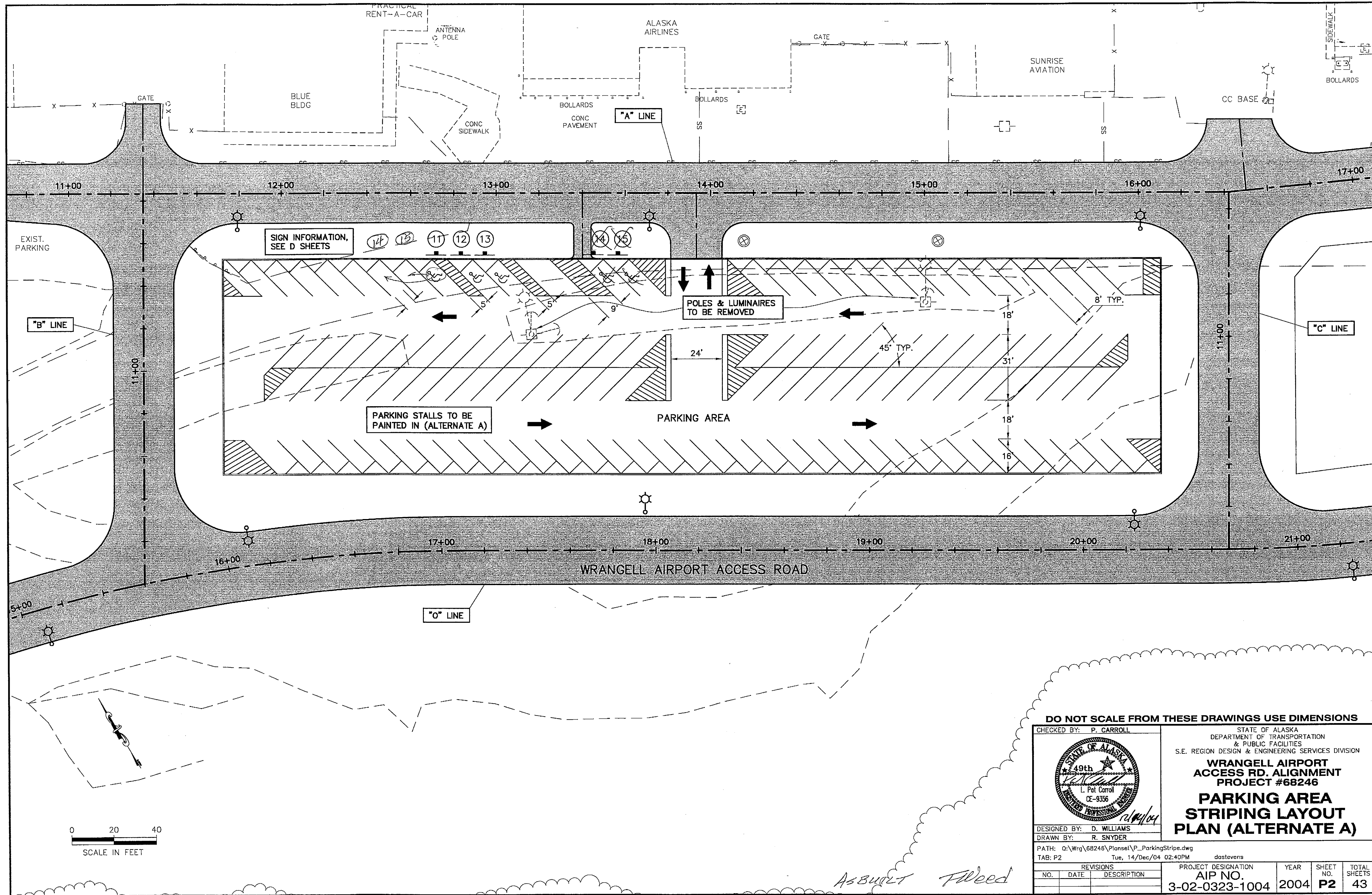


**CROSSWALK MARKING
DETAIL**
NTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

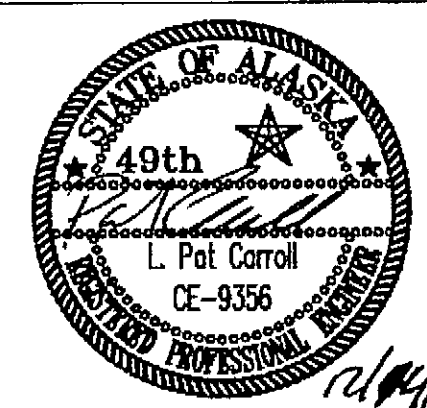
CHECKED BY: M. LUKSHIN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246	
DESIGNED BY: R. PURVES DRAWN BY: R. SNYDER PATH: Q:\Wrg\68246\PlanSet\PS_SSPlan.dwg TAB: P1 Mon, 13/Dec/04 09:19AM rksnyder		SIGNING & STRIPING LAYOUT PLAN	
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION AIP NO. 3-02-0323-1004	YEAR 2004
		SHEET NO. P1	TOTAL SHEETS 43

ASBUILT Fweed



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

PATH: O:\Wrg\68246\PlanSet\P_ParkingStripe.dwg

TAB: P2 Tue, 14/Dec/04 02:40PM dastevens

REVISIONS

NO. DATE DESCRIPTION

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

WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246

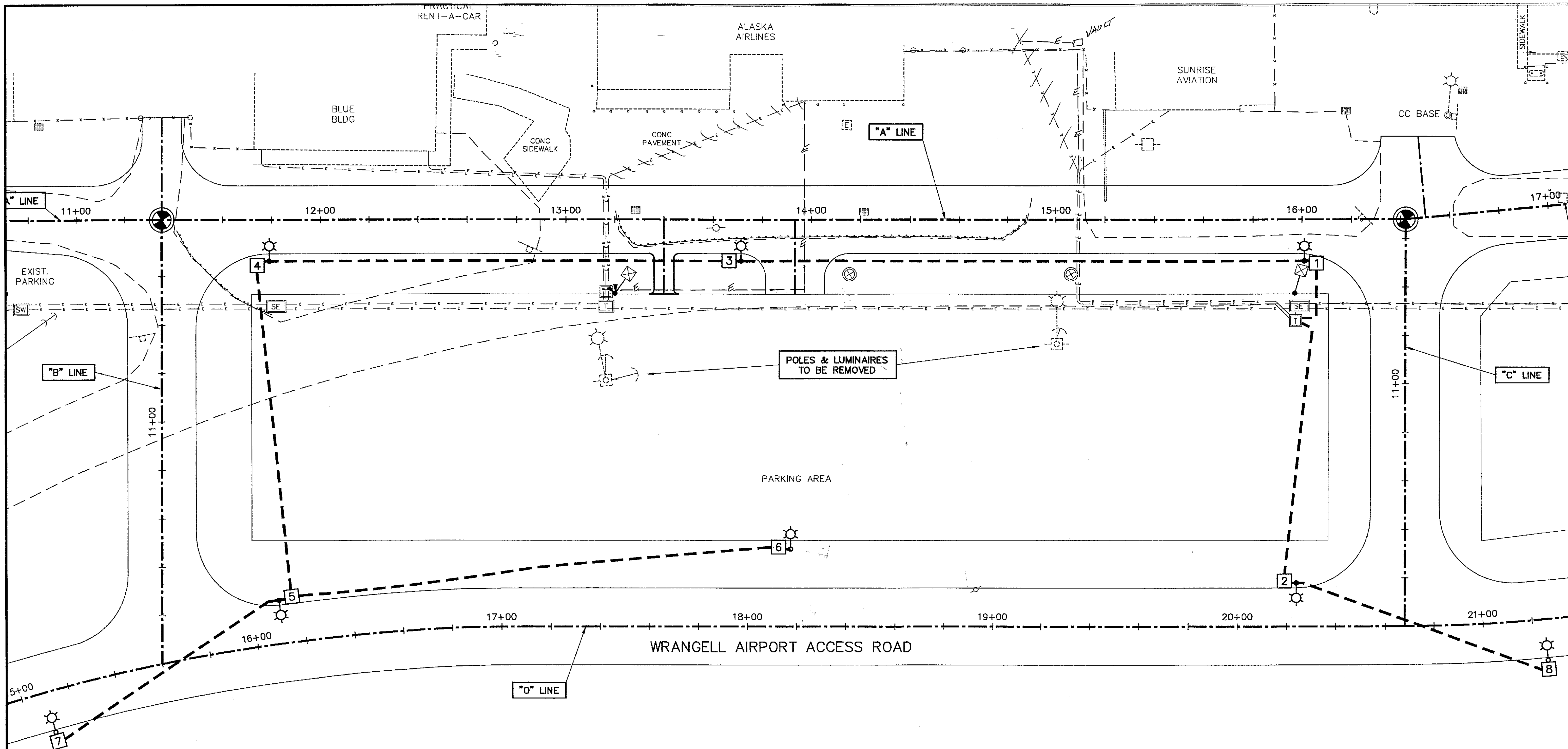
PARKING AREA
STRIPING LAYOUT
PLAN (ALTERNATE A)

PROJECT DESIGNATION
AIP NO.
3-02-0323-1004

YEAR
2004

SHEET
NO.
P2

TOTAL
SHEETS
43



NOTES:

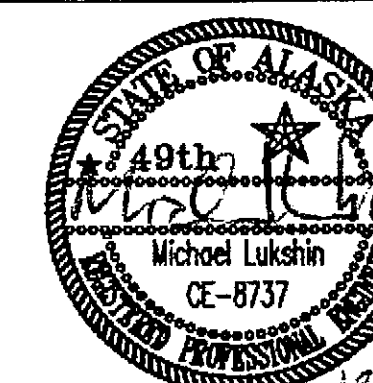
1. INSTALL JUNCTION BOXES ^{NEAR} WITHIN FIVE FEET OF LUMINAIRES PER SHEET R2. ^{PROT. ENGR. DIRECTION.}
2. FOR ILLUMINATION WIRING, SEE NOTE #5 ON SHEET R2.
3. LUMINAIRES WILL BE POWERED BY A CITY OF WRANGELL OWNED TRANSFORMER NEAR STA. "C" 11+25 LT. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION, PERMITS, AND FEES ASSOCIATED WITH GETTING THE ILLUMINATION SYSTEM POWER AND MADE FUNCTIONAL.

LUMINAIRE INSTALLATION TABLE

LUMINAIRE NO.	STATION	OFFSET	REMARKS
1	"A" 16+00.00	16.0 17.0' RT	
2	"O" 20+25.00	21.0 18.0' LT	
3	"A" 13+12.00	16.0 17.0' RT	
4	"A" 11+80.00	16.0 17.0' RT	
5	"O" 20+25.00	21.0 18.0' RT	
6	"O" 18+20.00	33.0' LT	PARKING LOT LIGHTING
7	"O" 15+10.00	21.0 17.0' RT	
8	"O" 21+25.00	21.0 17.0' RT	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: M. LUKSHIN



DESIGNED BY: R. PURVES
DRAWN BY: R. SNYDER

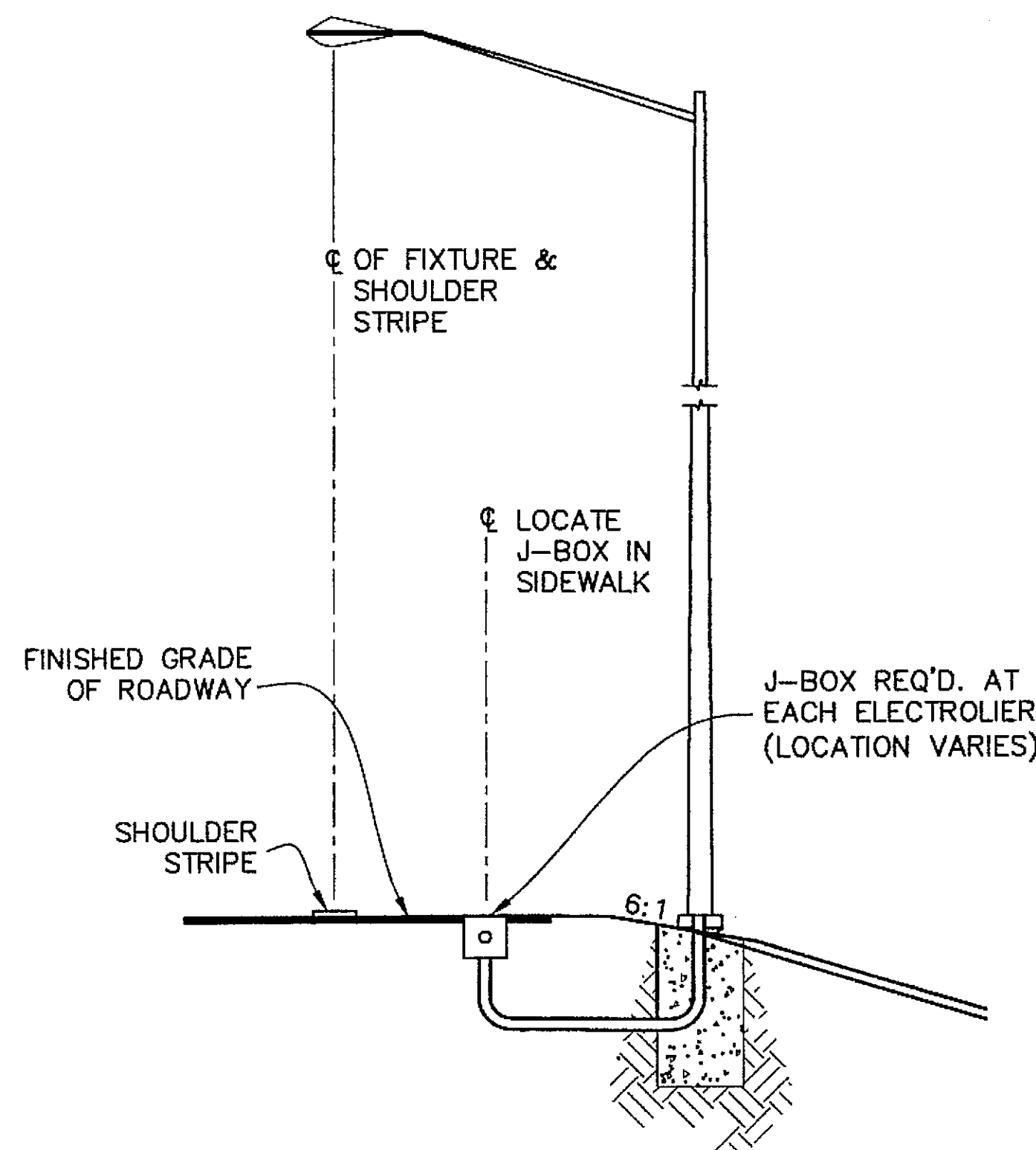
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TAB: R1 Tue, 14/Dec/04 03:38PM cjhoward1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

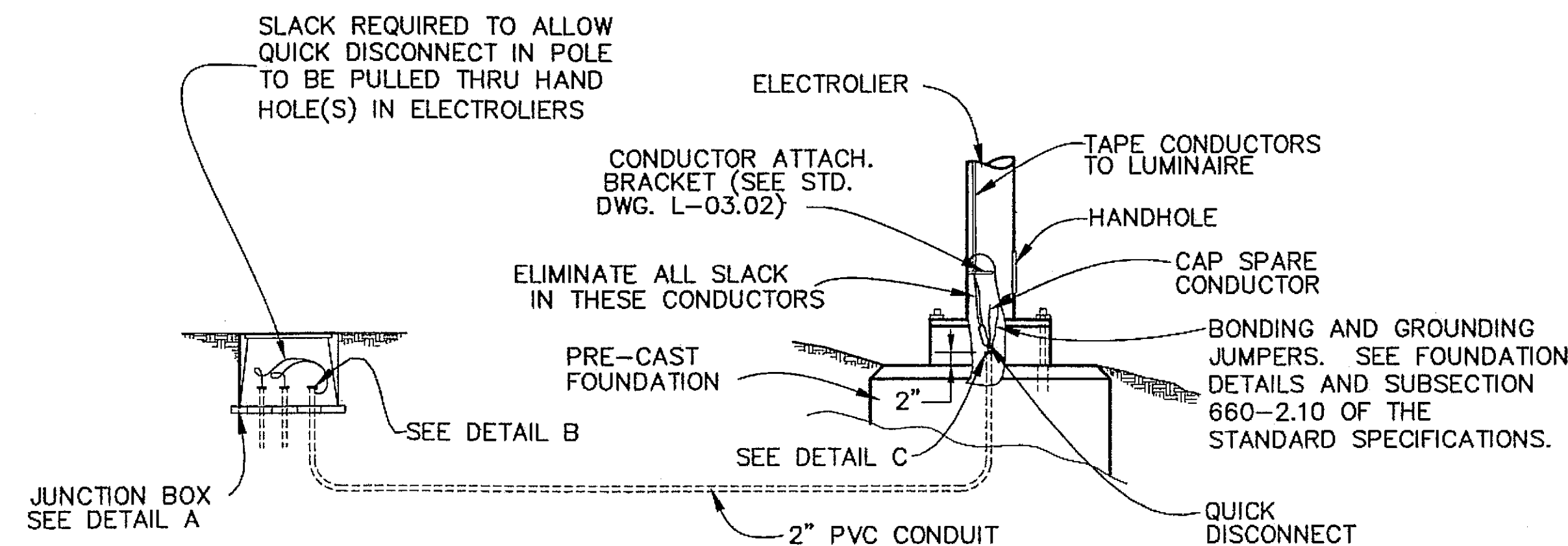
ILLUMINATION LAYOUT PLAN

REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	AIP NO.				
			3-02-0323-1004		2004	R1	43

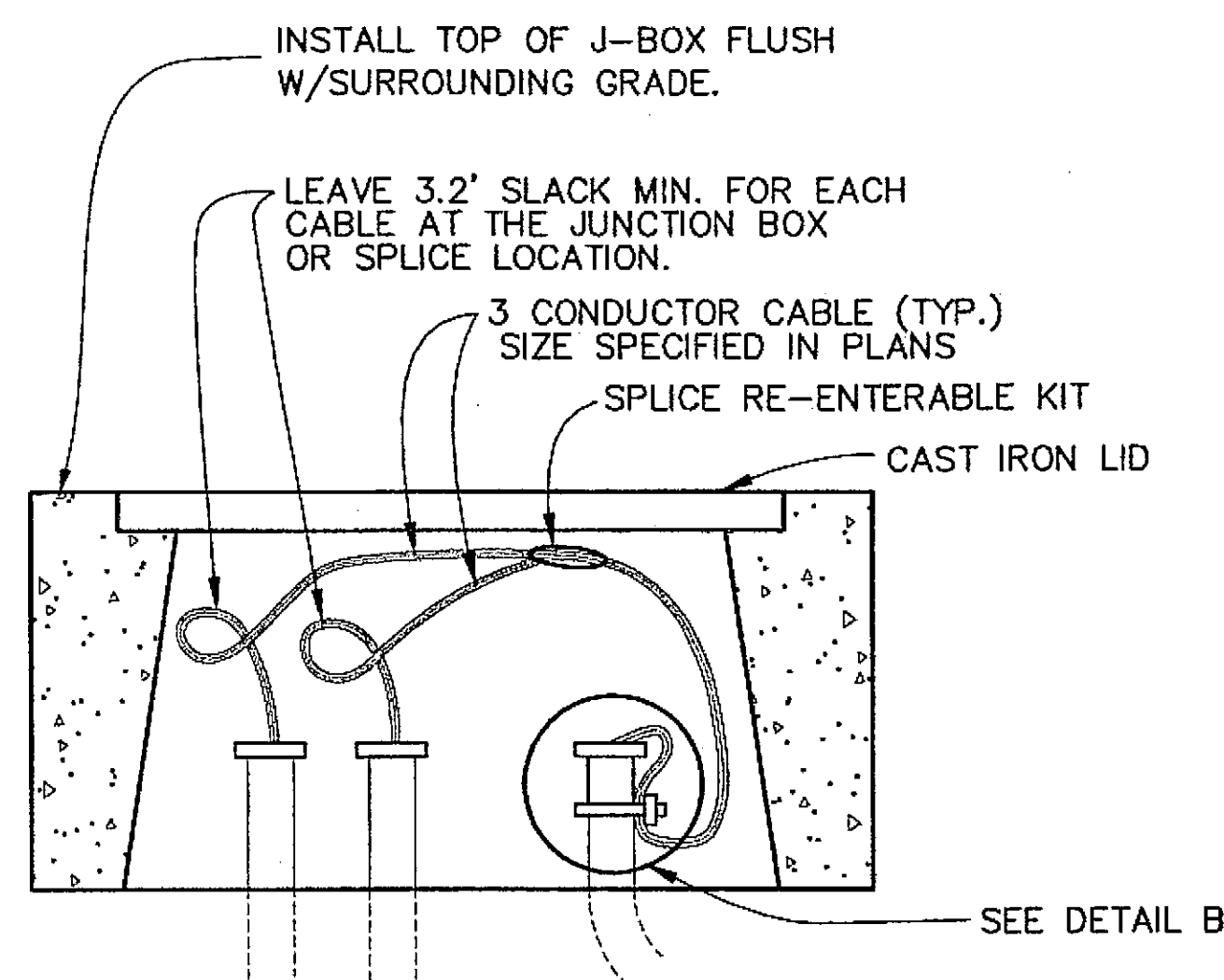
AS BUILT *Freeed*



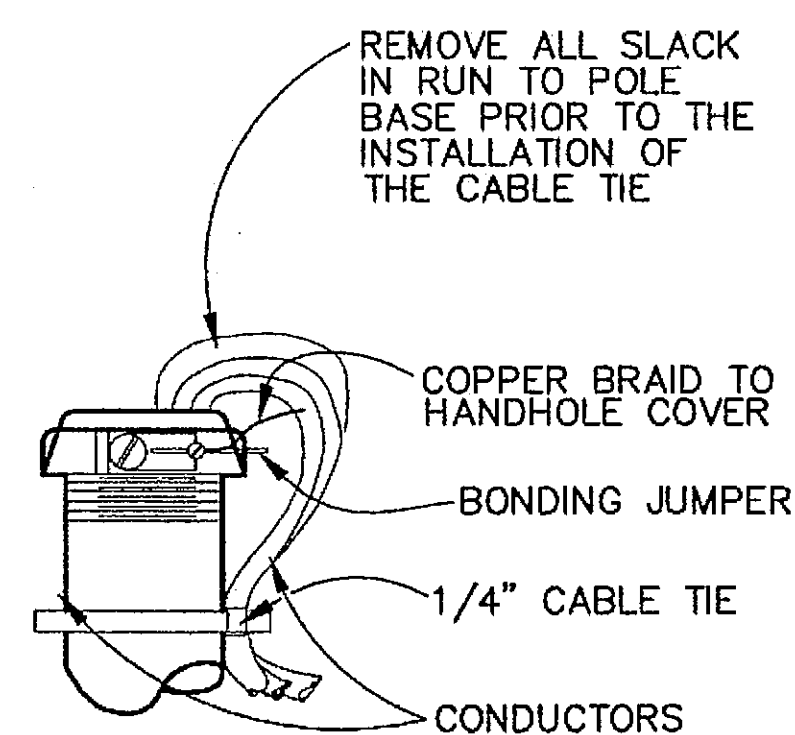
**TYPICAL SECTION
FOR ELECTROLIER**



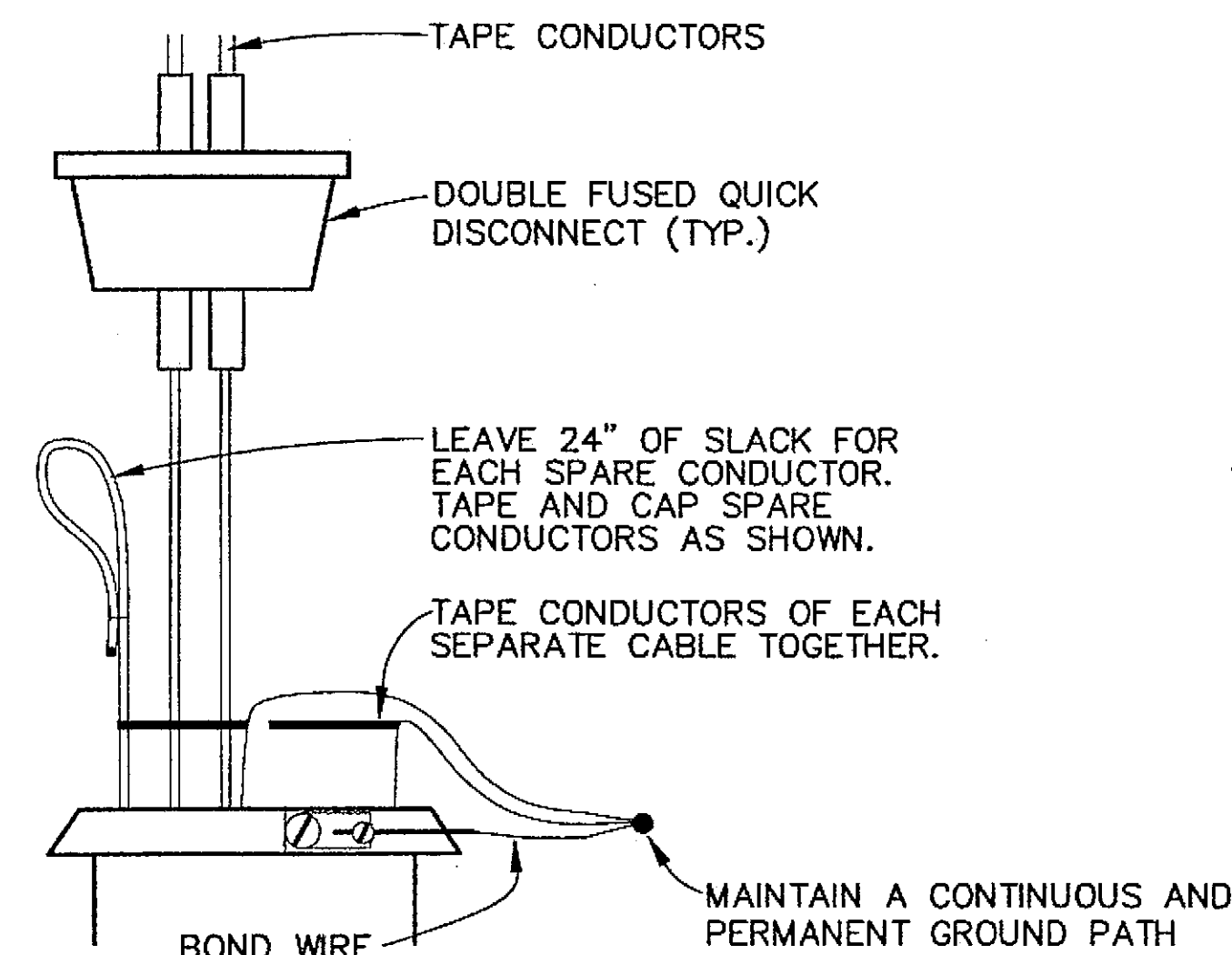
SECTION



DETAIL A



**DETAIL B
(IN J-BOX)**



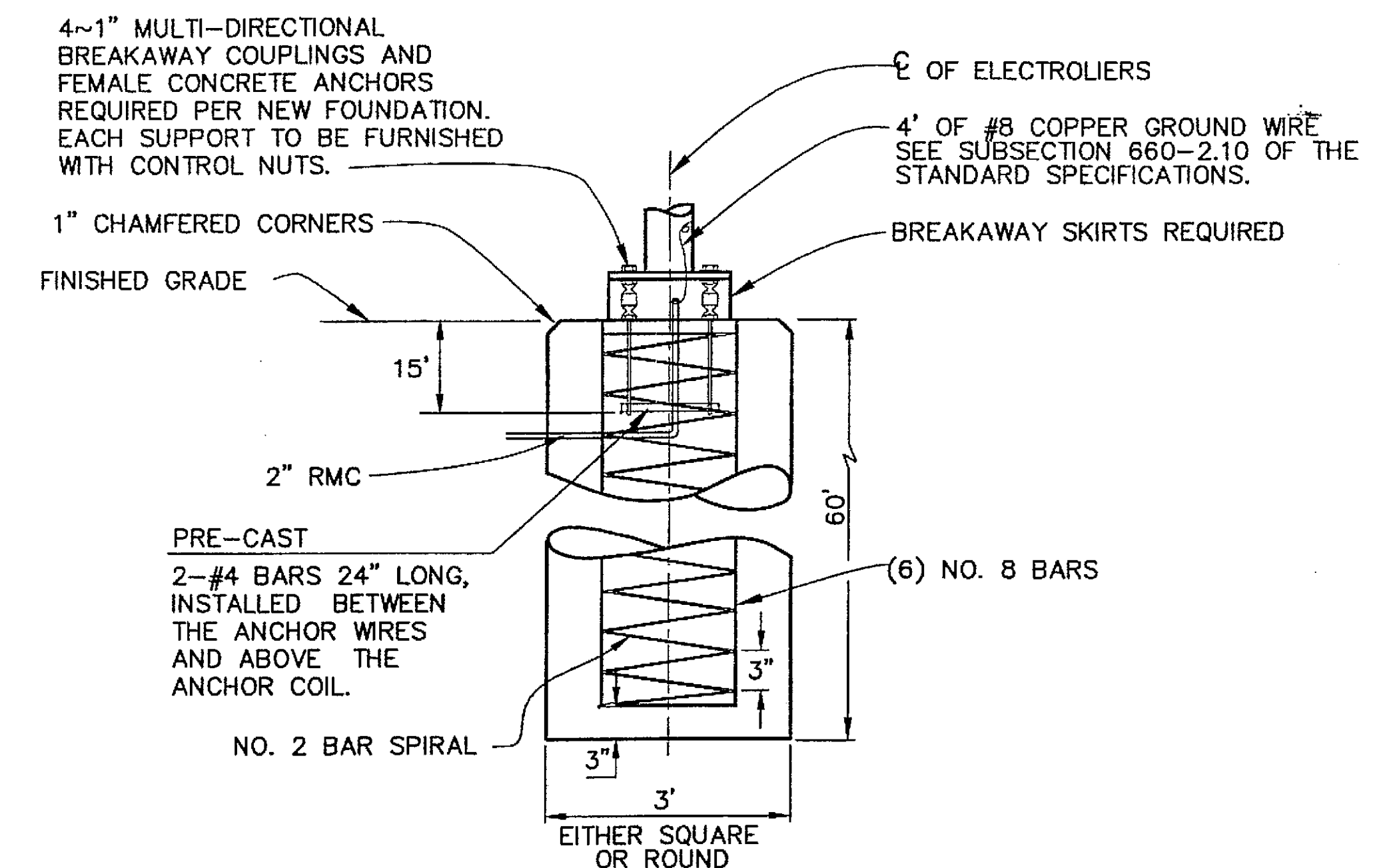
**DETAIL C
(IN POLE BASE)**

**LIGHTING SYSTEM POLE &
J-BOX WIRING DETAILS**

(BREAKAWAY COUPLINGS)

ILLUMINATION GENERAL NOTES:

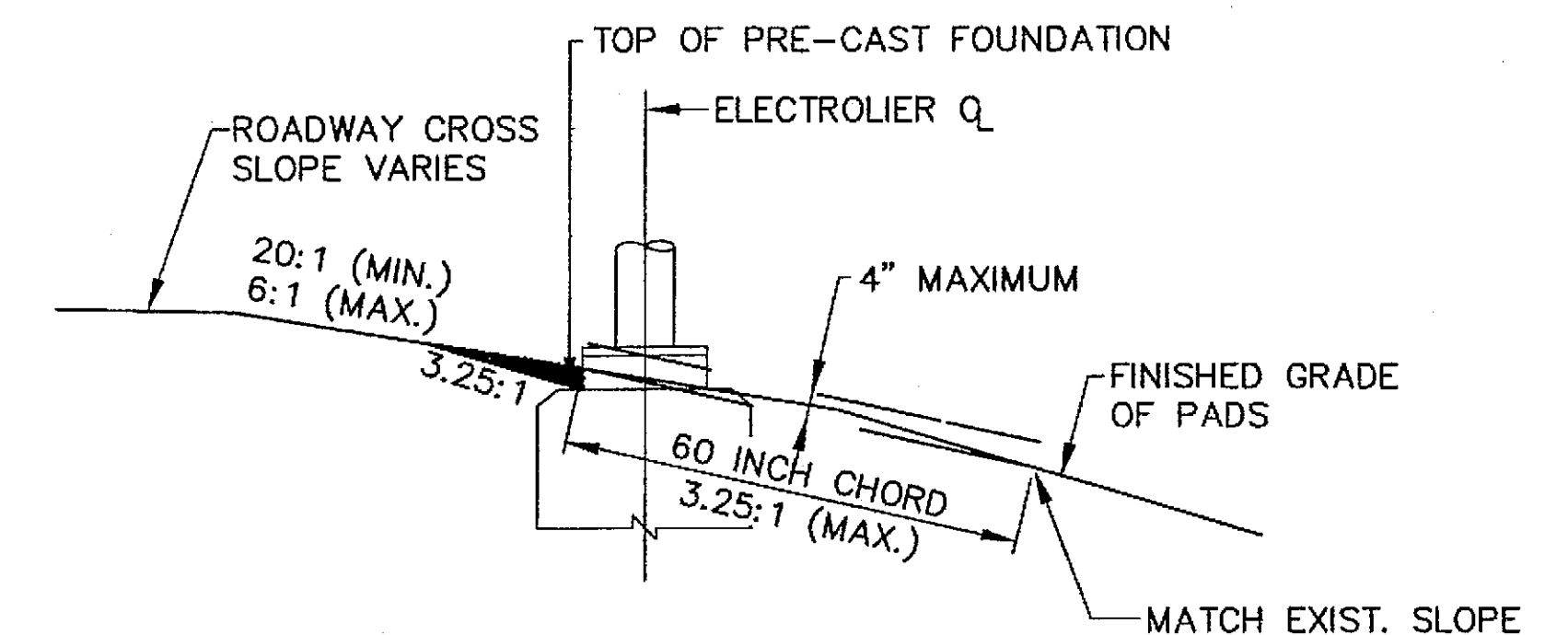
1. EACH NEW ELECTROLIER SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE FOUNDATION AS SHOWN IN THE PLANS.
2. ALL JUNCTION BOXES SHALL BE TYPE I-A. SEE STANDARD DRAWING L-23.01.
3. NEW ELECTROLIER FOUNDATIONS SHALL BE PRE-CAST. PRE-CAST FOUNDATIONS SHALL BE LIFTED AND TRANSPORTED USING A DEVICE THAT DISTRIBUTES THE LOAD EVENLY BETWEEN THE ANCHOR BOLTS.
4. INSTALL THE PHOTOELECTRIC CELL ON TOP OF ALL LUMINAIRES.
5. ILLUMINATION CIRCUIT WIRES SHALL BE NO. 8 AWG. 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 660.
6. LUMINAIRES SHALL BE 240 VOLT, 250 WATT, HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, CUT-OFF, IES TYPE III AND SHALL BE HAVE MAGNETIC REGULATOR BALLASTS, AND HPS LAMPS WITH A 24,000 HOUR RATED LIFE.
7. NON-BREAKAWAY PORTIONS OF FOUNDATIONS SHALL NOT PROTRUDE MORE THAN 4" ABOVE ANY 5' CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.
8. MAXIMUM SPACING BETWEEN ALL (NEW OR OLD) JUNCTION BOXES SHALL BE 190 FEET. THE COST TO INSTALL ADDITION JUNCTION BOXES SHALL BE INCIDENTAL TO THE LIGHTING SYSTEM PAY ITEM.



**FOUNDATION WITH
BREAKAWAY COUPLINGS**

FOUNDATION NOTES:

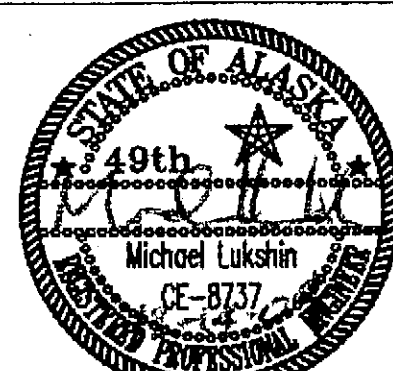
1. CONCRETE SHALL CONFORM TO CLASS "A" CONCRETE.
2. REINFORCING STEEL SHALL BE DEFORMED BARS OF BILLET STEEL CONFORMING TO ASTM A-615, GRADE 40.
3. EACH SPIRAL REBAR UNIT WITHIN EACH FOOTIN SHALL HAVE 1 1/2 TURNS OF THE REBAR AT EACH END OF THE UNIT.



FOUNDATION GRADING DETAIL

INDICATES EMBANKMENT MATERIAL TO BE REMOVED FROM AROUND BREAKAWAY SKIRTS

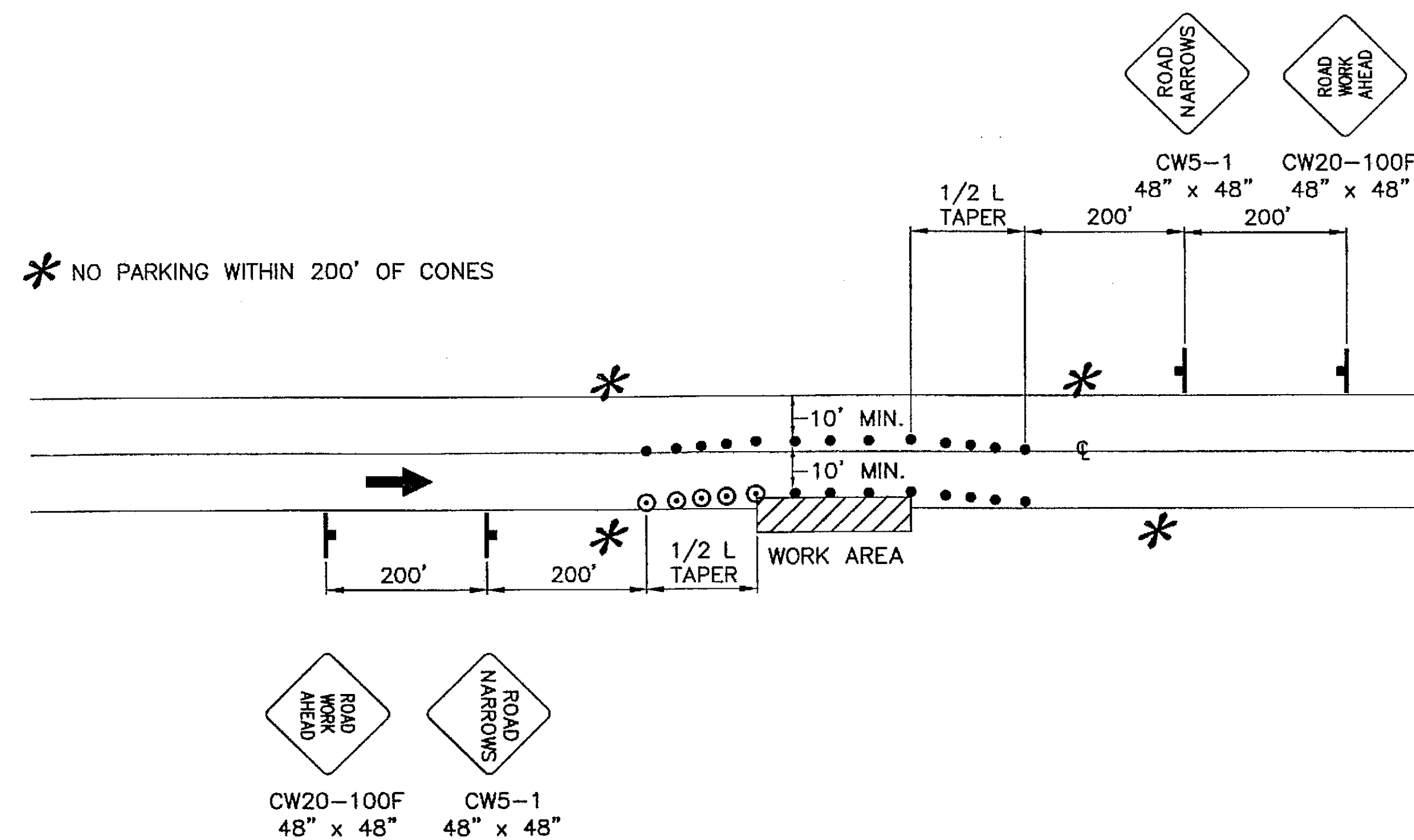
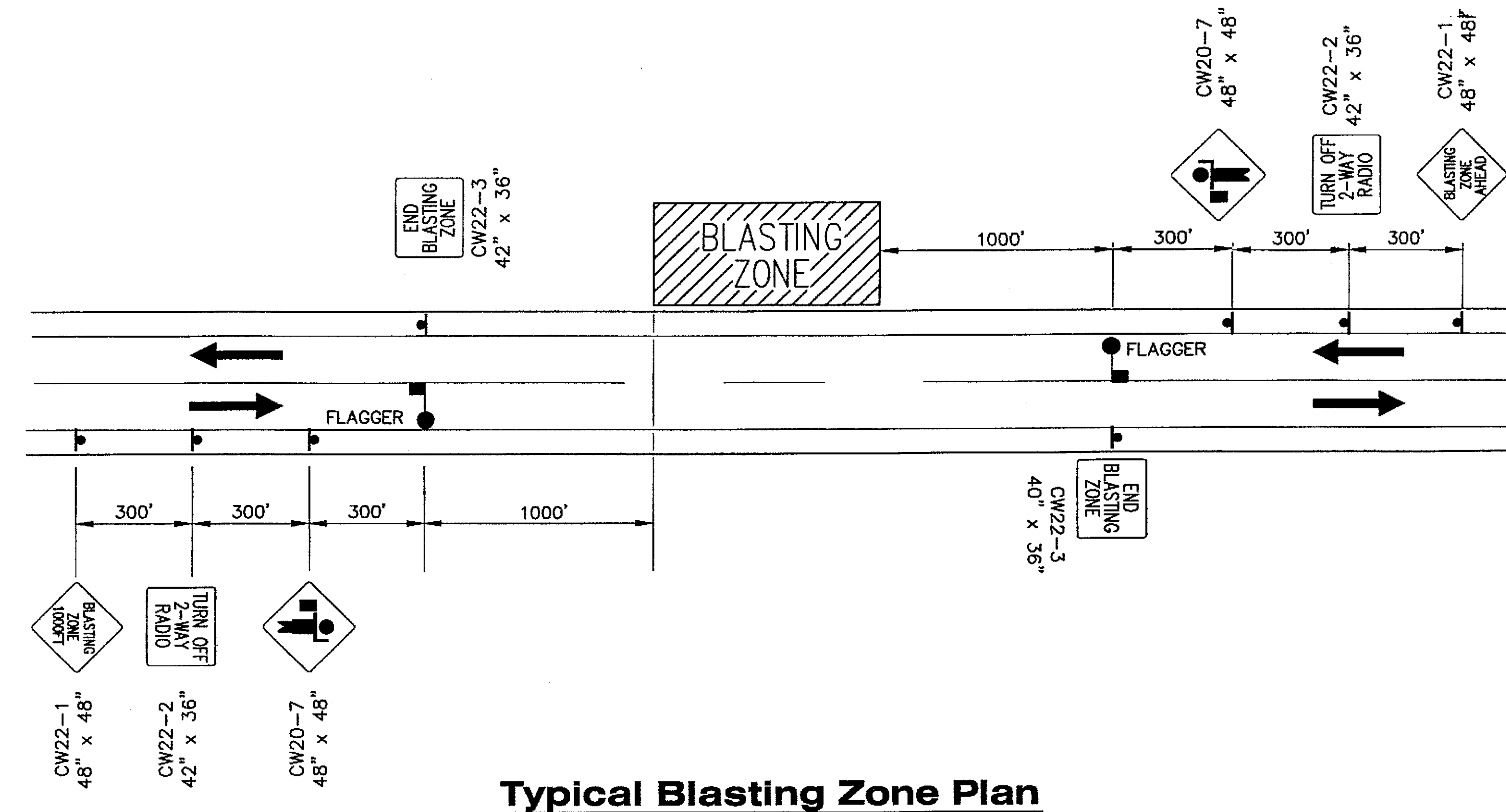
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: M. LUKSHIN  DESIGNED BY: R. PURVES DRAWN BY: R. SNYDER PATH: Q:\Wrg\68246\Planset\R_illumination.dwg TAB: R2 Mon, 13/Dec/04 09:37AM rksnyder		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246	
ILLUMINATION DETAILS		PROJECT DESIGNATION AIP NO. 3-02-0323-1004	
NO.	DATE	DESCRIPTION	YEAR
			2004
SHEET NO. R2		TOTAL SHEETS 43	

AS BUILT Filed

Traffic Control Notes:

- IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
- TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
- TRAFFIC LANES SHALL BE A MINIMUM OF 10' WIDE.
- CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
- TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.09 OF THE SPECIFICATIONS.
- CHANNELIZATION DEVICES WILL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL IF USED AT NIGHT.
- THE CONTRACTOR SHALL GIVE 24 HOURS ADVANCE NOTICE BEFORE WORKING ON DRIVEWAYS.
- 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.
- THE MAXIMUM LENGTH OF A ONE LANE, TWO-WAY WORK ZONE (FLAGGER SETUP) SHALL BE 1000', AND THE MINIMUM SEPARATION BETWEEN WORK ZONES SHALL BE 1000'. IF VEHICLE STOP TIME EXCEEDS FIVE MINUTES, THE CONTRACTOR SHALL SHORTEN HIS WORK ZONE OR RESCHEDULE HIS WORK TO A LESS BUSY HOUR.
- FLAGGERS SHALL BE IN RADIO CONTACT WITH ONE ANOTHER.
- THE CONTRACTOR SHALL PATCH ALL BASE RECONSTRUCTION AREAS WITH CRUSHED ASPHALT IMMEDIATELY AFTER FINISHING WORK IN THESE AREAS. THE CRUSHED ASPHALT IN THESE AREAS SHALL BE MAINTAINED UNTIL THE PAVEMENT IS REMOVED.
- ACCESS TO AIRPORT AND TERMINAL BUILDING WILL BE KEPT OPEN AT ALL TIMES. WORK ON ACCESS TO ANY HOME OR BUSINESS THAT HAS ONLY ONE ACCESS, WILL BE DONE WITH HALF WIDTH CONSTRUCTION.
- FLAGGING OPERATION WILL BE SCHEDULED SO AS NOT TO OCCUR DURING SCHEDULED ARRIVALS AND DEPARTURES OF ALASKA AIRLINES FLIGHTS.



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

LEGEND

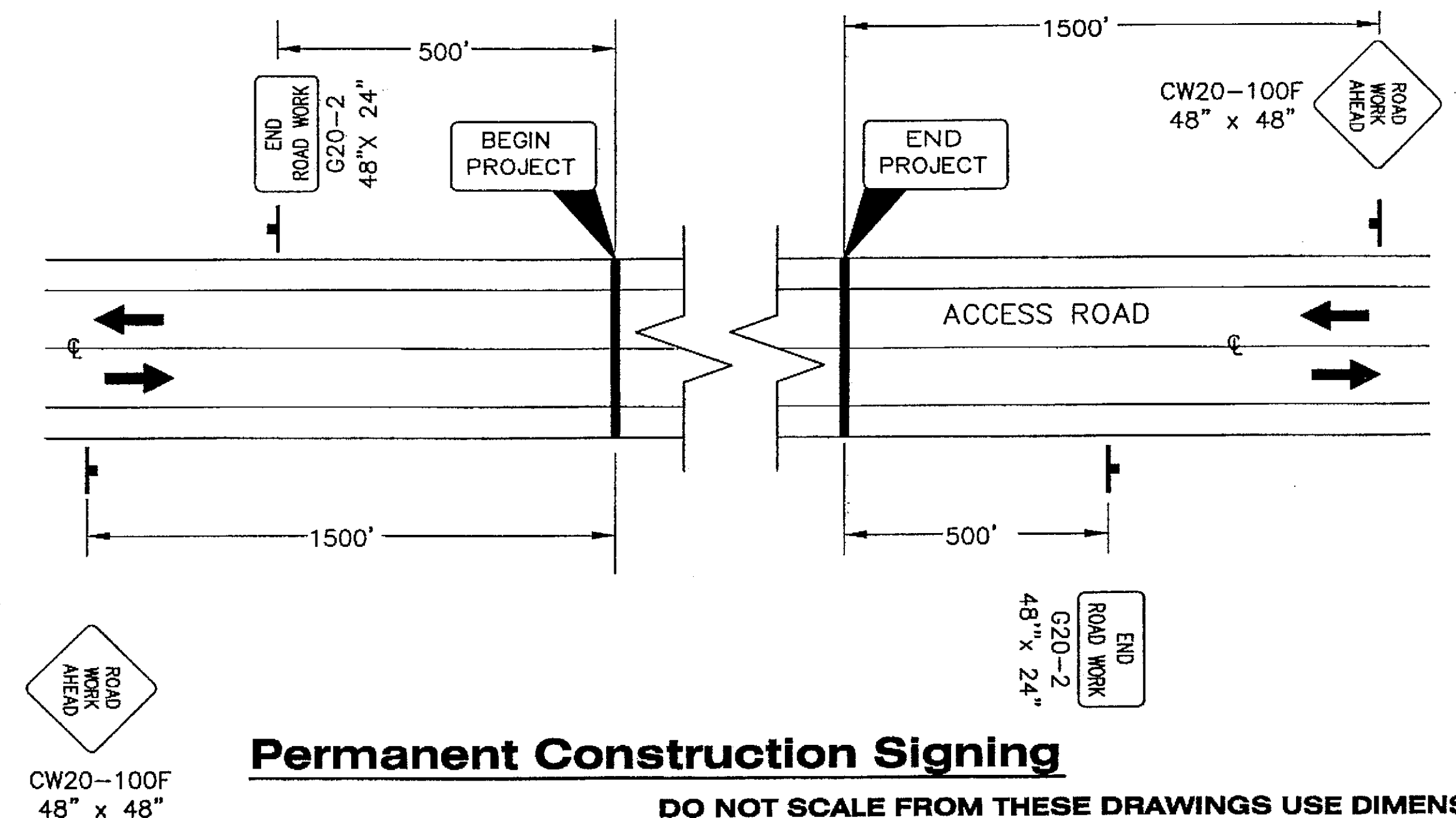
- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION

WHERE

- L = LENGTH OF TAPER
- W = WIDTH OF OFFSET
- T = TAPER RATE
- L = W x T

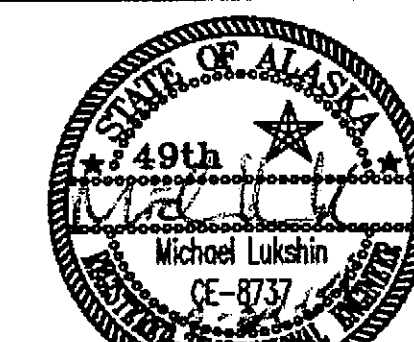
TCP TABLE SETUP

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



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CHECKED BY: M. LUKSHIN



DESIGNED BY: R. PURVES
DRAWN BY: R. SNYDER

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Mon, 13/Dec/04 09:38AM

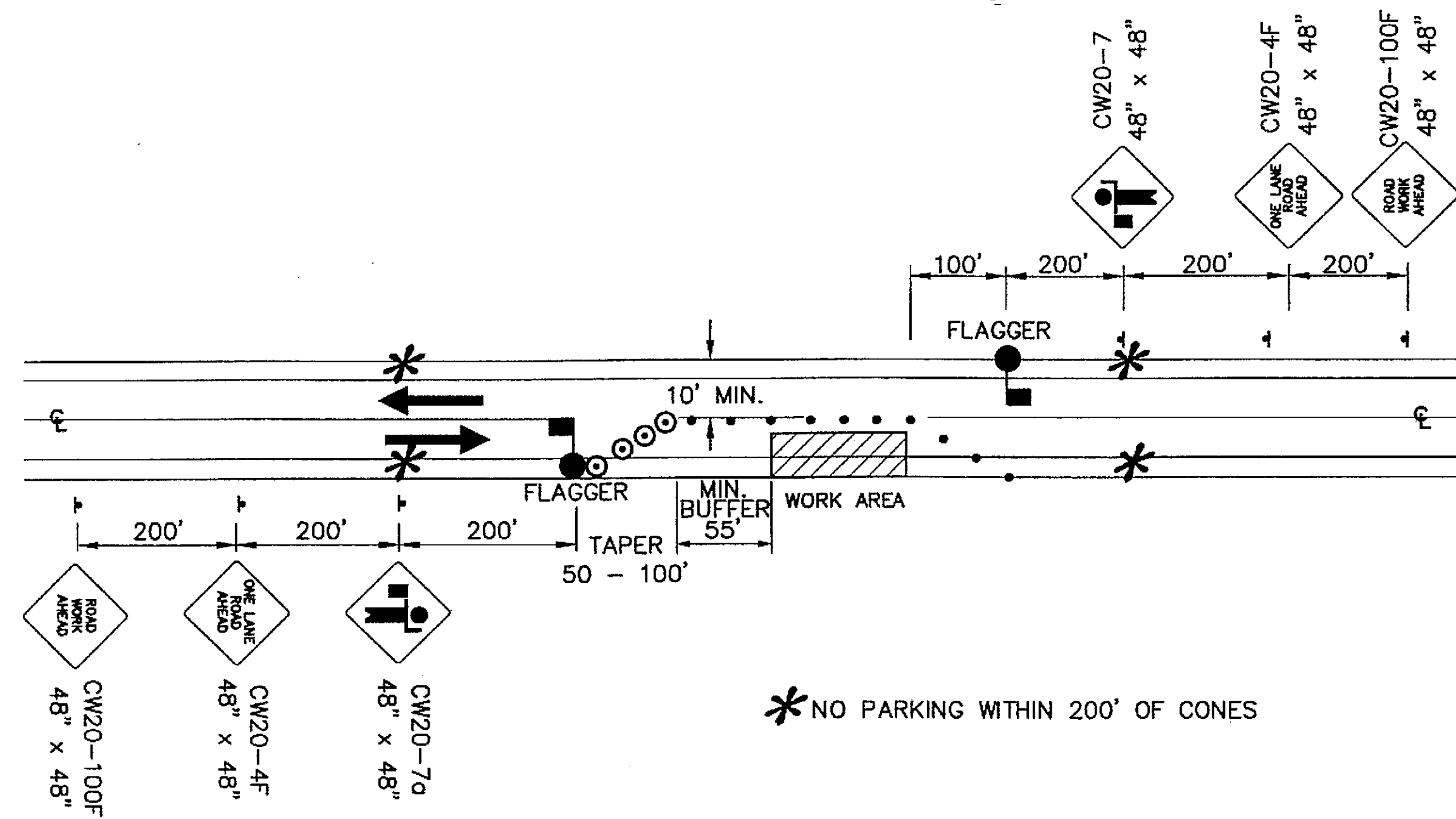
rsnyder

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

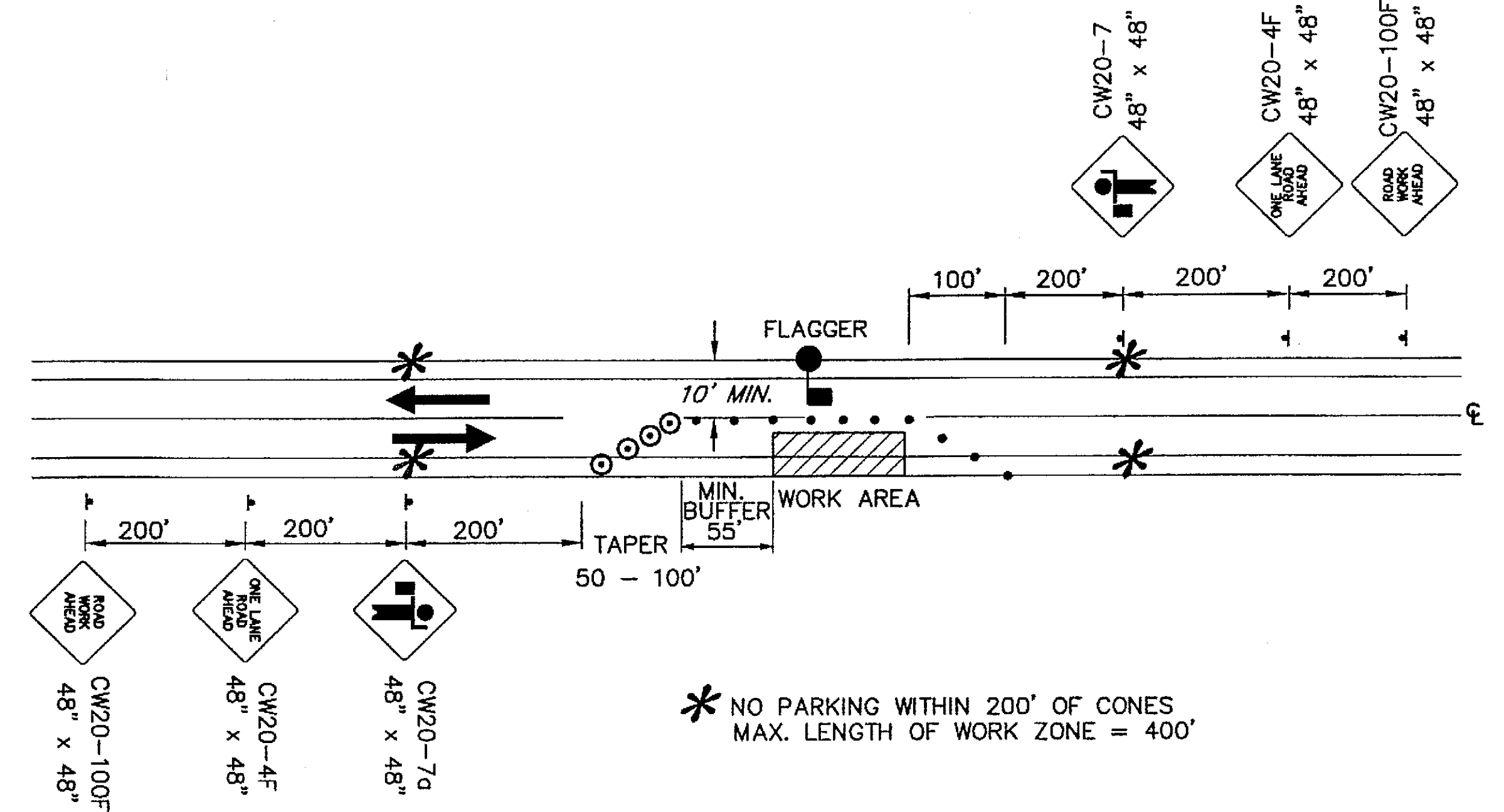
TRAFFIC CONTROL PLAN

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AIP NO. 3-02-0323-1004	2004	S1	43

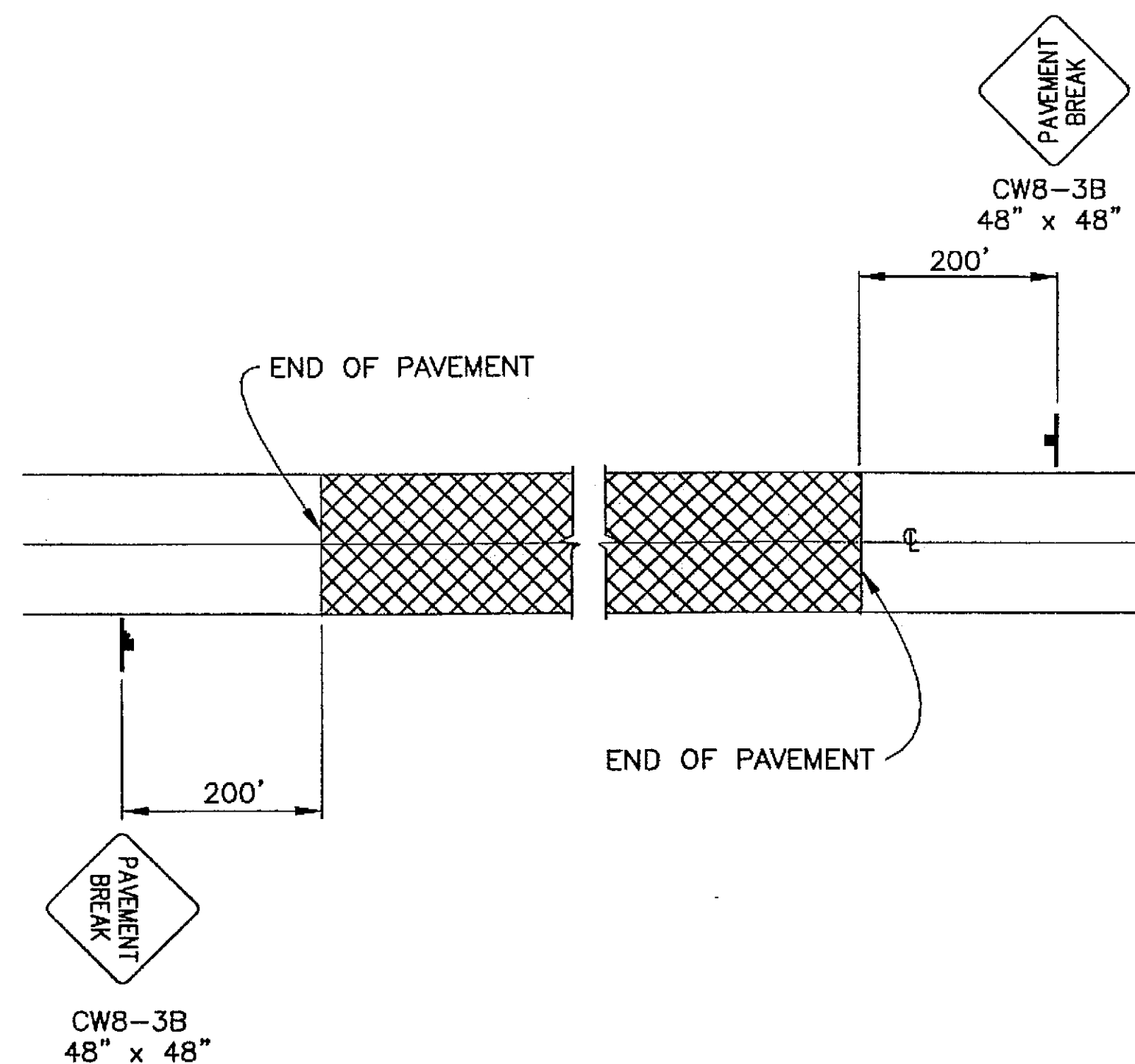
ASBUILT Filed



**Two Lane Road - Single Lane Closure
Double Flagger**



**Two Lane Road - Single Lane Closure
Single Flagger**



Signing For Special Areas

LEGEND

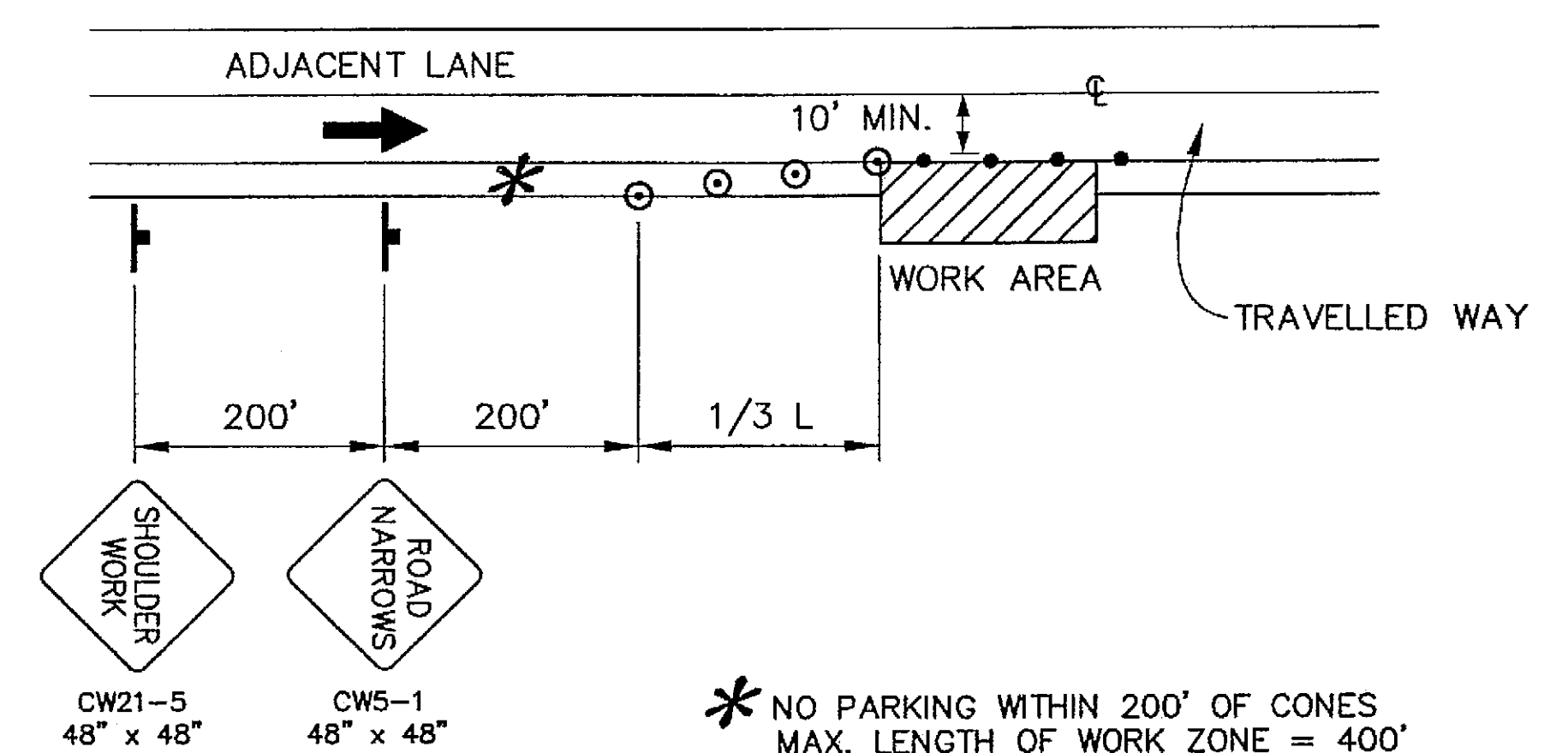
- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION

WHERE

L = LENGTH OF TAPER
W = WIDTH OF OFFSET
T = TAPER RATE
L = W x T

TCP TABLE SETUP

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

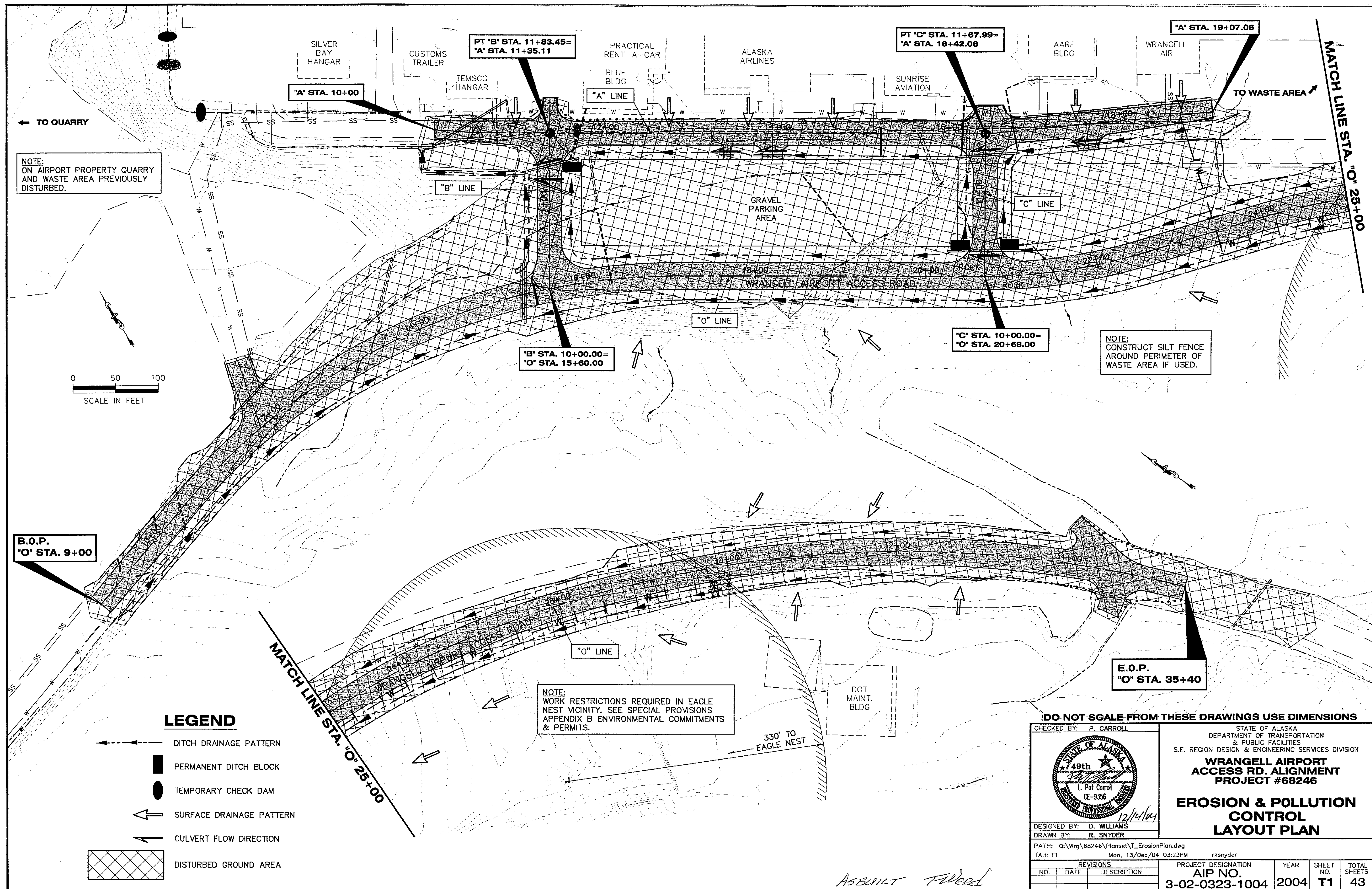


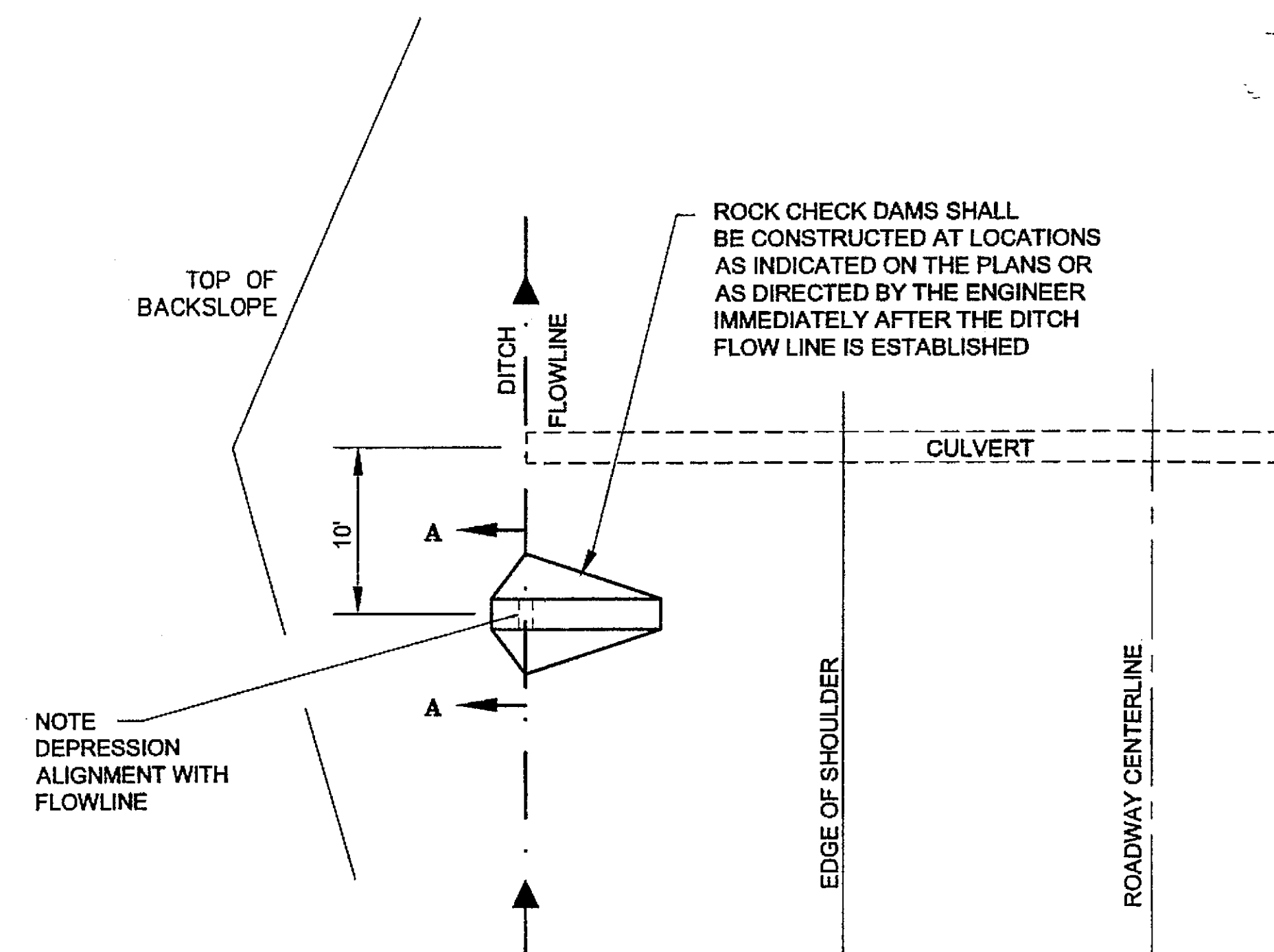
Shoulder Work

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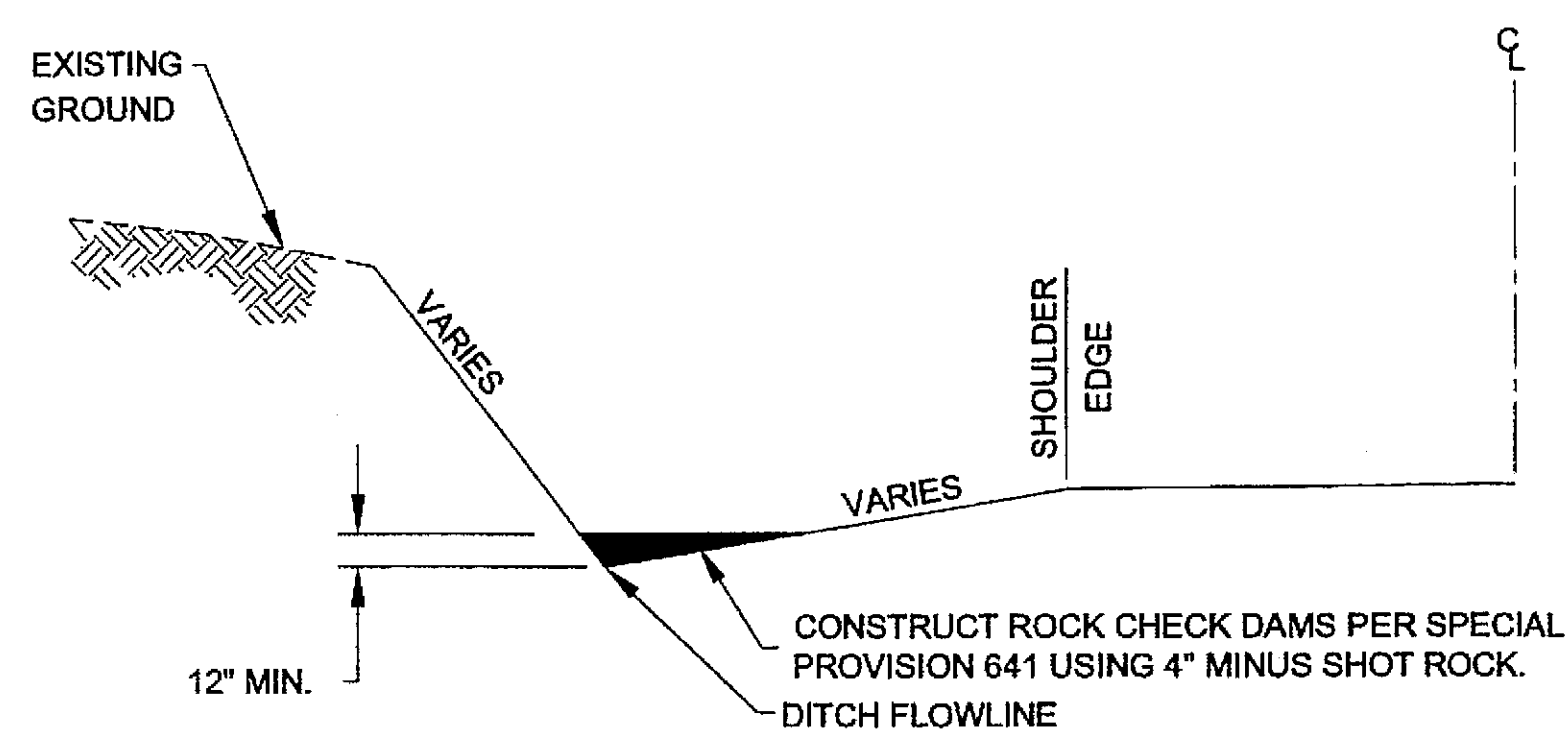
CHECKED BY: M. LUKSHIN DESIGNED BY: R. PURVES DRAWN BY: R. SNYDER PATH: Q:\Wrg\68246\Planset\S_TCP.dwg TAB: S2 Mon, 13/Dec/04 09:38AM rksnyder		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246	
TRAFFIC CONTROL PLAN		PROJECT DESIGNATION AIP NO. 3-02-0323-1004	
NO.	DATE	DESCRIPTION	YEAR 2004
SHEET NO. S2		TOTAL SHEETS 43	

ASBUILT *Free*

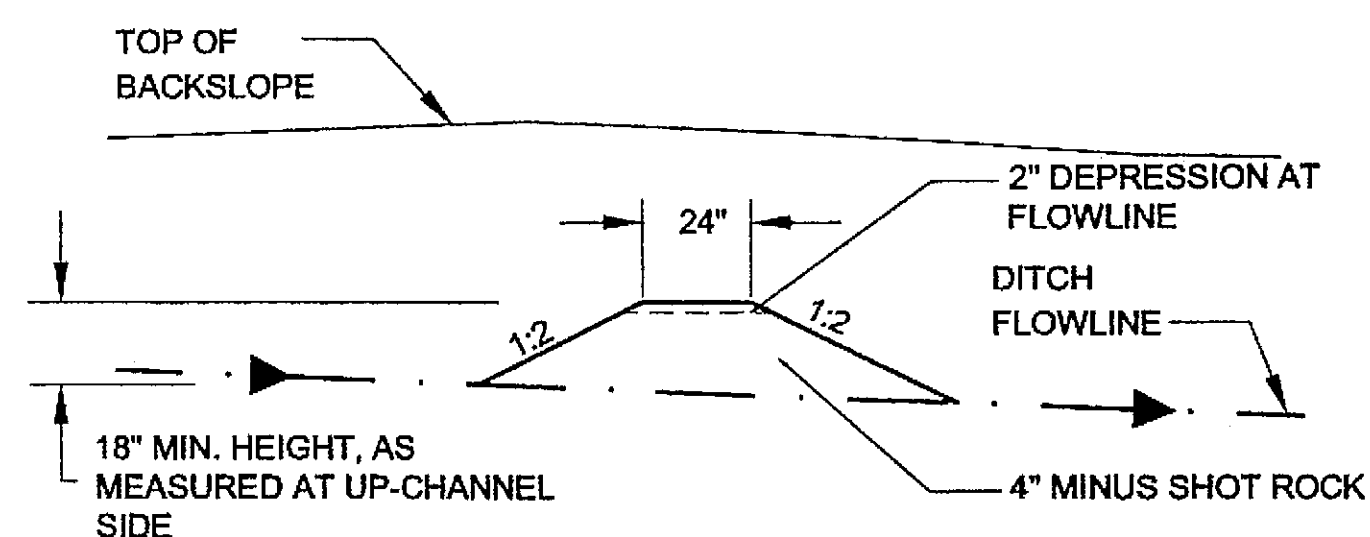




Plan



Elevation



Section A-A

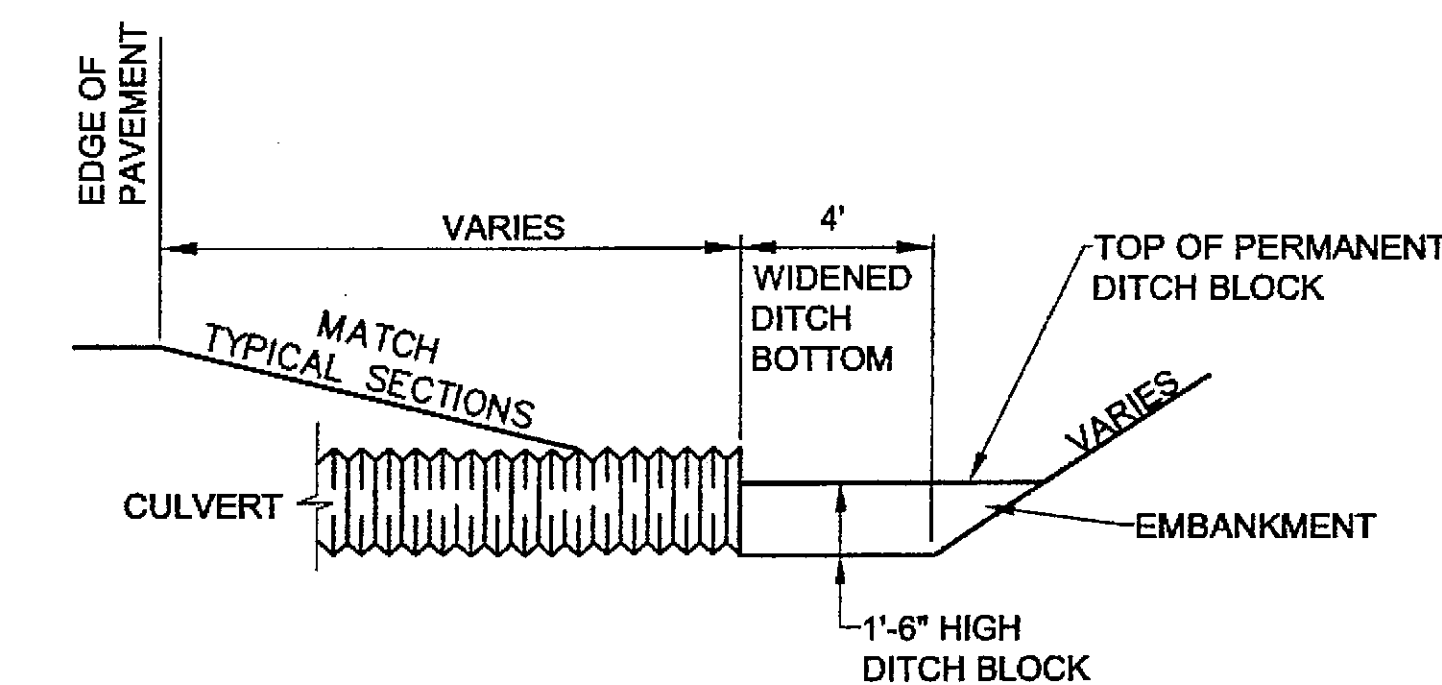
TEMPORARY CHECK DAM DETAILS

TOTAL AREA OF PROJECT:	8 ACRES
AREA OF DISTURBED GROUND:	8 ACRES
CLIMATE OF WRANGELL	
MEAN ANNUAL PRECIPITATION:	79.3 INCHES
WETTEST MONTH, AVERAGE:	OCT. 12.8 INCHES
DRIEST MONTH, AVERAGE:	JUNE 3.96 INCHES
MEAN ANNUAL SNOWFALL:	54.9 INCHES
MONTH OF MAX. SNOWFALL:	JAN. 17.8 INCHES

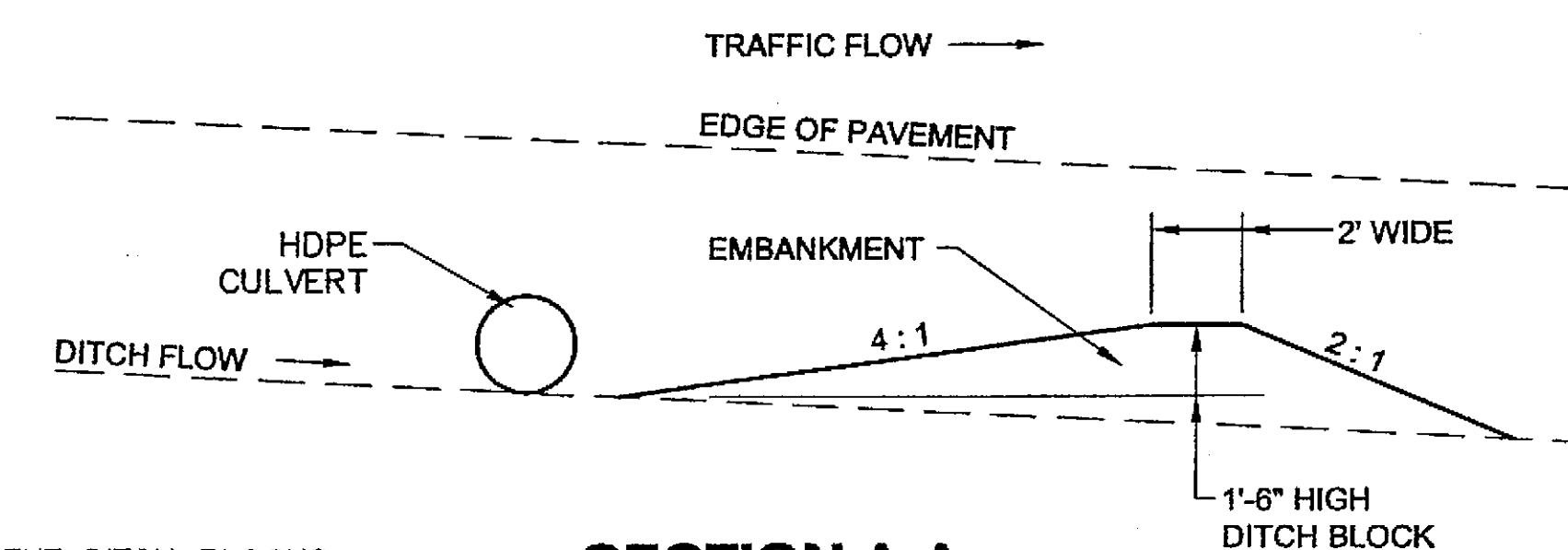
TEMPORARY CHECK DAM NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL DEVICES FOR EARTH DISTURBING ACTIVITIES.
2. MAINTAIN DEVICES. MONITOR DAILY. EXCAVATE CHECK DAMS WHEN 4" OR MORE SEDIMENT.
4. IF INSPECTION REVEALS WATER IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. ADDITIONAL CHECK DAMS MAY BE REQUIRED.
5. STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABILIZED SURFACES MUST BE TEMPORARILY STABILIZED WITH SEEDING OR OTHER EFFECTIVE MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL UNTIL PROJECT WORK AREAS ARE GRADED AND SEEDED AREAS HAVE ACHIEVED 70% VEGITATIVE COVER.
6. REFER TO PLAN SHEETS FOR LOCATION OF CHECK DAMS.

ASBUILT Filed

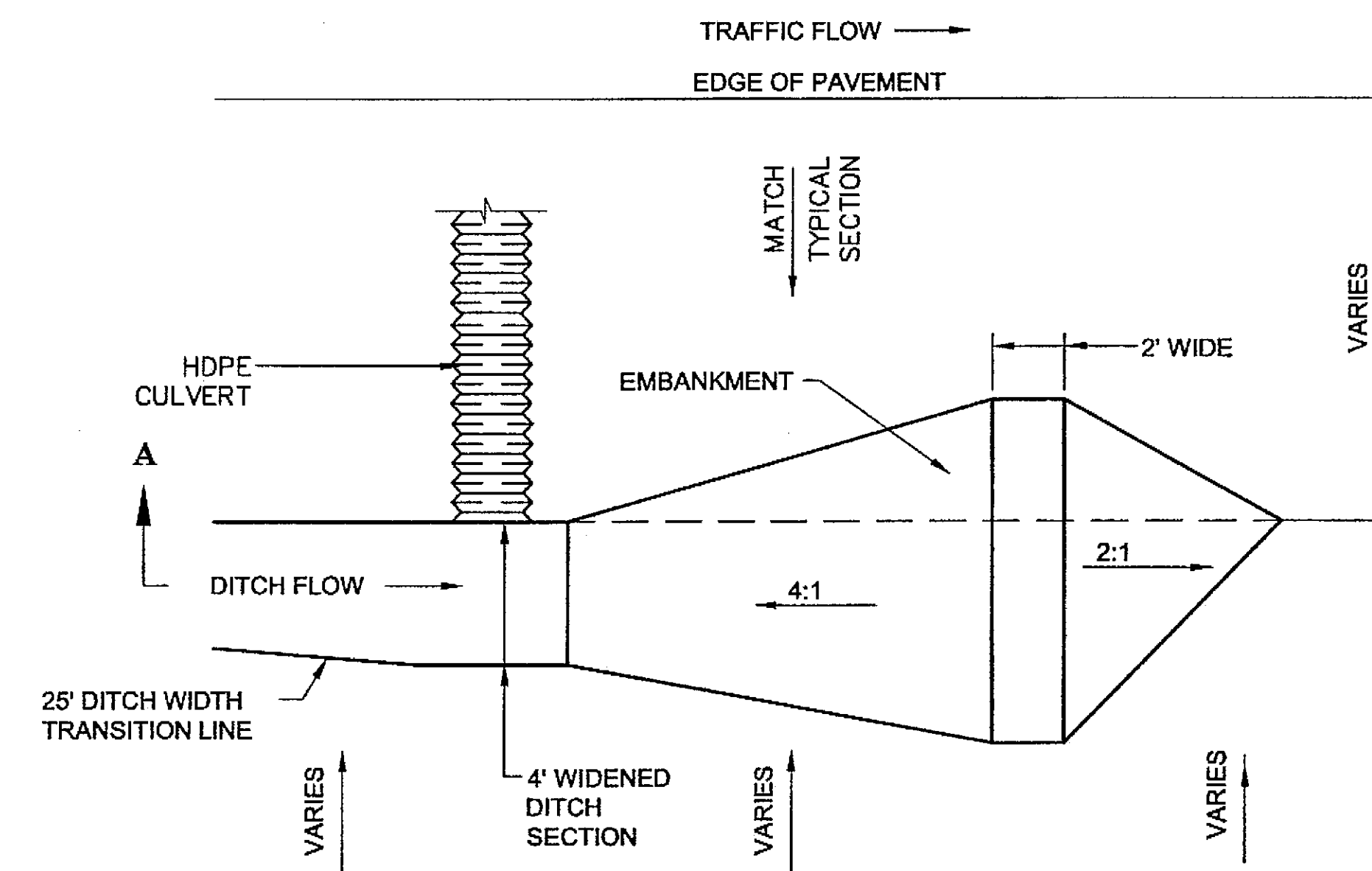


ELEVATION



SECTION A-A

NOTE:
PERMANENT DITCH BLOCKS
WILL BE MEASURED AND PAID
FOR UNDER ITEM 641(5)
TEMPORARY CHECK DAMS.



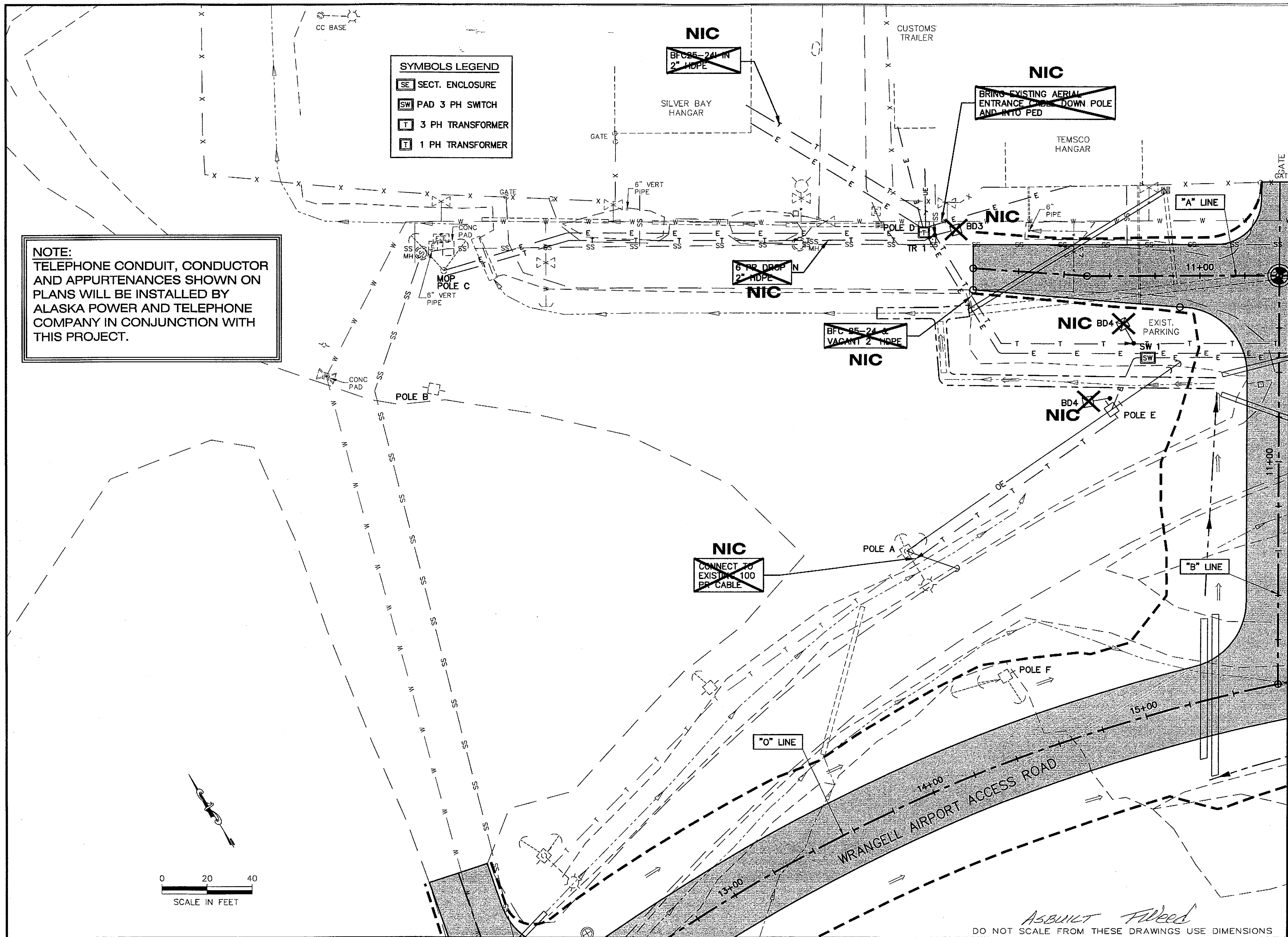
PLAN

PERMANENT DITCH BLOCK DETAILS

SEE SHEET T1 FOR LOCATIONS
N.T.S.

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CHECKED BY: P. CARROLL  DESIGNED BY: D. WILLIAMS DRAWN BY: R. SNYDER PATH: Q:\Wrg\68246\PlanSet\T_ErosionDets.dwg TAB: T2 Mon, 13/Dec/04 03:29PM rksnyder		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246 EROSION & POLLUTION CONTROL DETAILS	
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION AIP NO. 3-02-0323-1004	
YEAR 2004		SHEET NO. T2	
TOTAL SHEETS 43			



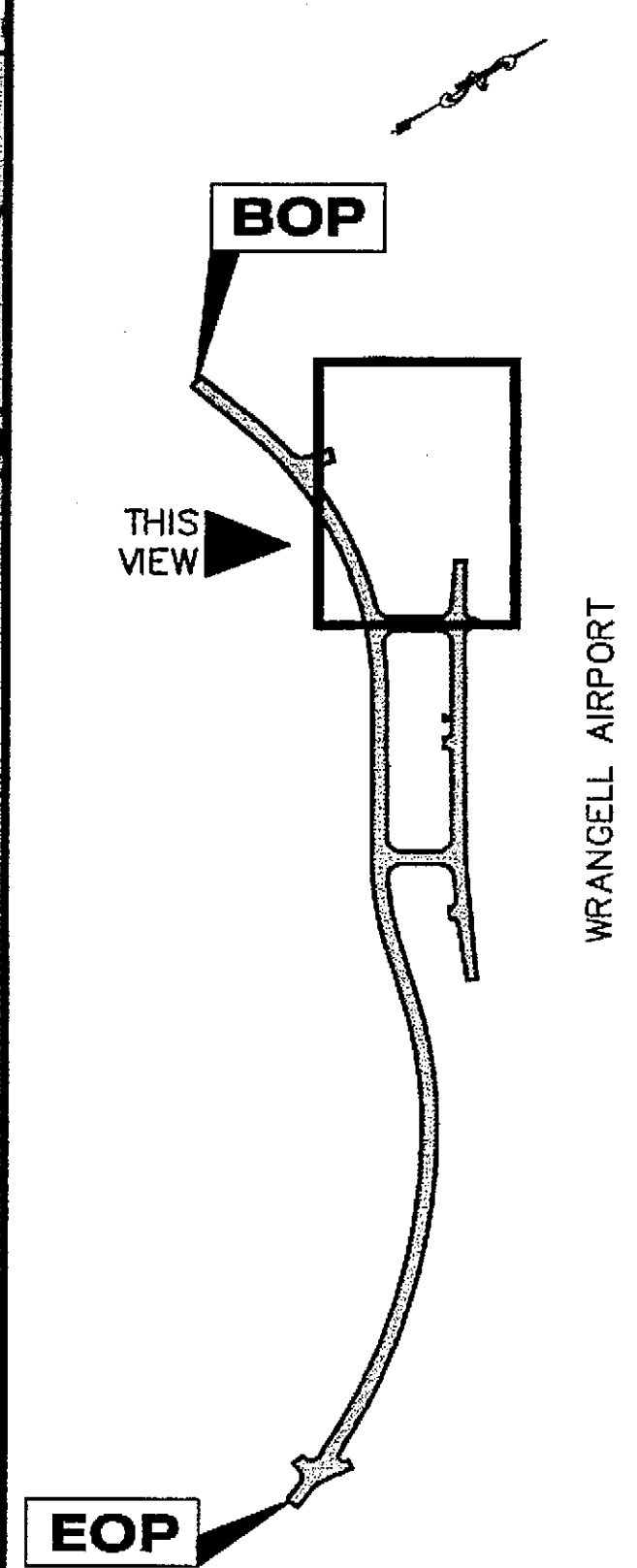
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Mon, 13/Dec/04 09:26AM rksnyder
TAB: U1

ADDENDUM NUMBER

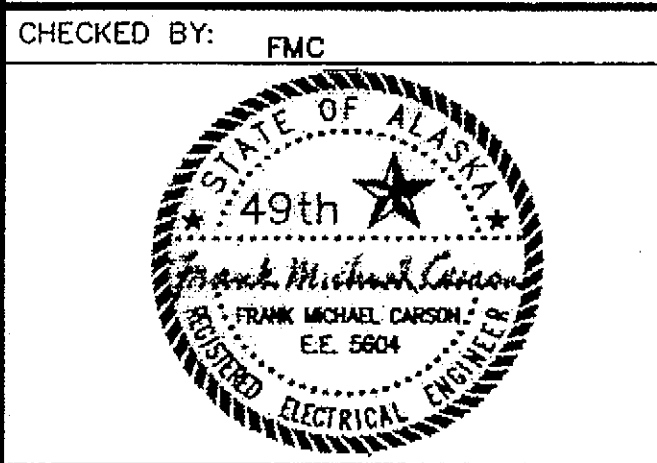
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	12/04	NIC WORK BY ADOT



PLAN LEGEND



DESIGNED BY: FMC

DRAWN BY: FMC/R. SNYDER

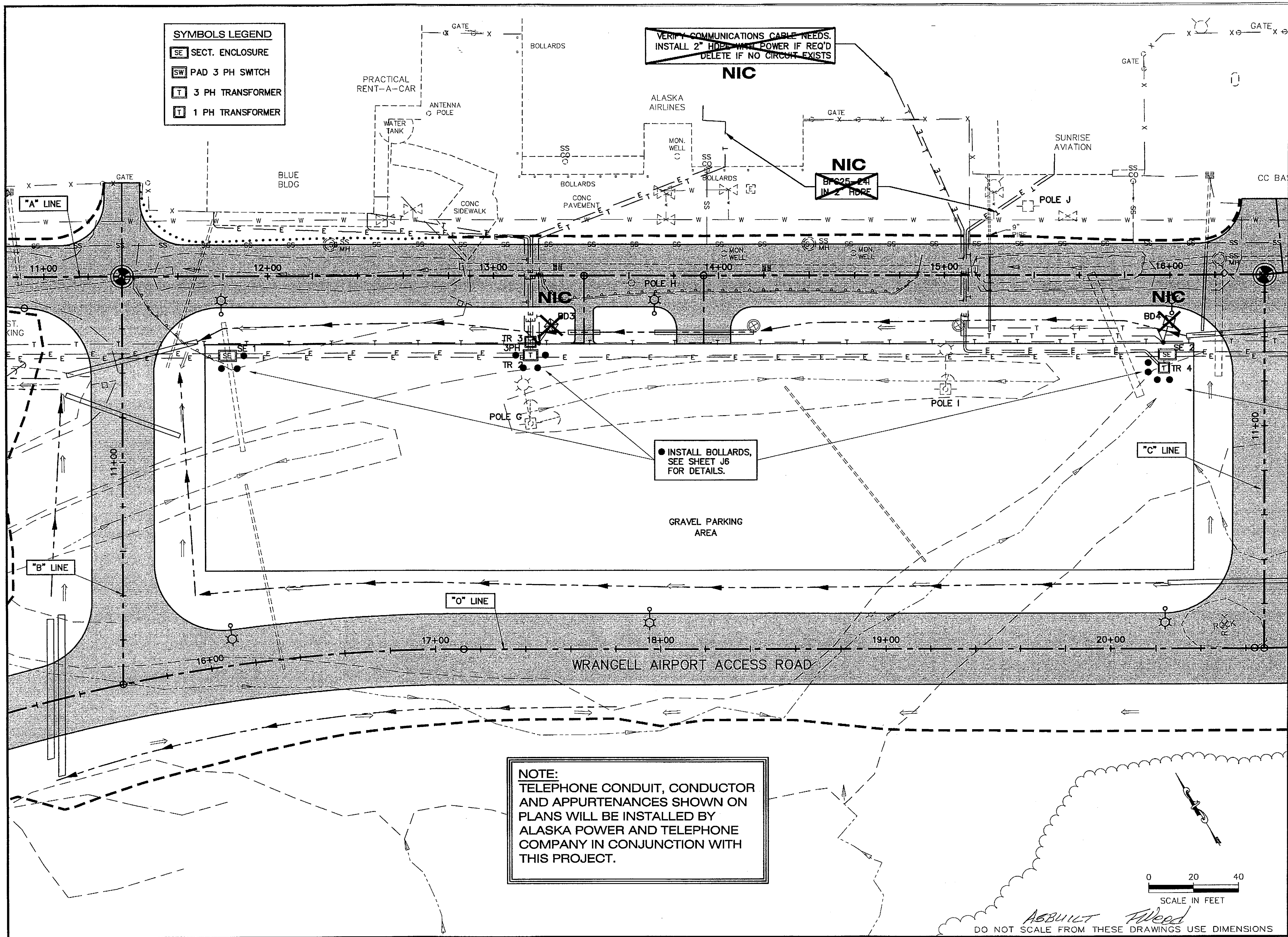
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246

WML&P UTILITY PLAN

PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
U1	43



PATH:
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Mon, 13/Dec/04 09:26AM rksnyder
TAB: U2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	12/04	NIC WORK BY ADOT

PLAN LEGEND

CHECKED BY: FMC

DESIGNED BY: FMC

DRAWN BY: FMC/R. SNYDER

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

WRANGELL AIRPORT ACCESS RD. ALIGNMENT PROJECT #68246

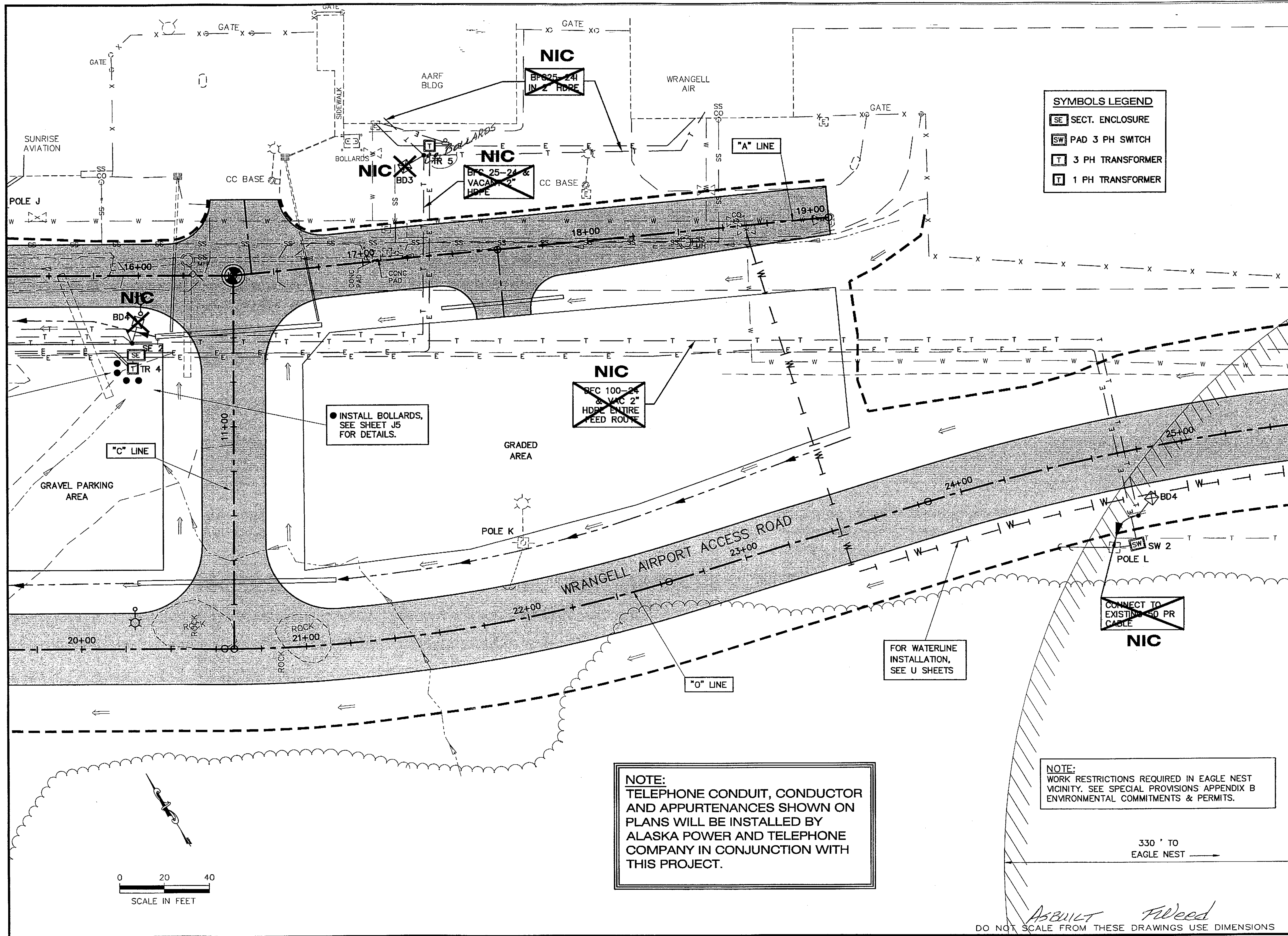
WML&P UTILITY PLAN

PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEETS
U2	43



PATH:
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Mon, 13/Dec/04 09:27AM rksnyder

TAB: U3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	12/04	NIC WORK BY ADOT

BOP

EOP

THIS VIEW

WRANGELL AIRPORT

OVERHEAD DISTRIBUTION LINE STAKING TABLE

PROJECT: 68246 DOT WRANGELL AIRPORT ACCESS ROAD ELECTRICAL RELOCATION DESIGN

NORTHSTAR POWER ENGINEERING

VOLTAGE: 14.4/24.9 kV GROUNDED WYE

LOCATION- AIRPORT LOOP ROAD

STAKED:

DISTRIBUTION CONDUCTOR: 1/0 AWG ACSE

RULING SPAN-

RELEASED-

DESIGN DATE: 7/30/2004

MAR. REFERENCE-

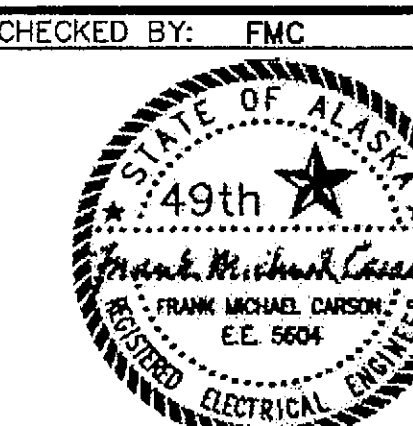
[illegible]

() INDICATES EXISTING UNITS

* INDICATES REMOVAL UNITS

}} INDICATES REMOVE & INSTALL UNITS

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STATE OF ALASKA
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S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

WML&P OVERHEAD DISTRIBUTION LINE STAKING TABLE

DESIGNED BY: EMC

DRAWN BY: FMC/R. SNYDER

PATH: Q:\Wra\68246\Planset\U_ElecTelePlan.dwg

TAB: U4

Mon, 13/Dec/04 09:27AM rksnyder

REVISIONS

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION

AIP NO

	YEAR
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1971	1971
1972	1972
1973	1973
1974	1974
1975	1975
1976	1976
1977	1977
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2098	2098
2099	2099
2100	2100

YEAR

SHEET	
-------	--

SHEET	NO.
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TOTAL

TOTAL
SHEETS

UNDERGROUND DISTRIBUTION CABLE IN CONDUIT STAKING TABLE

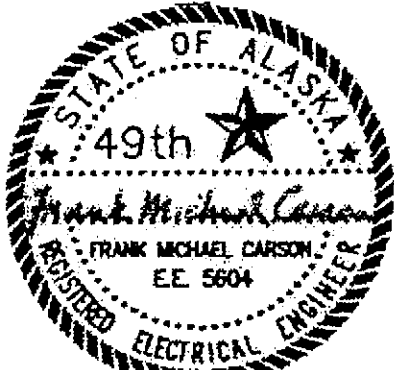
NORTHSTAR POWER ENGINEERING																											
PROJECT: 68246 DOT WRANGELL AIRPORT ACCESS ROAD ELECTRICAL RELOCATION DESIGN														VOLTAGE: 14.4/24.9 kV GROUNDED WYE							LOCATION: AIRPORT LOOP ROAD						
STAKED:														DISTRIBUTION CABLE: 1/0 AWG CU 25 kV JCN							RULING SPAN:						
RELEASED:														DESIGN DATE: 7/30/2004							MAP REFERENCE:						
EQUIPMENT NUMBER	STATION	OFFSET	PRI. EQUIPMENT		PAD/VAULT		PRIMARY					MISC UNIT	GROUND	CONDUIT				TRENCH		SECONDARY				SERVICE		REMARKS	
			UNIT	MODEL	TYPE	SIZE	ELEV	NO.	CABLE	LENGTH	TERMINATION			NO.	SIZE	TYPE	LENGTH	DEPTH	LENGTH	SEC. EQUIP.	CABLE	TYPE	LENGTH	UNIT	METER/DS		
TERM. POLE	10+61.14	60.00 RT	UC 2	200A CO																						3/200A 27 kV CUTOUTS	
SW 1	10+77.04	36.75 LT	UM3E-3	600A SF6	UV 575	56"x84"	FG	3	1/0 CU UROJ	270	6/UM6-1 6/UM6-13		UM48-5	1	5" PVC	SH 40	40	48"	32								600A 27 kV SF6 LOAD BREAK SWITCH
SE 1	11+81.97	35.75 RT	UM 33	200A 3PH	UV 575	56"x84"	FG	3	1/0 CU UROJ	390	10/UM6-1 2/UM6-10 3/UM6-15 3/UM6-22		UM48-2	1	5" PVC	SH 40	110	48"	105								200A 27 kV FOUR POSITION JUNCTION
TR 1	9+77.73	15.61 LT	UG 7	50 kVA	UM1-6C	48"x48"	FG	1	1/0 CU UROJ	260	1/UM6-1 1/UM6-7 1/UM6-13	3/UJ2	UM48-2	1	4" PVC	SH 40	240	48"	130								50 kVA 120/240 V 1PH TRANSFORMER
													2/UM6-6	1	2" PVC	SH 40	220	36"	215		2/0 CU	TRI	240	UM 8	100A	PUMP STATION	
													2/UM6-6	1	2" PVC	SH 40	100	36"	91		#2 CU	TRI	120	UM 8	100A	SILVER BAY HANGAR	
													2/UM6-6	1	2" PVC	SH 40	60	36"	48		(#2 CU)	TRI	80	UM 8	100A	US CUSTOMS	
													2/UM6-6	1	2" PVC	SH 40	30	36"	24		(2/0 CU)	TRI	50	(UM 8)	(200A)	RUNWAY LIGHTS	
													2/UM6-6	1	2" PVC	SH 40	80	36"	69		2/0 CU	TRI	100	UM 8	200A	TEMSCO HANGAR	
TR 2	13+16.37	35.75 RT	UG 17-3	75 kVA	UM1-6C	78"x66"	FG	3	1/0 CU UROJ	480	4/UM6-1 2/UM6-7 4/UM6-13	4/UJ2	UM48-2	1	5" PVC	SH 40	140										75 kVA 240 V 3PH TRANSFORMER WITH 120 V MIDTAP
													2/UM6-6	1	2" PVC	SH 40	210	36"	199		3/0 CU	QPLEX	230	UM 8	200A	TEMSCO HANGAR	
													2/UM6-6	1	2" PVC	SH 40	150	36"	85		3/0 CU	QPLEX	170	UM 8	200A	ALASKA AIR CARGO	
TR 3	13+16.37	29.75 RT	UG 7	37.5 kVA	UM1-6C	48"x48"	FG	1	1/0 CU UROJ	30	1/UM6-1 1/UM6-7 1/UM6-13	3/UJ2	UM48-2	1	3" PVC	SH 40	10	48"	6								37.5 kVA 120/240 V 1PH TRANSFORMER
													2/UM6-6	1	3" PVC	SH 40	135	36"	6		350 CU	TRI	160	3/UM 8	3/200A	TEMSCO HANGER/PRACTICAL CAR RENTAL INSTALL WIREWAY TO GANG METERS	
SE 2	15+98.97	35.75 RT	UM 33	200A 3PH	UV 575	56"x84"	FG	3	1/0 CU UROJ	1320	8/UM6-1 4/UM6-10 3/UM6-15 3/UM6-22		UM48-2	1	5" PVC	SH 40	420	48"	417								200A 27 kV FOUR POSITION JUNCTION
TR 4	15+97.47	41.75 RT	UG 7	75 kVA	UM1-6C	48"x48"	FG	1	1/0 CU UROJ	30	1/UM6-1 1/UM6-7 1/UM6-13	3/UJ2	UM48-2	1	3" PVC	SH 40	10	48"	6								75 kVA 120/240 V 1 PH TRANSFORMER
													2/UM6-6	1	2" PVC	SH 40	250	36"	158		#2 CU	TRI	270	UM 8	100A	ALASKA AIRLINES STORAGE	
													2/UM6-6	1	2" PVC	SH 40	200	36"	53		2/0 CU	TRI	220	UM 8	200A	SUNRISE AVIATION	
TR 5	17+34.63	49.01 LT	{UG 7}	{100 kVA}	UM1-6C	60"x60"	FG	1	1/0 CU UROJ	250	1/UM6-1 (1/UM6-7) (1/UM6-13)	(3/UJ2)	UM48-2	1	4" PVC	SH 40	230	48"	92								RELOCATE EXISTING 100 kVA TRANSFORMER
													2/UM6-6	1	3" PVC	SH 40	40	36"	29		500 CU	TRI	60	(UM 8)	(400A)	DOT ARFF VEHICLE BLDG. FAULT CURRENT 16 KA	
													2/UM6-6	1	1.5"PVC	SH 40	50	36"	38		#2 CU	TRI	70	UM8-2	{100A}	RELOCATE AIRPORT LIGHT LOAD CENTER	
													2/UM6-6	1	2" PVC	SH 40	130	36"	188		#2 CU	TRI	150	(UM 8)	(100A)	WRANGELL AIR HANGER	
SW 1	24+71.76	41.80 RT	UM3E-3	600A SF6	UV 575	56"x84"	EG	3	1/0 CU UROJ	1590	6/UM6-1 6/UM6-13		UM48-5	1	5" PVC	SH 40	510	48"	501								600A 27 kV SF6 LOAD BREAK SWITCH
TERM. POLE	24+61.31	41.22 RT	UC 2	200A CO				3	1/0 CU UROJ	180				1	5" PVC	SH 40	20	48"	10								3/200A 27 kV CUTOUTS

() INDICATES EXISTING UNITS
* INDICATES REMOVAL UNITS
{ } INDICATES REMOVE & INSTALL UNITS

ASBUILT *filed*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: FMC



DESIGNED BY: FMC
DRAWN BY: FMC/R. SNYDER

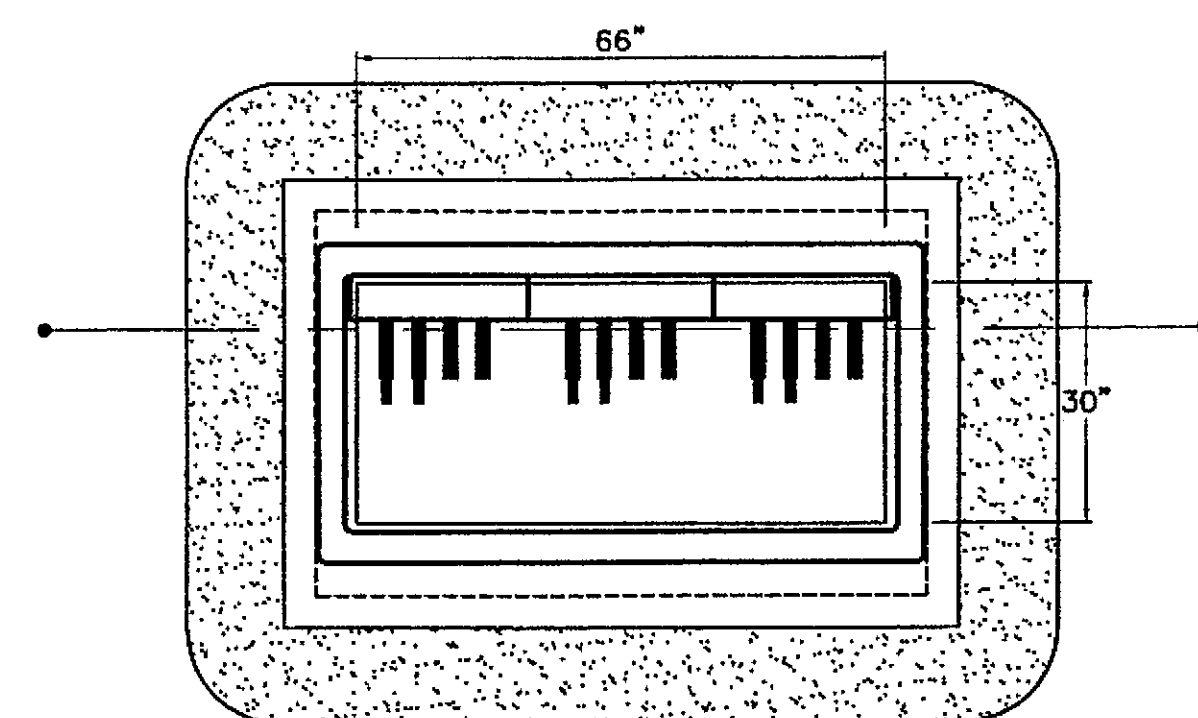
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TAB: US Mon, 13/Dec/04 09:27AM rksnyder

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			AIP NO. 3-02-0323-1004	2004	U5	43

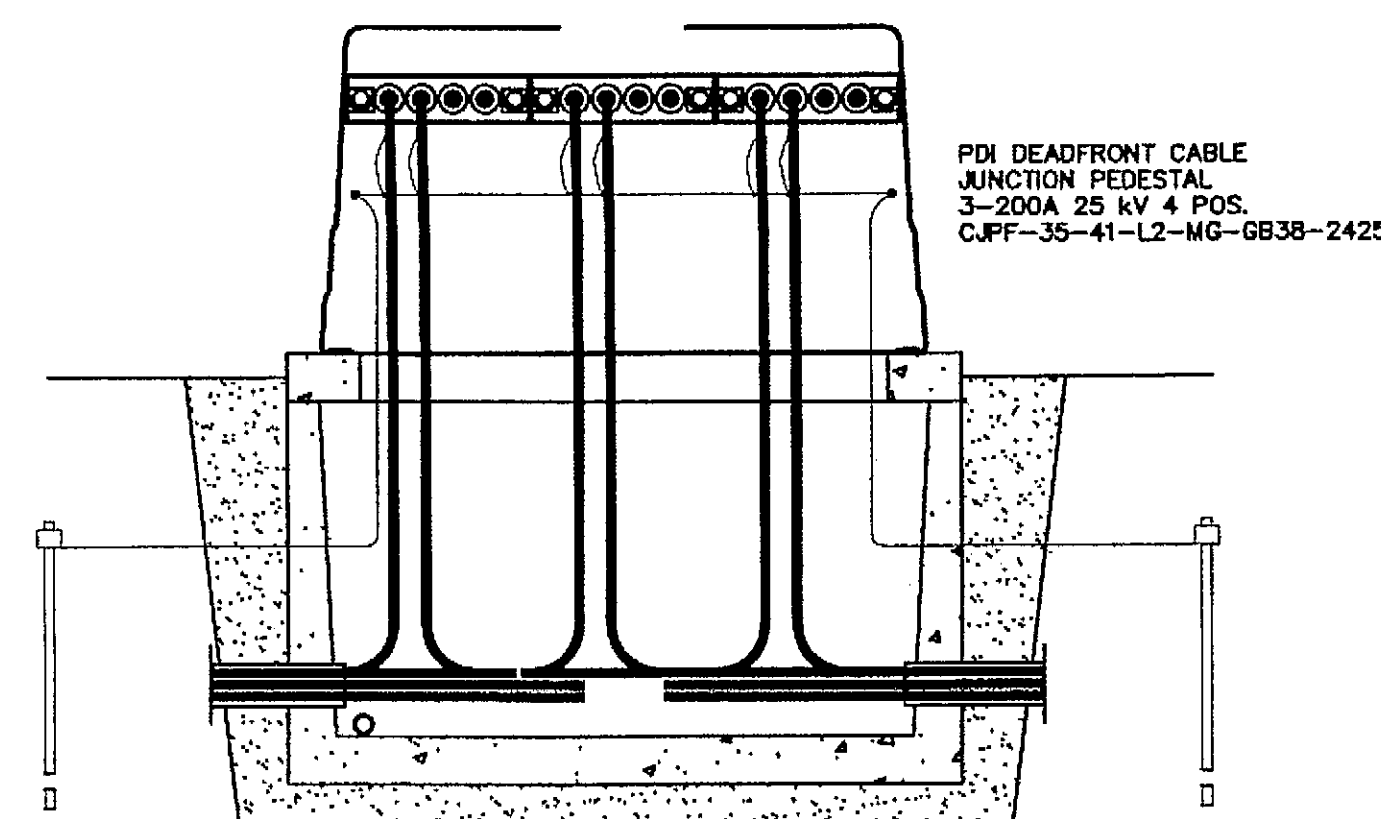
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

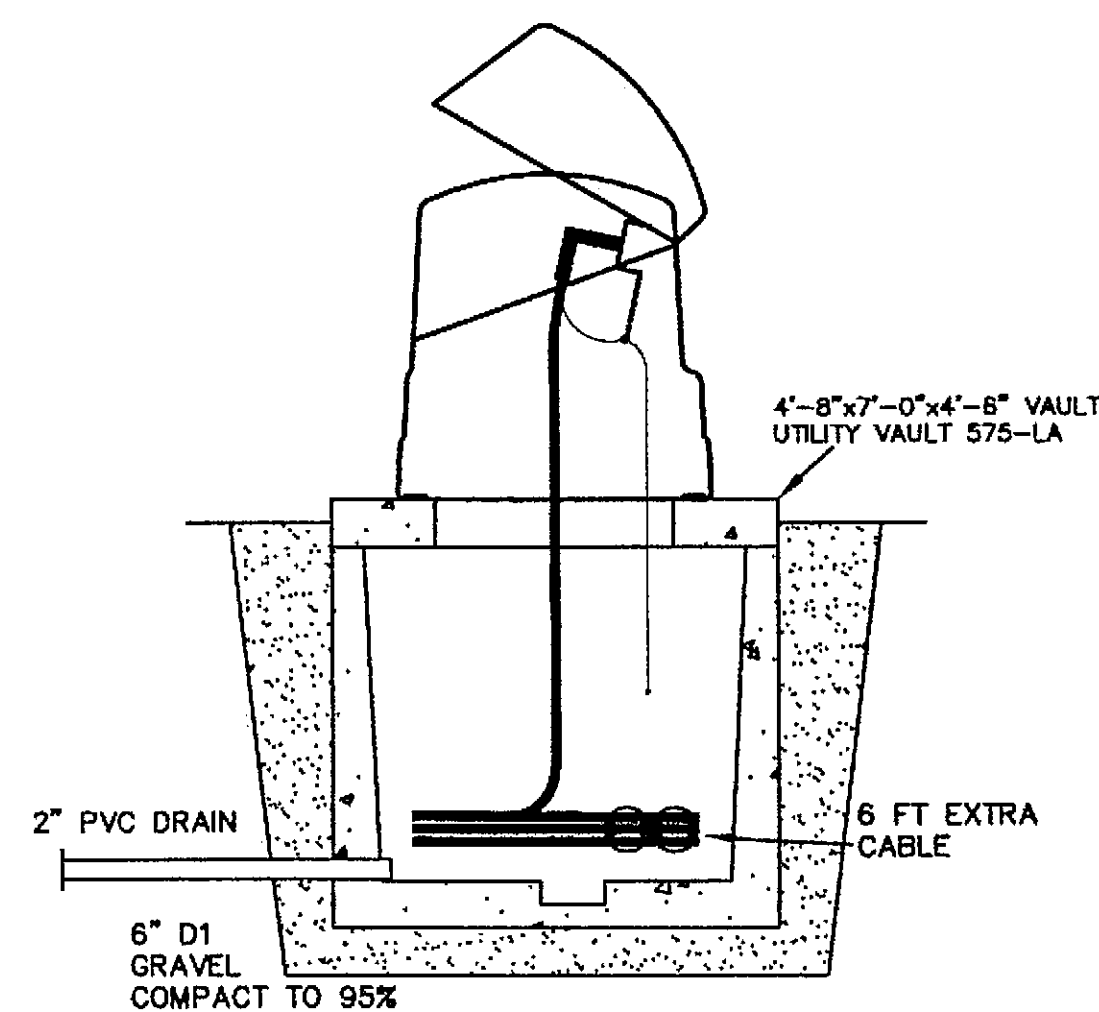
**WML&P
UNDERGROUND DISTRIBUTION
CABLE IN CONDUIT
STAKING TABLE**



TOP VIEW

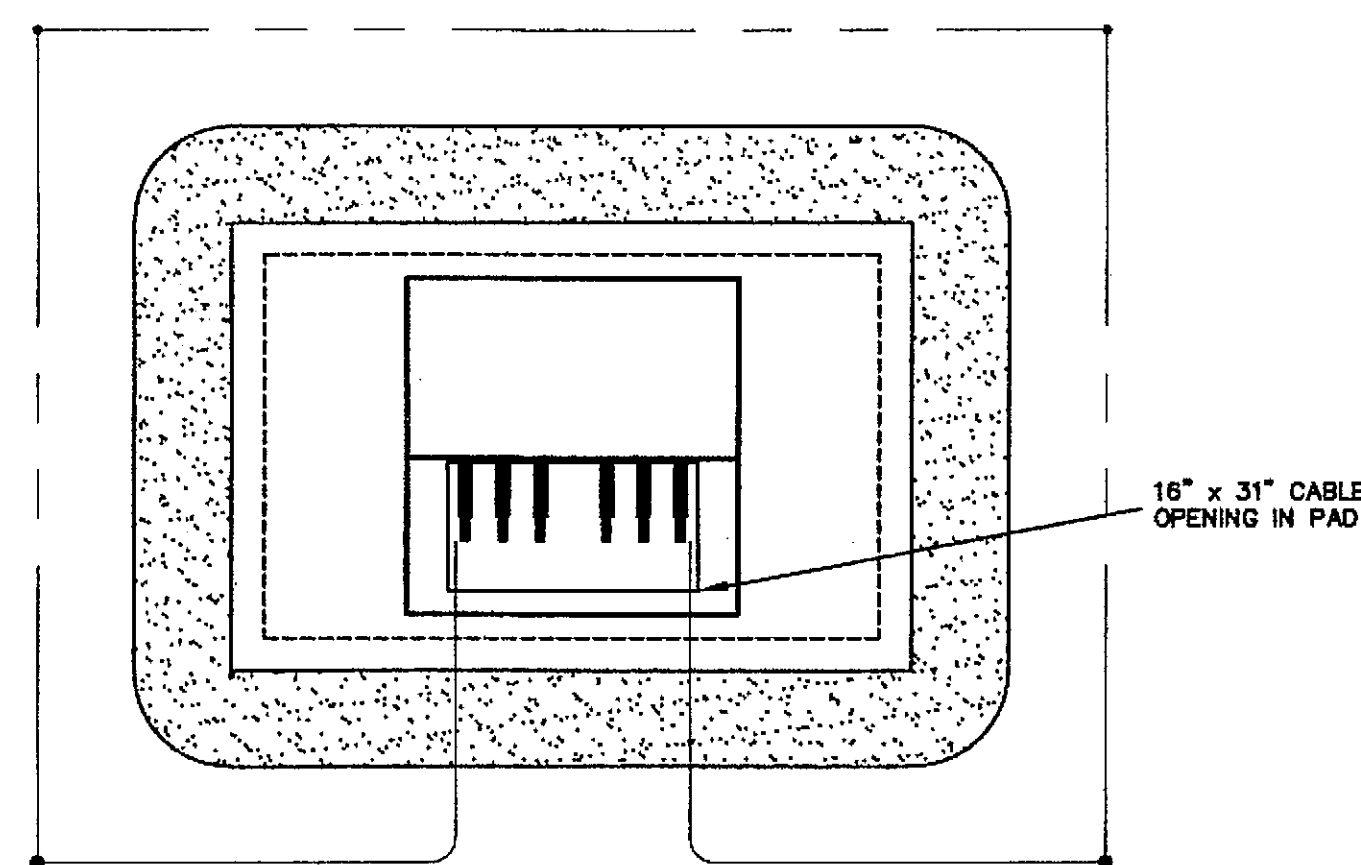


FRONT VIEW

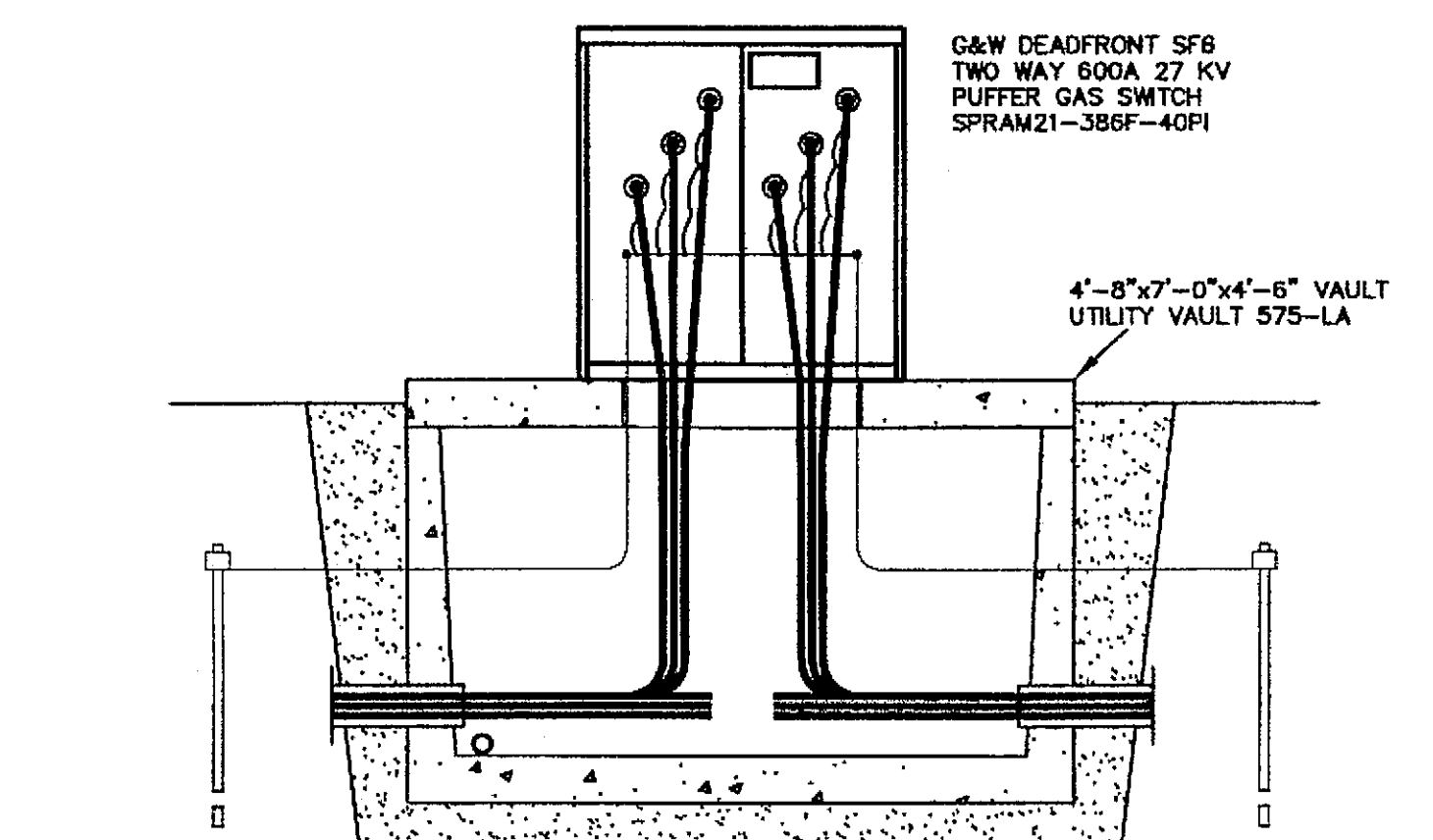


END VIEW

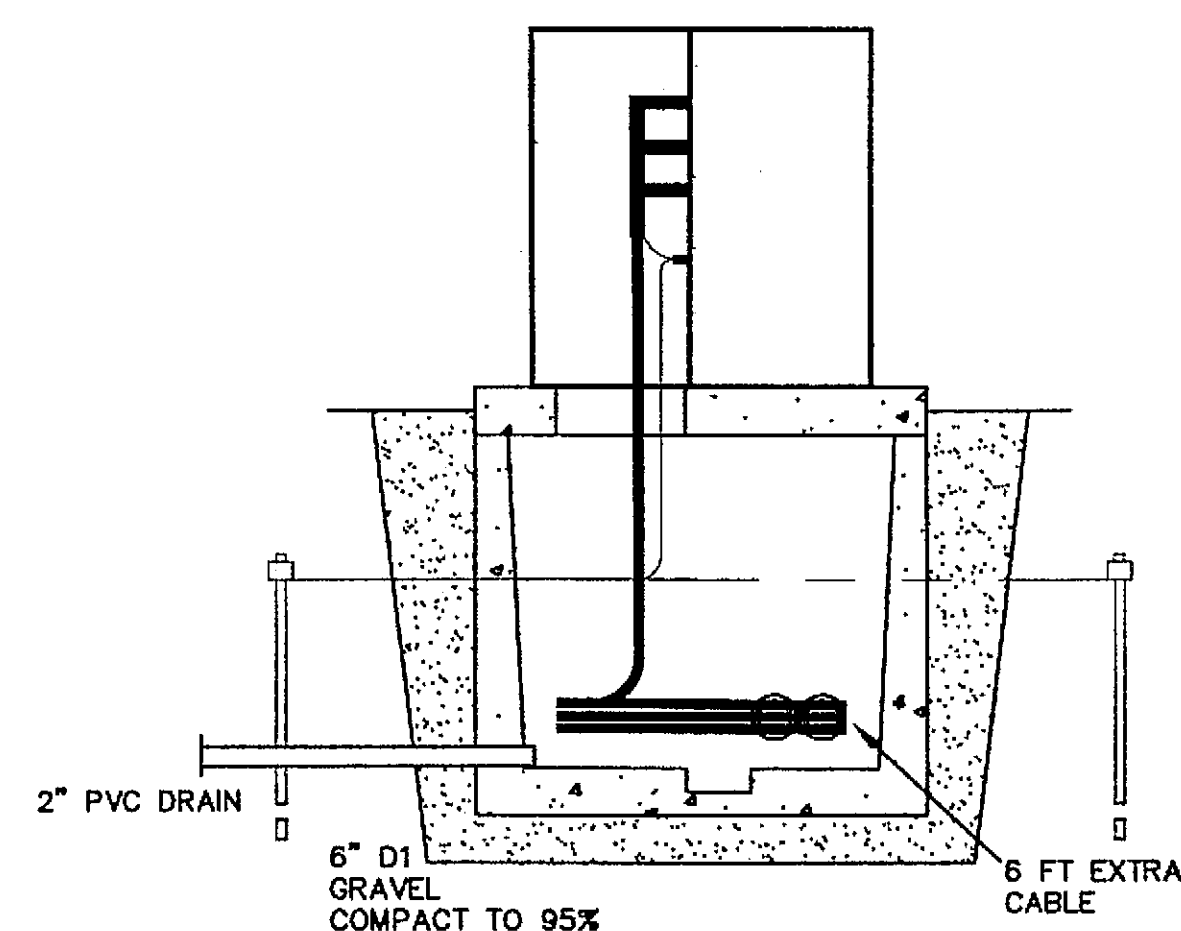
SECTIONALIZING ENCLOSURE DETAIL



TOP VIEW



FRONT VIEW

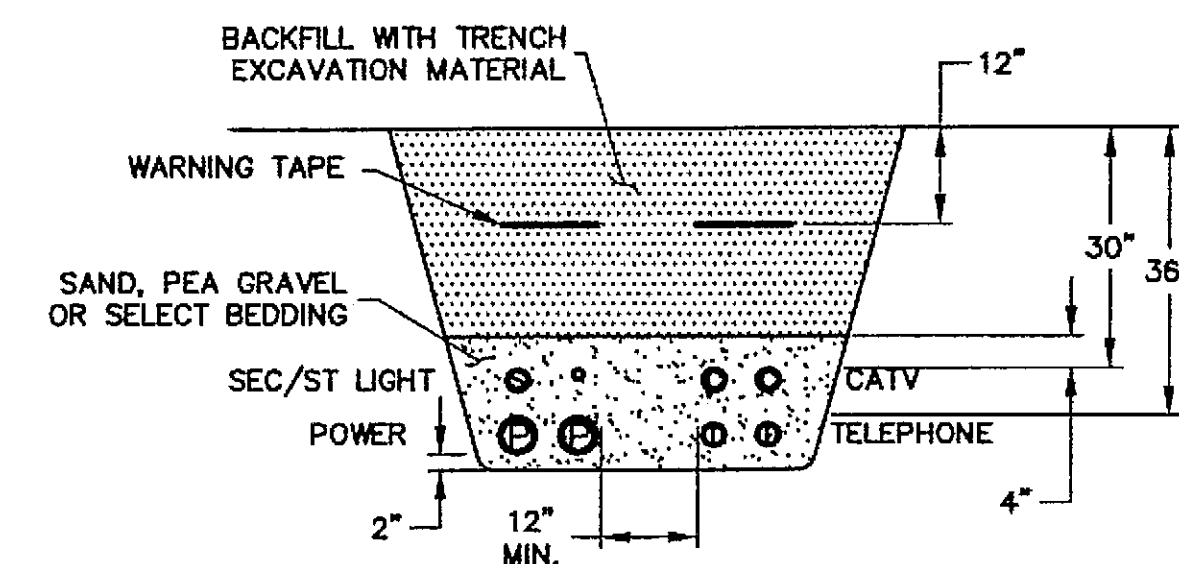


END VIEW

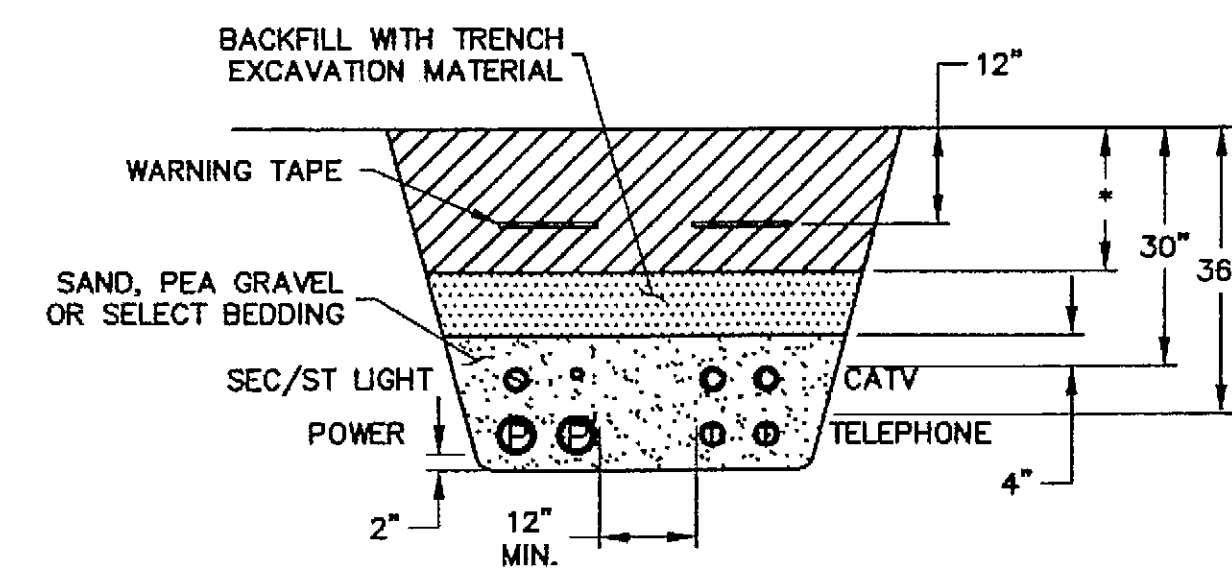
PAD MOUNTED SF6 SWITCH DETAIL

NOTES:

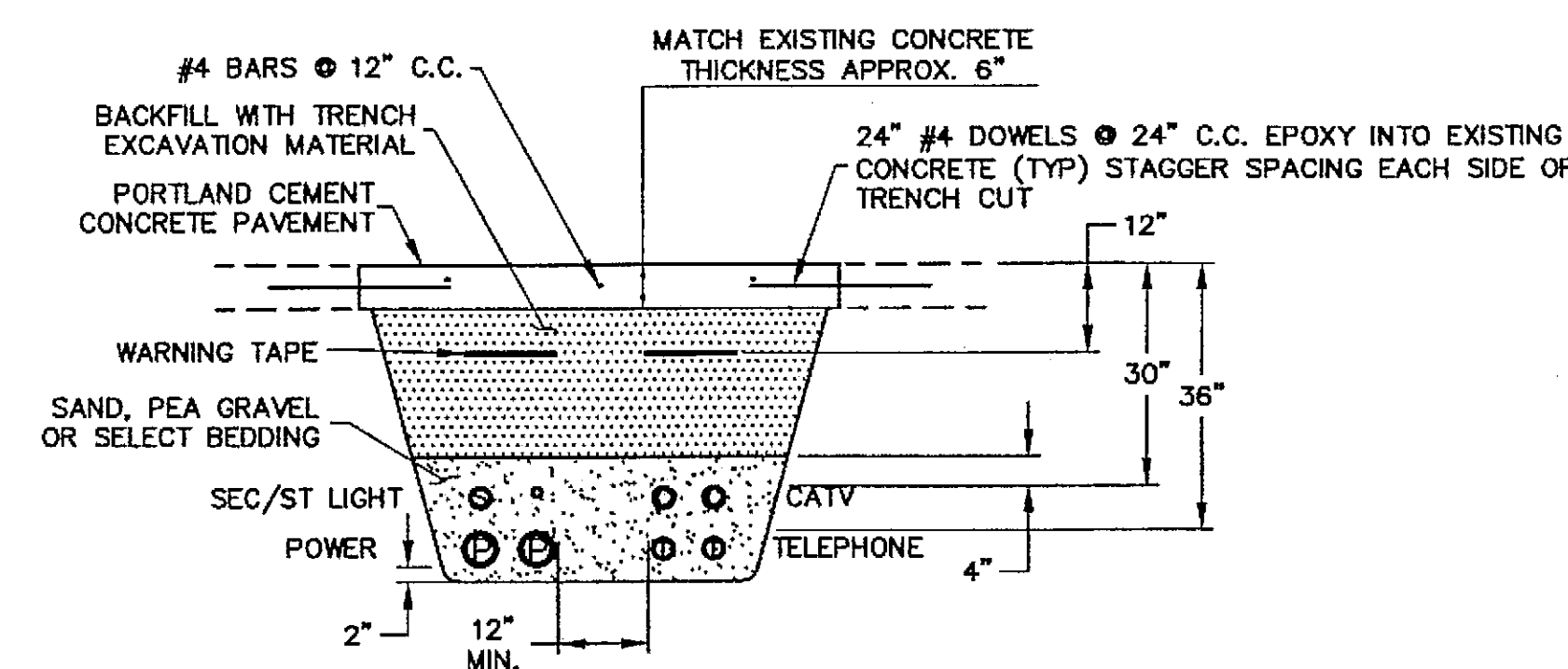
- CONTRACTOR SHALL INSTALL ADOT SPEC D1 GRAVEL UNDER VAULTS AND OTHER ELECTRICAL EQUIPMENT. FINISHED ELEVATION SHALL BE ABOVE THE ADJACENT TERRAIN. FILL SHALL BE COMPACTED TO 95%. EQUIPMENT SHALL NOT BE PLACED IN LOW AREAS WHERE STORM WATER CAN ACCUMULATE.
- ELECTRICAL CONDUITS SHALL BE INSTALLED AT LEAST 48" BELOW GRADE IN ROADWAY PRISM AND AT LEAST 36" BELOW GRADE IN RIGHT OF WAY MEASURED TO THE TOP OF THE CONDUITS. CONTRACTOR SHALL COORDINATE CONDUIT AND VAULT INSTALLATION WITH ROAD AND STORM DRAIN INSTALLATION.
- CONSTRUCTION SHALL CONFORM TO THE NESC AND WRANGELL MUNICIPAL LIGHT AND POWER'S REQUIREMENTS FOR UNDERGROUND POWER DISTRIBUTION SYSTEMS.
- INSTALL 2" PVC DRAIN IN ALL CONCRETE VAULTS. ROUTE DRAIN TO NEAREST STORM SEWER OR DAYLIGHT AT NEAREST AVAILABLE DRAINAGE DITCH.
- ALL METALLIC ENCLOSURES, VAULT COVERS AND JUNCTION BRACKETS SHALL BE GROUNDED TO THE VAULT GROUNDING RING.
- COMMUNICATIONS CONDUITS WILL BE INSTALLED BY ALASKA POWER AND TELEPHONE COMPANY AND GENERAL COMMUNICATIONS.



SECTION
ALL AREAS - SEE EXCEPTIONS BELOW



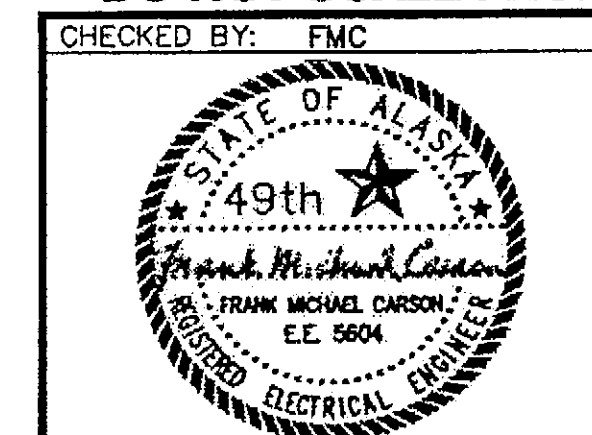
SECTION
IN PAVED AREA AND OTHER AREAS
DEFINED BY TYPICAL SECTIONS



SECTION
CONCRETE PAVEMENT AREA

TRENCH/CONDUIT DETAILS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

WML&P UTILITY DETAILS

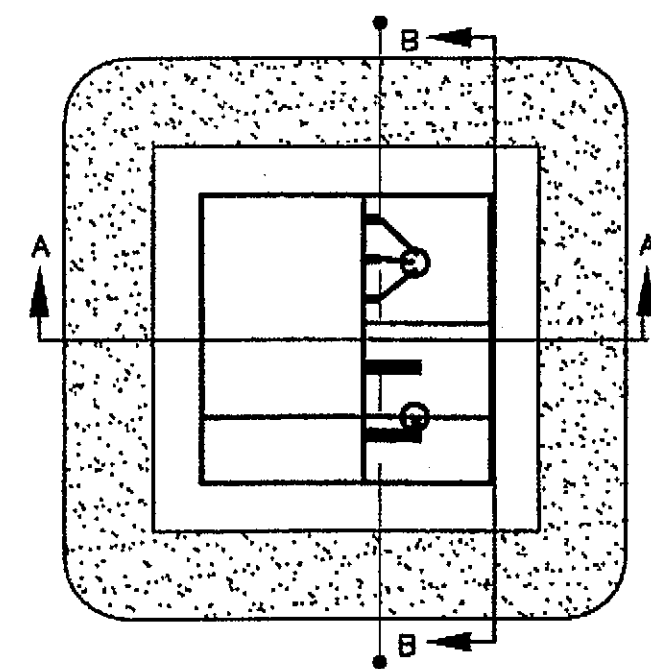
DESIGNED BY: FMC
DRAWN BY: FMC/R. SNYDER

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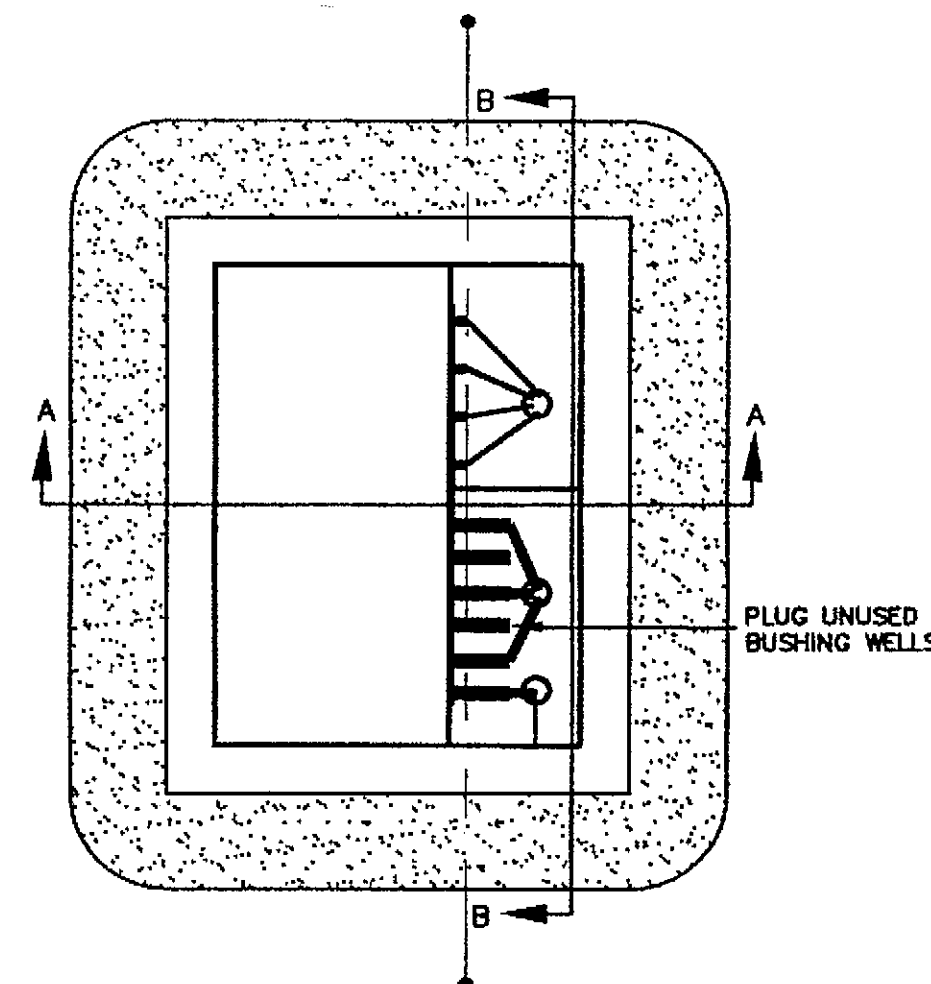
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AIP NO. 3-02-0323-1004	2004	U6	43

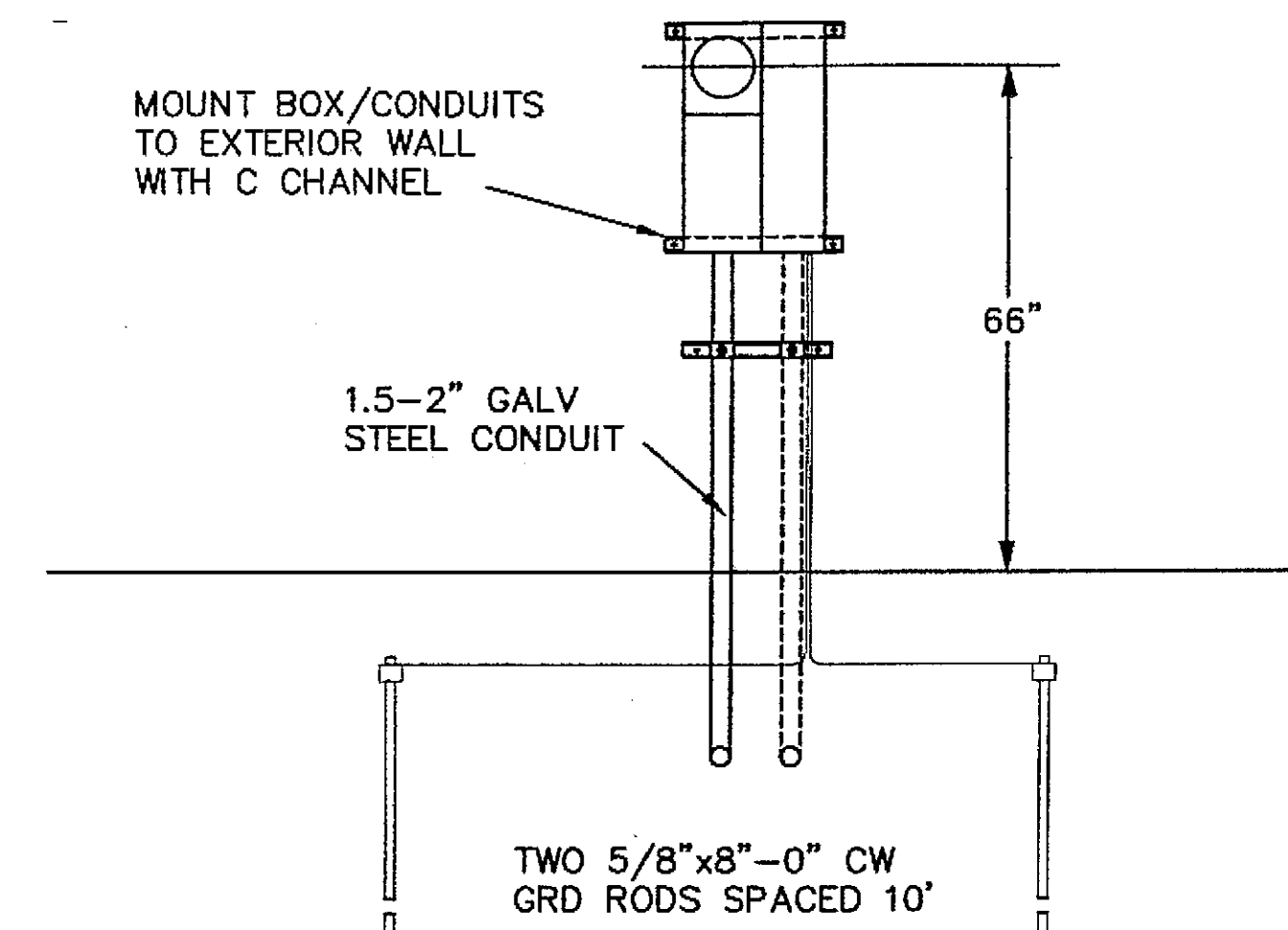
ASBUILT FIELD



TOP VIEW

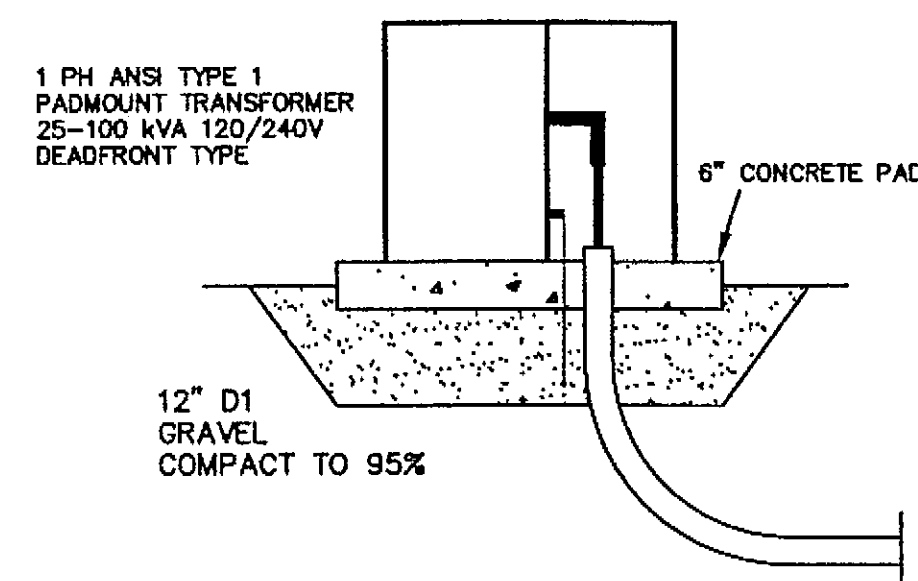


TOP VIEW

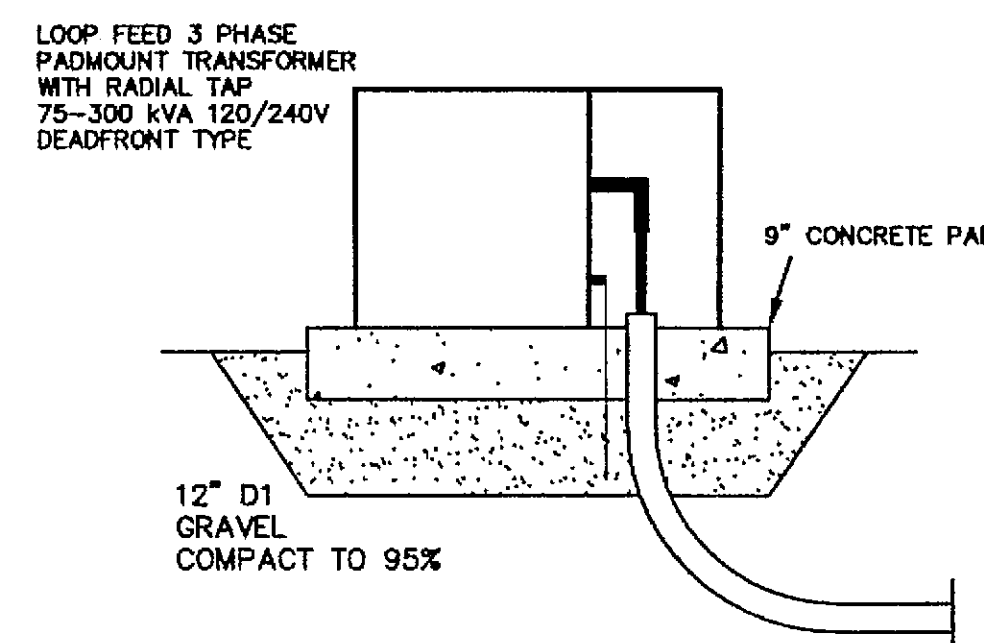


100-200A UNDERGROUND TYPE
METER/CIRCUIT BREAKER BOX
100A-CIRCLE AW U1M1R
200A-CIRCLE AW U2M2R

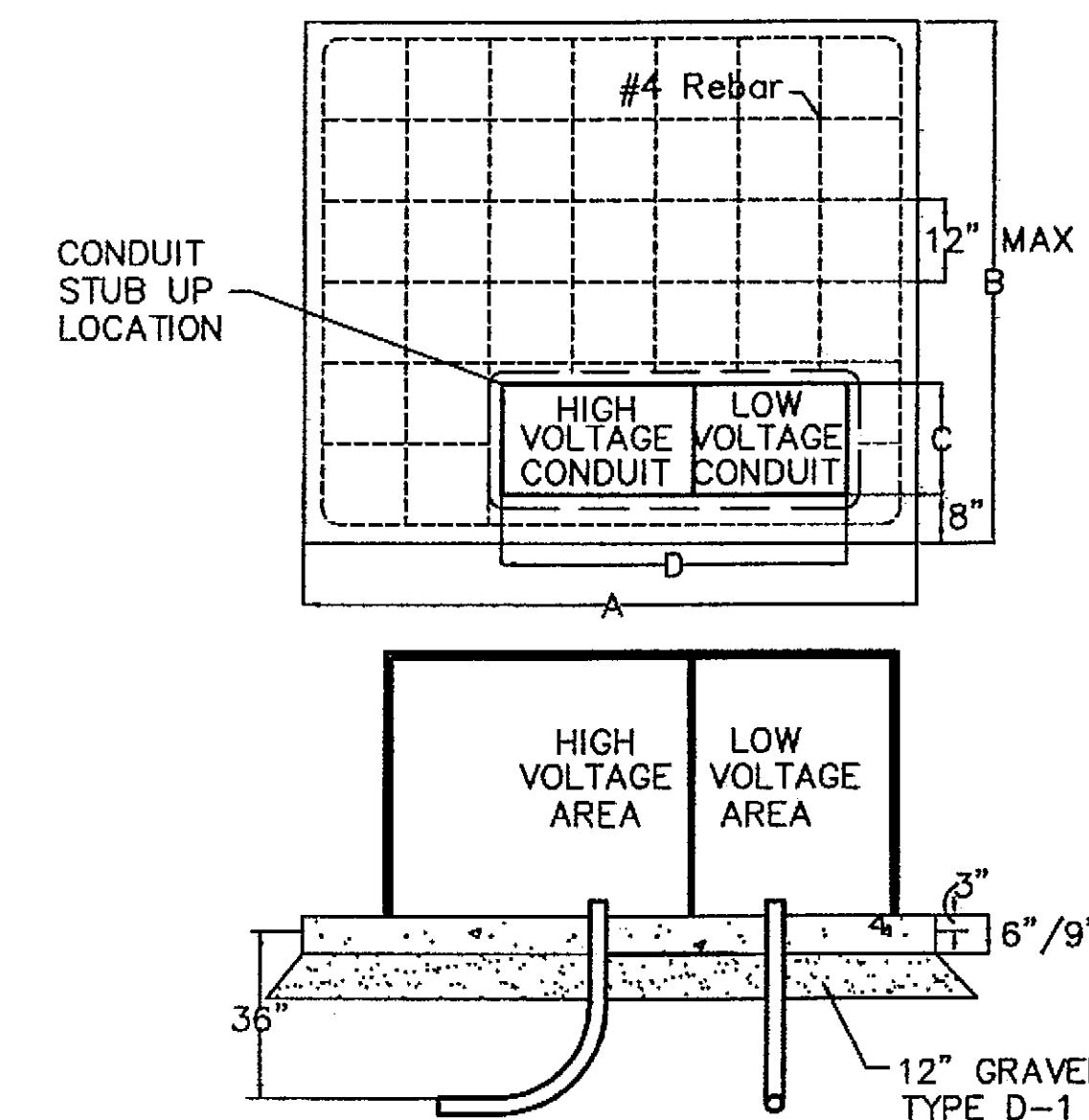
METER INSTALLATION DETAIL



CROSS SECTION AA

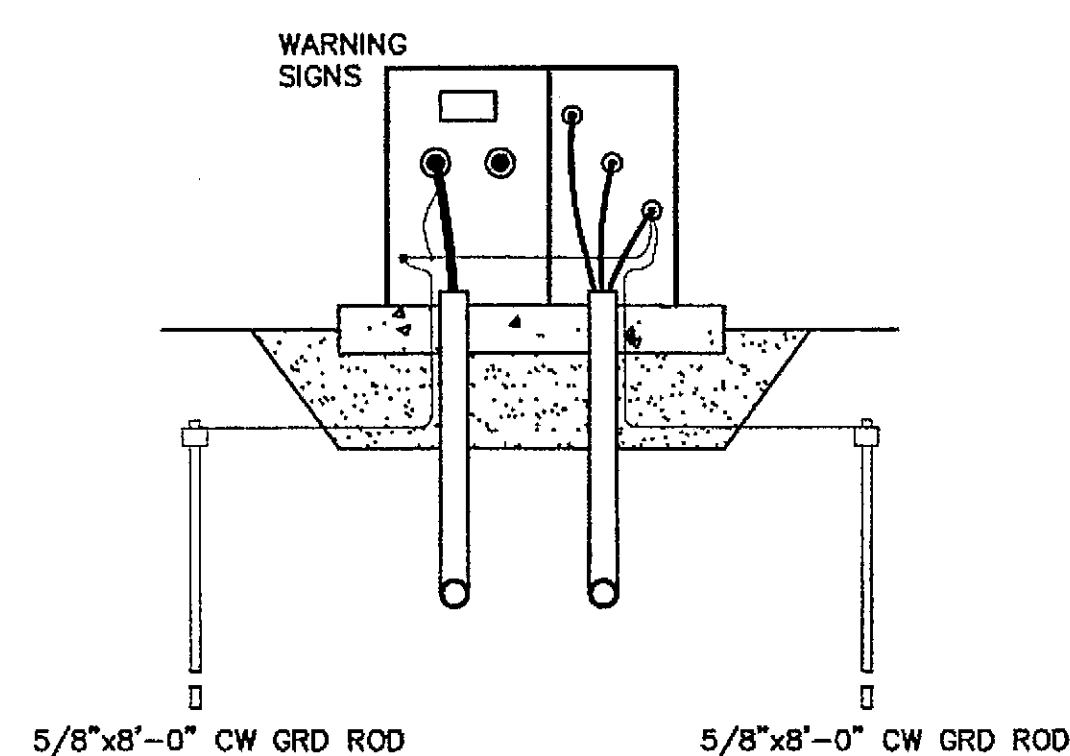


CROSS SECTION AA



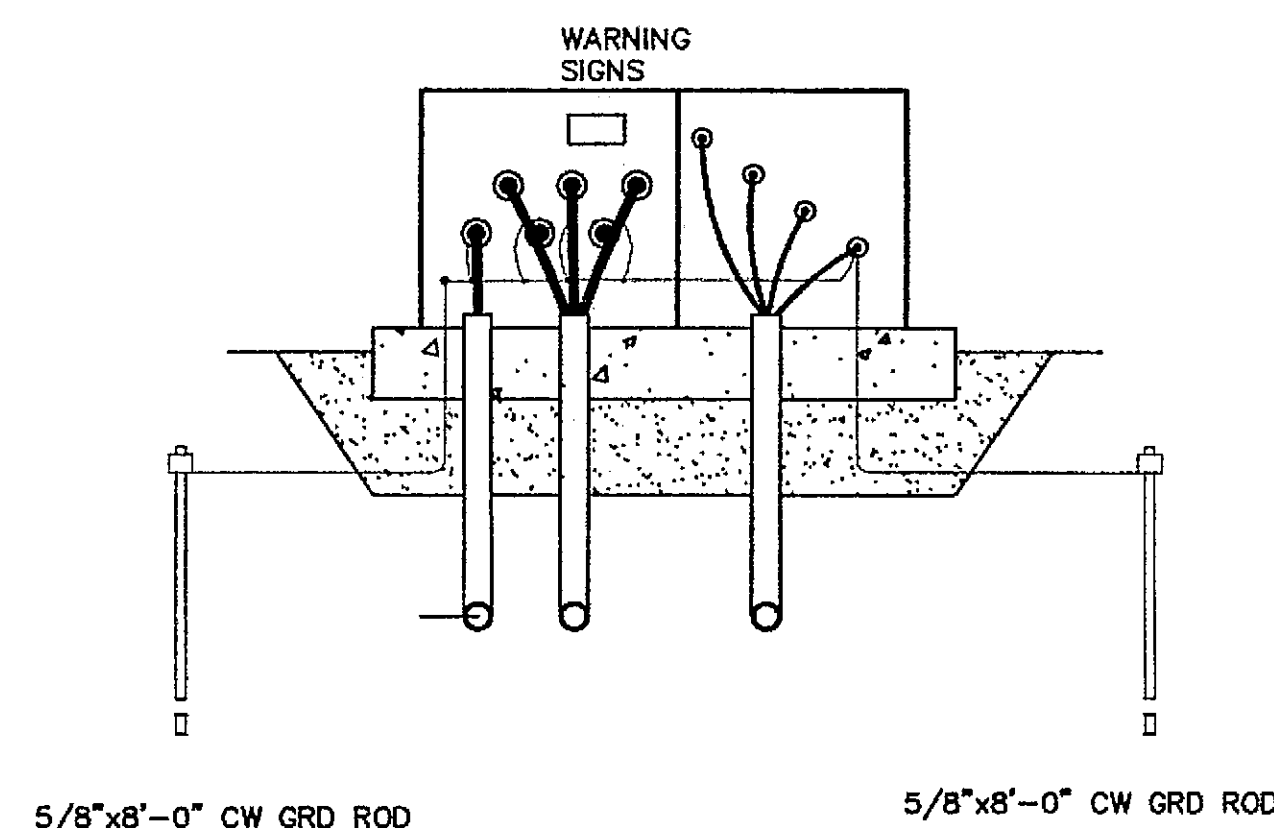
PAD DIMENSION CHART
A TRANSFORMER WIDTH +12"
B TRANSFORMER DEPTH +12"
C 15" OR AS REQUIRED BY MANUFACTURER
D 48" OR AS REQUIRED BY MANUFACTURER
PAD DEPTH CHART
6" SINGLE PHASE TRANSFORMERS 100 KVA OR LESS
9" THREE PHASE TRANSFORMERS OR SINGLE PHASE TRANSFORMERS OVER 100 KVA

TRANSFORMER PAD DETAIL
NO SCALE



CROSS SECTION BB

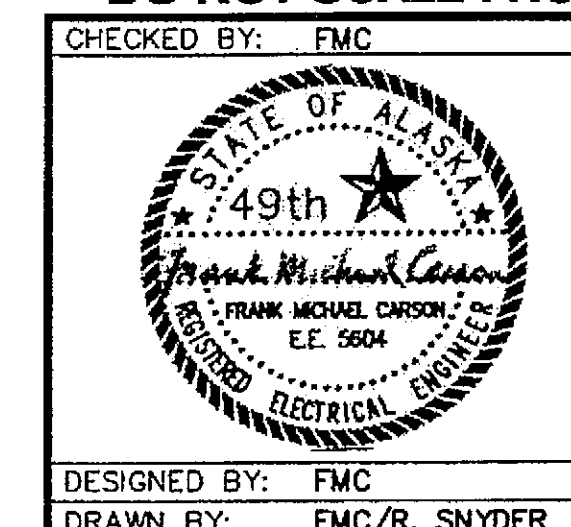
SINGLE PHASE TRANSFORMER DETAIL



CROSS SECTION BB

THREE PHASE TRANSFORMER DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

**WML&P
UTILITY DETAILS**

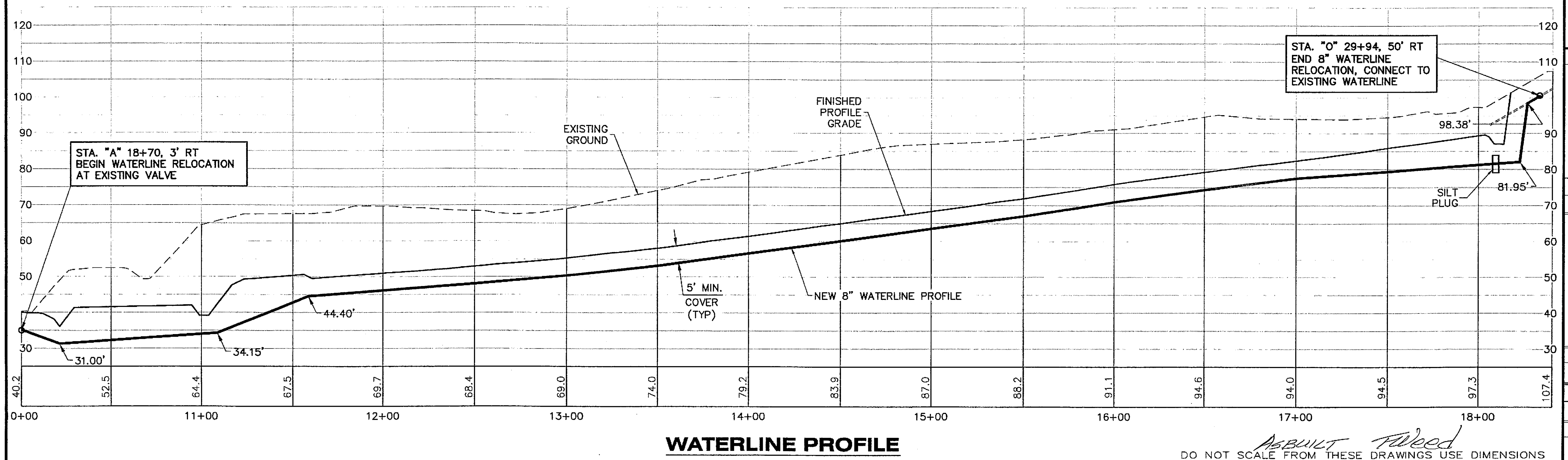
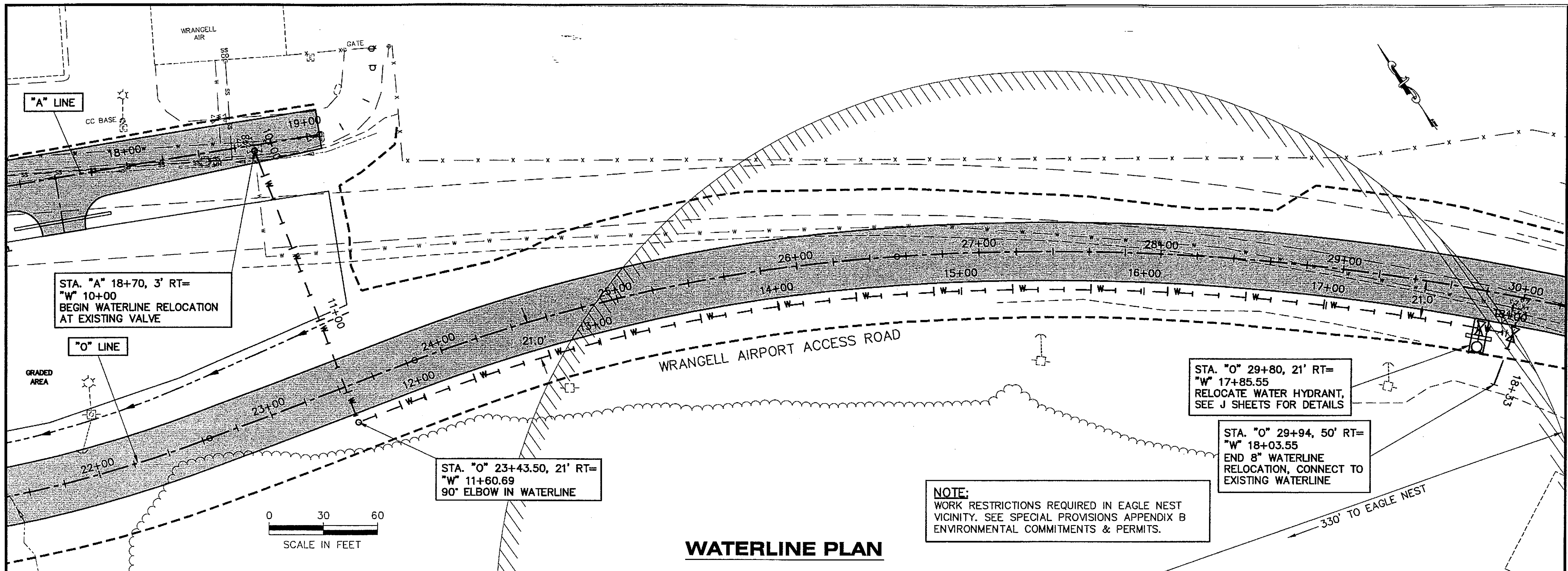
DESIGNED BY: FMC
DRAWN BY: FMC/R. SNYDER

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NO.	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AIP NO. 3-02-0323-1004	2004	U7	43

As BUILT *FWeed*



PATH:
Q:\Wrg\68246\PlanSet\U_WaterPlan.dwg
Mon, 13/Dec/04 09:27AM rksnyder
TAB: U8

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

BOP

WRANGELL AIRPORT

THIS VIEW

EOP

PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: D. WILLIAMS

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING
SERVICES DIVISION
**WRANGELL AIRPORT
ACCESS RD. ALIGNMENT
PROJECT #68246**

**WATERLINE
PLAN & PROFILE**

PROJECT DESIGNATION

AIP NO. 3-02-0323-1004

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
U8	43

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

State of Alaska

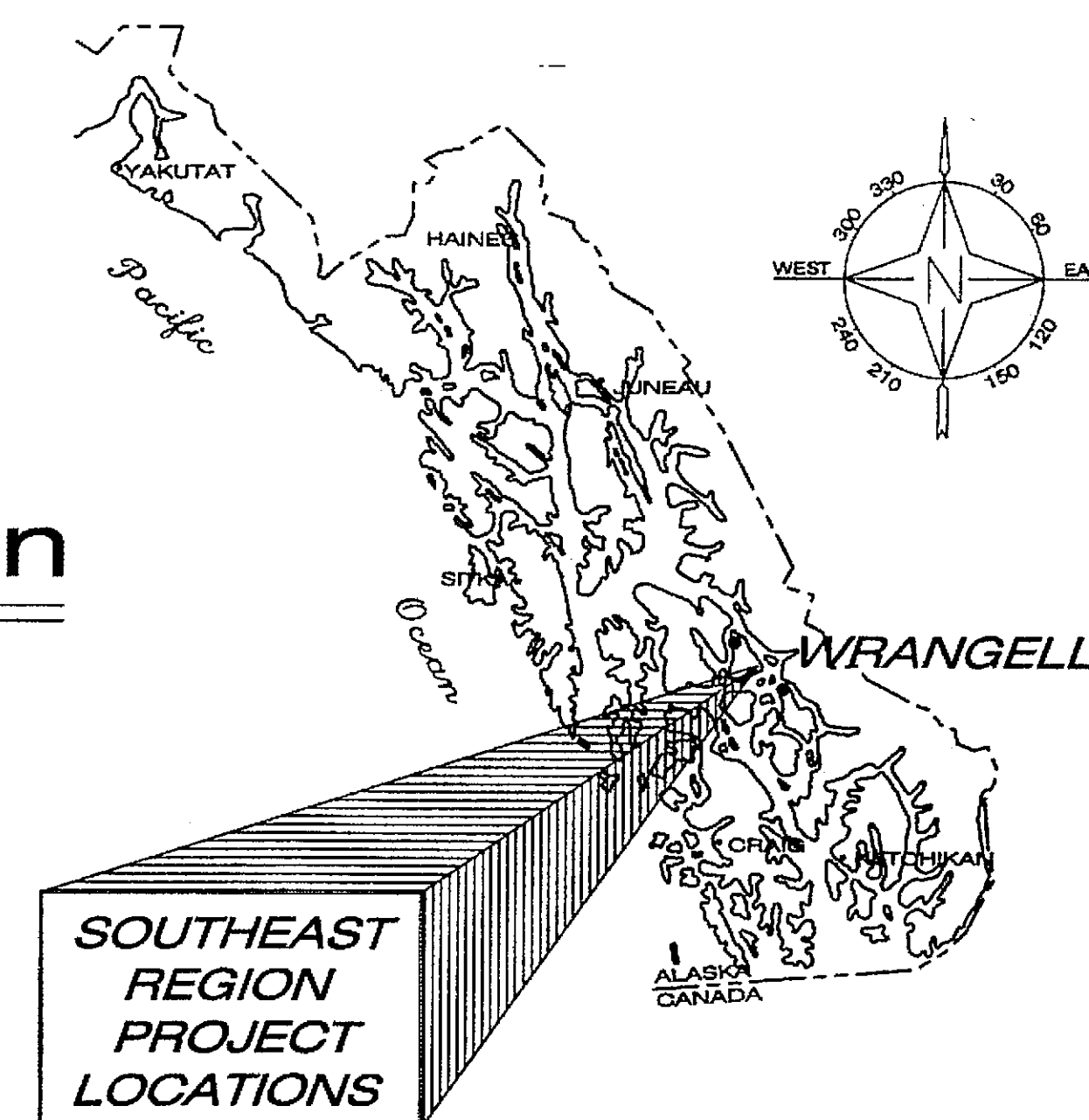
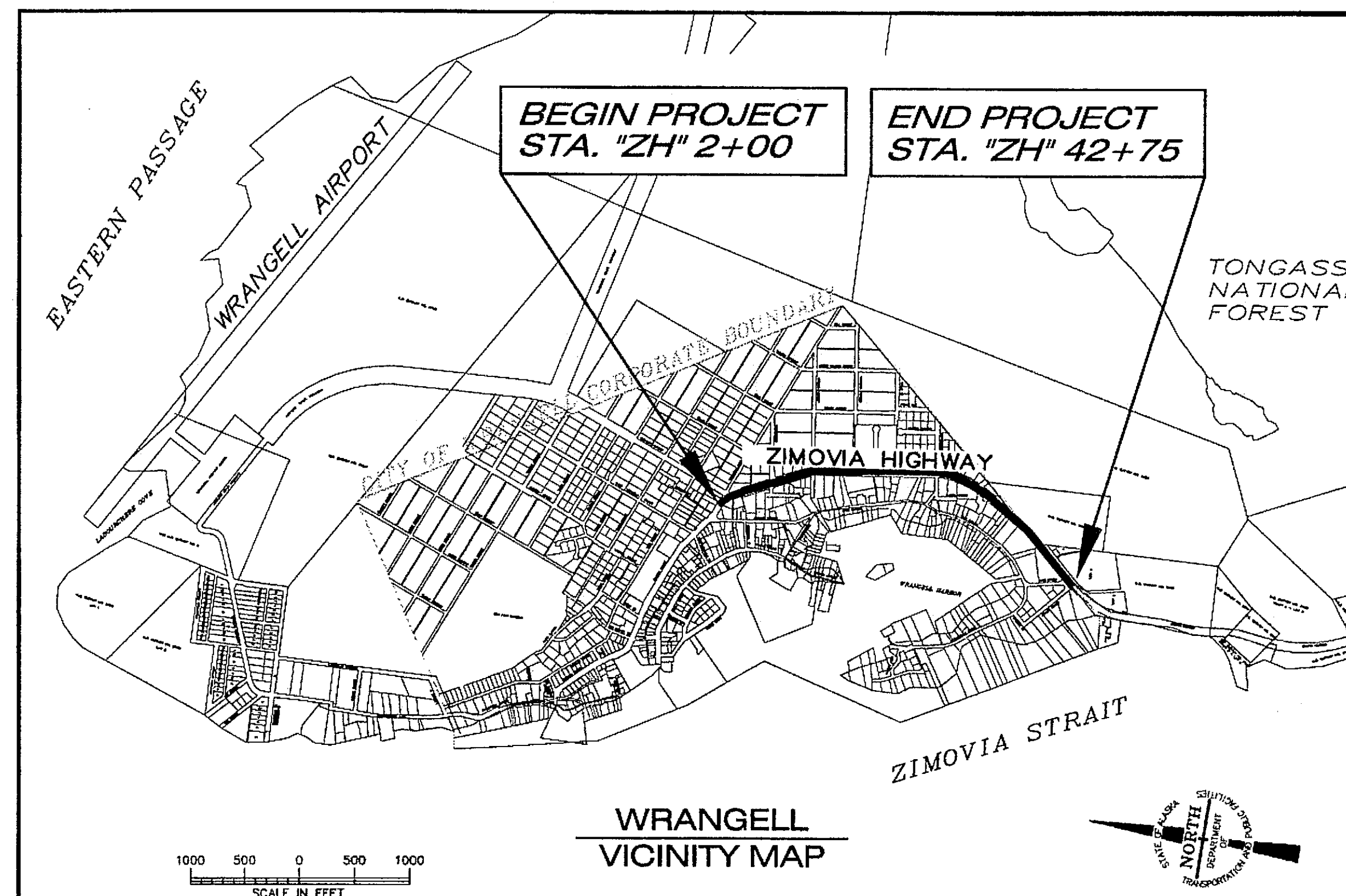
Department of Transportation and Public Facilities

Southeast Design and Engineering Services Division

Wrangell-Zimovia Hwy. Bennett St. to Berger St.

NON-NHS Highway System Refurbishment

MGS - 0943(24) ~ 67948



INDEX

SHEET NO.	DESCRIPTION
Y1	TITLE SHEET
Y2	ZIMOVIA PLAN/TYPICAL SECTION SHEET
Y3	ESTIMATE OF QUANTITIES/SIGN SUMMARY
Y4	ZIMOVIA PLAN INTERSECTION DETAILS
Y5	MISCELLANEOUS DETAILS
Y6	PTR - SITE LAYOUT
Y7	PTR - LOOP DETECTOR DETAILS
Y8	STRIPING PLAN
Y9-Y10	TRAFFIC CONTROL PLANS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1, C-03.10, C-04.12, C-05.10, D-20.03, D-22.01, D-23.01, D-24.00, E-13.00, I-81, M-16.01, S-00.10, S-05.01, S-30.03, T-20.02, T-21.02, T-22.03, T-23.00, T-23.03

DESIGN DESIGNATIONS

	HAUGEN DR. 8TH TO AIRPORT	ZIMOVIA HWY. BENNETT TO BERGER
A.D.T. 2002	2,930	2,350
A.D.T. 2010	3,400	2,530
D.H.V. 12% (2010)	430	270
%T	5.9	3.0
EAL (10 YR.)	250,000	150,000
V	25/35	25/35

PROJECT SUMMARY

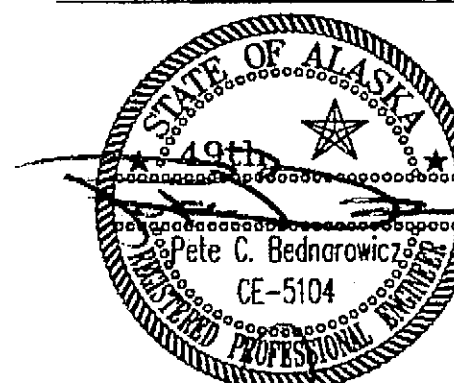
ZIMOVIA HWY.
BENNETT TO BERGER

CDS ROUTE NO. 293300
CDS MILEPOINT 0.04 TO 0.81
LENGTH OF PROJECT 4075'
LENGTH OF GRADING 4075'
LENGTH OF PAVING 4075'
WIDTH OF PAVING 31'

PATH: Q:\SEA\68608\PlanSet\WRANGELL\Wrg.dwg
Wed, 08/Dec/04 12:12PM rksnyder

PLOT: PSPACE OR MSPACE: 1000mm=1m(F) TAB: TSHT

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



APPROVED:

PATRICK J. KEMP
REGIONAL PRE-CONSTRUCTION ENGINEER

12/15/04
DATE

APPROVED:

GARY PAXTON
SOUTHEAST REGIONAL DIRECTOR

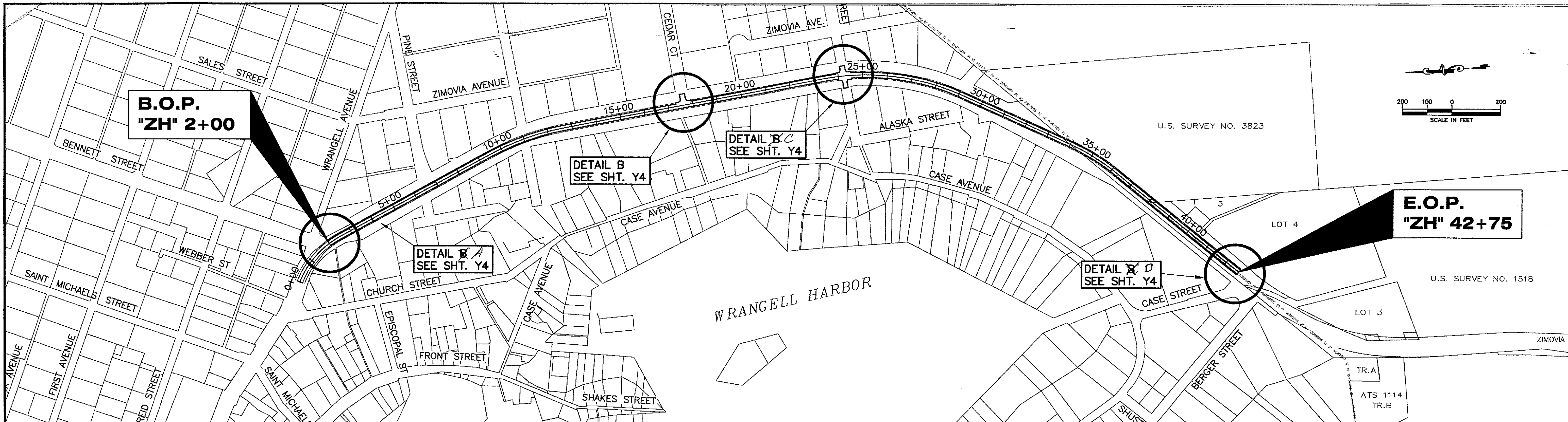
12/15/04
DATE

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

CONSTRUCTION PROJECT MANAGER DATE

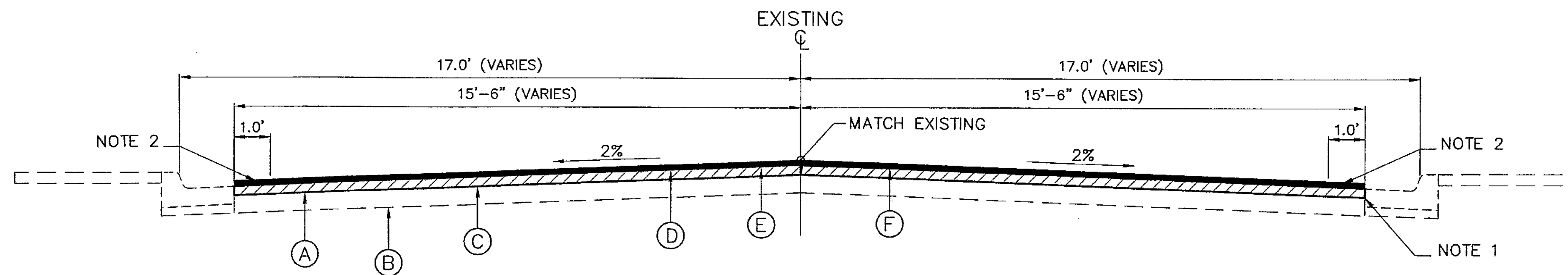
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	MGS-0913(24)-67948	2004	Y1	10

ASBUILT Weed



NOTES:

1. GRIND TO CLEAN VERTICAL EDGE NEXT TO CURB.
2. RAKE DOWN MAT TO EDGE OF GUTTER. 1" MAX. LIP AT GUTTER.



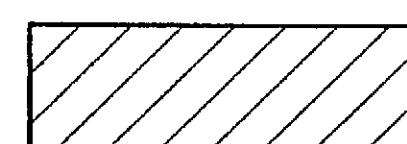
TYPICAL SECTION

ZIMOVIA HIGHWAY ~ STA "ZH" 2+00 TO STA "ZH" 42+75

TYPICAL KEY

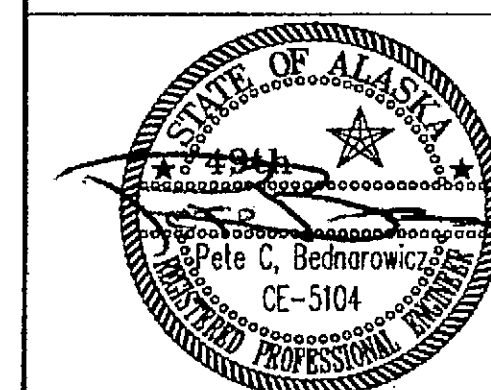
- (A) EXISTING 3" ASPHALT CONCRETE
- (B) EXISTING 6" CRUSHED AGGREGATE BASE COURSE
- (C) CRUSHED ASPHALT BASECOURSE
- (D) ASPHALT GRINDING
- (E) 2" ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B
- (F) TACK COAT (OPTIONAL BY DIRECTIVE)

TYPICAL LEGEND



CRUSHED ASPHALT BASE COURSE, CONSISTS OF GRINDING AND MIXING 3"± EXISTING ASPHALT WITH 2"± EXISTING BASE COURSE AND ADDING PORTLAND CEMENT (5.6 LBS/SY) AND CSS-1 EMULSION (1.7 GAL/SY).

DESIGNED BY: J. HOLLATZ



CHECKED BY: T. MOORE
DRAWN BY: R.S.

PATH: Q:\SEA\68608\PlanSet\WRANGELL\Wrg.dwg
PLOT: PSPACE 1=1(F) OR MSPACE 1=2(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT

WRANGELL
ZIMOVIA HIGHWAY

PROJECT DESIGNATION
MGS-0913(24)
-67948

YEAR
2004
SHEET NO.
Y2
TOTAL SHEETS
10

ASBUILT Paved

Estimate of Quantities

Item No	Pay Item	Pay Unit	Quantity
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	100
308(1)	CRUSHED ASPHALT BASE COURSE	SQUARE YARD	14,200
308(2)	CSS-1 ASPHALT FOR BASE COURSE	TON	112
308(3)	PORTLAND CEMENT	TON	40
401(1)	ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B	TON	1,700
401(2)	ASPHALT CEMENT, GRADE PG 52-28	TON	102
401(6)	ASPHALT PRICE ADJUSTMENT	CONT. SUM	ALL REQUIRED
402(1)	STE-1 ASPHALT FOR TACK COAT	TON	5
604(4)	ADJUST EXISTING MANHOLE	EACH	1
615(1)	STANDARD SIGN	SQUARE FOOT	133
627(10)	ADJUSTMENT OF VALVE BOX	EACH	2
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(2)	EROSION AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642(11)	ADJUST EXISTING MONUMENT CASE	EACH	1
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643(15)	FLAGGING	CONT. SUM	ALL REQUIRED
643(25)	TRAFFIC CONTROL	CONT. SUM	ALL REQUIRED
669(1)	PERMANENT TRAFFIC COUNTER SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
670(10)	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

Basis of Estimate

Item No.	Item	English
308(2)	CSS-1 ASPHALT FOR ASPHALT BASE COURSE	2.0 GAL/SY
308(3)	PORTLAND CEMENT	5.0 LBS/SY
401(1)	ASPHALT CONCRETE PAVEMENT, TYPE II CLASS B	116 LBS/SY IN-DEPTH
402(2)	ASPHALT CEMENT, GRADE PG 58-28	6% OF 401(1)
402(1)	STE ASPHALT FOR TACK COAT	0.10 GAL/SY, 253 GAL/TON

General Notes

1. HORIZONTAL AND VERTICAL CONTROL IS BASED ON THE EXISTING CENTERLINE AND EXISTING FINISHED SURFACE.
2. CENTERLINE AND GRADE ARE SUBJECT TO MINOR REVISIONS.
3. ALL WASTE SHALL BE HAULED TO AN APPROVED WASTE SITE.
4. SIGN LOCATIONS ARE SUBJECT TO MINOR REVISIONS.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
6. ALL CONSTRUCTION SHALL BE WITHIN THE EXISTING RIGHT OF WAY.
7. THE LOCATIONS OF THE EXISTING TOPOGRAPHY, UTILITIES, BUILDINGS, ETC. AS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
8. CONTRACTOR SHALL REFERENCE THE CENTERLINE OF PAVED ROADWAY PRIOR TO ANY CONSTRUCTION ACTIVITIES. CENTERLINE OF ROADWAY SHALL BE ONE HALF THE DISTANCE BETWEEN THE EDGES OF PAVEMENT.
9. STATIONING SHOWN IN THESE PLANS IS FOR REFERENCE ONLY. THE CONTRACTOR WILL AS-BUILT THE ALIGNMENT IN ACCORDANCE WITH THE SPECIFICATIONS.
10. EROSION AND SEDIMENT CONTROL. THE PROJECT HAS A LOW LIKELIHOOD OF GENERATING SEDIMENT OR NEEDING EROSION CONTROL. THE CONTRACTOR ONLY NEEDS TO DEVELOP A HAZARDOUS MATERIALS CONTROL PLAN.

Zimovia Highway Sign Summary

Quantity	Type	Legend	Size		Area/Sign (Sq. Ft.)	Total Area	Remarks
			Width	Height			
4	S1-1	SCHOOL ZONE (SYMBOL)	36"	36"	9.0	36.0	
2	I-8	FERRY (SYMBOL)	24"	24"	4.0	8.0	
2	I-8	FERRY (PLAQUE)	24"	6"	1.0	2.0	MOUNT ON EACH BELOW FERRY SYMBOL
2	I-5	AIRPORT (SYMBOL)	24"	24"	4.0	8.0	
2	I-5	AIRPORT (PLAQUE)	24"	6"	1.0	2.0	MOUNT ON EACH BELOW AIRPORT SYMBOL
2	I-5		24"	6"	1.0	2.0	MOUNT ON EACH BELOW AIRPORT PLAQUE
2	D9-2R	HOSPITAL (SYMBOL)	24"	24"	4.0	8.0	
2	D9-2R	HOSPITAL (PLAQUE)	24"	6"	1.0	2.0	MOUNT ON EACH BELOW HOSPITAL SYMBOL
2	D9-2R		24"	6"	1.0	2.0	MOUNT ON EACH BELOW HOSPITAL PLAQUE
12	R7-101	NO PARKING ANYTIME	12"	18"	1.5	18.0	
2	R2-5C	SPEED ZONE AHEAD	30"	36"	7.5	15.0	
2	R2-1	35 MPH	30"	36"	7.5	15.0	
2	R2-1	25 MPH	30"	36"	7.5	15.0	
					TOTAL	133.0	

Signing Notes for Zimovia Highway:

1. ALL SIGNS WITHIN THE PROJECT LIMITS ARE TO BE SALVAGED AND REPLACED AS DIRECTED. THE ABOVE SIGN SUMMARY INCLUDES ADDITIONAL "NO PARKING ANYTIME" SIGNS AS DIRECTED BY THE ENGINEER.
2. ALL SALVAGED SIGNS SHALL BE DELIVERED TO THE ADOT/PF HIGHWAY MAINTENANCE YARD ON AIRPORT LOOP ROAD.

DESIGNED BY: J. HOLLATZ



CHECKED BY: T. MOORE
DRAWN BY: R.S.

PATH: Q:\SEA\68608\Planset\WRANGELL\Wrg.dwg
PLOT: PSPACE 1=1(F) OR MSPACE 1=?(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT
Wrangell
Estimate of Quantities

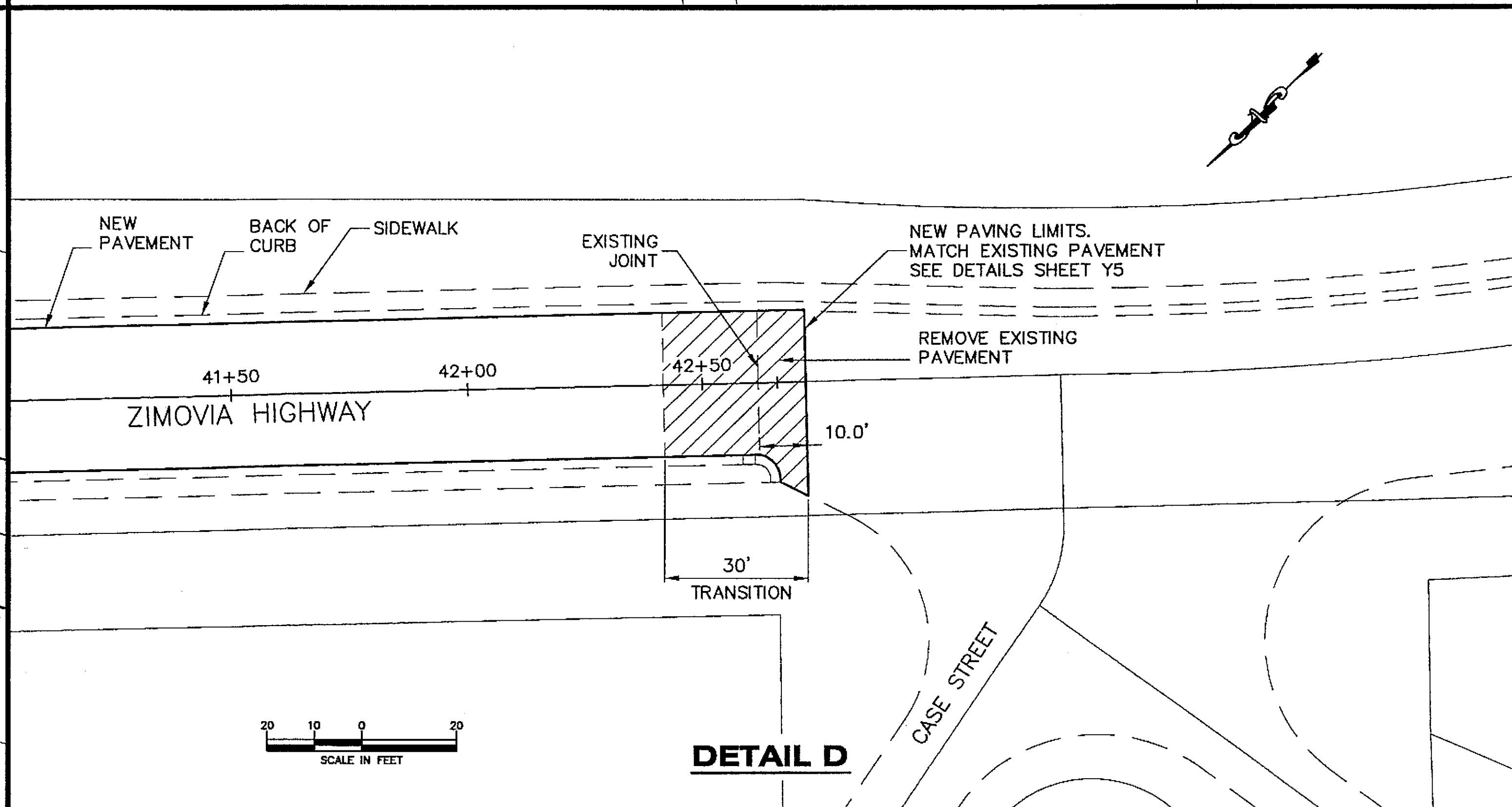
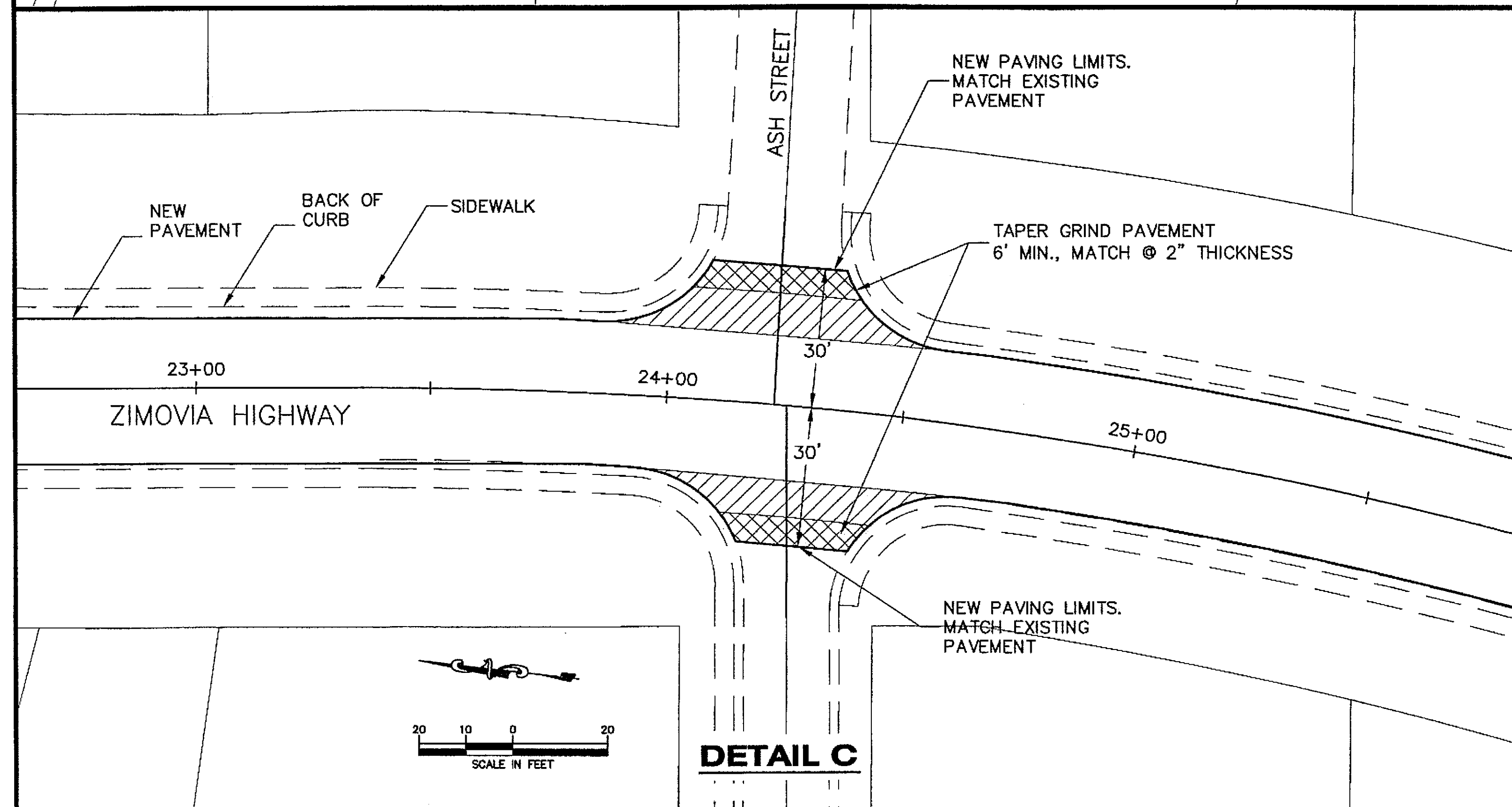
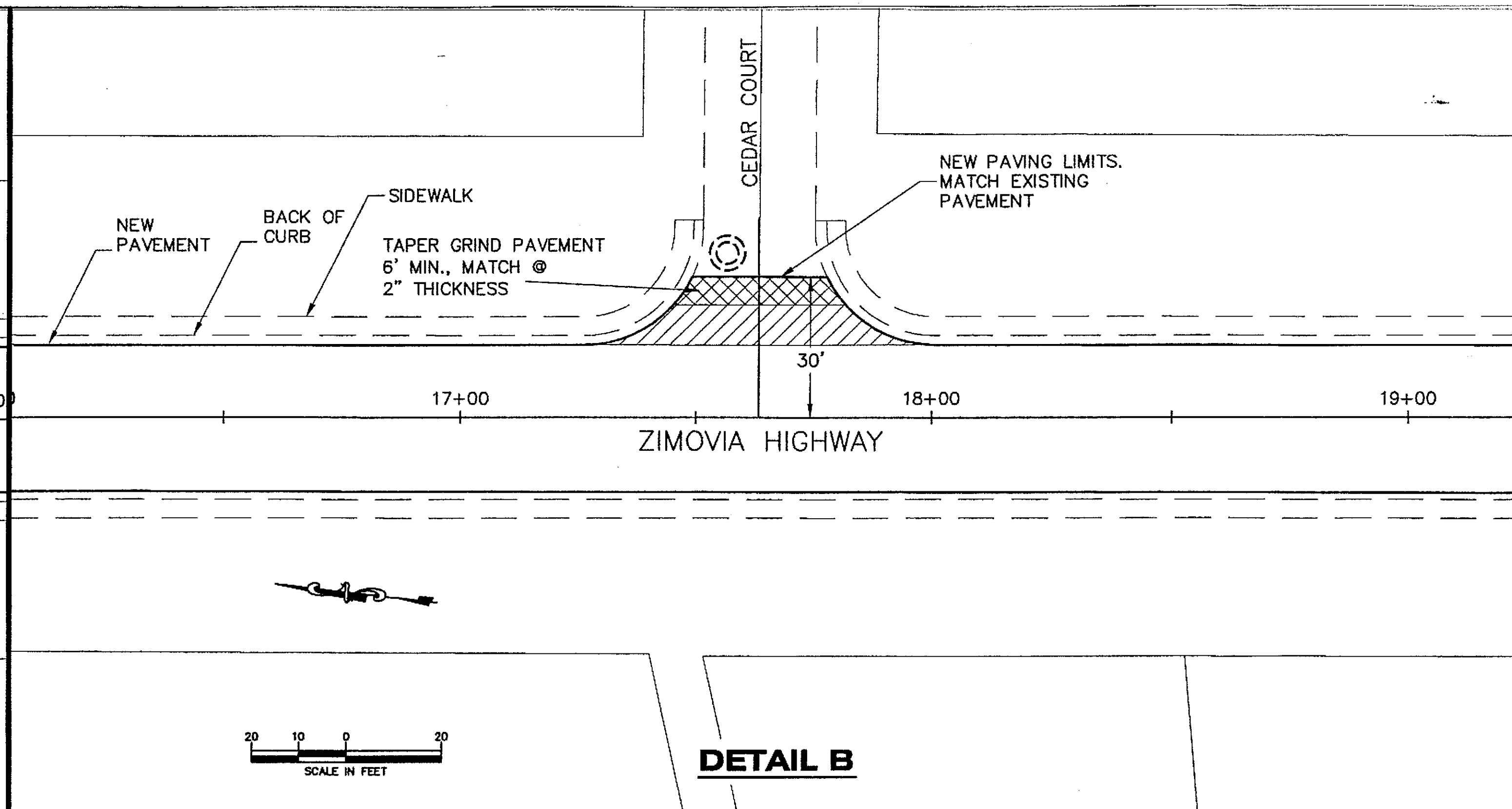
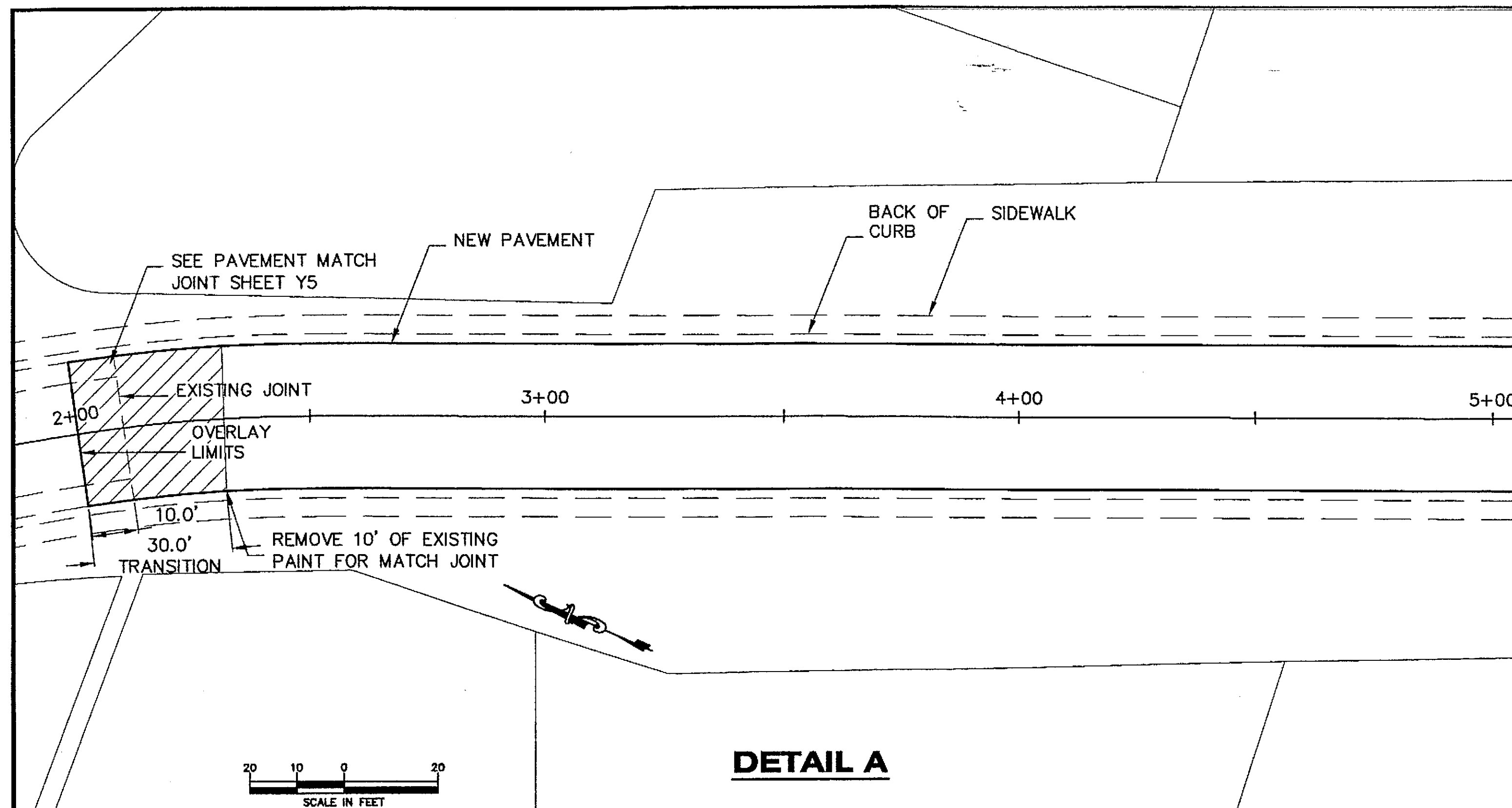
PROJECT DESIGNATION
MGS-0913(24)
~67948

YEAR
2004

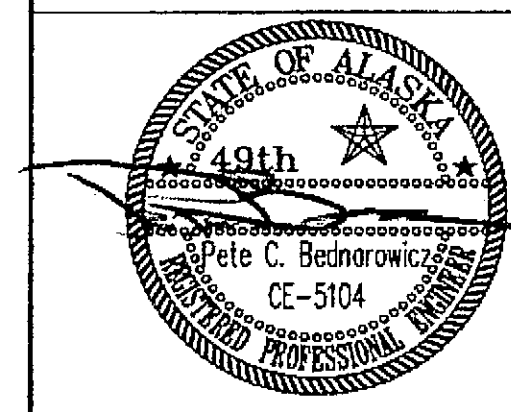
SHEET NO.
Y3

TOTAL SHEETS
10

AS-BUILT Filed



DESIGNED BY: J. HOLLATZ



CHECKED BY: T. MOORE
DRAWN BY: R.S.

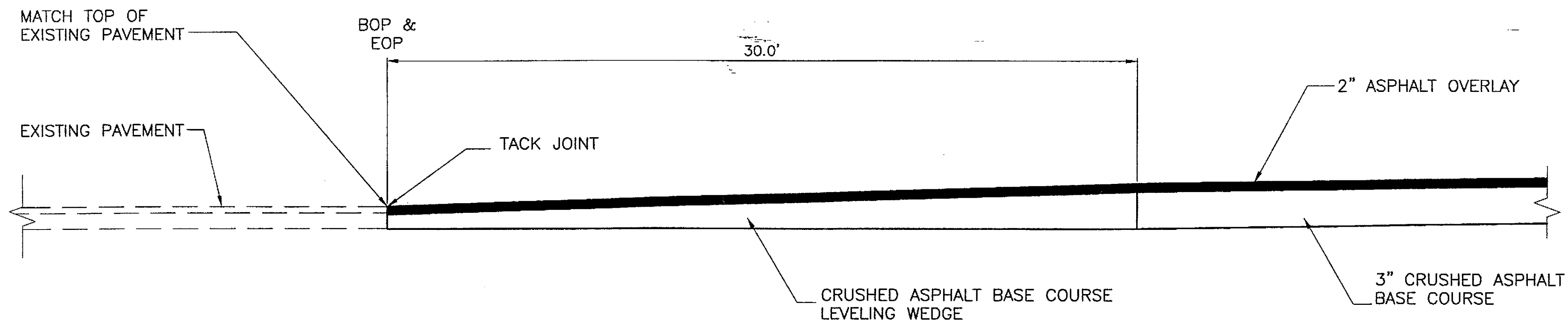
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DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT
WRANGELL
ZIMOVIA HIGHWAY
INTERSECTION DETAILS

PATH: Q:\SEA\68608\Planset\WRANGELL\Wrg.dwg
PLOT: PSPACE 1=1(F) OR MSPAGE 1=?(F)

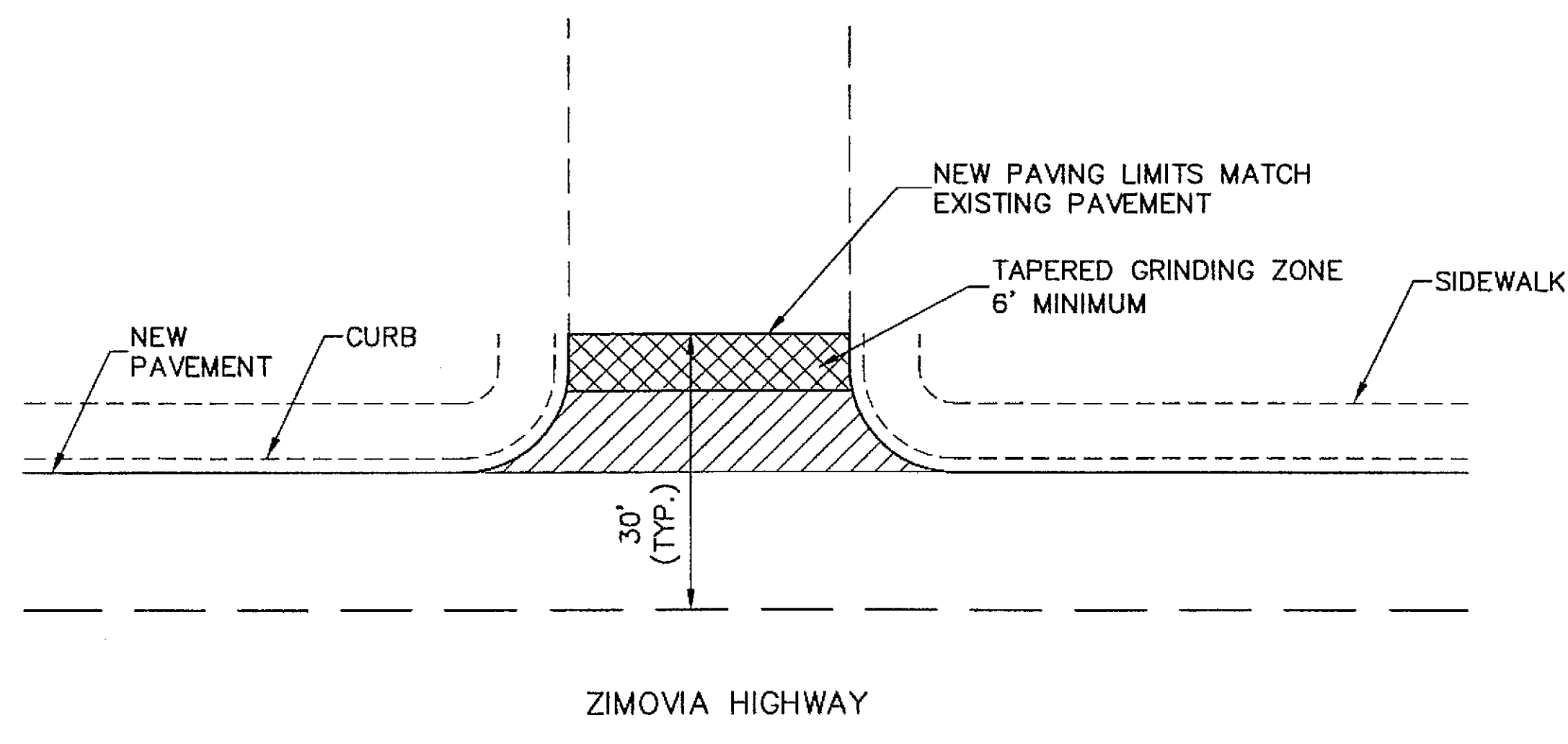
PROJECT DESIGNATION
MGS-0913(24)
-67948

YEAR	SHEET NO.	TOTAL SHEETS
2004	Y4	10

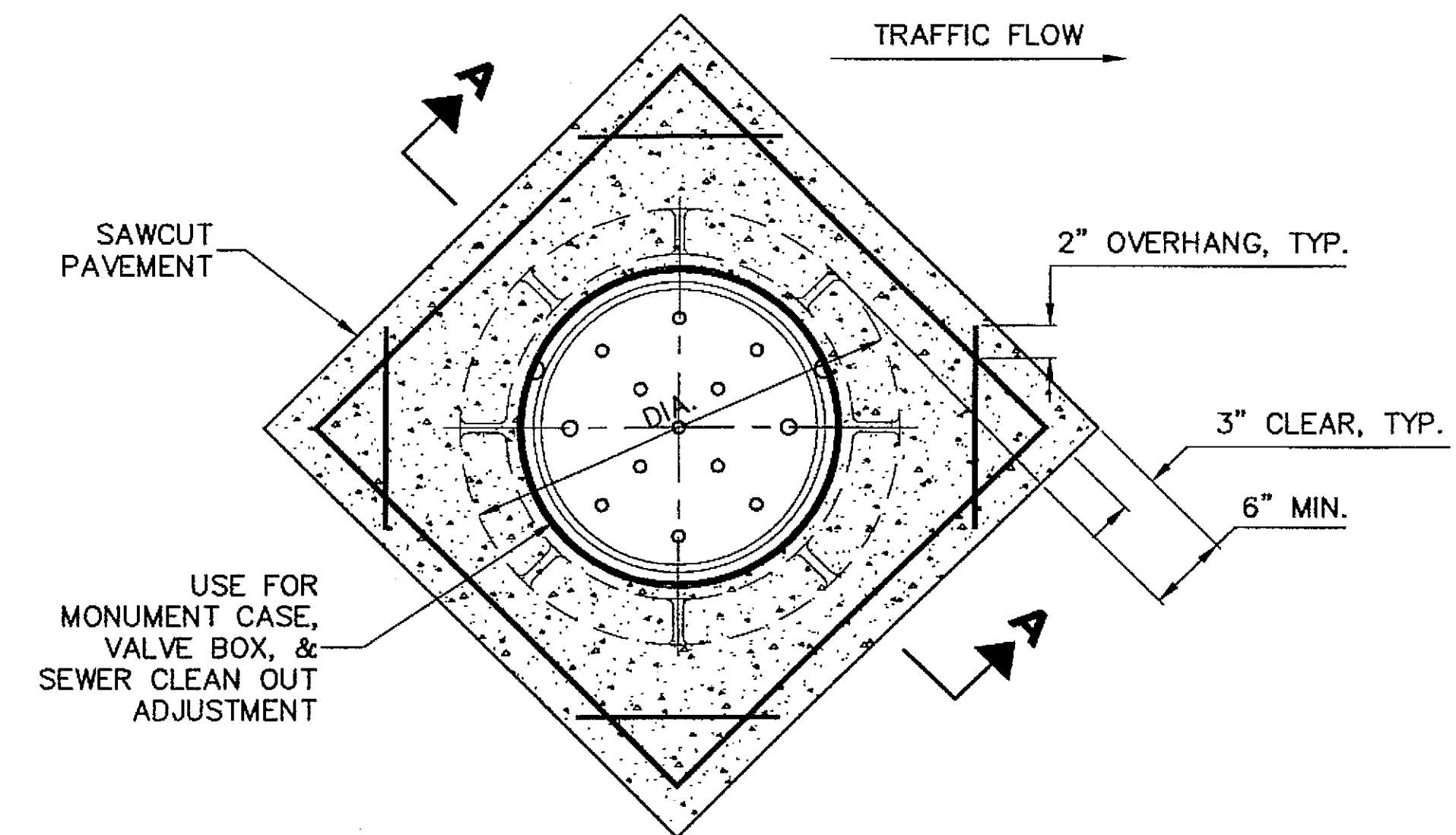
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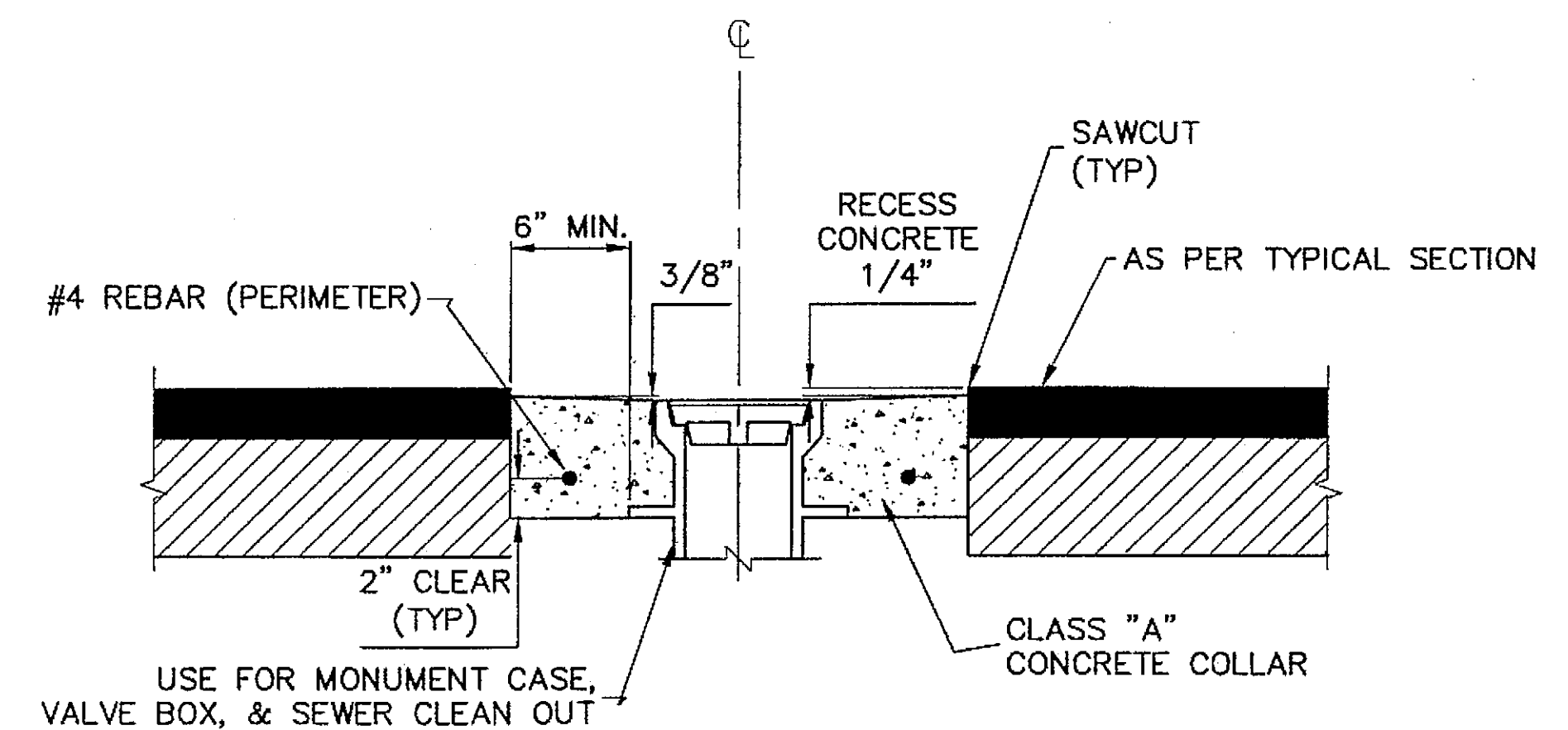
**PAVEMENT MATCH JOINT
SECTION DETAIL**



**TYP. INTERSECTION PAVING DETAIL
ZIMOVIA HIGHWAY**

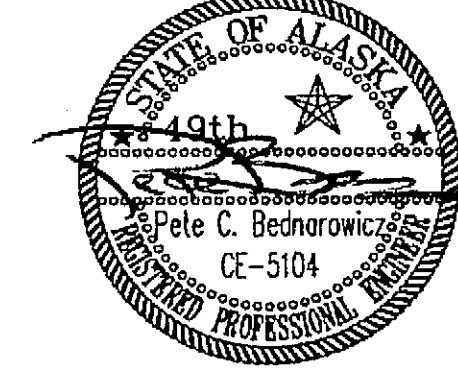


PLAN

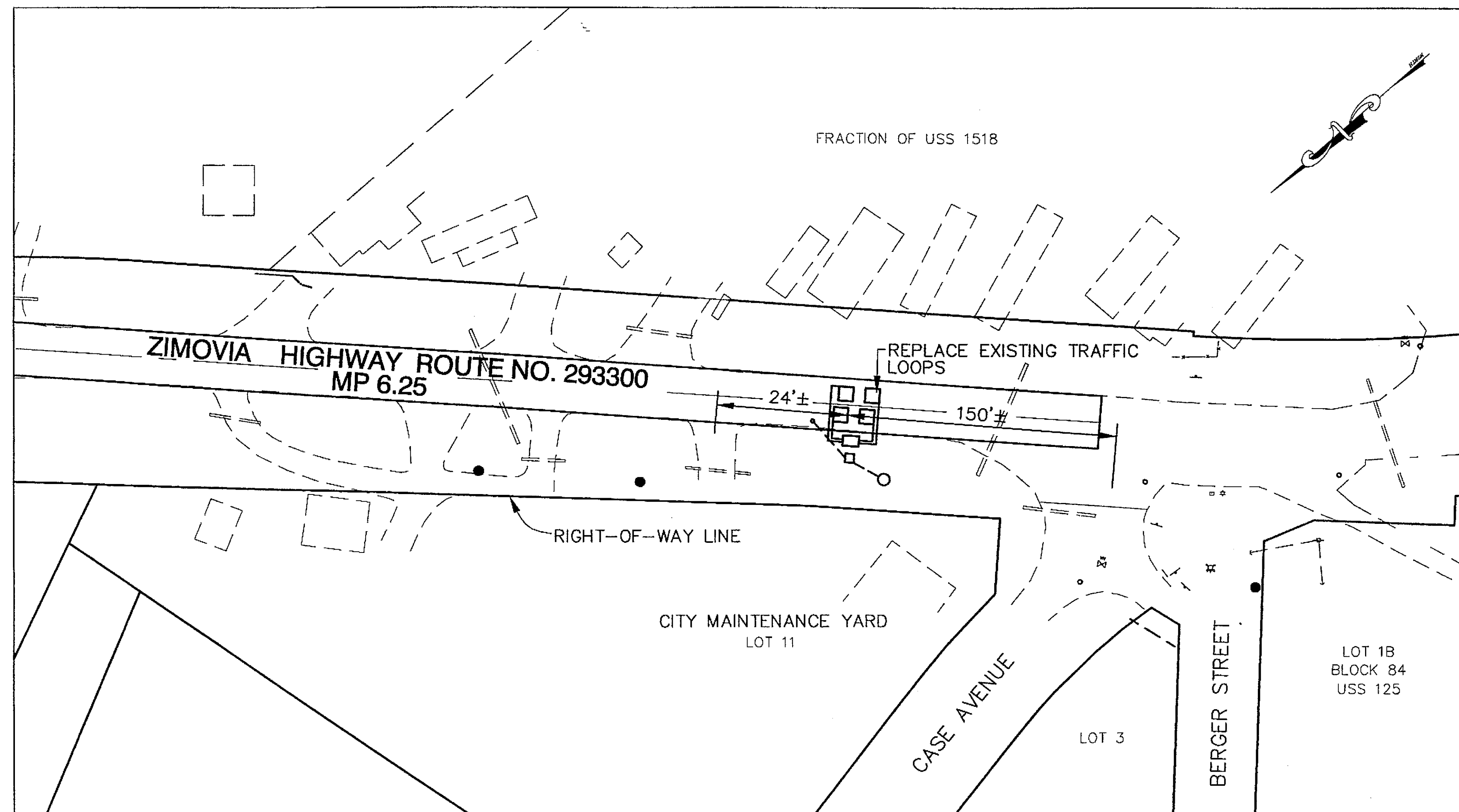


SECTION A-A

**CLASS A CONCRETE COLLAR
ENCASEMENT DETAIL**

DESIGNED BY: J. HOLLATZ  CHECKED BY: T. MOORE DRAWN BY: R.S.		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION SOUTHEAST REGION NON-NHS HIGHWAY SYSTEM REFURBISHMENT Wrangell Miscellaneous Details			
PATH: Q:\SEA\68608\Planset\WRANGELL\Wrg.dwg PLOT: PSPACE 1=1(F) OR MSPACE 1=?(F)		PROJECT DESIGNATION MGS-0913(24) ~67948	YEAR 2004	SHEET NO. Y5	TOTAL SHEETS 10

AS BUILT Filed



PROJECT SITE PLAN

NTS

GENERAL NOTES:

1. INSTALLATION OF EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT NEC, ALASKA DOT/PF STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.
2. 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.
3. USE ONLY RMC CONDUIT EXCEPT FOR THE POLYVINYL CHLORIDE (PVC) LOOPS.
4. ALL CONSTRUCTION SHALL BE WITHIN STATE RIGHT-OF-WAY.
5. THE CONTRACTOR SHALL MARK THE TRENCH PLACING WARNING TAPE OVER UNDERGROUND CONDUIT.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONNECTING THE NEW LOOPS TO THE TRAFFIC COUNTER IN THE SAME CONFIGURATION AS THE EXISTING TRAFFIC COUNT LOOPS.

AS BUILT *Reed*

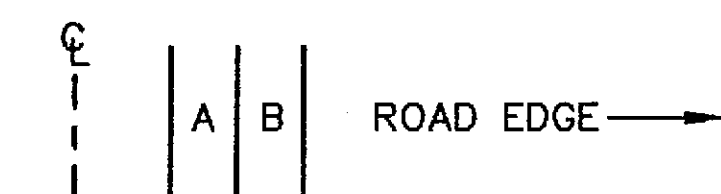
LABELS

ALL CABLES SHALL BE LABELED AT BOTH ENDS AND AT EVERY JUNCTION BOX THROUGH WHICH THE CABLES PASS, PER SPECIFICATIONS.

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 FOLLOWS:

PnDLc

WHERE:

- P IS THE PREFIX:
 - V = TRAFFIC VOLUME LOOP
 - Ga = AUTOMATIC VEHICLE CLASSIFICATION (AVC) SENSOR
- 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 **

(X) - CONDUIT REFERENCE NUMBER

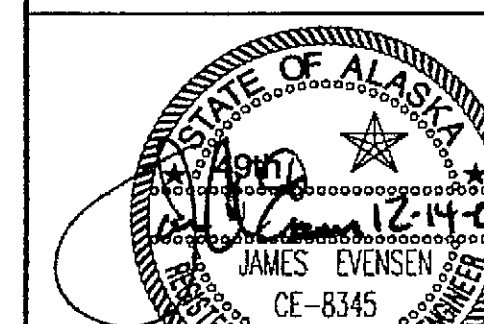
RMC - RIGID METAL CONDUIT

IMC - INTERMEDIATE METAL CONDUIT

REFERENCE SPECIFICATIONS

ALL WIRING IN THIS SECTION SHALL BE CONSTRUCTED PER SPECIFICATION SECTION 660 AND 740 SIGNALS AND LIGHTING, 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, 660-2.09(A) WIRING, AND 660-3.08 INSTALLATION DETAILS EXCEPT AS MODIFIED BY SECTION 669 AUTOMATED TRAFFIC RECORDERS.

DESIGNED BY: P. JONES



CHECKED BY: K. MATTSO
DRAWN BY: G.M.

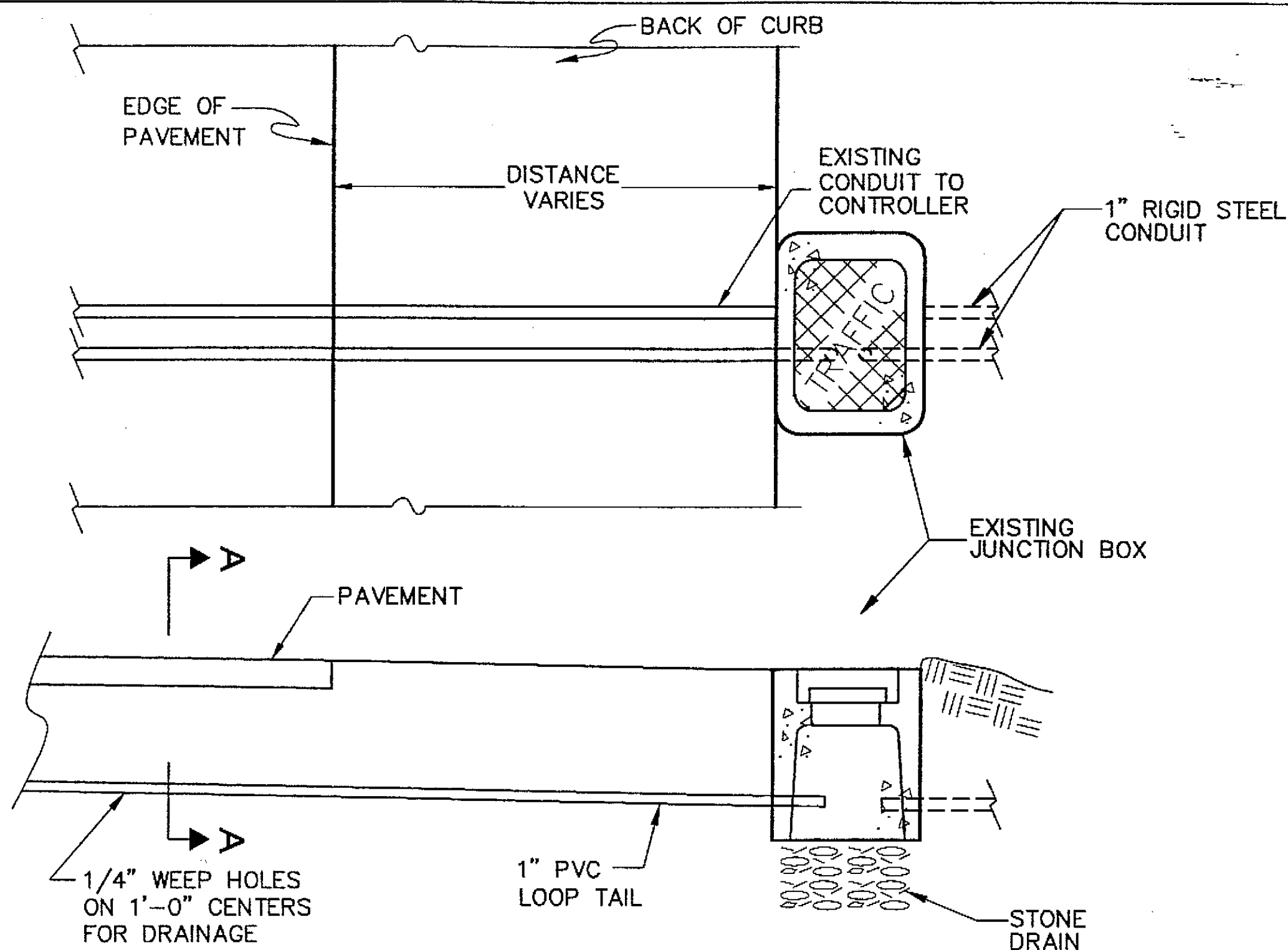
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PLOT: PSPACE 1=1(F) OR MSPACE 1=?(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT

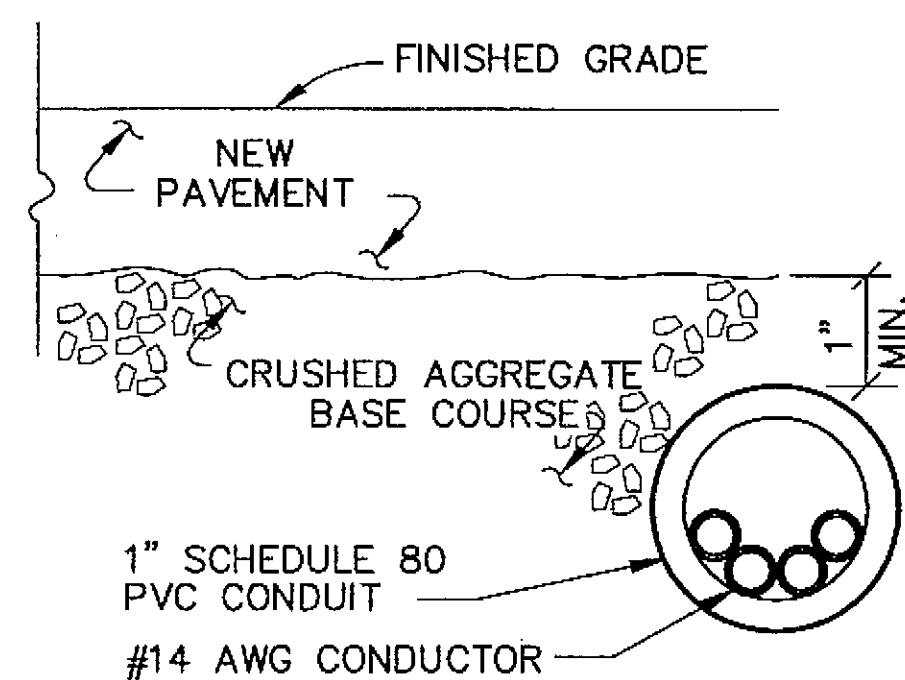
WRANGELL
PTR SITE LAYOUT

PROJECT DESIGNATION
MGS-0913(24)
-67948

YEAR	SHEET NO.	TOTAL SHEETS
2004	Y6	10



CROSS SECTION DETAIL



**CONDUIT DETAIL
SECTION A-A**

INDUCTIVE LOOPS

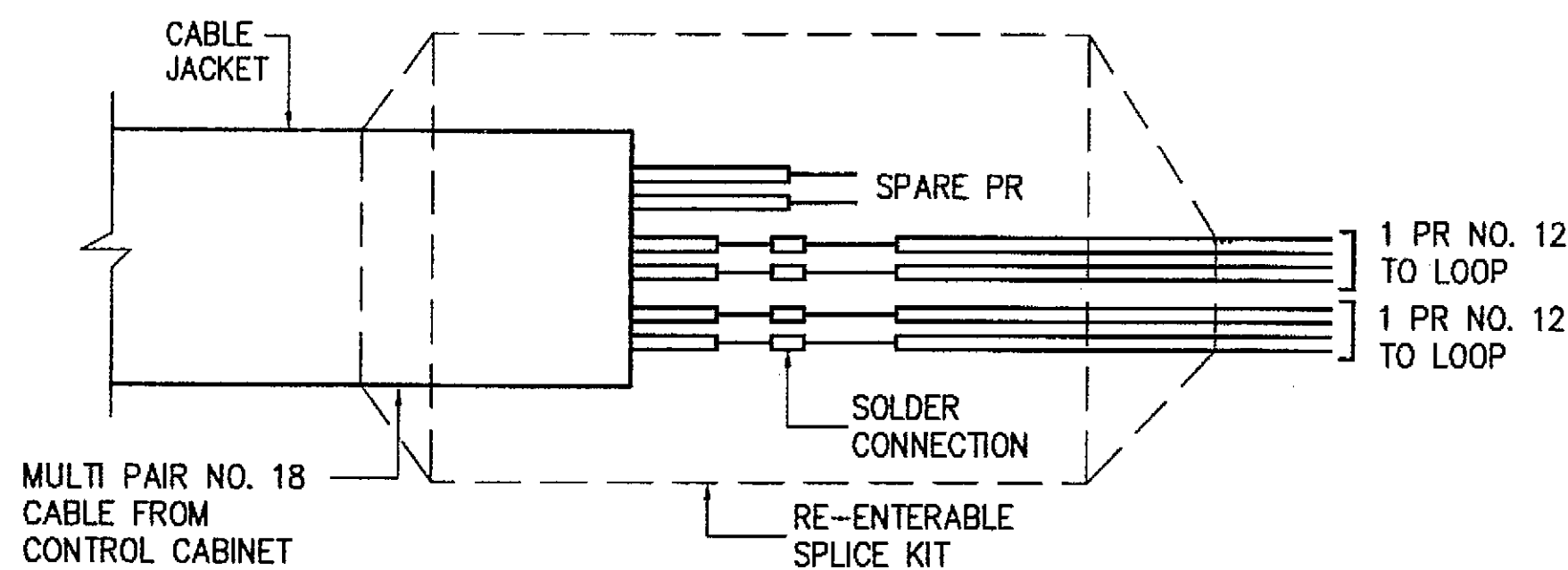
ALL INDUCTIVE LOOPS SHALL BE WOUND IN THE SAME DIRECTION WITH THE STARTING LEAD MARKED "S" PER SPECIFICATIONS.

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 IN BASE COURSE. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50' OF THE LOOPS.

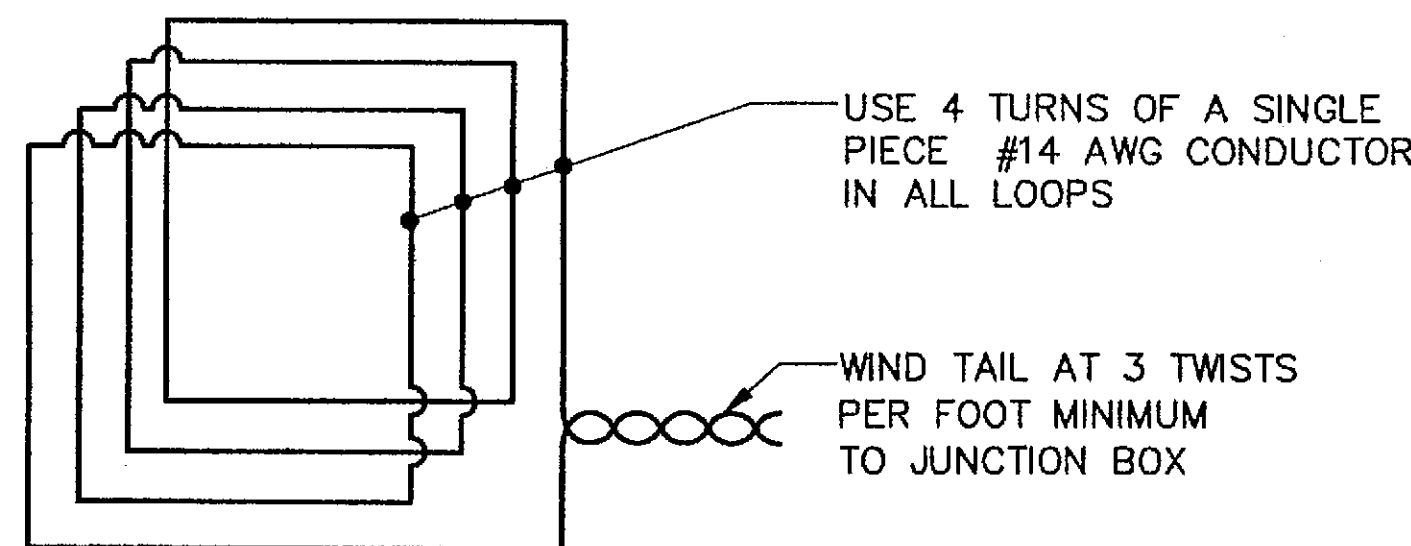
SHEET NOTES

1. INDUCTION LOOPS TO BE CENTERED IN TRAFFIC LANES.
2. DIMENSIONS ARE TYPICAL FOR ALL LANES.



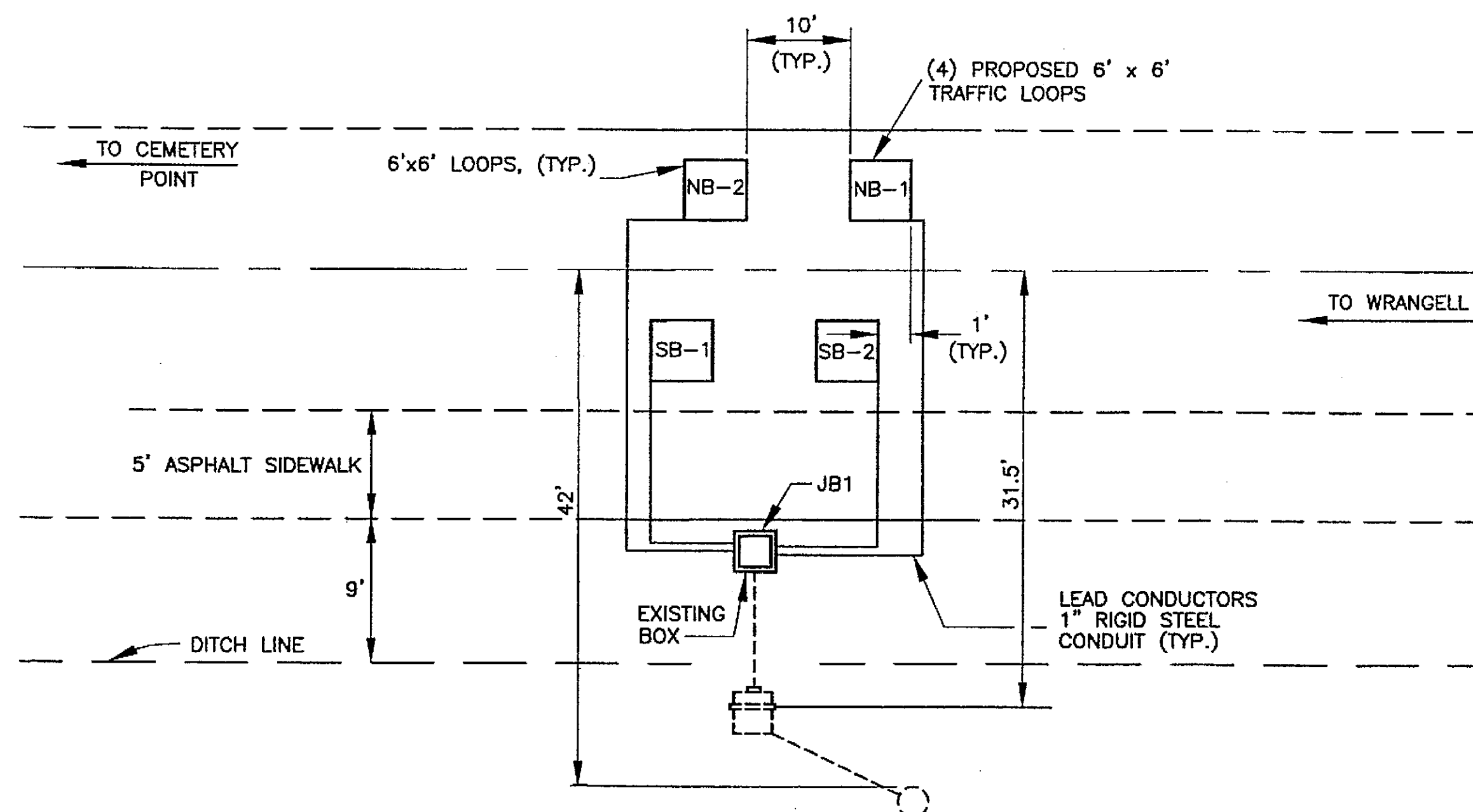
TYPICAL SPLICE DETAIL

- NOTES:
1. SCHEMATIC SKETCH SHOWS AN EXAMPLE OF TWO PAIRS USED WITH ONE SPARE.
 2. TERMINATE ALL SPARES WITHIN THE SPLICE BODY.
 3. SPLICE 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 SPLICE KITS SIMILAR OR EQUAL TO 3M PRODUCTS, TYPE 82-F1.



LOOP WIRING DETAIL

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION



PLAN

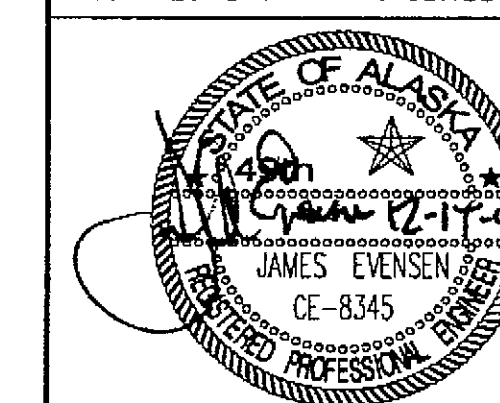
TRAFFIC COUNTER TYPICAL

N.T.S.

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'-0" SQUARE, 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 3 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS.
4. 12" MINIMUM CLEARANCE IS REQUIRED BETWEEN A LOOP AND A TAIL OR BETWEEN TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
5. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY PRIOR TO SEALING THE LOOPS UNDER ASPHALT.
6. INSTALL LOOPS IN LOOSE CRUSHED AGGREGATE BASE PRIOR TO COMPACTING THE BASE AS SHOWN IN CONDUIT DETAIL SECTION A-A.
7. 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.

DESIGNED BY: P. JONES



CHECKED BY: K. MATTSO
DRAWN BY: G.M.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT

PTR-LOOP DETECTOR DETAILS

PATH: Q:\SEA\68608\Planset\WRANGELL\DETECTOR.dwg
PLOT: PSPACE 1=1(F) OR MSPACE 1=?(F)

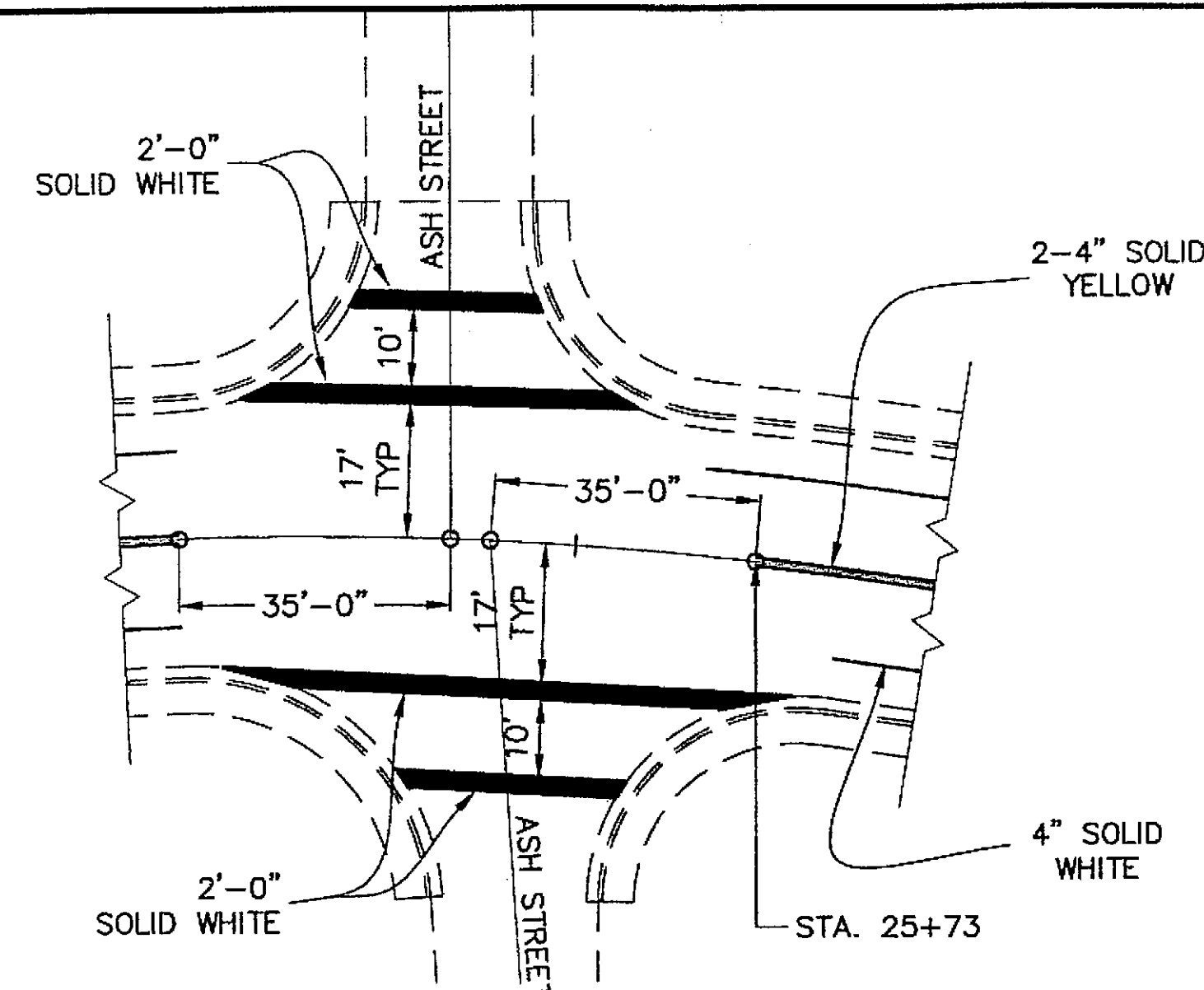
PROJECT DESIGNATION: **MGS-0913(24)**
~67948

YEAR: **2004**

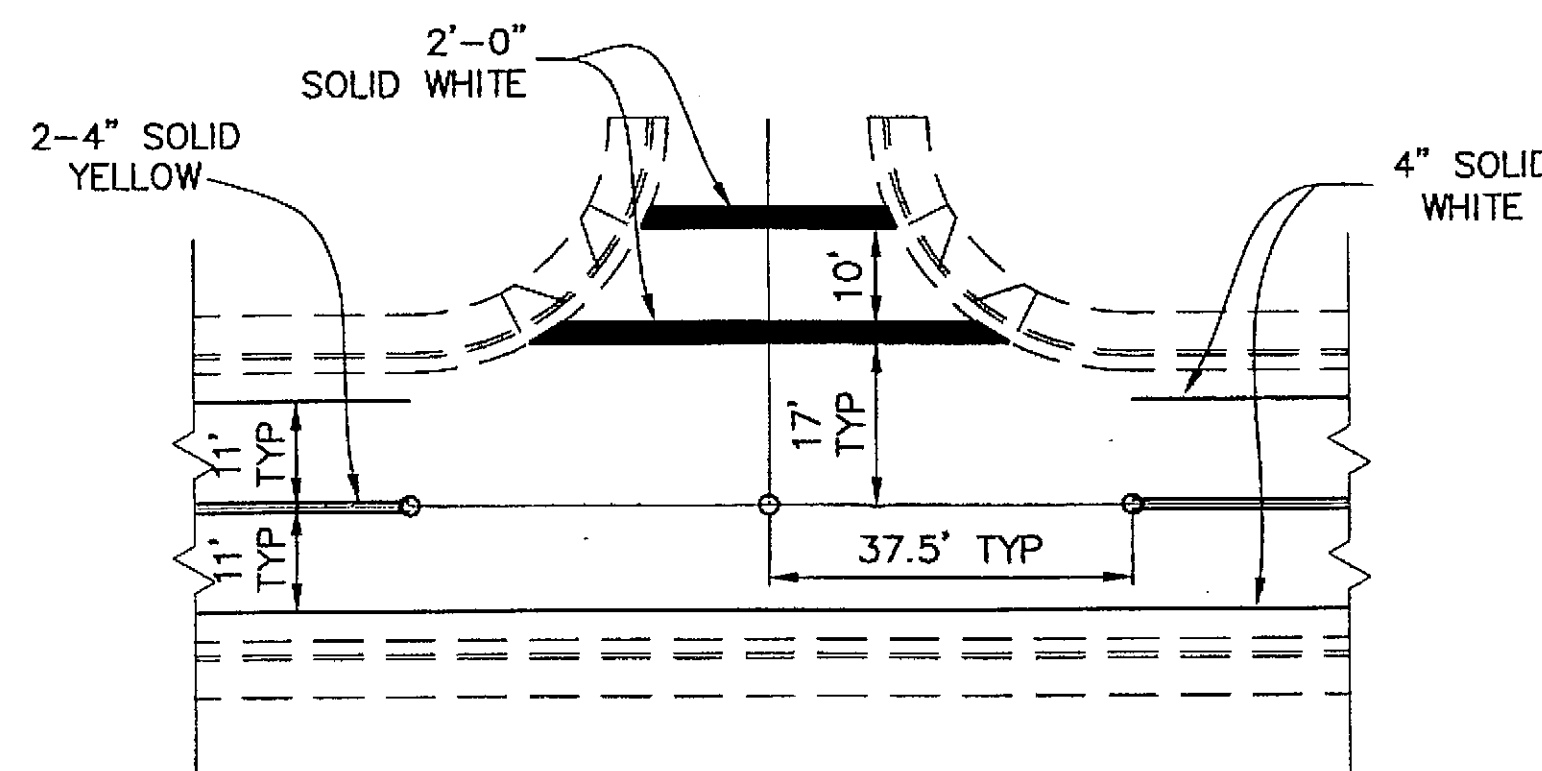
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TOTAL SHEETS: **10**

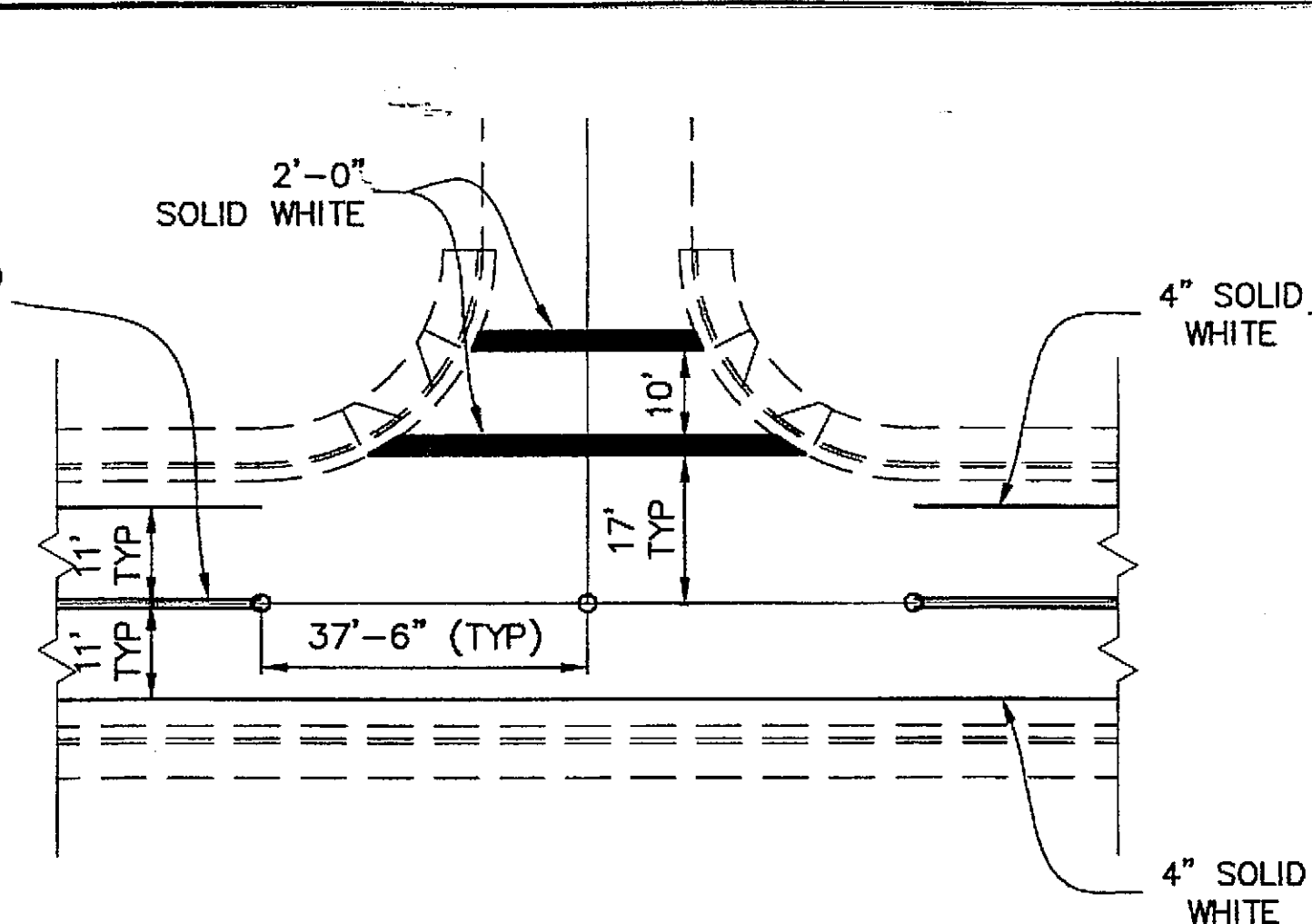
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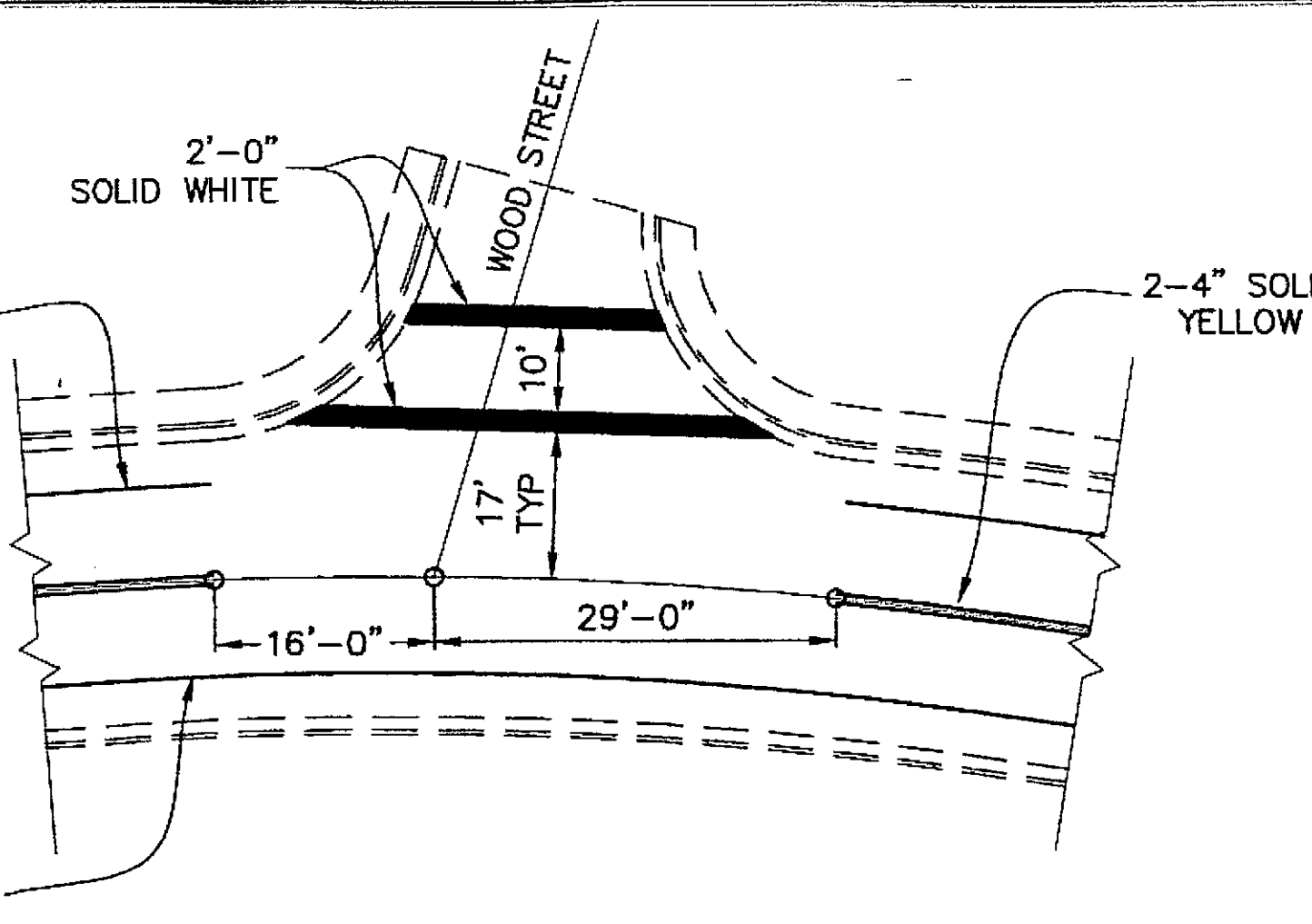
**ASH STREET
ZIMOVI HIGHWAY**



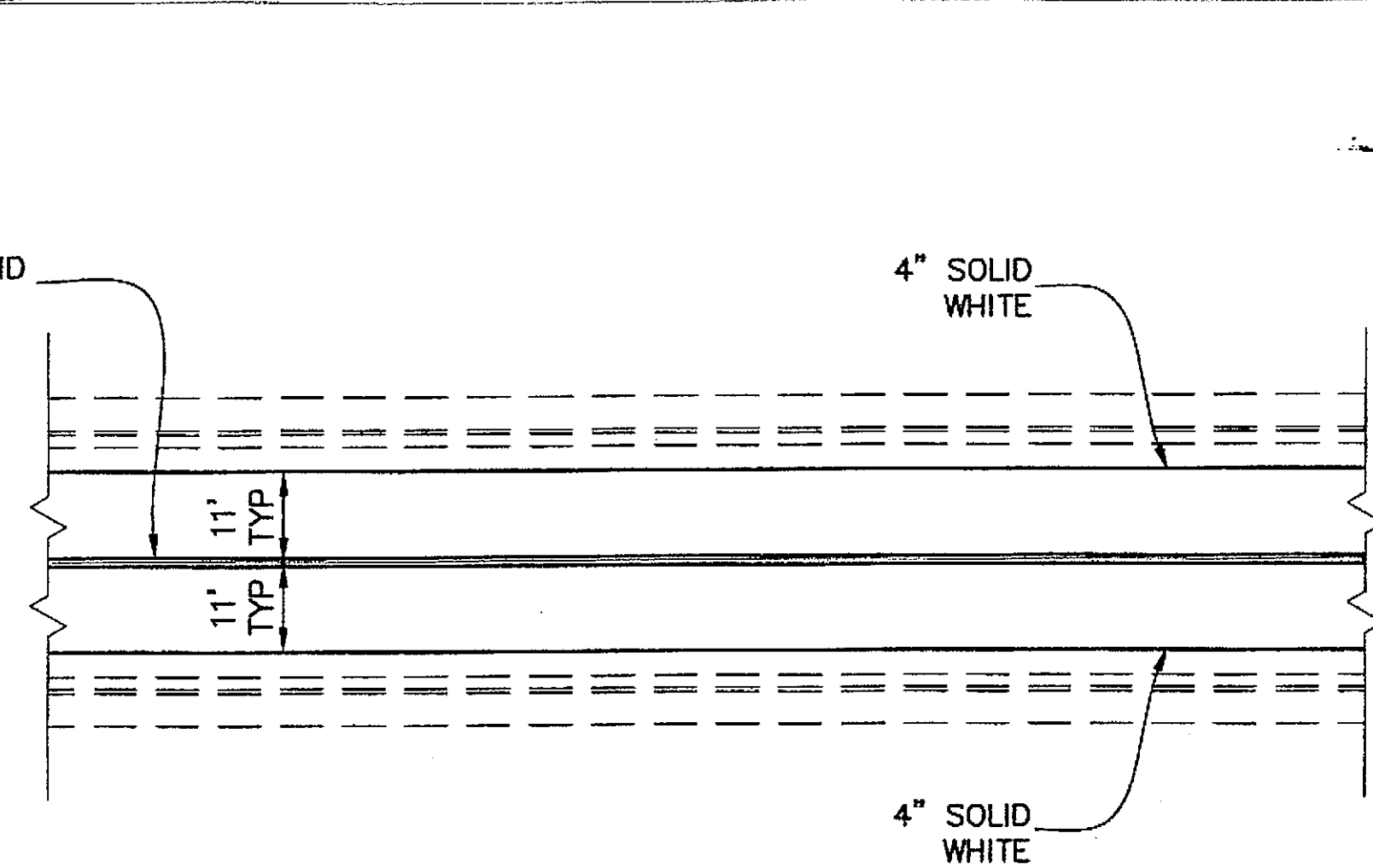
**CEDAR STREET
ZIMOVI HIGHWAY**



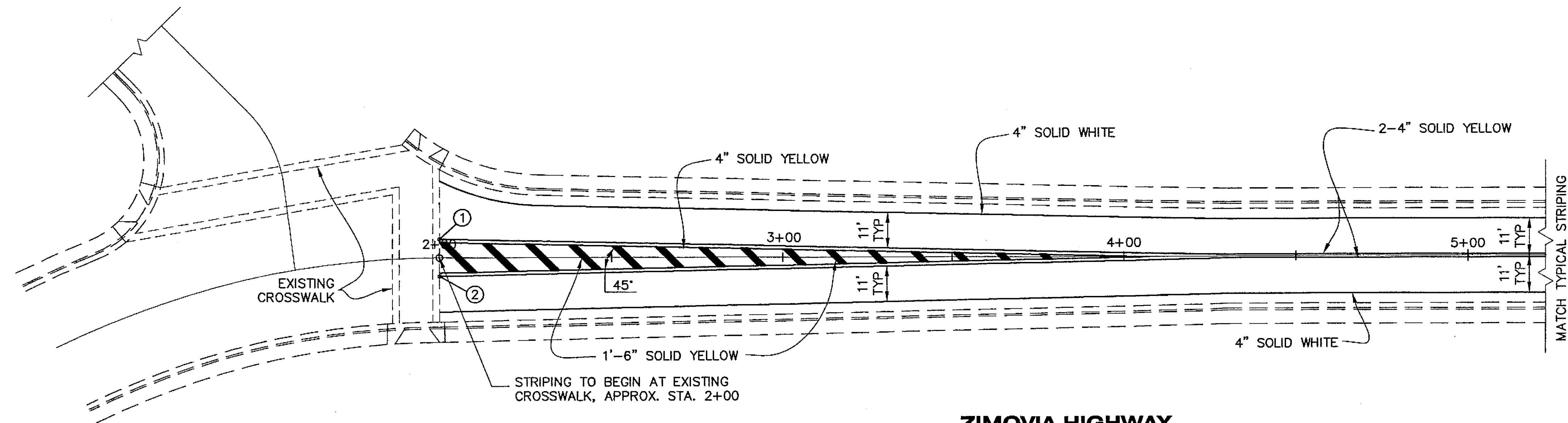
**TYPICAL INTERSECTION
ZIMOVI HIGHWAY**



**WOOD STREET
ZIMOVI HIGHWAY**



**TYPICAL STRIPING
STA. 5+15 TO STA. 42+75
ZIMOVI HIGHWAY**



STRIPING OFFSETS

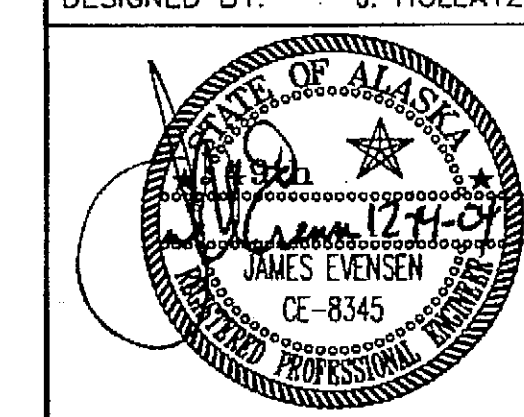
- ① 2+00 3.0' LT.
- ② 2+00 5.0' RT.

**STA. 2+00 TO STA. 5+15
ZIMOVI HIGHWAY**

**ZIMOVI HIGHWAY
STRIPING NOTES:**

- 1. ALL PAYMENT MARKINGS SHALL BE METHYL METHACRYLATE.
- 2. STATIONS SHOWN ARE APPROX. ONLY. CONTRACTOR SHALL MAKE ALL REFERENCES NECESSARY TO REPLACE EXISTING LAYOUT. FINAL LAYOUT SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

DESIGNED BY: J. HOLLATZ



CHECKED BY: T. MOORE
DRAWN BY: R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT

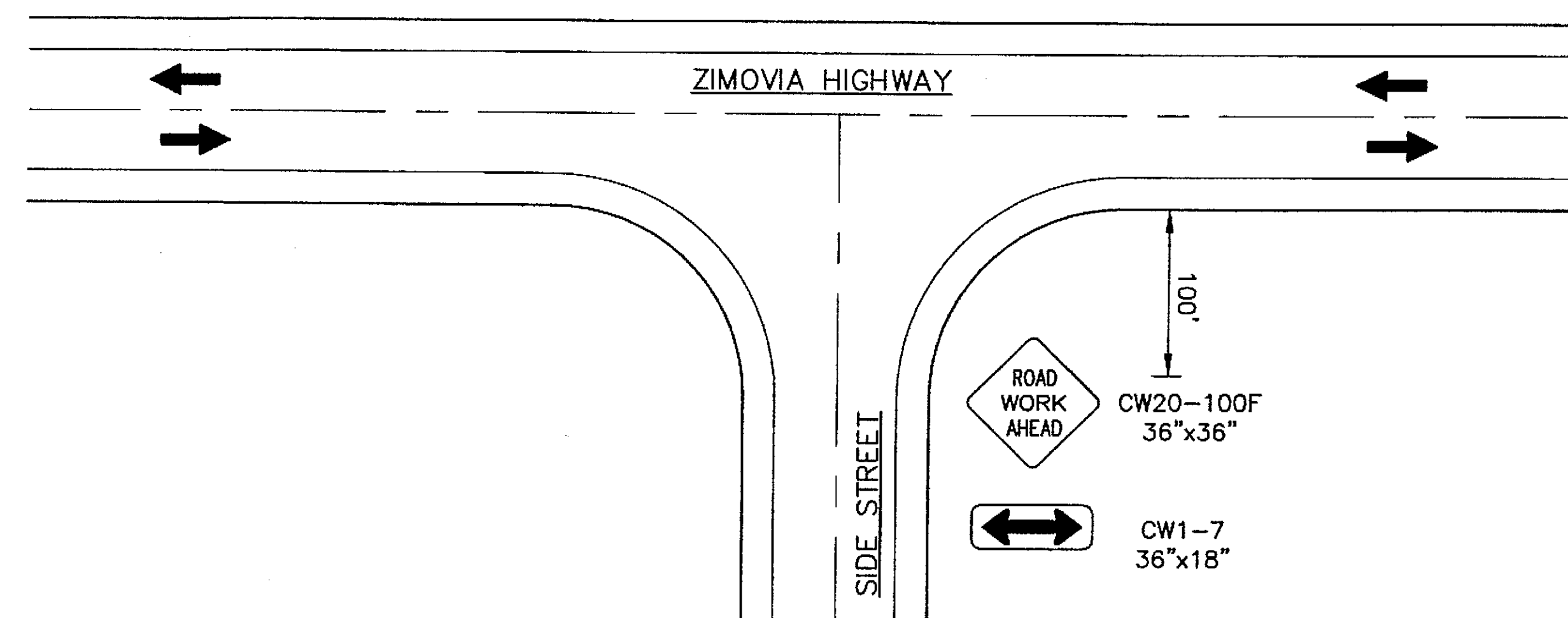
STRIPING PLAN

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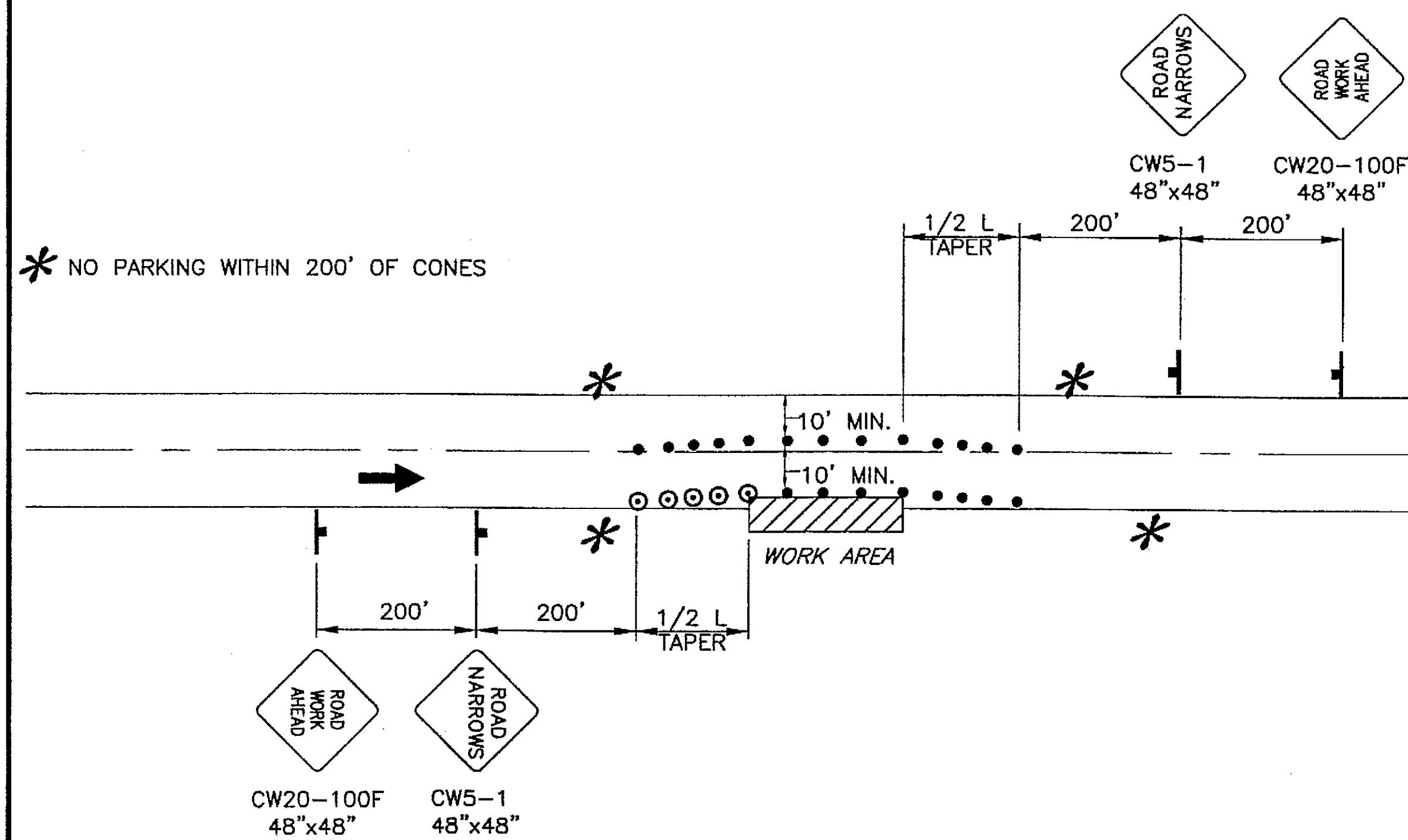
ASBUILT Filed

TRAFFIC CONTROL NOTES

- IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
- TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
- TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
- CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
- TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643 OF THE SPECIFICATIONS.
- CHANNELIZATION DEVICES WILL BE LIGHTED IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL IF USED AT NIGHT.
- THE CONTRACTOR WILL ATTEMPT TO RESTORE ACCESS TO BUSINESSES AS SOON AS POSSIBLE AND NO LATER THAN THE END OF THAT DAYS WORK SHIFT.
- THE CONTRACTOR SHALL GIVE 24 HOURS ADVANCE NOTICE BEFORE WORKING ON DRIVEWAYS.
- 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.
- IF VEHICLE STOP TIME EXCEEDS FIVE MINUTES, THE CONTRACTOR SHALL SHORTEN HIS WORK ZONE OR RESCHEDULE HIS WORK TO A LESS BUSY HOUR.
- FLAGGERS SHALL BE IN RADIO CONTACT WITH ONE ANOTHER.
- THE CONTRACTOR SHALL PATCH ALL BASE RECONSTRUCTION AREAS WITH CRUSHED ASPHALT GRINDINGS IMMEDIATELY AFTER FINISHING WORK IN THESE AREAS. THE CRUSHED ASPHALT GRINDINGS IN THESE AREAS SHALL BE MAINTAINED UNTIL THE PAVEMENT IS RECYCLED AND MIXED WITH EMULSION.
- WHEREVER A BUSINESS OR A GROUP OF BUSINESSES HAVE MULTIPLE APPROACHES, ONE APPROACH WILL BE LEFT OPEN UNTIL WORK IS COMPLETED.
- ACCESS TO HOMES AND BUSINESSES WILL BE KEPT OPEN AT ALL TIMES. WORK ON ACCESS TO ANY HOME OR BUSINESS THAT HAS ONLY ONE ACCESS, WILL BE DONE WITH HALF WIDTH CONSTRUCTION, AND BE CONTROLLED BY A FLAGGER.



PERMANENT CONSTRUCTION SIGNING
FOR SIDE STREETS



ROADWAY ENCROACHMENT

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

LEGEND

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

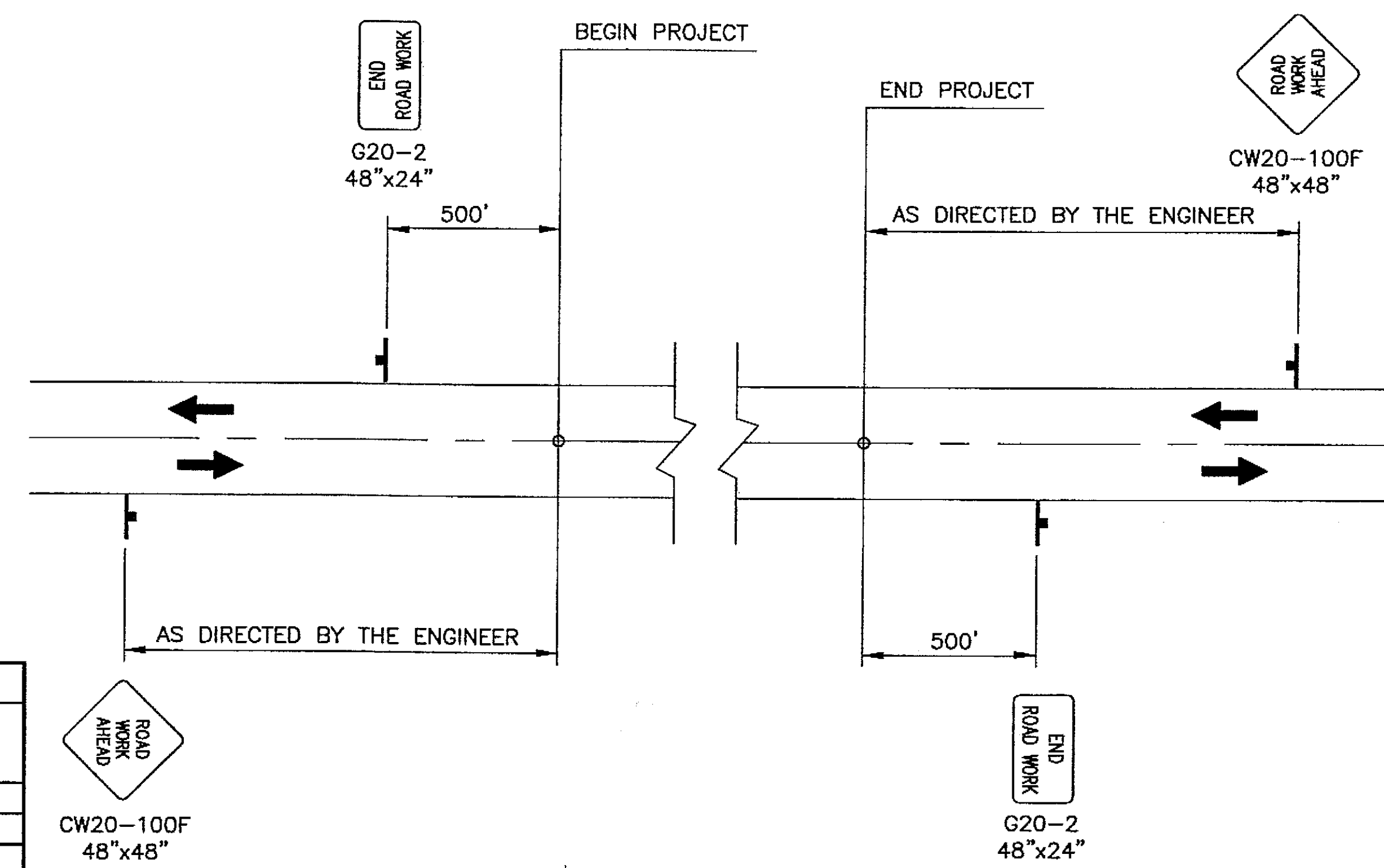
WHERE

L = LENGTH OF TAPER
W = WIDTH OF OFFSET
T = TAPER RATE

$$L = W \times T$$

TOP TABLE SETUP

SPEED (MILES PER HOUR)	BUFFER/ LENGTH (FT)	CONE/DRUM SPACING (FT)	TAPER FACTOR (T)
20	35	20	7:1
25	55	25	10:1
30	85	30	15:1
35	120	35	20:1
40	170	40	27:1
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



PERMANENT CONSTRUCTION SIGNING

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:
Q:\SEA\68608\PlanSet\WRANGELL\Wrg.dwg
Tue, 14/Dec/04 02:55PM IRobertson
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: TCP1

ADDENDUM NUMBER

ATTACHMENT NUMBER

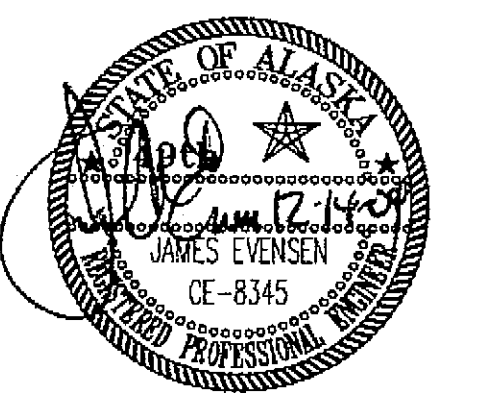
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT

Traffic Control Plan

DESIGNED BY: J. HOLLATZ



CHECKED BY: T. MOORE

DRAWN BY: R.S.

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

SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT

Traffic Control
Plan

PROJECT DESIGNATION NUMBER

MGS-0943 (24)-67948

STATE YEAR

ALASKA 2004

SHEET NUMBER TOTAL SHEETS

Y9 10

PATH:
Q:\SEA\68808\Planest\WRANGELL\Wrg.dwg
Tue, 14/Dec/04 02:56PM Irobertson
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: TCP2

ADDENDUM NUMBER

ATTACHMENT NUMBER

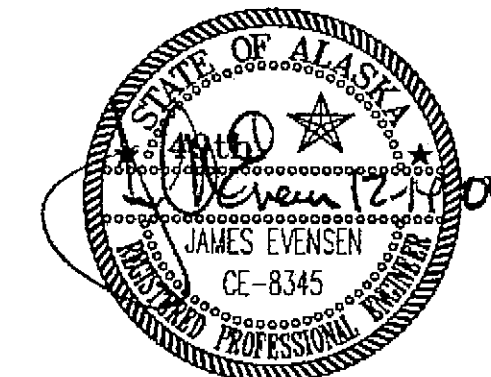
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SOUTHEAST REGION
NON-NHS HIGHWAY SYSTEM
REFURBISHMENT

Traffic Control Plan

DESIGNED BY: J. HOLLATZ



CHECKED BY: T. MOORE

DRAWN BY: R.S.

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REFURBISHMENT

**Traffic Control
Plan**

PROJECT DESIGNATION NUMBER

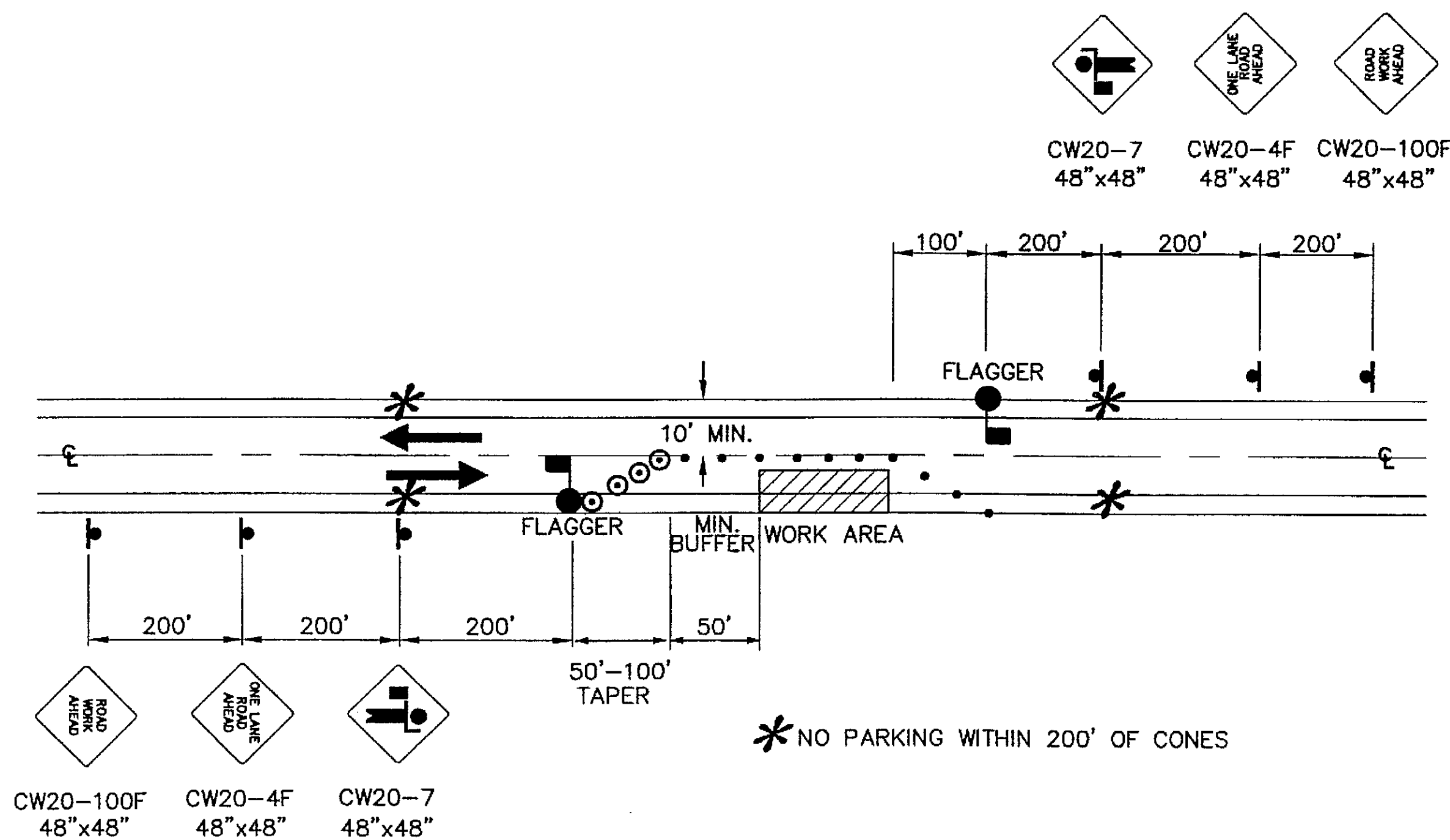
MGS-0943 (24)~67948

STATE YEAR

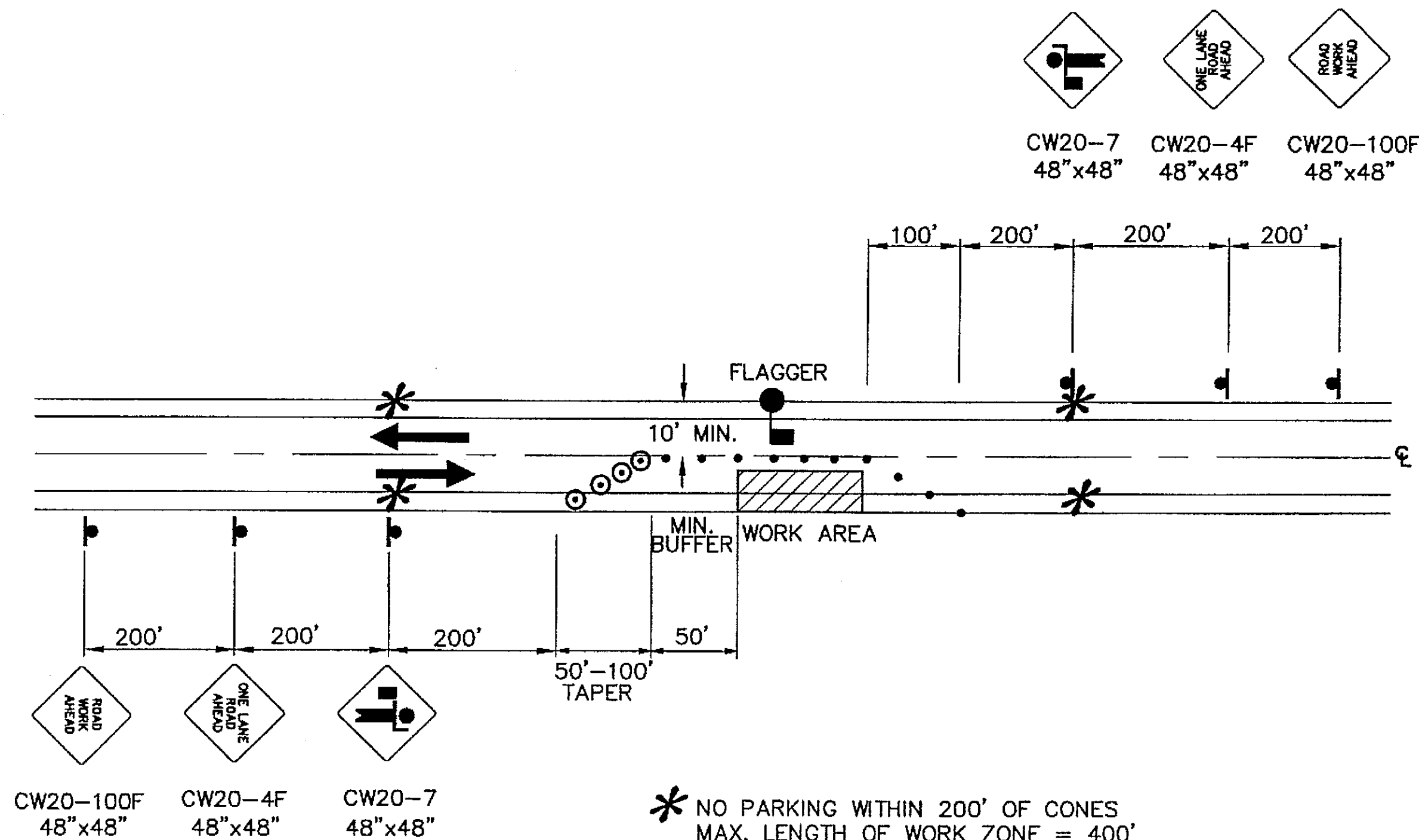
ALASKA 2004

SHEET NUMBER TOTAL SHEETS

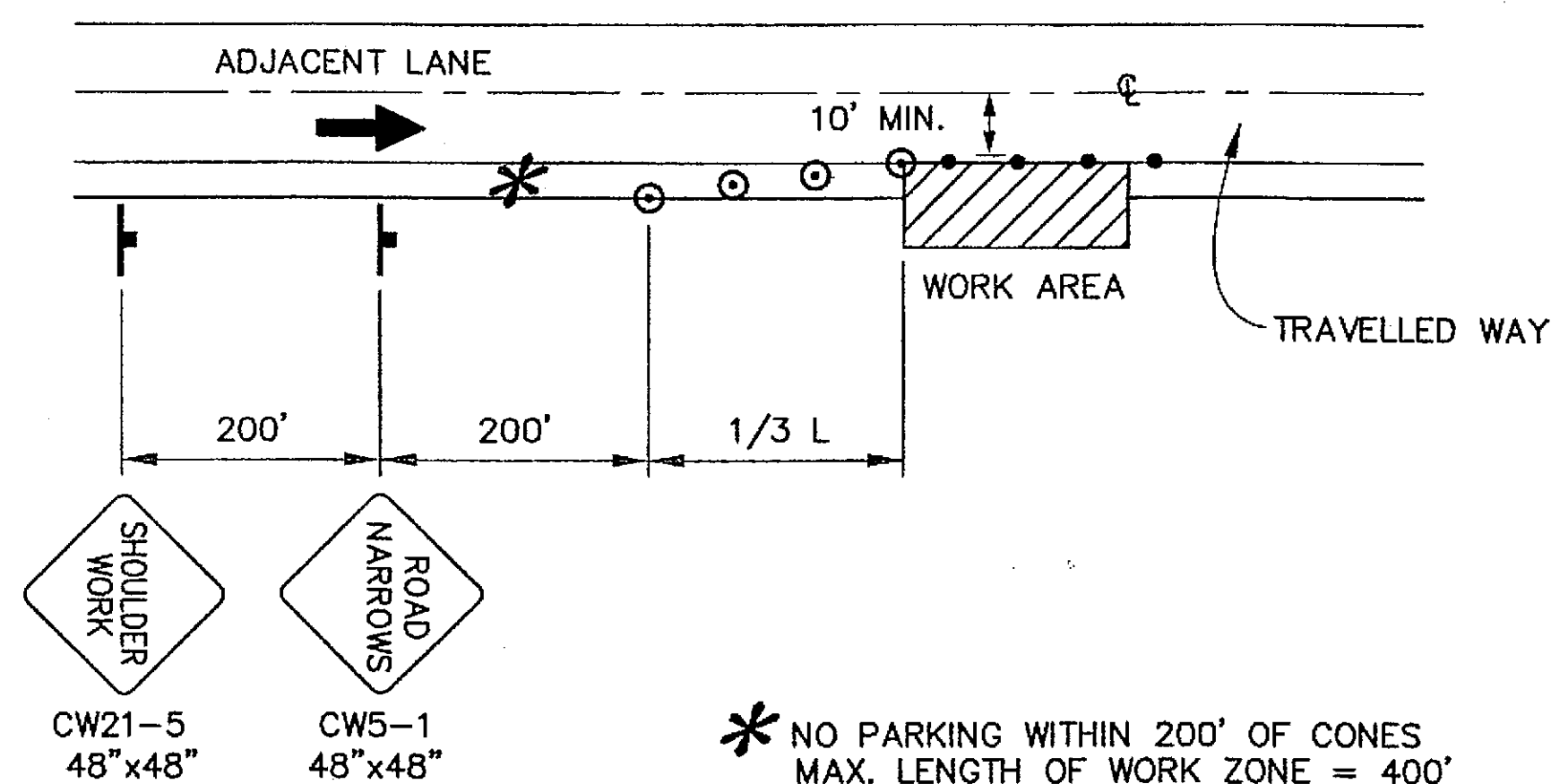
Y10 10



**TWO LANE ROAD - SINGLE LANE CLOSURE
DOUBLE FLAGGER**



**TWO LANE ROAD - SINGLE LANE CLOSURE
SINGLE FLAGGER**



SHOULDER WORK

LEGEND

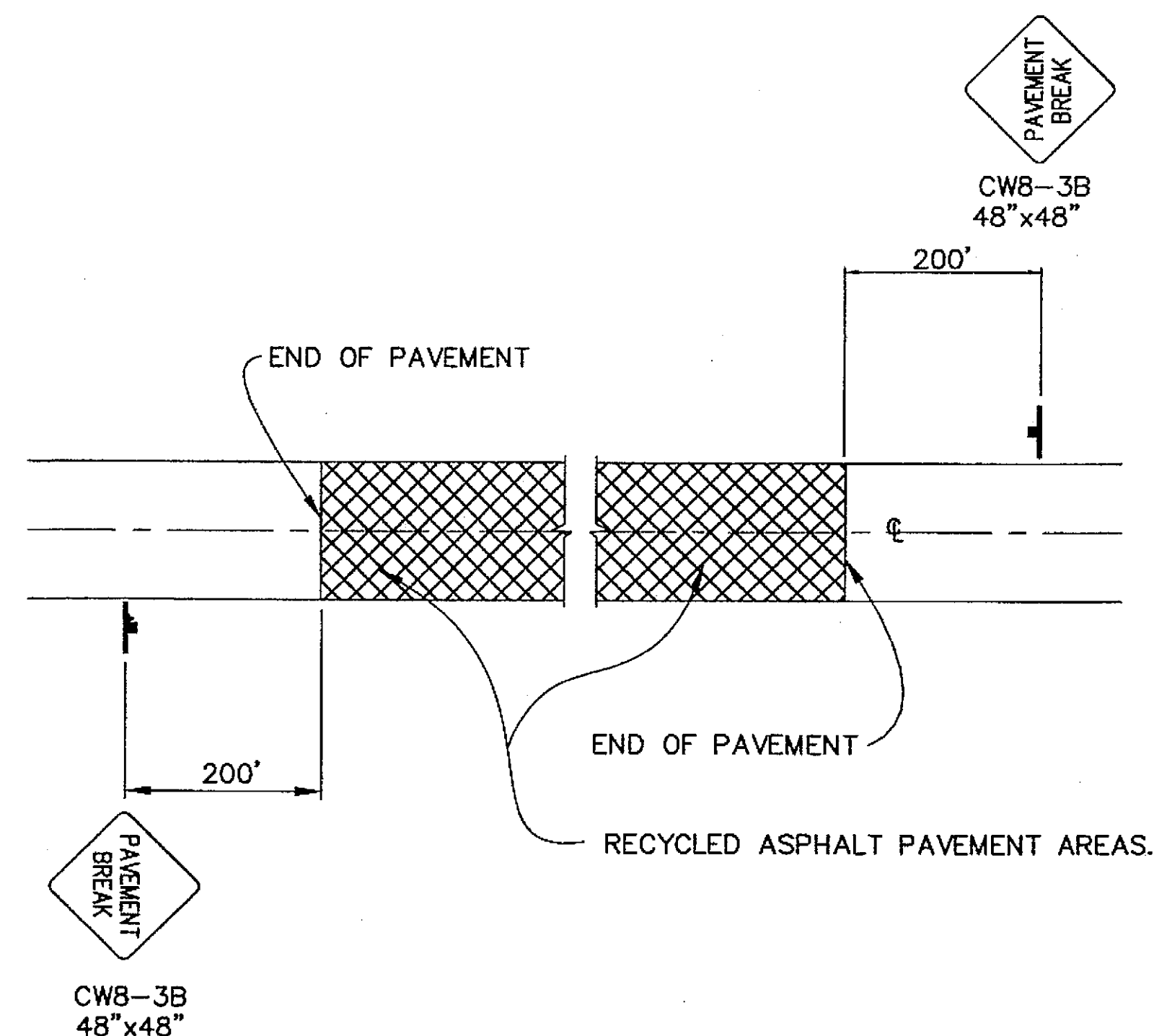
- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION

WHERE

L = LENGTH OF TAPER
W = WIDTH OF OFFSET
T = TAPER RATE
L = W x T

TOP TABLE SETUP

SPEED (MILES PER HOUR)	BUFFER/ LENGTH (FT)	CONE/DRUM SPACING (FT)	TAPER FACTOR (T)
20	35	20	7:1
25	55	25	10:1
30	85	30	15:1
35	120	35	20:1
40	170	40	27:1
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



SIGNING FOR SPECIAL AREAS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS