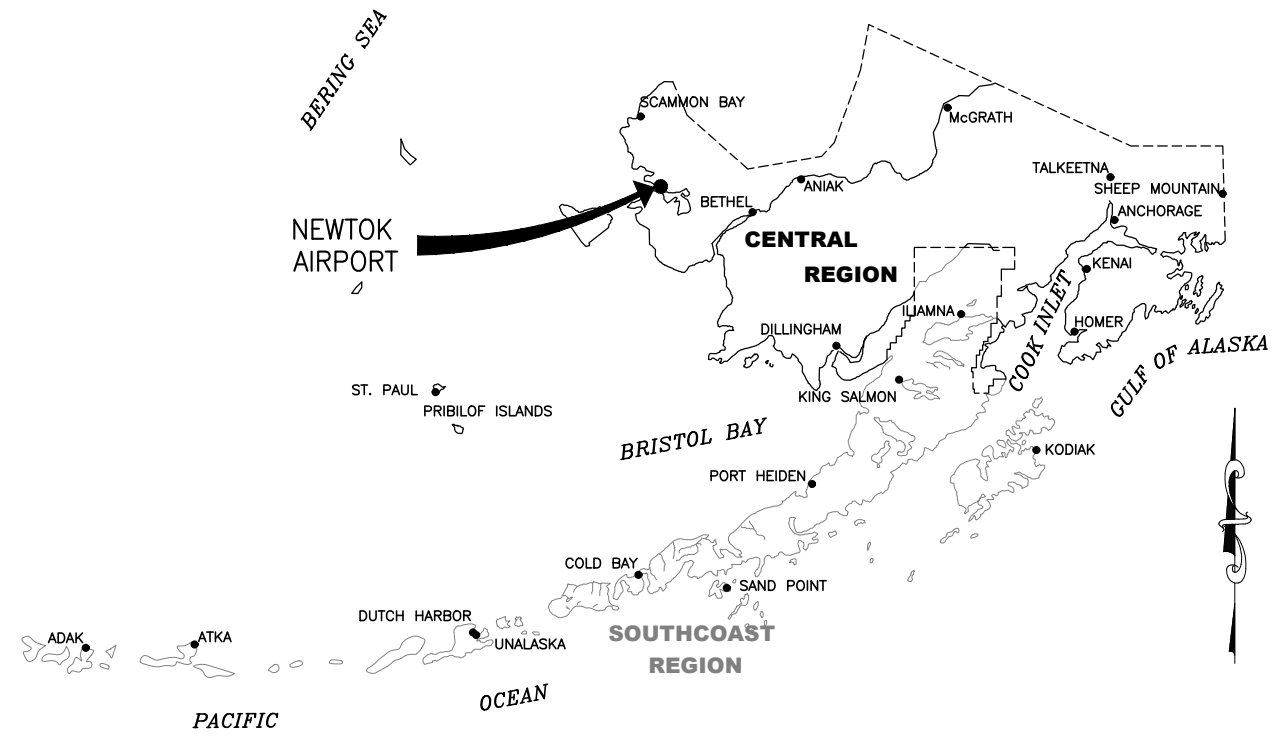


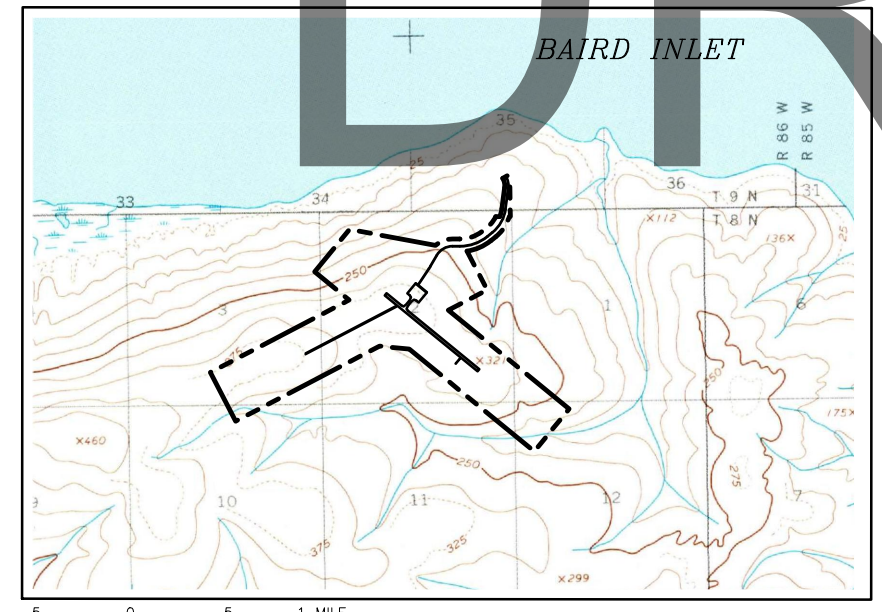
Date Revisited: 1/07/2019, 2:03 PM  
 Layout Name: Cover  
 File Path and Name: Z:\project\2652\01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652\_01-Cover-Index-Ext Quantities-Legend-Abbr.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

**CONSTRUCTION PLANS**  
**NEWTOK AIRPORT**  
**NEWTOK, ALASKA**  
**AIRPORT RELOCATION**  
**PROJECT No. CFAPT00310**  
**AIRPORT IMPROVEMENT PROGRAM**  
**AIP No. 3-02-0XXX-XXX-20XX**

**P.I.H.**  
**JANUARY 2019**



**ALASKA CENTRAL REGION**  
**LOCATION MAP**  
 NOT TO SCALE



**VICINITY MAP**

SCALE 1"= 1/2 MILE  
 T 8,9 N, R 86 W  
 SEWARD MERIDIAN  
 U.S.G.S. BAIRD INLET D-7

DRAFT

<b>CONCUR</b> DIANA ROTKIS	<b>DATE</b> DIRECTOR OF DESIGN AND CONSTRUCTION
<b>APPROVED</b> WOLFGANG E. JUNGE, P.E.	<b>DATE</b> REGIONAL PRECONSTRUCTION ENGINEER
<b>APPROVED</b> LUKE BOWLAND, P.E.	<b>DATE</b> AVIATION DESIGN SECTION CHIEF
<b>APPROVED</b> MORGAN MERRITT, P.E.	<b>DATE</b> PROJECT MANAGER

<b>PLANS DEVELOPED BY:</b> <b>R&amp;M CONSULTANTS, INC.</b> 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">BY</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	BY	DATE	REVISION													<b>STATE OF ALASKA</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>AND PUBLIC FACILITIES</b> <b>CENTRAL REGION</b> 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590	<b>NEWTOK AIRPORT</b> NEWTOK, ALASKA AIRPORT RELOCATION PROJECT No. CFAPT00310 AIP No. 3-02-XXXX-XXX-20XX COVER SHEET	DATE: 1/7/2019 SHEET: 1 of 47
BY	DATE	REVISION																	

Date Revised: 1/07/2019, 2:03 PM  
 Layout Name: Index Legend Abbv  
 File Path and Name: Z:\project\2652\01 DOT\_C Newtok Airport Relocation Design\Civil\AQA\2652\_01-Cover-Index-Ext Quantities-Legend-Abbr.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

# INDEX

# INDEX

# ABBREVIATIONS

SHEET TITLE	SHEET No.
COVER SHEET	1
INDEX, LEGEND, AND ABBREVIATIONS	2
ESTIMATED QUANTITIES	3
PROJECT LAYOUT PLAN	4
CLEARING PLAN	5
TYPICAL SECTIONS	6
TYPICAL SECTIONS	7
TYPICAL SECTIONS	8
TYPICAL SECTIONS	9
TYPICAL SECTIONS	10
RUNWAY PLAN AND PROFILE STA 100+00 TO STA 124+00	11
RUNWAY PLAN AND PROFILE STA 124+00 TO STA 139+00	12
TAXIWAY AND APRON PLAN AND PROFILE	13
AIRPORT ACCESS ROAD PLAN AND PROFILE STA 10+20.09 TO STA 33+00	14
AIRPORT ACCESS ROAD PLAN AND PROFILE STA 33+00 TO STA 53+67.97	15
HAUL ROAD PLAN AND PROFILE	16
TAXIWAY GRADING PLAN	17
APRON AND SREB PAD GRADING PLAN	18
SEGMENTED CIRCLE PAD GRADING PLAN	19
SPECIAL DITCH GRADING PLAN	20
SEGMENTED CIRCLE DETAILS	21
CIVIL DETAILS	22
SIGN DETAILS	23
STANDARD DETAIL - CULVERT PIPE & ARCH INSTALLATION DETAILS	24
STANDARD DETAIL - PIPE AND ARCH TABLES	25
STANDARD DETAIL - PIPE AND ARCH TABLES	26
STANDARD DETAIL - CULVERT END SECTIONS	27
STANDARD DETAIL - CULVERT MARKER POST	28
STANDARD DETAIL - CHAIN LINK FENCE	29
STANDARD DETAIL - CHAIN LINK FENCE GATE	30
STANDARD DETAIL - BRACING FOR SIGNS MOUNTED ON SINGLE POST	31
STANDARD DETAIL - POST MOUNTED SIGN OFFSET AND HEIGHT	32
STANDARD DETAIL - SIGN POST BASE AND FOUNDATION	33
LIGHTING PLAN APRON	E1
LIGHTING PLAN STA 102+00 TO 114+50	E2
LIGHTING PLAN STA 114+50 TO STA 126+50	E3

SHEET TITLE	SHEET No.
LIGHTING PLAN STA 126+50 TO STA 137+00	E4
LIGHTING PLAN TAXIWAY	E5
LARGE SCALE LIGHTING PLAN APRON	E6
LIGHTING DETAILS	E7
LIGHTING AND BEACON DETAILS	E8
WIND CONE AND BEACON DETAILS	E9
ELECTRICAL EQUIPMENT ENCLOSURE PLAN AND ELEVATIONS	E10
ONE LINE DIAGRAM, DETAIL, AND PANEL SCHEDULE	E11
LIGHTING CONTROL DIAGRAM AND SEQUENCE OF OPERATION	E12
POWERLINE EXTENSION PLAN STA 10+00 TO STA 32+00	UE1
POWERLINE EXTENSION PLAN STA 32+00 TO STA 54+00	UE2

AR	ACCESS ROAD	MIN	MINIMUM
BOP	BEGINNING OF PROJECT	MIRL	MEDIUM INTENSITY RUNWAY LIGHTING
BVCS	BEGIN VERTICAL CURVE STATION	MITL	MEDIUM INTENSITY TAXIWAY LIGHTING
BVCE	BEGIN VERTICAL CURVE ELEVATION	N	NORTHING
CASC	CRUSHED AGGREGATE SURFACE COURSE	NIC	NOT IN CONTRACT
℄	CENTERLINE	NOTAM	NOTICE TO AIRMAN
CMP	CORRUGATED METAL PIPE	NTS	NOT TO SCALE
CS	CONTINGENT SUM	OFA	OBJECT FREE AREA
CY	CUBIC YARD	OG	ORIGINAL GROUND
DIA	DIAMETER	OHE	OVERHEAD ELECTRIC LINE
DOT	DEPARTMENT OF TRANSPORTATION	PC	POINT OF CURVATURE
E	EASTING	PI	POINT OF INTERSECTION
ELEV	ELEVATION	PT	POINT OF TANGENCY
EOP	END OF PROJECT	PVI	POINT OF VERTICAL INTERSECTION
ESCP	EROSION AND SEDIMENT CONTROL PLAN	QTY	QUANTITY
EVCS	END VERTICAL CURVE STATION	R	RADIUS
EVCE	END VERTICAL CURVE ELEVATION	RD	ROAD
FAA	FEDERAL AVIATION ADMINISTRATION	RSA	RUNWAY SAFETY AREA
FF	FINISH FLOOR	RT	RIGHT
FG	FINISH GRADE	RW	RUNWAY
GALV	GALVANIZED	S	SLOPE
GB	GRADE BREAK	SF	SQUARE FEET
HMA	HOT MIX ASPHALT	SREB	SNOW REMOVAL EQUIPMENT BUILDING
IN	INCH	STA	STATION
K	RATE OF CURVATURE	SY	SQUARE YARD
LB	POUND	TOFA	TAXIWAY OBJECT FREE AREA
LF	LINEAR FOOT	TSA	TAXIWAY SAFETY AREA
LS	LUMP SUM	TW	TAXIWAY
LT	LEFT	TYP	TYPICAL
MAINT	MAINTENANCE	USGS	UNITED STATES GEOLOGICAL SURVEY
		VC	VERTICAL CURVE

## LEGEND

DESCRIPTION	EXISTING	PROPOSED
AIRPORT PROPERTY BOUNDARY	---	---
CENTERLINE	---	---
CONTOURS	---	---
CULVERT	---	---
DETAIL CALLOUT	---	---
DITCH/SWALE	---	---
GEOTEXTILE, REINFORCMENT	---	---
GEOTEXTILE, SEPARATION	---	---
GEOTEXTILE, STABILIZATION	---	---
GRADE BREAK	---	---
GRAVEL EDGE	---	---
HAUL ROUTE (TWO WAY)	---	---
RUNWAY SAFETY AREA	---	---
SIGN POST	---	---
TOE OF SLOPE (FILL)	---	---
TOE OF SLOPE (CUT)	---	---
WINDCONE	---	---
WINDCONE AND SEGMENTED CIRCLE	---	---
MIRL/MITL	---	---
OVERHEAD ELECTRICAL LINE	---	---
FUEL TANK	---	---
ROTATING BEACON	---	---

# DRAFT

## APPENDIX DRAWINGS

SHEET TITLE	SHEET No.
SURVEY CONTROL SHEET	AB1
CONSTRUCTION SAFETY PHASING PLAN	AD1
MATERIAL SITE PLAN	AH1
SNOW REMOVAL EQUIPMENT BUILDING PLAN	AL1

BY	DATE	REVISION

**PLANS DEVELOPED BY:**  
**R&M CONSULTANTS, INC.**  
 9101 VANGUARD DR.  
 ANCHORAGE, AK 99507  
 (907) 522-1707  
 CERT. OF AUTH. NO. AECC111

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
**NEWTOK, ALASKA**  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 INDEX, LEGEND, AND ABBREVIATIONS

DATE:  
 1/7/2019  
 SHEET:  
 2 of 47

# ESTIMATED QUANTITIES

Date Recvied: 1/07/2019, 2:03 PM  
 Layout Name: Est Quantities  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\AQ\2652.01-Cover-Index-Ext Quantities-Legend-Abbr.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

AWP No.	AWP PAY ITEM	UNIT	QUANTITY	AWP No.	AWP PAY ITEM	UNIT	QUANTITY
D701.010.0036	CS PIPE, 36-INCH	LF	142	L101.020.0000	ROTATING BEACON, MEDIUM INTENSITY, L-801A	EA	1
F162.010.0008	8-FEET CHAIN-LINK FENCE	LF	79	L103.010.0030	30-FEET HINGED POLE BEACON TOWER	EA	1
F162.030.0004	SINGLE SWING GATE, 4-FEET WIDE	EA	1	L107.010.0008	8-FEET LIGHTED WIND CONE, IN PLACE L-807	EA	2
F170.010.0000	STEEL BOLLARD	EA	22	L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	LF	9,925
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D	L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	LF	17,529
G115.010.0000	WORKERS MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D	L108.070.0000	GROUND ROD	EA	27
G130.010.0000	FIELD OFFICE	LS	ALL REQ'D	L109.030.0000	ELECTRICAL ENCLOSURE AND FOUNDATION IN PLACE	EA	1
G130.020.0000	FIELD LABORATORY	LS	ALL REQ'D	L109.040.0000	INSTALLATION OF ELECTRICAL EQUIPMENT IN NEW OR EXISTING STRUCTURE	EA	1
G130.060.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EA	1	L110.030.1002	RIGID STEEL CONDUIT, 2-INCH	LF	415
G130.110.0000	FIELD COMMUNICATIONS	CS	ALL REQ'D	L110.110.1002	PE CONDUIT, 2-INCH	LF	8,568
G131.010.0000	ENGINEERING TRANSPORTATION (TRUCK)	EA	3	P151.010.0000	CLEARING	AC	74
G131.020.0000	ENGINEERING TRANSPORTATION (ATV)	EA	2	P152.010.0000	UNCLASSIFIED EXCAVATION	CY	36,410
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LS	ALL REQ'D	P152.190.0000	BORROW	CY	548,100
G135.020.0000	EXTRA THREE PERSON SURVEY PARTY	HR	100	P154.010.0000	SUBBASE COURSE	CY	40,500
G150.010.0070	EQUIPMENT RENTAL, DOZER 70-MINIMUM	HR	50	P151.010.0000	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL ADMINISTRATION	LS	ALL REQ'D
G210.010.0000	CONTRACTOR SAFETY PLAN COMPLIANCE DOCUMENT	LS	ALL REQ'D	P156.020.0000	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL	CS	ALL REQ'D
G300.010.0000	CPM SCHEDULING	LS	ALL REQ'D	P156.060.0000	WITHHOLDING	CS	ALL REQ'D
G705.010.0000	WATERING FOR DUST CONTROL	MGAL	1,150	P156.070.0000	SWPPP MANAGER	LS	ALL REQ'D
L100.020.0000	REGULATOR, L-828	EA	1	P167.010.0000	DUST PALLIATIVE	SY	91,050
L100.030.0000	MEDIUM INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L-861 AND L-861E	EA	47	P207.010.0000	CRUSHED AGGREGATE SURFACE COURSE	CY	27,100
L100.040.0000	TAXIWAY EDGE LIGHT, L-861T	EA	46	P207.050.0000	CRUSHED AGGREGATE SURFACE COURSE STOCKPILE	CY	100
L100.060.0000	PRIMARY HANDHOLE, L-867, SIZE B	EA	5	P640.020.0000	SEGMENTED CIRCLE (PANEL-TYPE)	LS	ALL REQ'D
L100.170.0000	SPARE PARTS	CS	ALL REQ'D	P650.020.0000	SOIL ANCHOR TIE-DOWN	SET	3

DRAFT

AWP No.	AWP PAY ITEM	UNIT	QUANTITY
P660.030.0000	REFLECTIVE MARKER, TYPE II	EA	20
P660.070.0000	CONE, 18 INCH	EA	93
P661.010.0000	STANDARD SIGN	SF	39.75
P671.010.0000	RUNWAY CLOSURE MARKER, VINYL MESH	EA	5
P680.010.0000	SILT FENCE	LF	26,780
P681.010.0000	GEOTEXTILE, SEPARATION	SY	129,620
P681.020.0000	GEOTEXTILE, STABILIZATION	SY	230,490
P681.040.0000	GEOTEXTILE, REINFORCEMENT - TYPE 2	SY	8,990
S142.050.0010	EQUIPMENT STORAGE BUILDING NO. 1	EA	1
S142.050.0020	EQUIPMENT STORAGE BUILDING NO. 2	EA	1
S143.010.1000	HEATING FUEL TANK, 1000 GAL	EA	1
S143.020.0000	FUEL	LS	ALL REQ'D
S143.040.0000	ELECTRIC DISPENSING SYSTEM	EA	1
S143.050.1000	MOTOR VEHICLE FUEL-DISPENSING TANK, 1000 GAL	EA	1
S143.060.0000	SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN	LS	ALL REQ'D
T901.010.0000	SEEDING	AC	24
T901.030.0000	WATER FOR MAINTENANCE	MGAL	4,650
T905.010.0020	TOPSOILING, CLASS B	SY	116,160
U500.020.0000	ELECTRICAL LINE EXTENSION	LS	ALL REQ'D

## ESTIMATING FACTORS

AWP No.	AWP PAY ITEM	FACTOR
G705.010.0000	WATERING FOR DUST CONTROL	40 GAL/SY

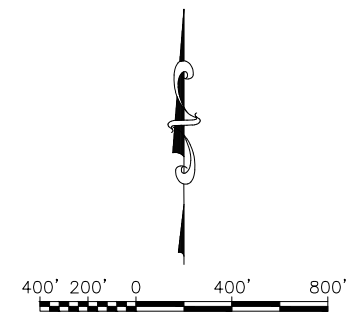
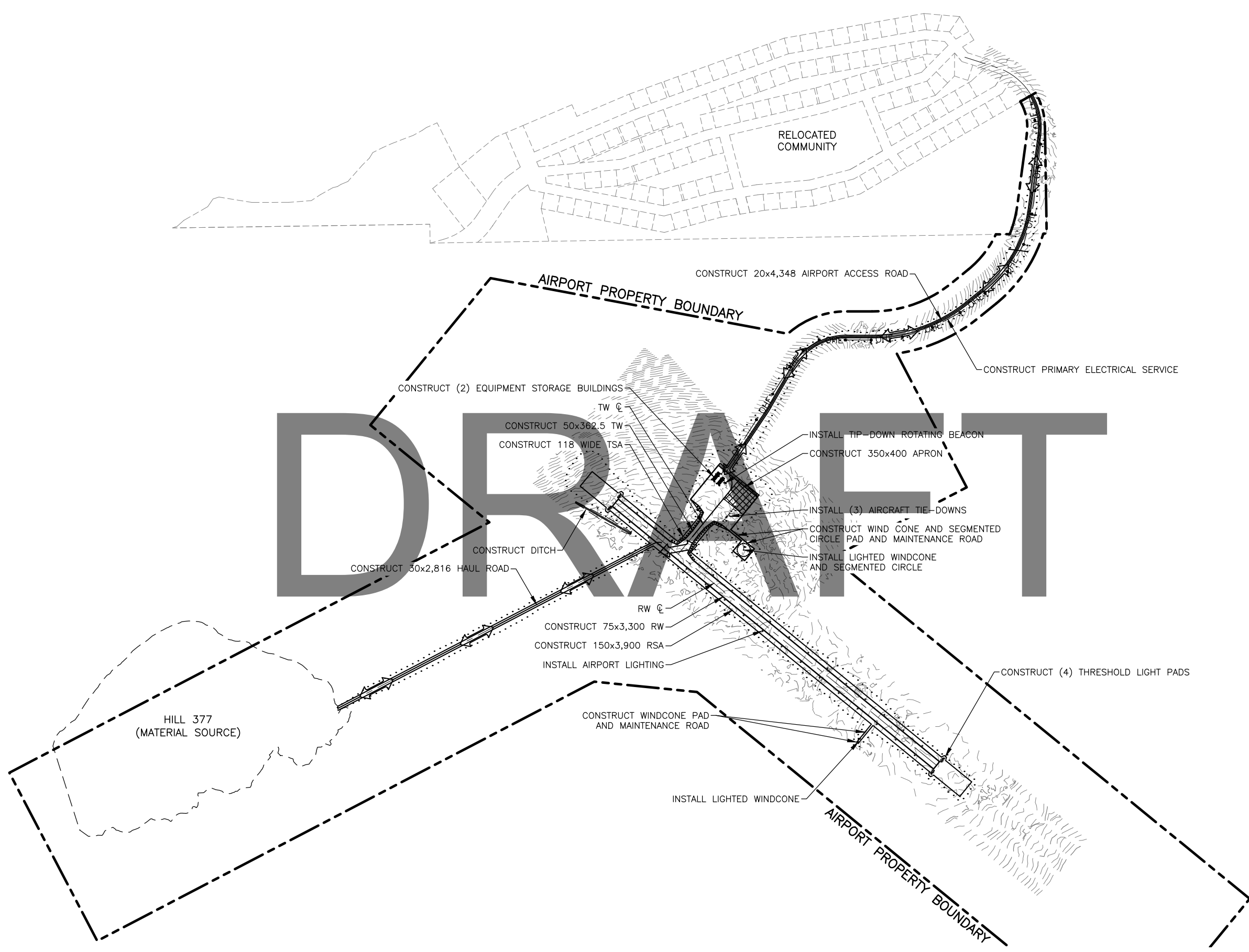
<b>PLANS DEVELOPED BY:</b> <b>R&amp;M CONSULTANTS, INC.</b> 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111					
BY	DATE	REVISION			

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 ESTIMATED QUANTITIES

DATE:  
 1/7/2019  
 SHEET:  
 3 of 47

Date Revisited: 1/07/2019, 2:05 PM  
 Layout Name: P.L.P.  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\AQA\2652.01-Project Layout Plan.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



**LEGEND:**

- HAUL ROUTE (TWO WAY)
- 200x200 STAGING AND STOCKPILE AREA

DRAFT

BY	DATE	REVISION

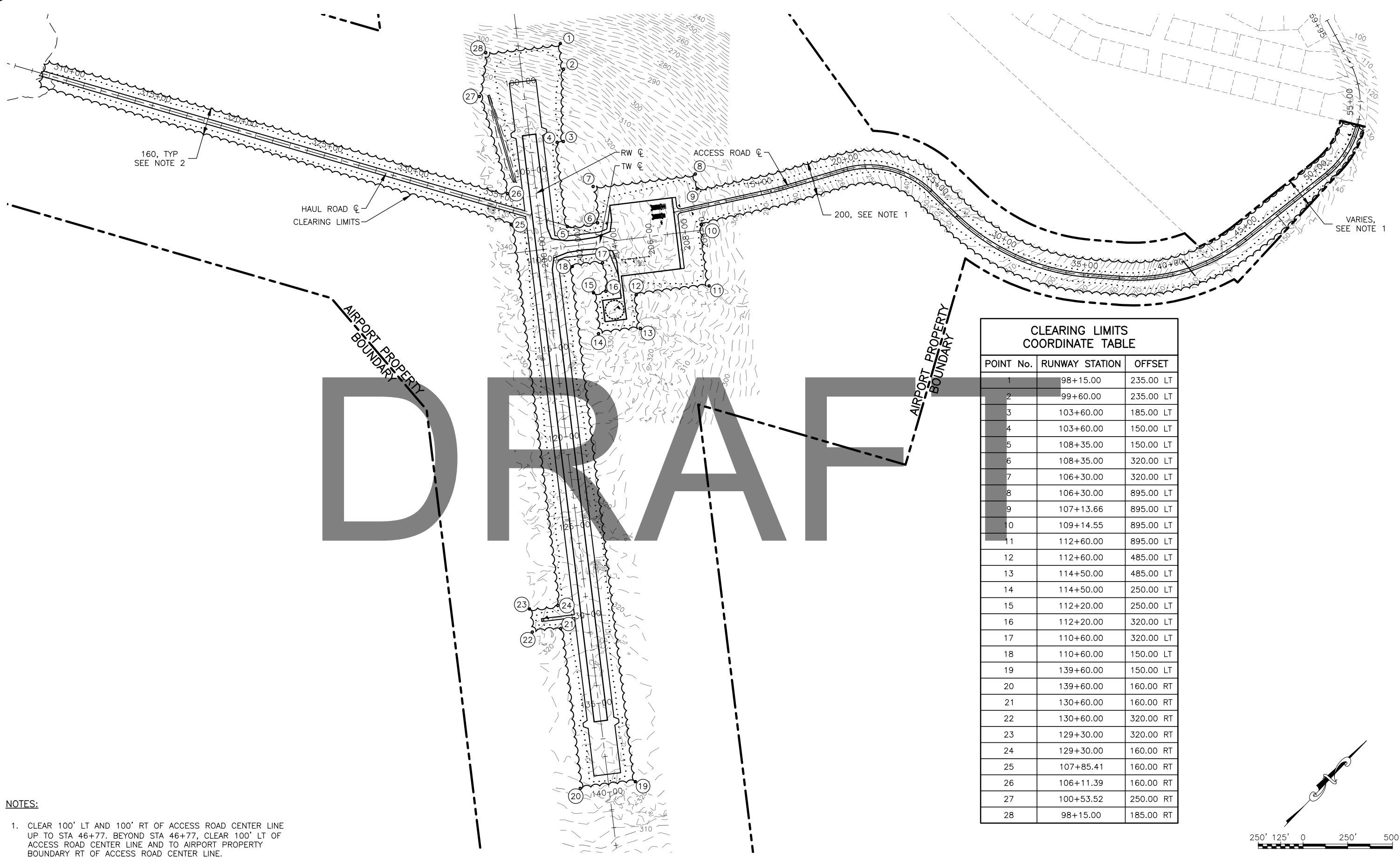
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 PROJECT LAYOUT PLAN

DATE: 1/6/2019  
 SHEET: 4 OF 47

Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

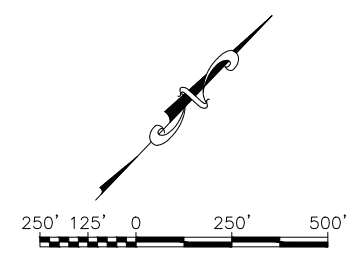
Date Revised: 1/07/2019 2:08 PM  
 Layout Name: Clearing Plan  
 File Path and Name: I:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\Acad\2652.01-Clearing Plan.dwg



- NOTES:**
1. CLEAR 100' LT AND 100' RT OF ACCESS ROAD CENTER LINE UP TO STA 46+77. BEYOND STA 46+77, CLEAR 100' LT OF ACCESS ROAD CENTER LINE AND TO AIRPORT PROPERTY BOUNDARY RT OF ACCESS ROAD CENTER LINE.
  2. CLEAR 80' LT AND 80' RT OF HAUL ROAD CENTER LINE.

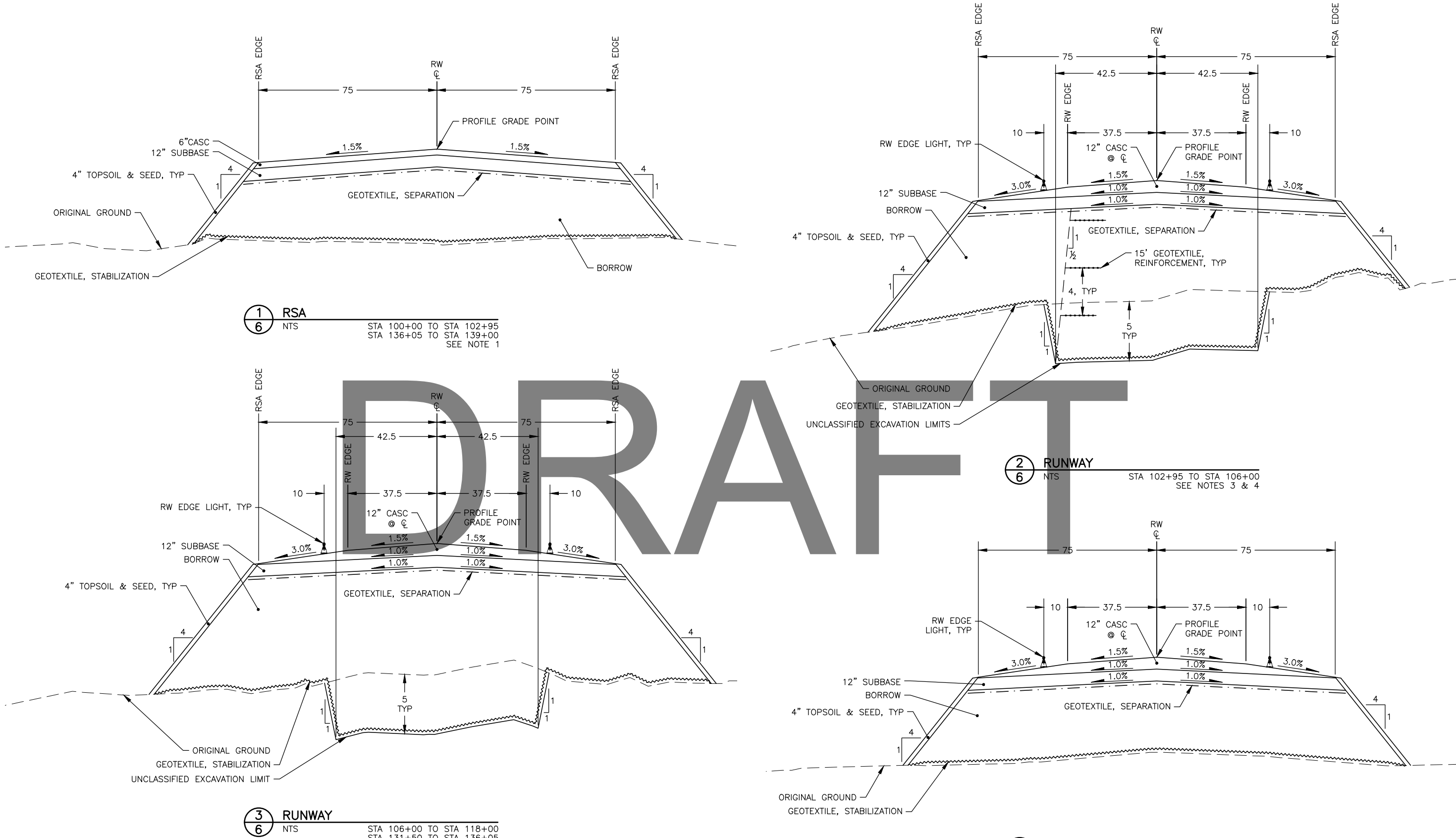
**CLEARING LIMITS  
COORDINATE TABLE**

POINT No.	RUNWAY STATION	OFFSET
1	98+15.00	235.00 LT
2	99+60.00	235.00 LT
3	103+60.00	185.00 LT
4	103+60.00	150.00 LT
5	108+35.00	150.00 LT
6	108+35.00	320.00 LT
7	106+30.00	320.00 LT
8	106+30.00	895.00 LT
9	107+13.66	895.00 LT
10	109+14.55	895.00 LT
11	112+60.00	895.00 LT
12	112+60.00	485.00 LT
13	114+50.00	485.00 LT
14	114+50.00	250.00 LT
15	112+20.00	250.00 LT
16	112+20.00	320.00 LT
17	110+60.00	320.00 LT
18	110+60.00	150.00 LT
19	139+60.00	150.00 LT
20	139+60.00	160.00 RT
21	130+60.00	160.00 RT
22	130+60.00	320.00 RT
23	129+30.00	320.00 RT
24	129+30.00	160.00 RT
25	107+85.41	160.00 RT
26	106+11.39	160.00 RT
27	100+53.52	250.00 RT
28	98+15.00	185.00 RT



<p><b>PLANS DEVELOPED BY:</b>  <b>R&amp;M CONSULTANTS, INC.</b>          9101 VANGUARD DR.          ANCHORAGE, AK 99507          (907) 522-1707          CERT. OF AUTH. NO. AECC111</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>BY</th> <th>DATE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	BY	DATE	REVISION										<p><b>STATE OF ALASKA</b>  <b>DEPARTMENT OF TRANSPORTATION</b>  <b>AND PUBLIC FACILITIES</b>  <b>CENTRAL REGION</b>          4111 AVIATION AVE., ANCHORAGE ALASKA 99502          PHONE (907) 269-0590</p>	<p><b>NEWTOK AIRPORT</b>          NEWTOK, ALASKA          AIRPORT RELOCATION          PROJECT No. CFAPT00310          AIP No. 3-02-XXXX-XXX-20XX          CLEARING PLAN</p>	<p>DATE: 1/6/2019</p> <p>SHEET: 5 of 47</p>
BY	DATE	REVISION														

Date Revised: 1/07/2019, 3:40 PM  
 Layout Name: Top Sect (6)  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\AQA\2652.01-Typical Sections.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



**1** RSA  
**6** NTS  
 STA 100+00 TO STA 102+95  
 STA 136+05 TO STA 139+00  
 SEE NOTE 1

**2** RUNWAY  
**6** NTS  
 STA 102+95 TO STA 106+00  
 SEE NOTES 3 & 4

**3** RUNWAY  
**6** NTS  
 STA 106+00 TO STA 118+00  
 STA 131+50 TO STA 136+05  
 SEE NOTE 4

**4** RUNWAY  
**6** NTS  
 STA 118+00 TO STA 131+50

**NOTES:**

1. INSTALL REINFORCEMENT GEOGRID UNDER RUNWAY THRESHOLD AT STA 102+95 (SEE SHEET 10 FOR DETAIL).
2. REMOVE ALL SHRUBS, SNOW, AND SURFACE ICE BEFORE PLACING FILL.
3. START REINFORCEMENT GEOGRID 4' FROM BOTTOM OF EXCAVATION. DO NOT INCLUDE IN SUBBASE OR CASC LAYERS.
4. FOLLOW ORIGINAL GROUND FOR 5' OVER EXCAVATION.

**PLANS DEVELOPED BY:**  
**R&M CONSULTANTS, INC.**  
 9101 VANGUARD DR.  
 ANCHORAGE, AK 99507  
 (907) 522-1707  
 CERT. OF AUTH. NO. AECC111

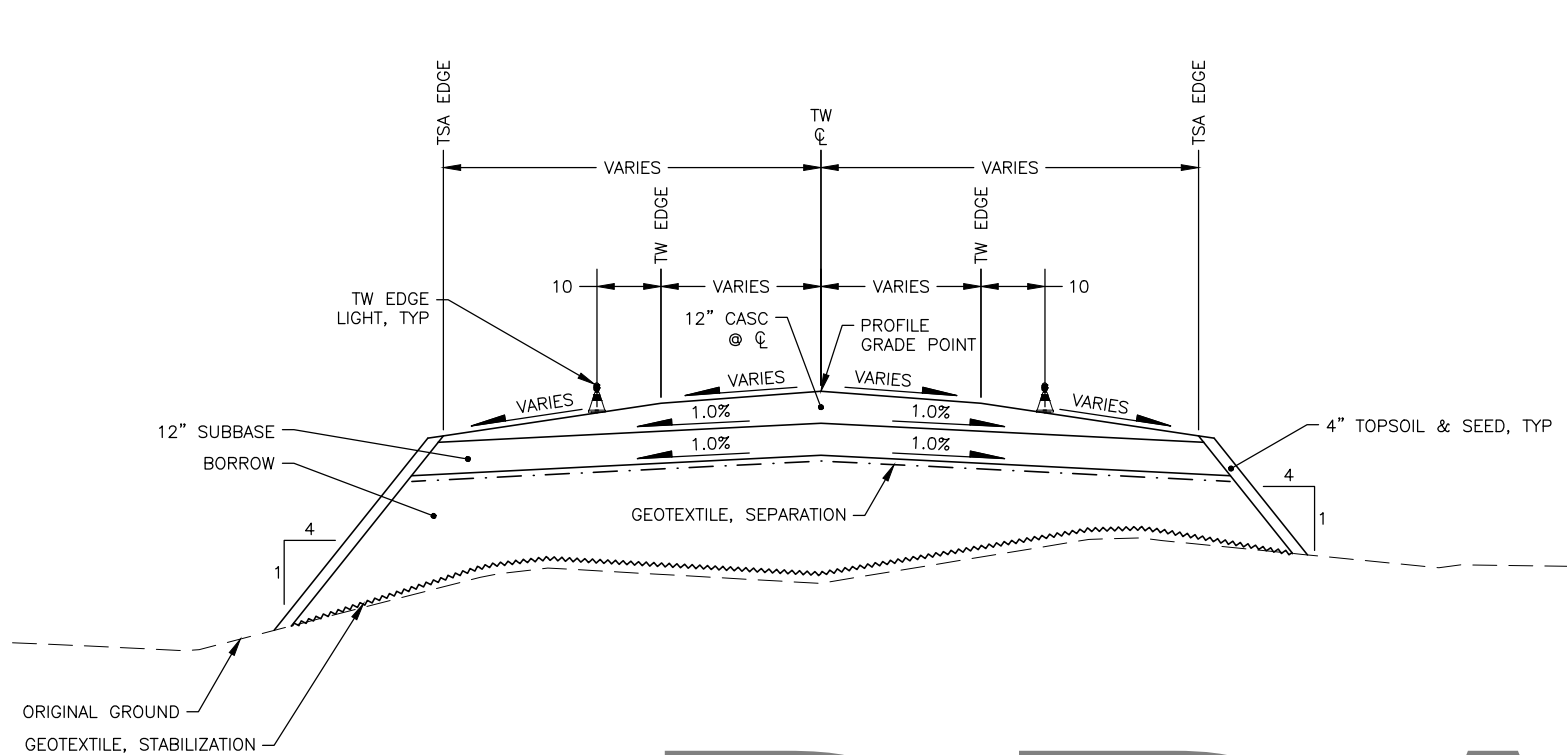
BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

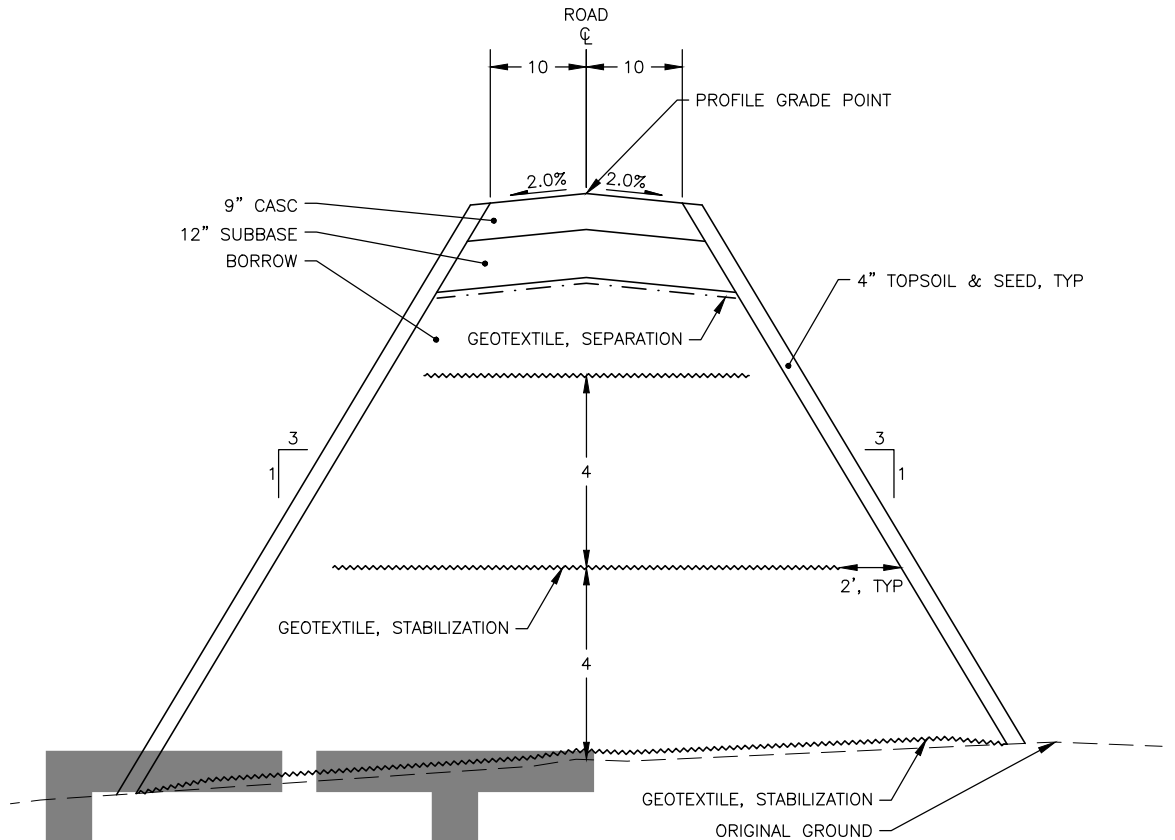
**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 TYPICAL SECTIONS

DATE:  
 1/7/2019  
 SHEET:  
 6 OF 47

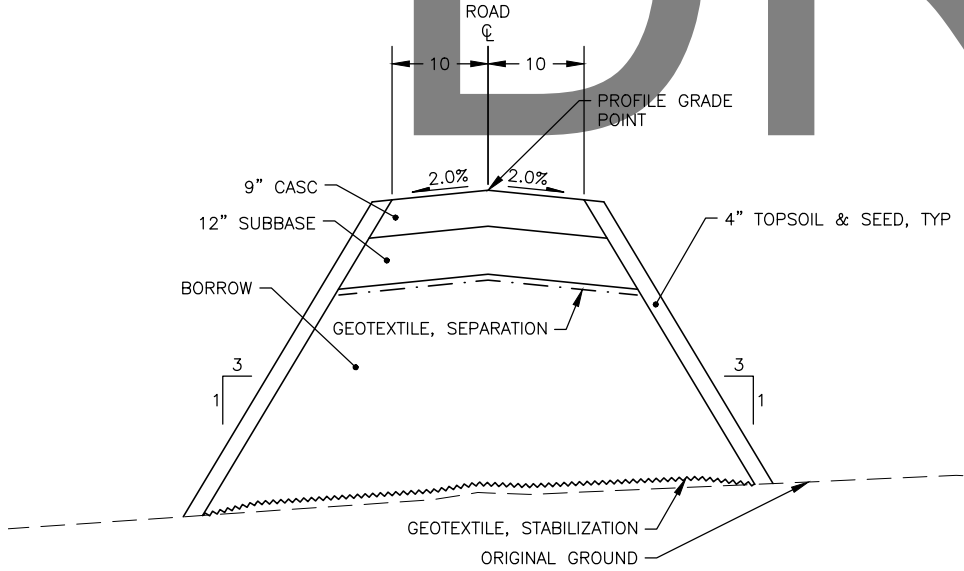
Date Received: 1/07/2019, 2:09 PM  
 Layout Name: Top Sect (7)  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Typical Sections.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



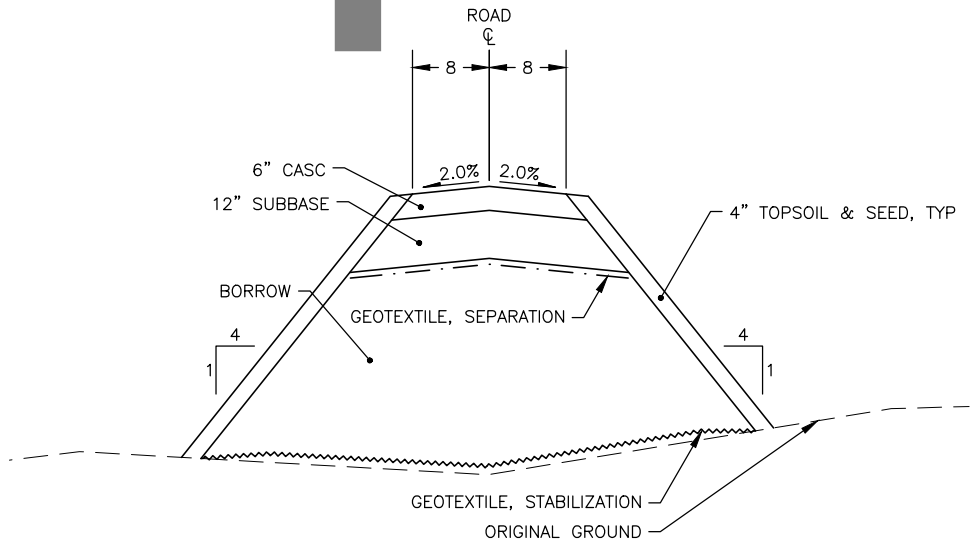
**1 TAXIWAY**  
 7 NTS STA 200+37.5 TO STA 204+00  
 SEE NOTES 1, 2, 3, & 4



**2 ACCESS ROAD**  
 7 NTS STA 10+20.09 TO STA 13+00  
 SEE NOTE 6



**3 ACCESS ROAD**  
 7 NTS STA 13+00 TO STA 53+67.9



**4 MAINTENANCE ROAD & SUPPLEMENTAL WIND CONE PAD**  
 7 NTS

- NOTES:**
- ENTIRE TAXIWAY WIDTH MUST BE AT LEAST 50'.
  - ENTIRE TAXIWAY SAFETY AREA WIDTH MUST BE AT LEAST 118'.
  - SEE SHEET 13 FOR TAXIWAY GEOMETRY AT INTERSECTION WITH RUNWAY AND APRON.
  - SEE SHEET 17 FOR TAXIWAY GRADING AND ELEVATIONS.
  - REMOVE ALL SHRUBS, SNOW, AND SURFACE ICE BEFORE PLACING FILL.
  - START IN-FILL GEOTEXTILE, STABILIZATION 4' FROM BOTTOM OF FILL. DO NOT INCLUDE IN SUBBASE OR CASC LAYERS.

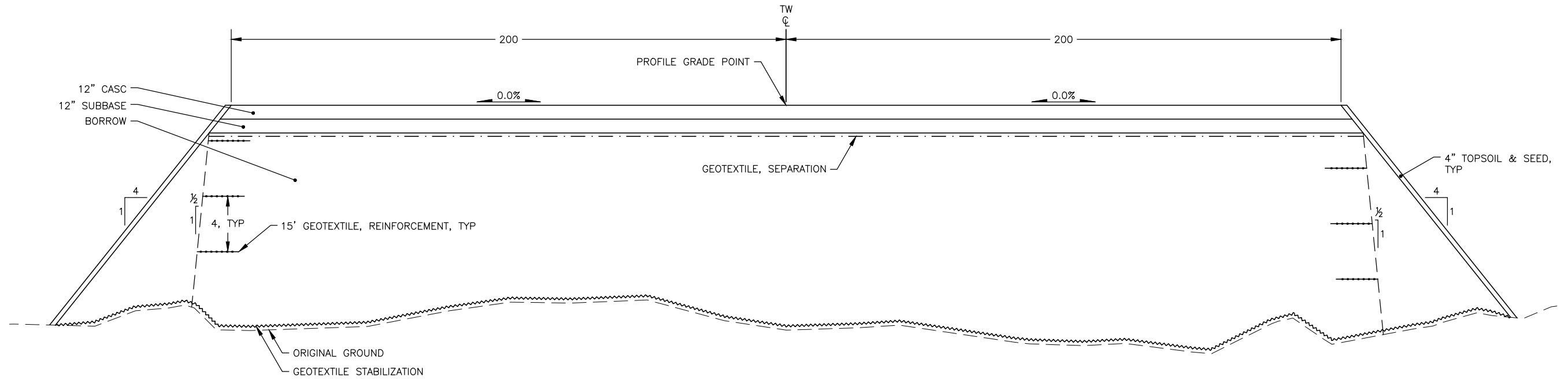
PLANS DEVELOPED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111		
BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 TYPICAL SECTIONS

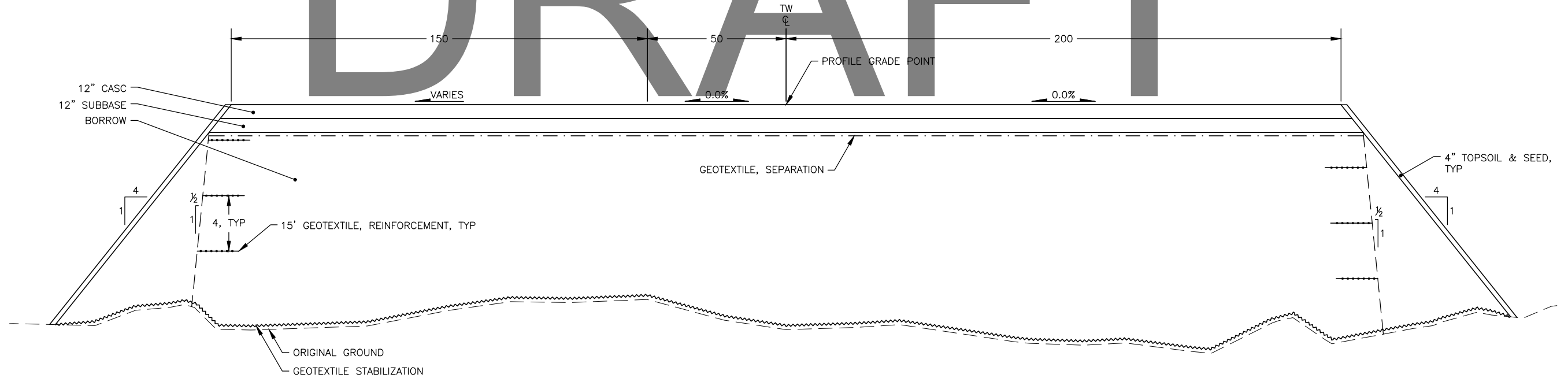
DATE:  
 1/7/2019  
 SHEET:  
 7 of 47

Date Recvied: 1/07/2019 2:09 PM  
 Layout Name: Top Sect (8)  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Typical Sections.dwg  
 Designed By: CJB  
 Drawn By: RLC/JSC  
 Checked By: EJC



**1** APRON  
**8** NTS STA 204+00 TO STA 205+75

# DRAFT



**2** APRON  
**8** NTS STA 205+75 TO STA 207+70

**NOTES:**

1. REMOVE ALL SHRUBS, SNOW, AND SURFACE ICE BEFORE PLACING FILL.
2. START REINFORCEMENT GEOGRID 4' FROM BOTTOM OF FILL. DO NOT INCLUDE IN SUBBASE OR CASC LAYERS.

PLANS DEVELOPED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111		
BY	DATE	REVISION

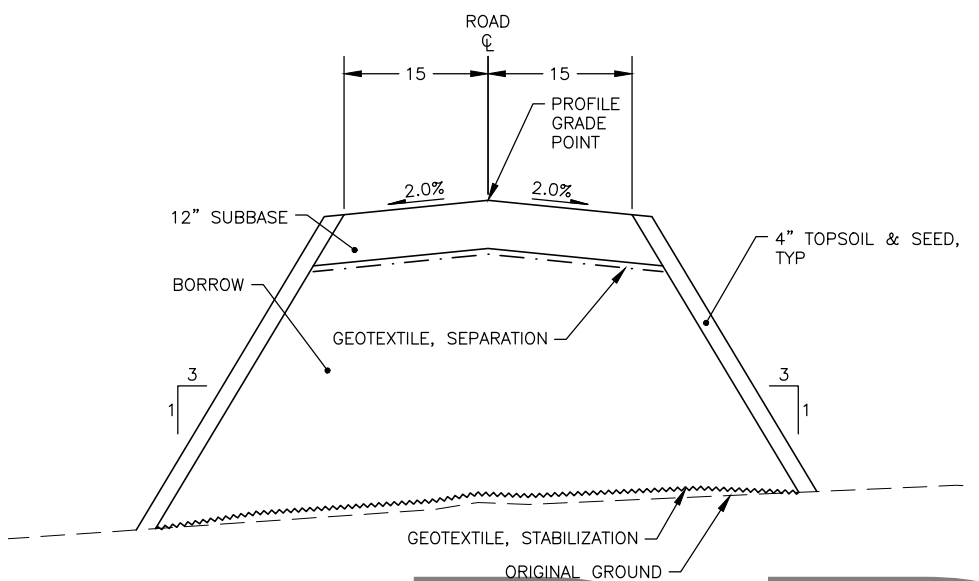
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 TYPICAL SECTIONS

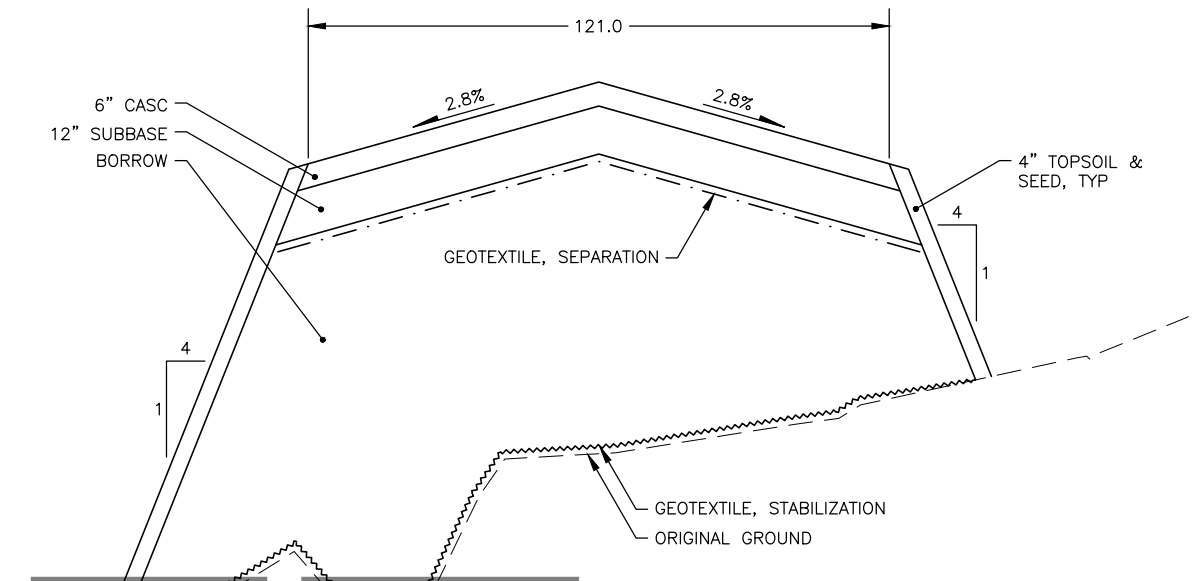
DATE: 1/7/2019  
 SHEET: 8 OF 47



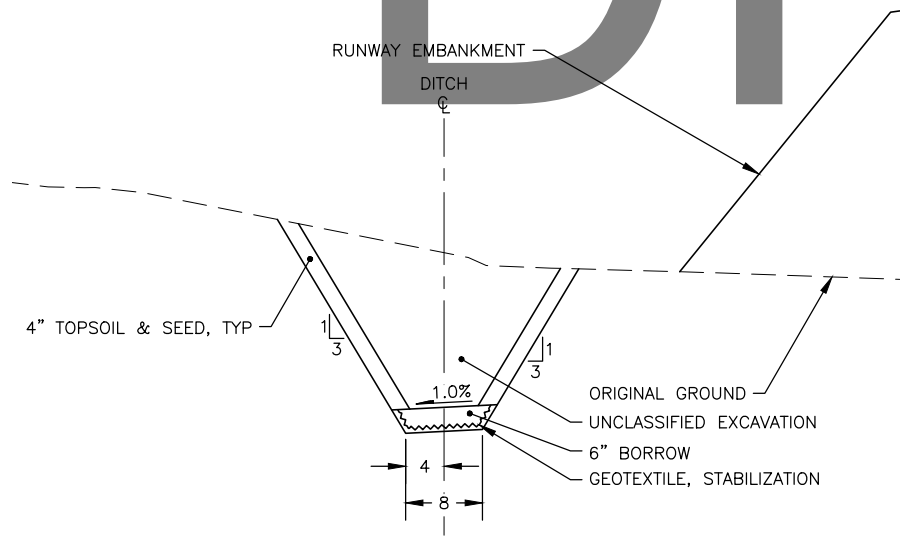
Date Received: 1/07/2019 2:10 PM  
 Layout Name: Top Sect (9)  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\Acad\2652.01-Typical Sections.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



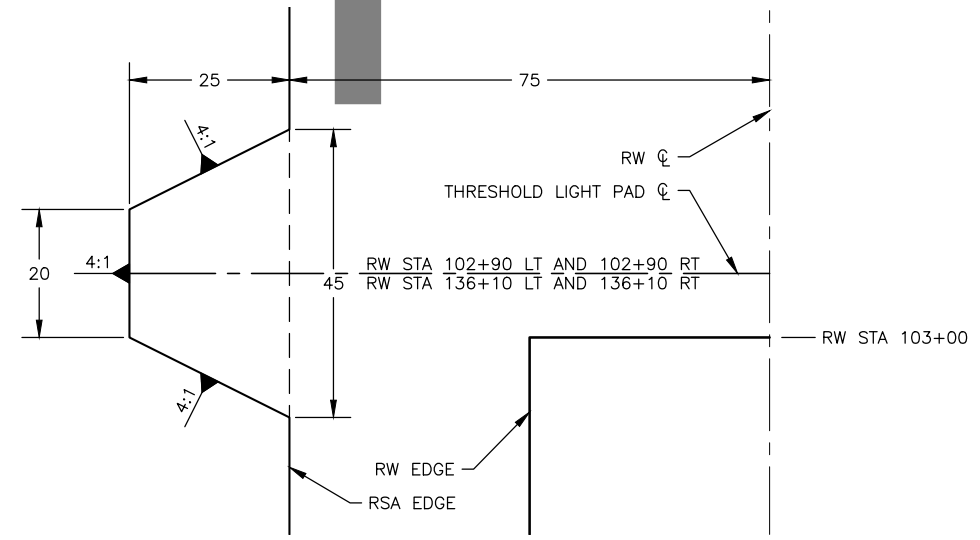
**1**  
**9** HAUL ROAD  
 NTS STA 308+52.60 TO STA 336+68.50



**3**  
**9** SEGMENTED CIRCLE PAD  
 NTS



**2**  
**9** DITCH  
 NTS



**4**  
**9** THRESHOLD LIGHT PAD PLAN  
 NTS

DRAFT

**NOTE:**  
 1. REMOVE ALL SHRUBS, SNOW, AND SURFACE ICE BEFORE PLACING FILL.

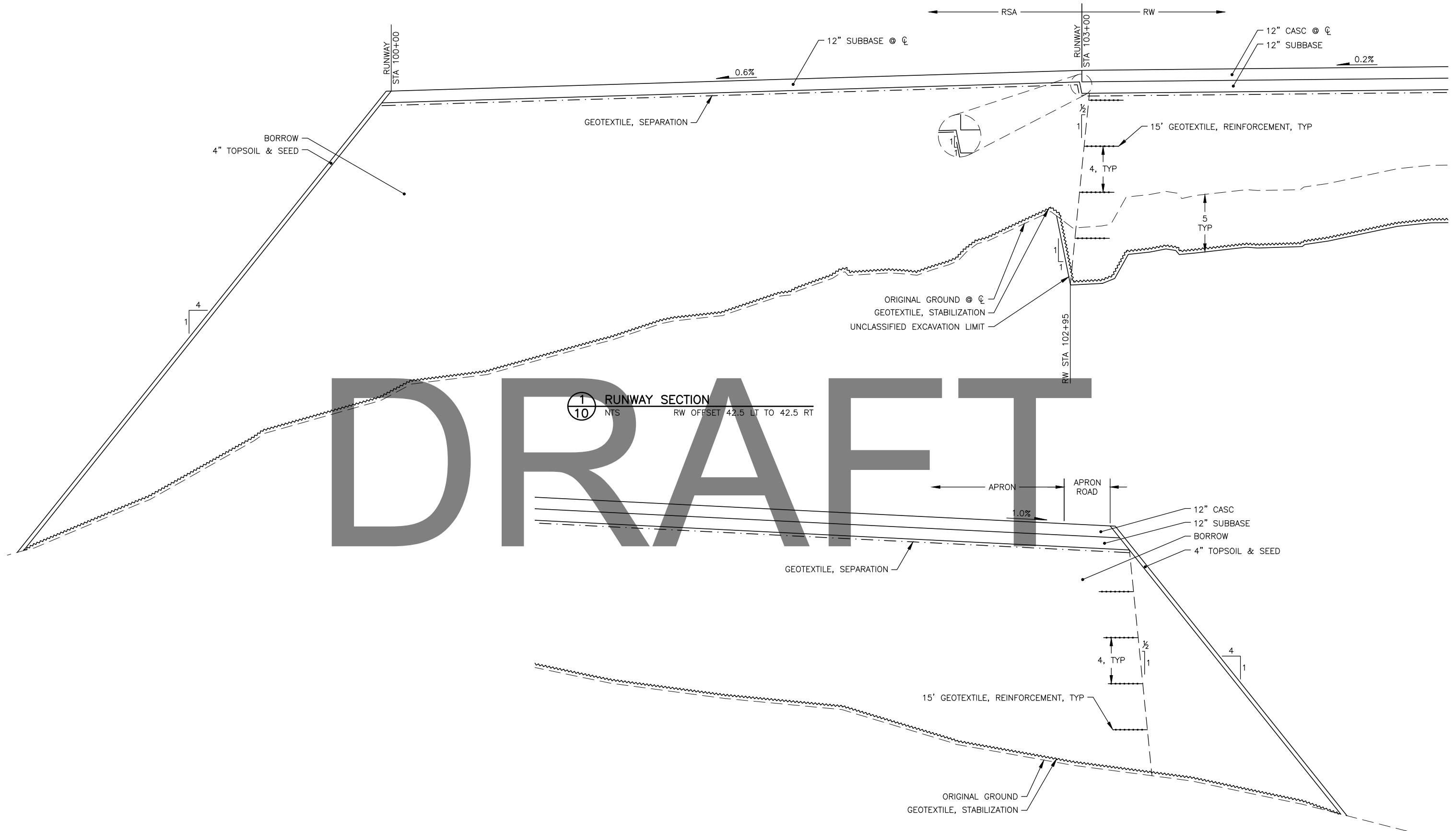
BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 TYPICAL SECTIONS

DATE: 1/7/2019  
 SHEET: 9 of 47

Date Revisited: 1/07/2019, 2:10 PM  
 Layout Name: Typ Sect (10)  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\Acad\2652.01-Typical Sections.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EUG



- NOTES:**
1. REMOVE ALL SHRUBS, SNOW, AND SURFACE ICE BEFORE PLACING FILL.
  2. START REINFORCEMENT GEOGRID 4' FROM BOTTOM OF EXCAVATION. DO NOT INCLUDE IN SUBBASE OR CASC LAYERS.

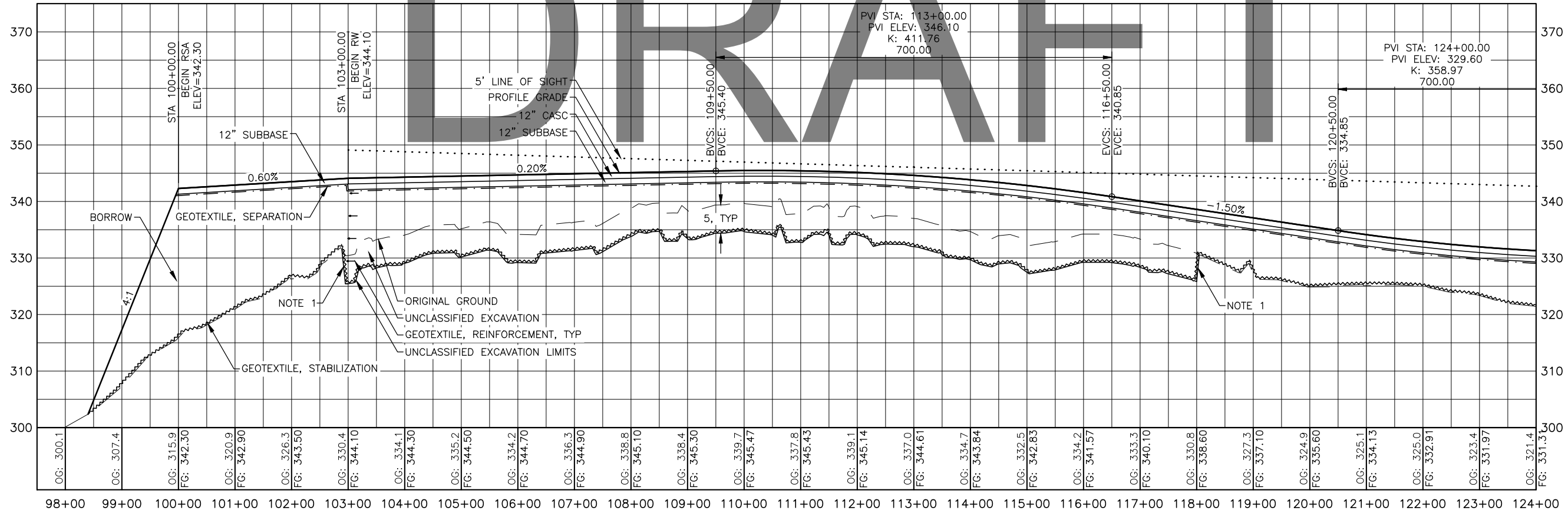
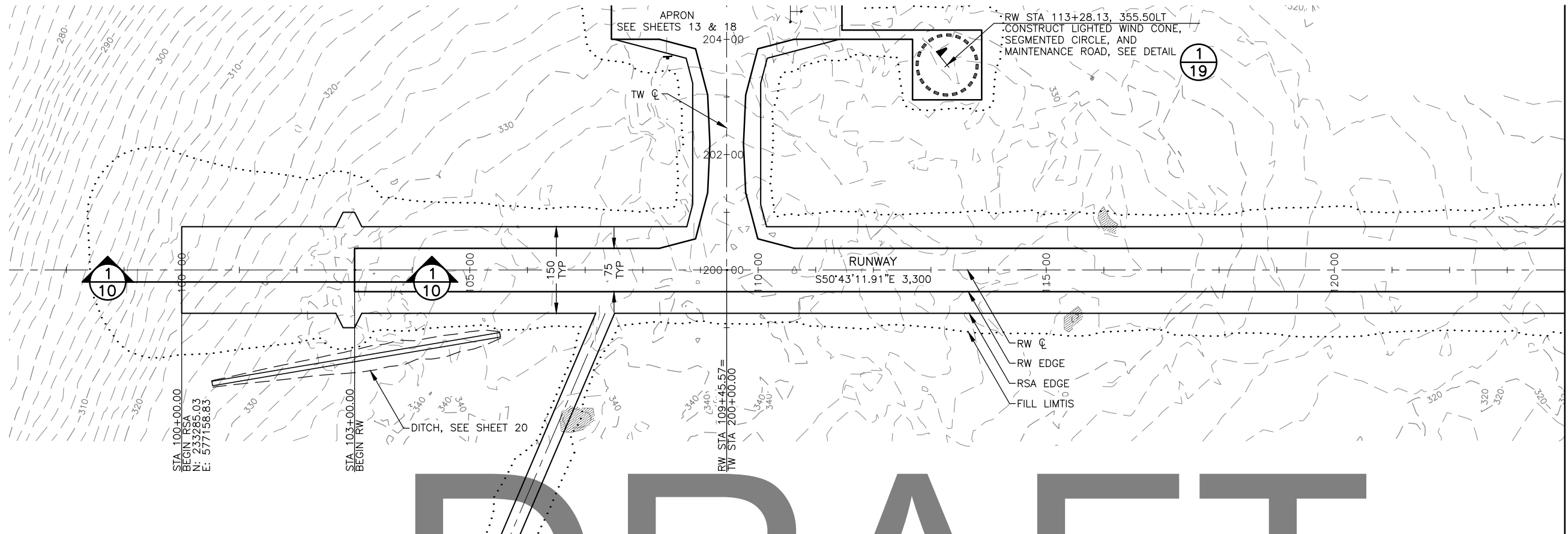
PLANS DEVELOPED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111		
BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

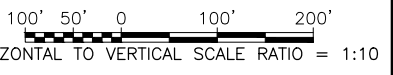
**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 TYPICAL SECTIONS

DATE: 1/7/2019  
 SHEET: 10 of 47

Date Received: 1/07/2019, 2:12 PM  
 Layout Name: P&P\_1  
 File Path and Name: I:\Projects\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Runway P&P.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



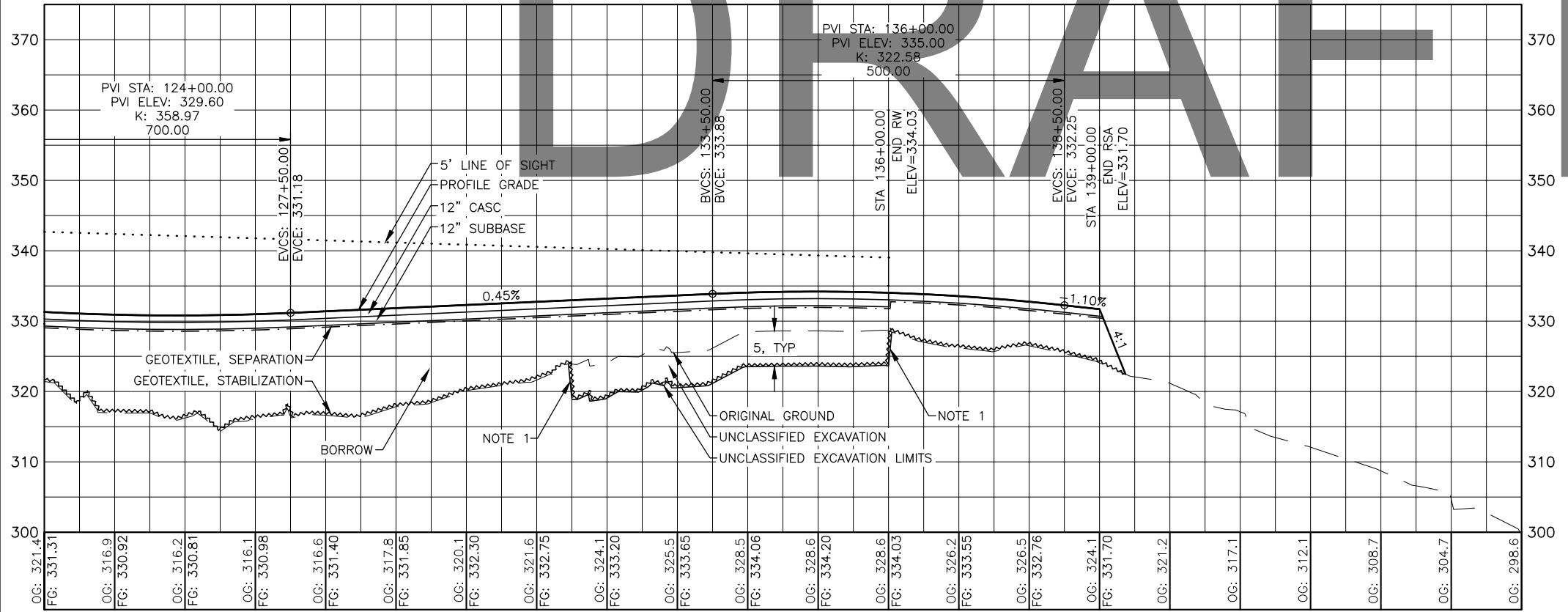
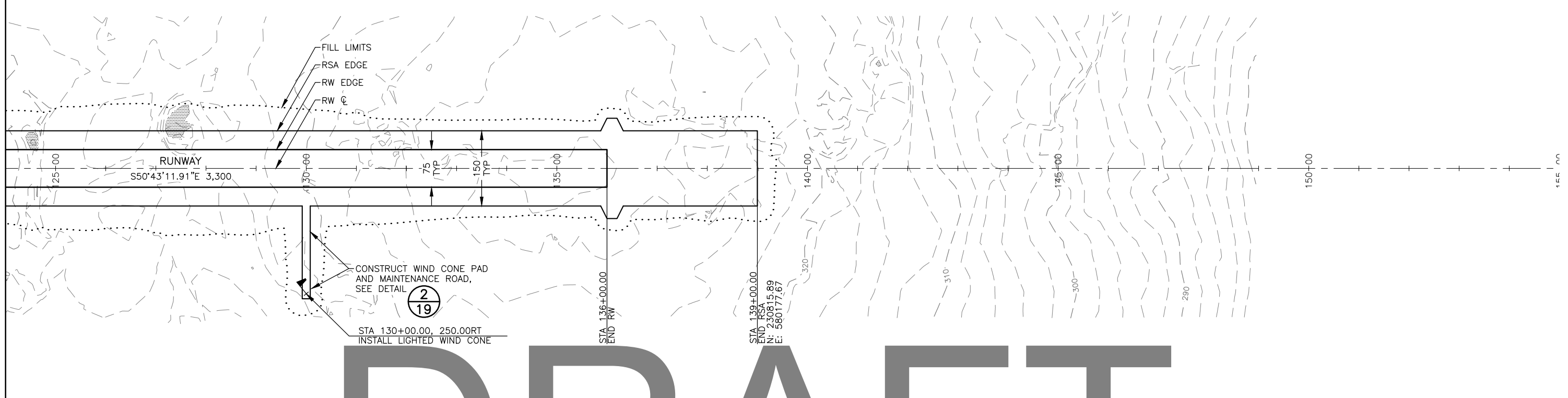
NOTE:  
 1. TRANSITION TO AND FROM UNCLASSIFIED EXCAVATION AT A SLOPE OF 1:1.



<b>PLANS DEVELOPED BY:</b> <b>R&amp;M CONSULTANTS, INC.</b> 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111	BY	DATE	REVISION
<b>STATE OF ALASKA</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>AND PUBLIC FACILITIES</b> <b>CENTRAL REGION</b> 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590			DATE: 1/6/2019 SHEET: 11 of 47
<b>NEWTOK AIRPORT</b> AIRPORT RELOCATION PROJECT No. CFAPT00310 AIP No. 3-02-XXXX-XXX-20XX RUNWAY PLAN AND PROFILE STA 100+00 TO STA 124+00			

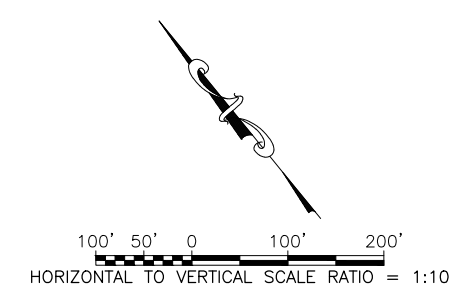
Date Revised: 1/07/2019, 2:13 PM  
 Layout Name: P&P 2  
 File Path and Name: Z:\Project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Runway P&P.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

MATCH LINE STA 124+00



124+00 125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00 142+00 143+00 144+00 145+00

NOTE:  
1. TRANSITION TO AND FROM UNCLASSIFIED EXCAVATION AT A SLOPE OF 1:1.



DRAFT

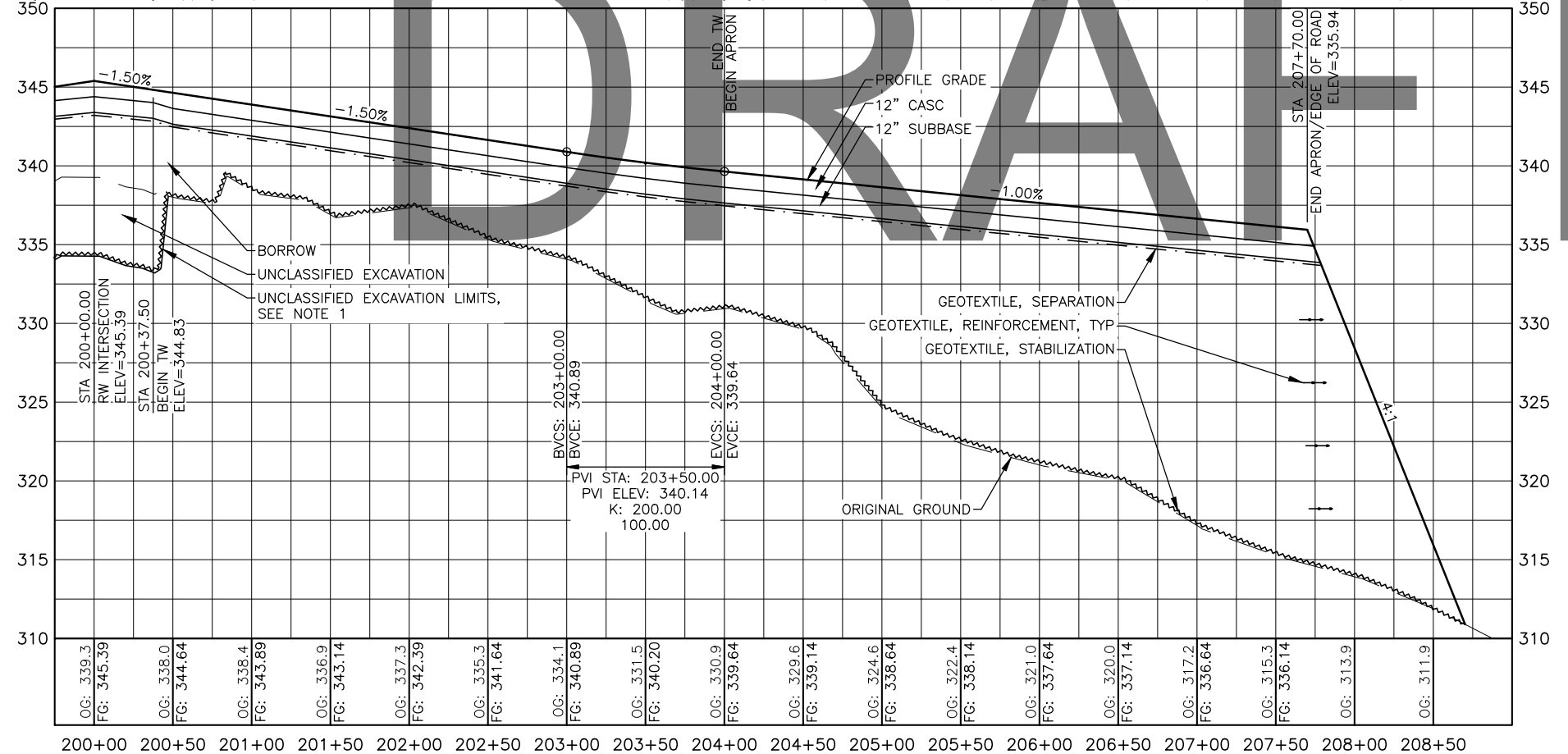
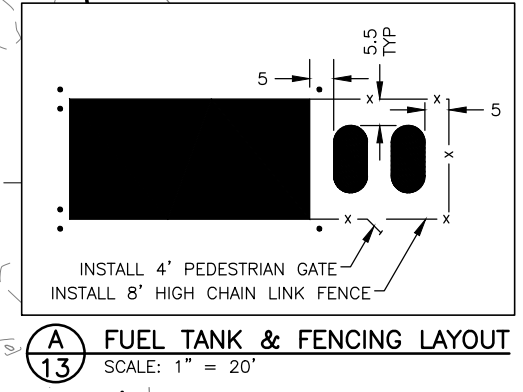
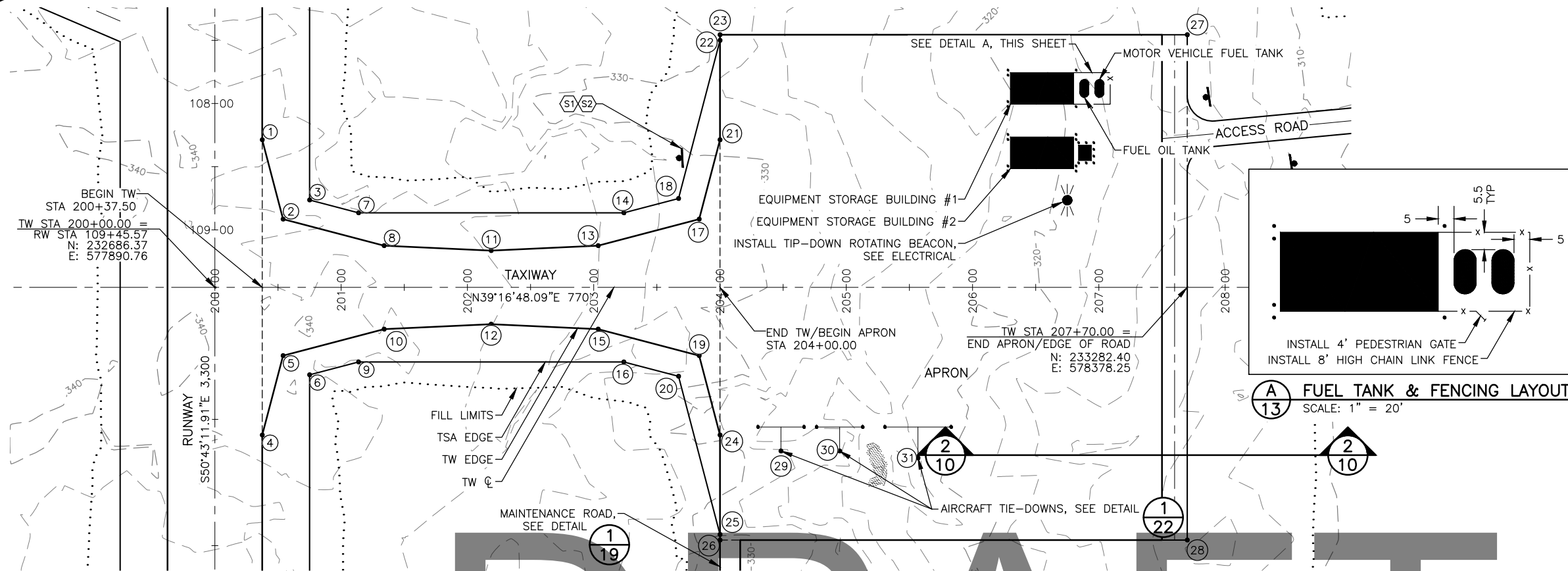
PLANS DEVELOPED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111		
BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 RUNWAY PLAN AND PROFILE  
 STA 124+00 TO STA 139+00

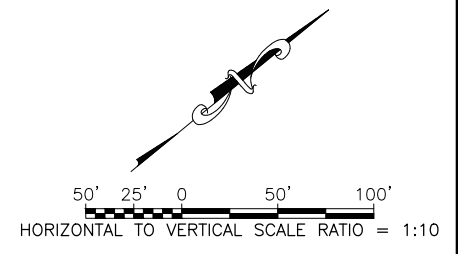
DATE:  
1/6/2019  
 SHEET:  
12 of 47

Date Received: 1/07/2019, 2:15 PM  
 Layout Name: Taxiway P&P  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\Acad\2652.01-Taxiway And Apron P&P.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



STATION/OFFSET TABLE		
POINT No.	TW STA/OFF	DESCRIPTION
1	200+37.50/116.86 LT	TW PI
2	200+54.00/54.00 LT	TW PI
3	200+75.00/69.17 LT	TSA PI
4	200+37.50/116.86 RT	TW PI
5	200+54.00/54.00 RT	TW PI
6	200+75.00/69.17 RT	TSA PI
7	201+13.72/59.00 LT	TSA PI
8	201+34.00/33.00 LT	TW PI
9	201+13.72/59.00 RT	TSA PI
10	201+34.00/33.00 RT	TW PI
11	202+18.75/29.13 LT	TW PI
12	202+18.75/29.13 RT	TW PI
13	203+03.50/33.00 LT	TW PI
14	203+23.78/59.00 LT	TSA PI
15	203+03.50/33.00 RT	TW PI
16	203+23.78/59.00 RT	TSA PI
17	203+83.50/54.00 LT	TW PI
18	203+67.12/70.38 LT	TSA PI
19	203+83.50/54.00 RT	TW PI
20	203+67.12/70.38 RT	TSA PI
21	204+00.00/116.86 LT	TW PI
22	204+00.00/195.63 LT	TSA SHOULDER PI
23	204+00.00/200.00 LT	APRON CORNER
24	204+00.00/116.86 RT	TW PI
25	204+00.00/195.63 RT	TSA SHOULDER PI
26	204+00.00/200.00 RT	APRON CORNER
27	207+70.00/200.00 LT	APRON/ROAD CORNER
28	207+70.00/200.00 RT	APRON/ROAD CORNER
29	204+48.25/129.50 RT	DESIGN AIRCRAFT TIE-DOWN
30	204+94.75/129.50 RT	DESIGN AIRCRAFT TIE-DOWN
31	205+56.75/135.00 RT	LARGE AIRCRAFT TIE-DOWN

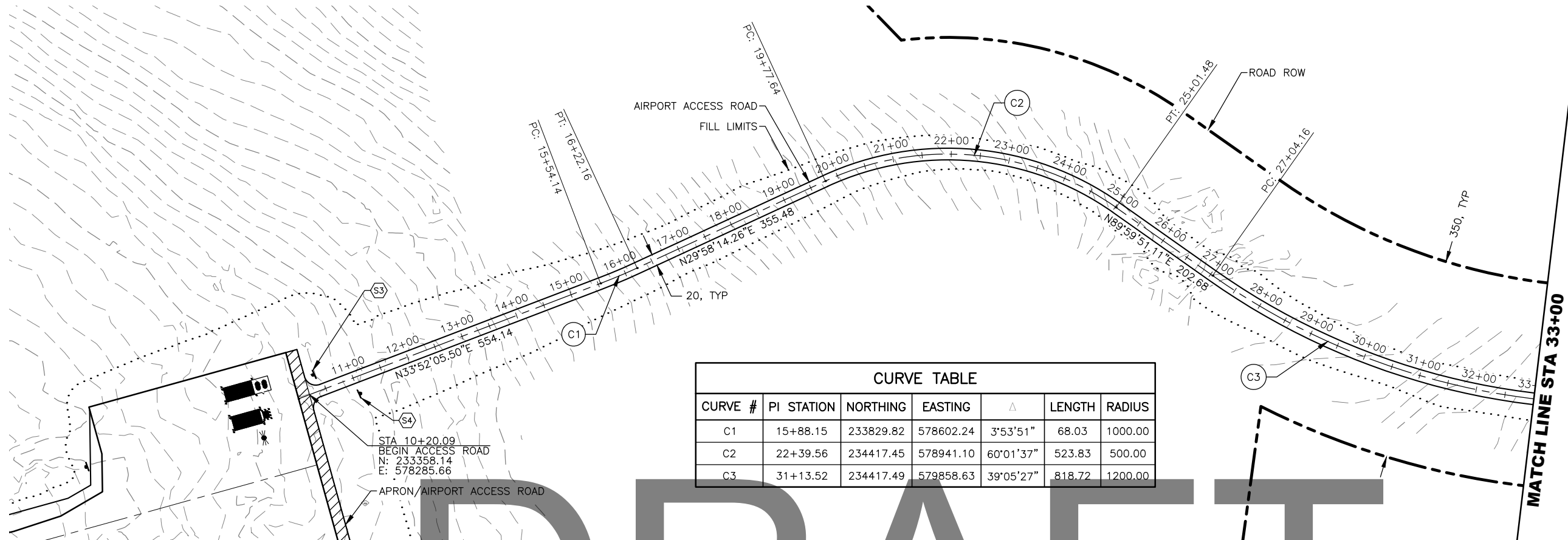
NOTE:  
 1. TRANSITION FROM 5' EXCAVATION DEPTH AT A SLOPE OF 1:1.



<b>PLANS DEVELOPED BY:</b> <b>R&amp;M CONSULTANTS, INC.</b> 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111	BY	DATE	REVISION	<b>STATE OF ALASKA</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>AND PUBLIC FACILITIES</b> <b>CENTRAL REGION</b> 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590	<b>NEWTOK AIRPORT</b> NEWTOK, ALASKA AIRPORT RELOCATION PROJECT No. CFAPT00310 AIP No. 3-02-XXXX-XXX-20XX TAXIWAY AND APRON PLAN AND PROFILE	DATE: 1/7/2019
						SHEET: 13 of 47

Designed By: CJB  
 Drawn By: RLC/JSC  
 Checked By: EJC

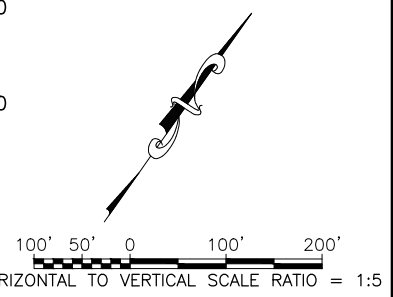
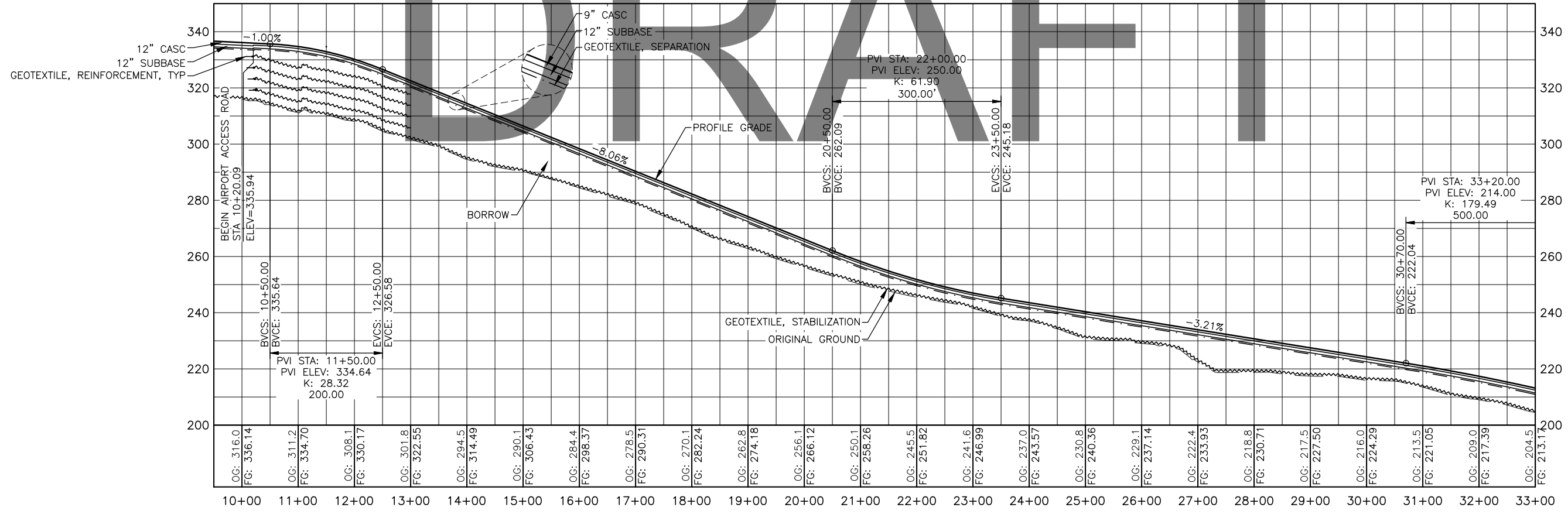
Date Revised: 1/07/2019, 2:17 PM  
 Layout Name: STA 10+00  
 File Path and Name: I:\Projects\2652\01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652\01-Access Road P&P.dwg



CURVE TABLE						
CURVE #	PI STATION	NORTHING	EASTING	Δ	LENGTH	RADIUS
C1	15+88.15	233829.82	578602.24	3°53'51"	68.03	1000.00
C2	22+39.56	234417.45	578941.10	60°01'37"	523.83	500.00
C3	31+13.52	234417.49	579858.63	39°05'27"	818.72	1200.00

LEGEND:  
 SEE NOTE 1

NOTES:  
 1. THE APRON/AIRPORT ACCESS ROAD WILL BE CONSTRUCTED AS A PART OF THE APRON AS SHOWN ON SHEETS 13 AND 18.



PLANS DEVELOPED BY:  
**R&M CONSULTANTS, INC.**  
 9101 VANGUARD DR.  
 ANCHORAGE, AK 99507  
 (907) 522-1707  
 CERT. OF AUTH. NO. AECC111

BY	DATE	REVISION

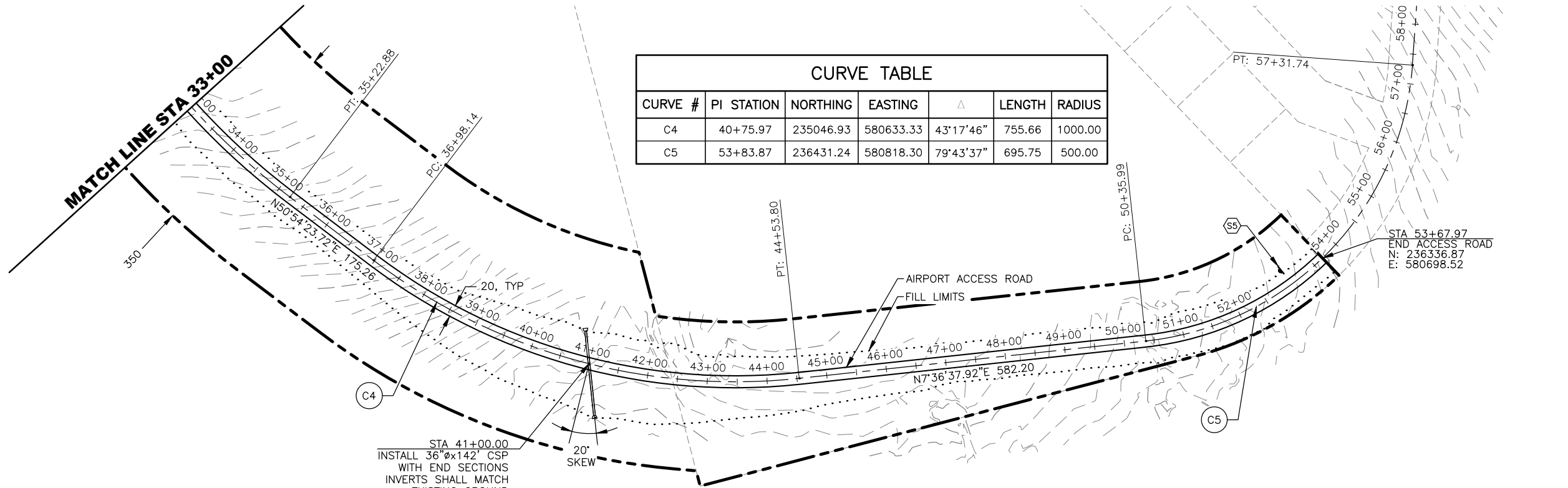
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 AIRPORT ACCESS ROAD PLAN AND PROFILE  
 STA 10+20.09 TO STA 33+00

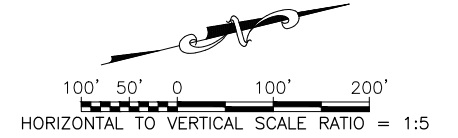
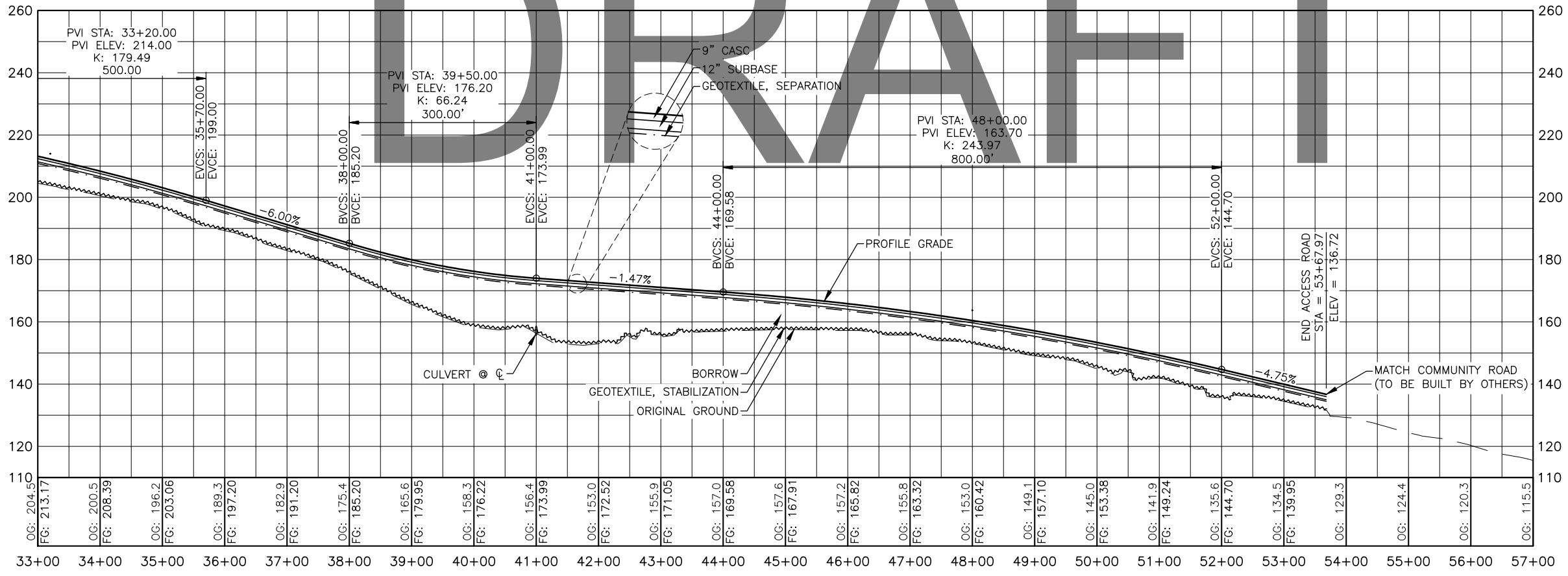
DATE:  
 1/7/2019  
 SHEET:  
 14 of 47

Date Revised: 1/07/2019, 2:18 PM  
 Layout Name: STA 33+00  
 File Path and Name: I:\Projects\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Access Road P&P.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

CURVE TABLE						
CURVE #	PI STATION	NORTHING	EASTING	Δ	LENGTH	RADIUS
C4	40+75.97	235046.93	580633.33	43°17'46"	755.66	1000.00
C5	53+83.87	236431.24	580818.30	79°43'37"	695.75	500.00



# DRAFT



**PLANS DEVELOPED BY:**  
**R&M CONSULTANTS, INC.**  
 9101 VANGUARD DR.  
 ANCHORAGE, AK 99507  
 (907) 522-1707  
**CERT. OF AUTH. NO. AECC111**

BY	DATE	REVISION

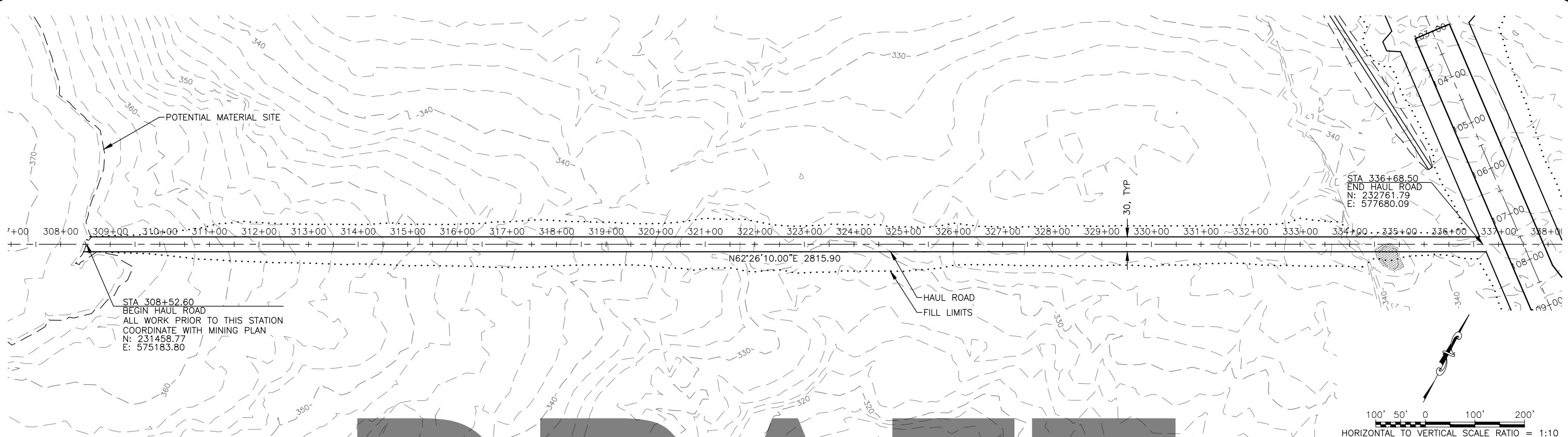
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
**NEWTOK, ALASKA**  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 AIRPORT ACCESS ROAD PLAN AND PROFILE  
 STA 33+00 TO STA 53+67.97

DATE: 1/7/2019  
 SHEET: 15 of 47

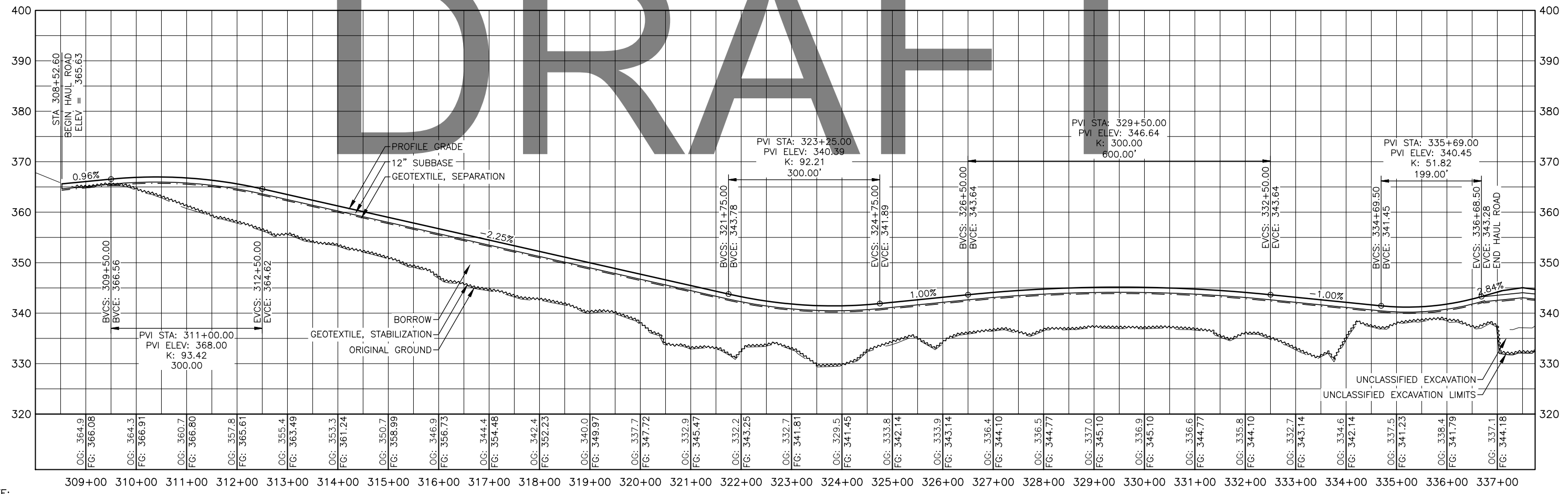
Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

Date Revisited: 1/07/2019, 2:20 PM  
 Layout Name: Haul PAP  
 File Path and Name: Z:\Project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\AQA\2652.01-Haul Road PAP.dwg



100' 50' 0 100' 200'  
 HORIZONTAL TO VERTICAL SCALE RATIO = 1:10

# DRAFT



**NOTE:**  
 1. HAUL ROAD STA 334+24 IS APPROXIMATE LIMITS OF TOPOGRAPHIC SURVEY. PRIOR TO HAUL ROAD STA 334+24, 5 FOOT CONTOUR MAPPING FROM 2005 AERIAL SURVEY IS SHOWN. CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND PROFILE WITH THE ENGINEER PRIOR TO CONSTRUCTING HAUL ROAD.

PLANS DEVELOPED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111		
BY	DATE	REVISION

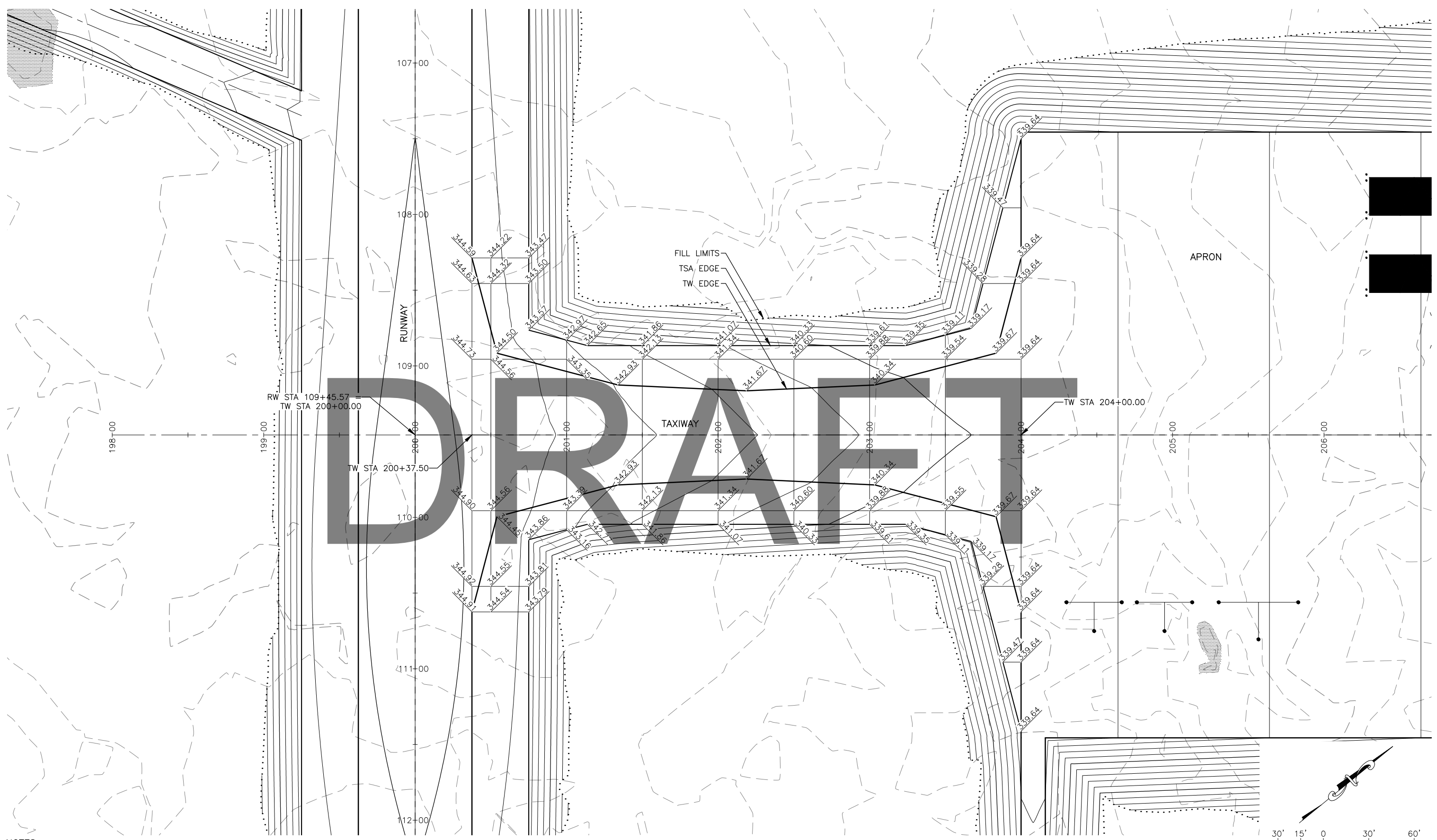
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 HAUL ROAD PLAN AND PROFILE

DATE:  
1/7/2019  
 SHEET:  
16 of 47



Date Revised: 1/07/2019, 2:22 PM  
 Layout Name: TW Grading  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\Acad\2652.01-Taxiway Grading Plan.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



**NOTES:**  
 1. THE BASIS OF THE SPOT ELEVATION GRID IS 50' LATERAL OFFSET INCREMENTS OF THE TAXIWAY CENTERLINE AND 50' INCREMENTS OF THE TAXIWAY STATIONING.

PLANS DEVELOPED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111		
BY	DATE	REVISION

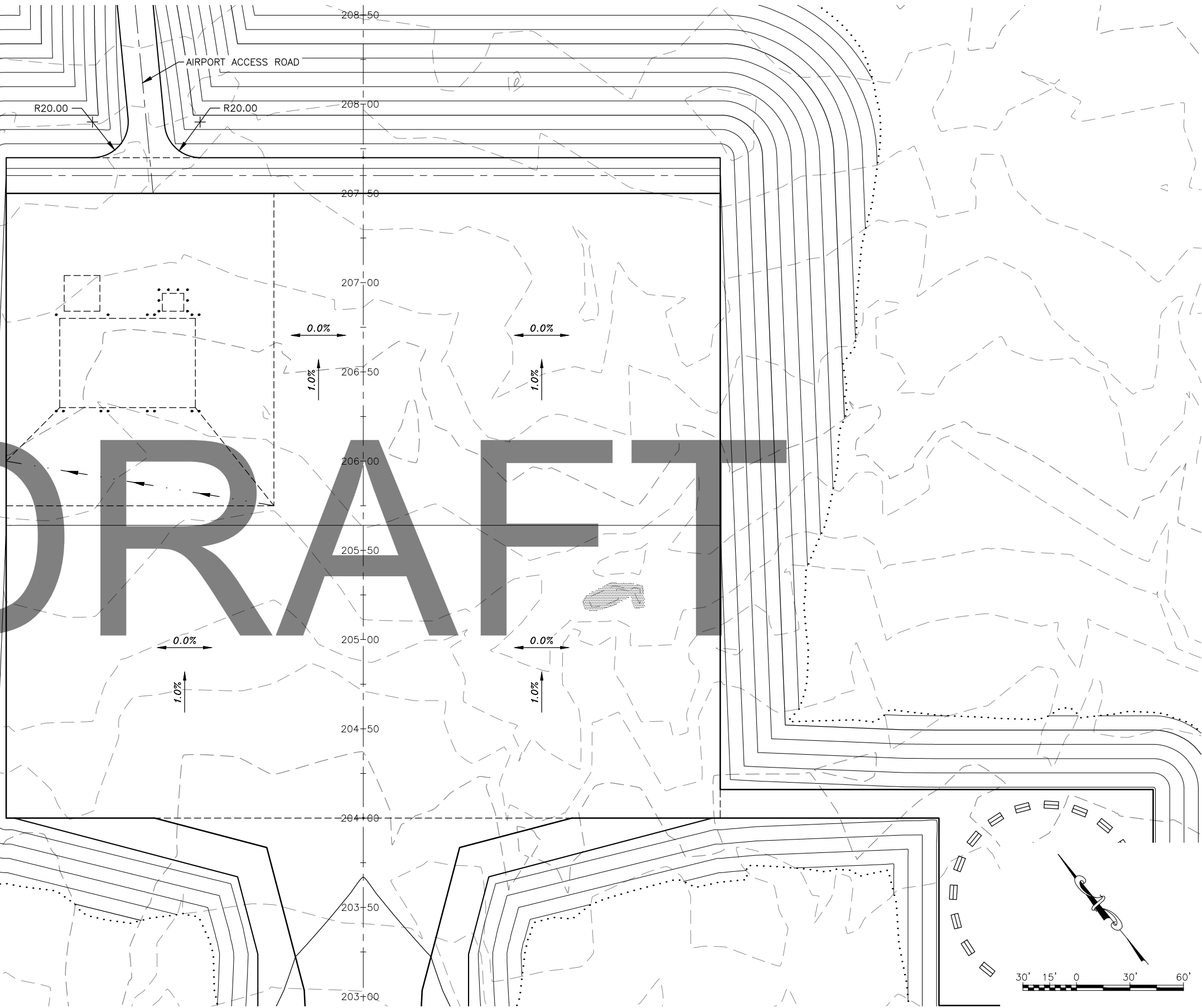
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 TAXIWAY GRADING PLAN

DATE:  
 1/6/2019  
 SHEET:  
 17 of 47

Date Revised: 1/07/2019, 2:24 PM  
 Layout Name: Grading - Apron  
 File Path and Name: I:\Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Grading Plan - Apron & SREB Pad.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

DRAFT



**PLANS DEVELOPED BY:**  
**R&M CONSULTANTS, INC.**  
 9101 VANGUARD DR.  
 ANCHORAGE, AK 99507  
 (907) 522-1707  
 CERT. OF AUTH. NO. AECC111

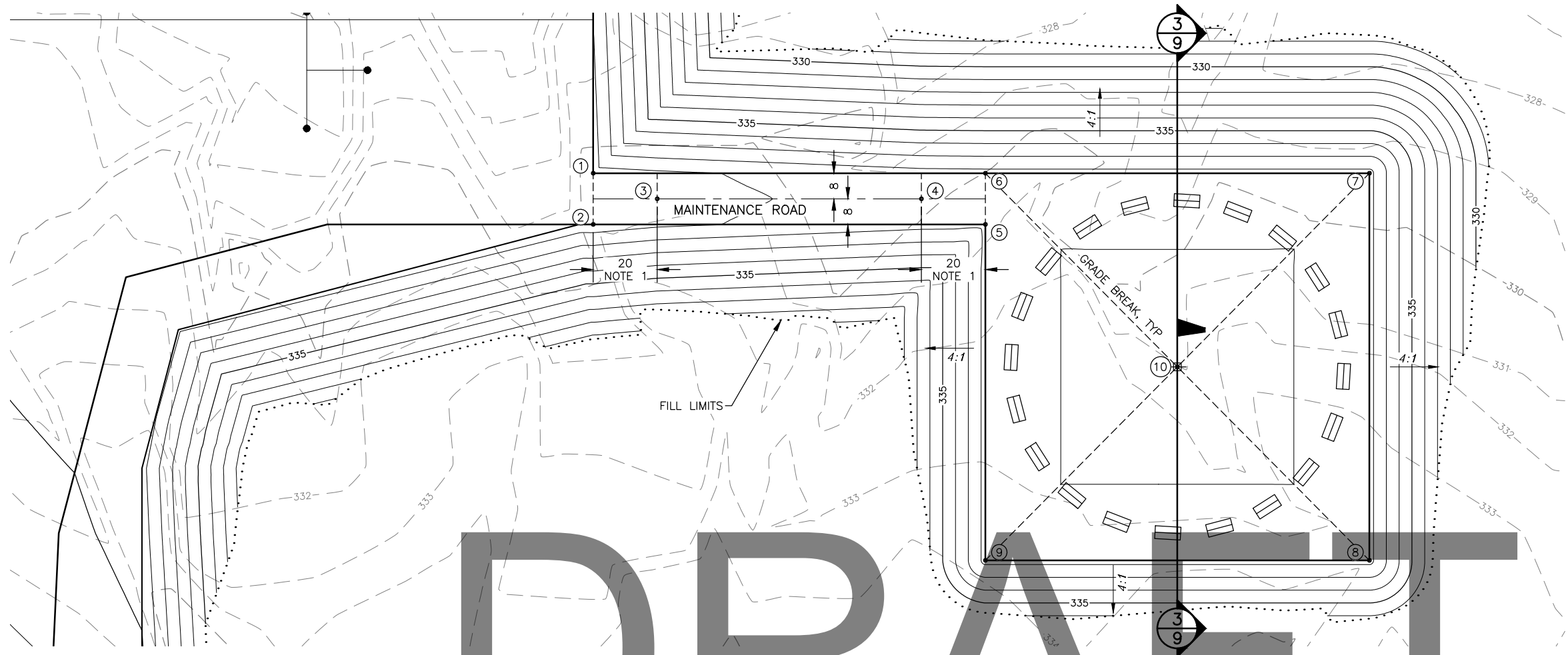
BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 APRON AND SREB PAD  
 GRADING PLAN

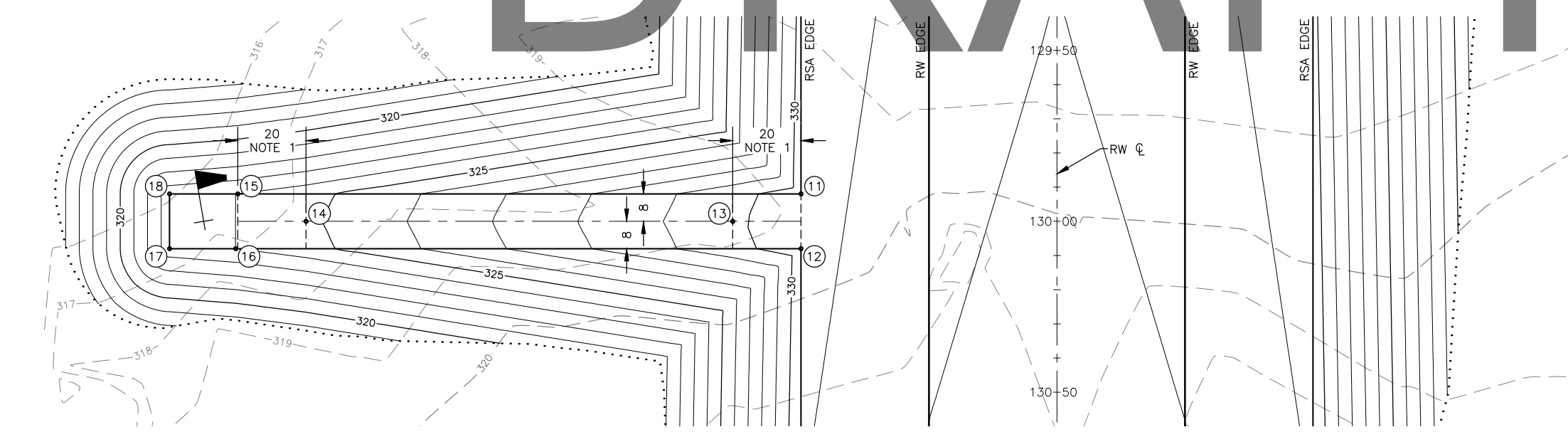
DATE: 1/6/2019  
 SHEET: 18 of 47

Date Revised: 1/07/2019, 2:26 PM  
 Layout Name: Grading  
 File Path and Name: I:\Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Grading Plan - Segmented Circle.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



STATION/OFFSET TABLE		
POINT No.	TW STA/OFF	ELEVATION
1	204+16.00/200.00 RT	339.48
2	204+00.00/200.00 RT	339.64
3	204+08.00/220.00 RT	339.36
4	204+08.00/302.56 RT	338.53
5	204+00.00/322.56 RT	338.33
6	204+16.00/322.56 RT	338.33
7	204+16.00/442.56 RT	338.33
8	202+95.00/442.56 RT	338.33
9	202+95.00/322.56 RT	338.33
10	203+55.50/382.56 RT	340.03

1 WIND CONE AND SEGMENTED CIRCLE PAD AND MAINTENANCE ROAD GRADING PLAN



STATION/OFFSET TABLE		
POINT No.	RW STA/OFF	ELEVATION
11	129+92.00/75.00 RT	330.58
12	130+08.00/75.00 RT	330.65
13	130+00.00/95.00 RT	329.81
14	130+00.00/220.00 RT	324.81
15	129+92.00/240.00 RT	324.01
16	130+08.00/240.65 RT	324.00
17	130+08.00/260.00 RT	323.61
18	129+92.00/260.00 RT	323.61

2 UNLIGHTED WINDCONE PAD AND MAINTENANCE ROAD GRADING PLAN

NOTES:  
 1. TRANSITION TO AND FROM MAINTENANCE ROAD FULL CROWN.

PLANS DEVELOPED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111		
BY	DATE	REVISION

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

NEWTOK AIRPORT  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 SEGMENTED CIRCLE PAD  
 GRADING PLAN

DATE:  
1/7/2019  
 SHEET:  
19 of 47

Date Received: 1/07/2019 2:28 PM  
 Layout Name: Ditch Grading  
 File Path and Name: I:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Special Ditch Grading Plan.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



STA 100+52.85, 196.75RT  
 END SPECIAL DITCH  
 MATCH ORIGINAL GROUND  
 N: 233099.27  
 E: 577075.17

STA 105+52.49, 112.31RT  
 BEGIN SPECIAL DITCH  
 MATCH ORIGINAL GROUND  
 N: 232848.30  
 E: 577515.39

# DRAFT

BY	DATE	REVISION

**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 SPECIAL DITCH GRADING PLAN

DATE:  
 1/6/2019  
 SHEET:  
 20 OF 47

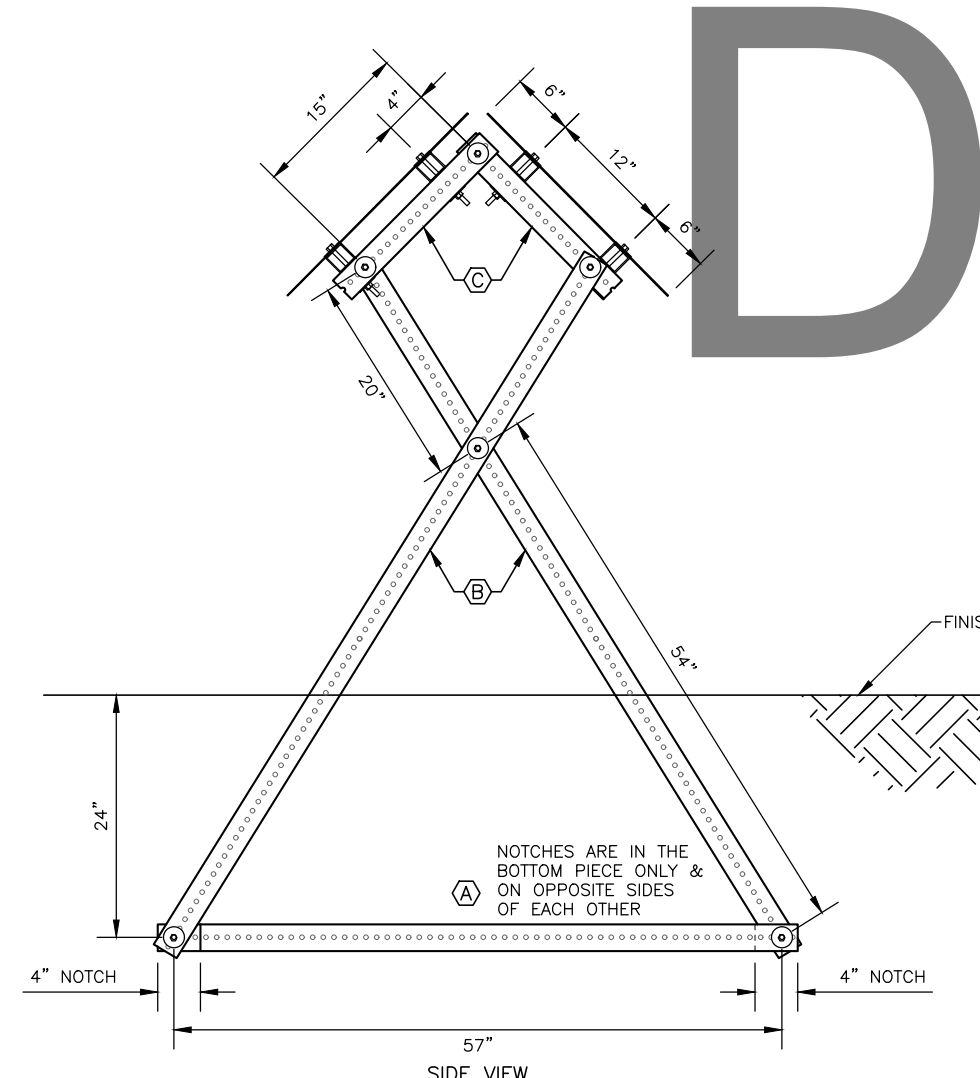
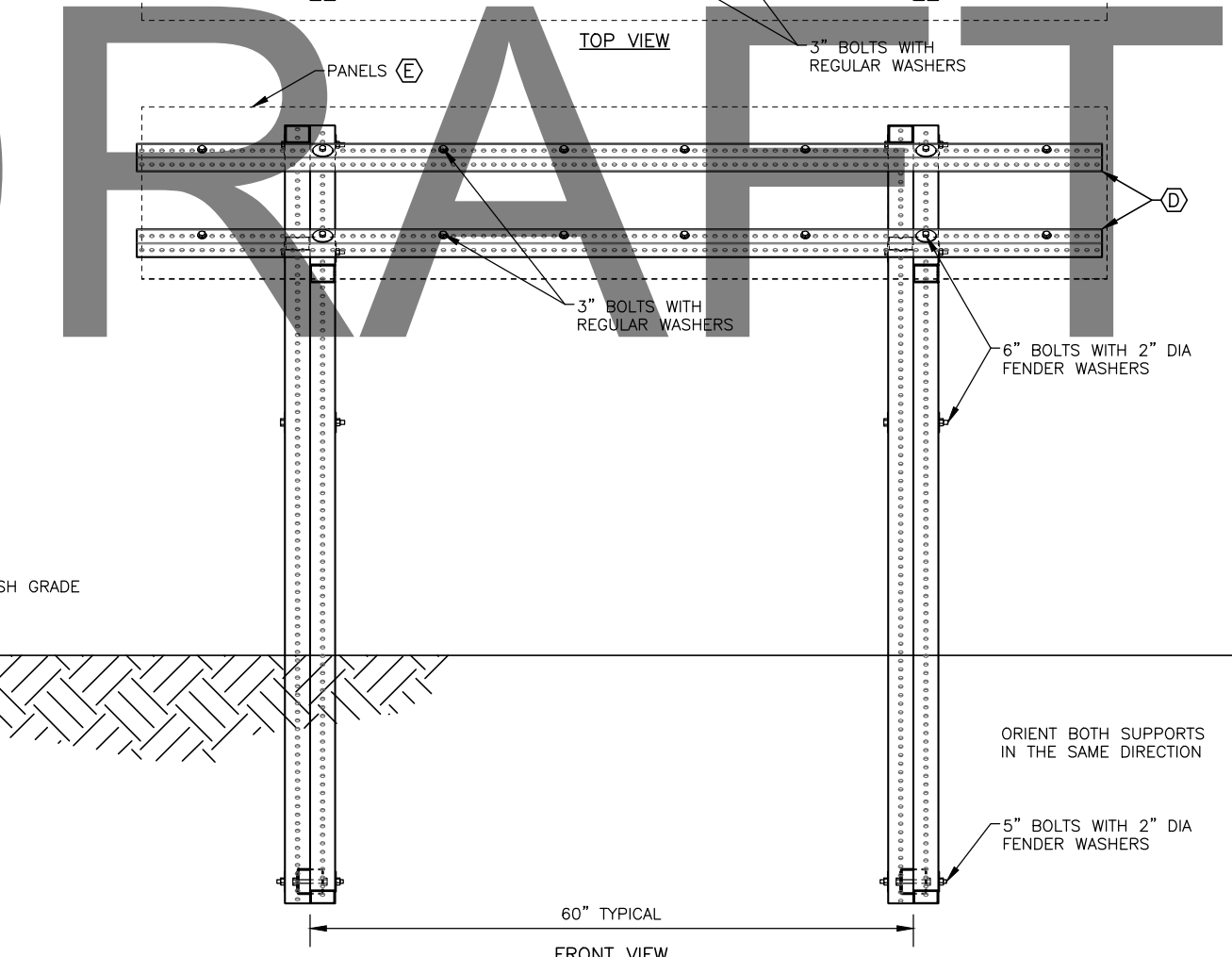
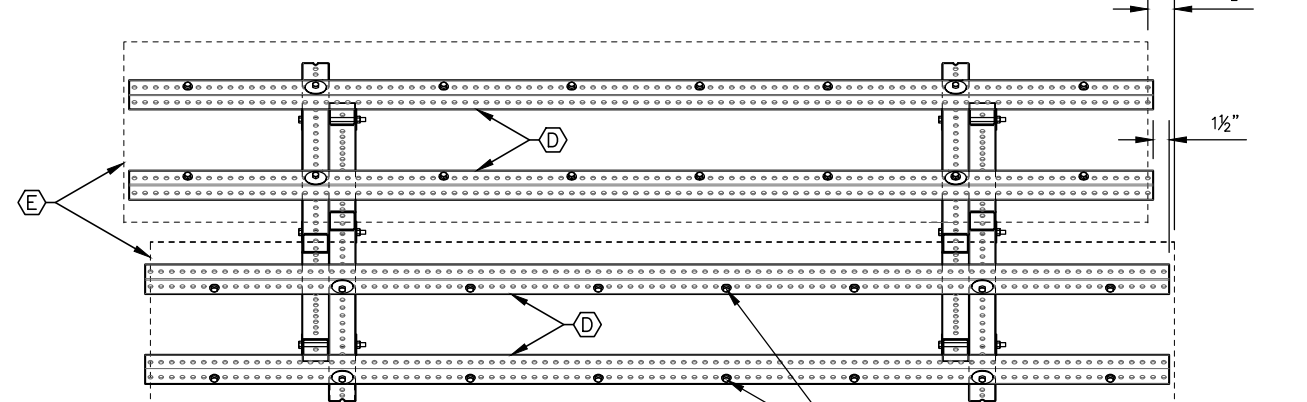
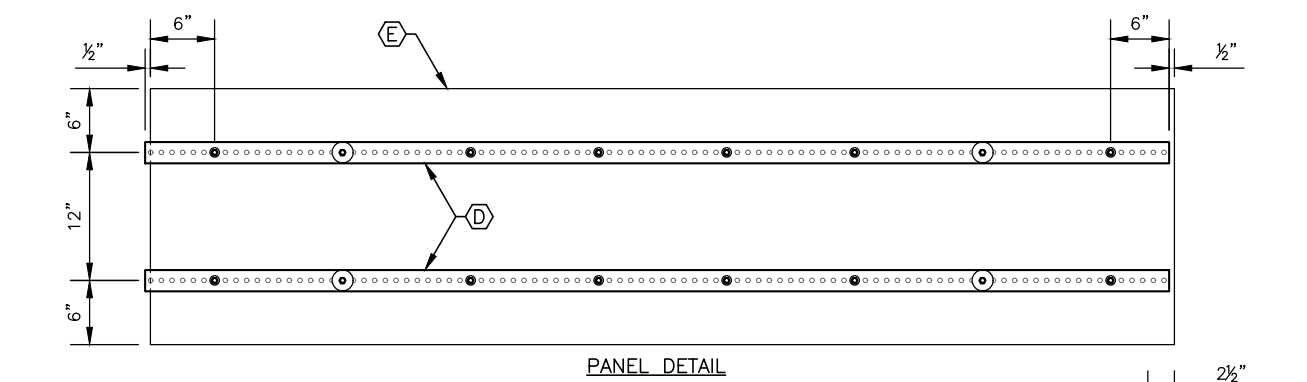
Date Revised: 1/07/2019, 2:29 PM  
 Layout Name: Segmented Circle  
 File Path and Name: I:\Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Segmented Circle Details.dwg  
 Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC

**SEGMENTED CIRCLE PANEL ASSEMBLY HARDWARE**

PIECE	DESCRIPTION	QUANTITY
(A)	2-1/2" SQ GALV STEEL PERF TUBE, 60", NOTCHED	2
(B)	2-1/2" SQ GALV STEEL PERF TUBE, 76-1/2"	4
(C)	2-1/2" SQ GALV STEEL PERF TUBE, 19-1/2"	4
(D)	2" SQ GALV STEEL PERF TUBE, 96"	4
(E)	24"x96"x0.08"-0.09" THICK ALUMINUM 6061-T6 OR 5052-H36/38	2
	3/8"x3" GALV BOLT, NUT	24
	3/8"x5" GALV BOLT, NUT	4
	3/8"x6" GALV BOLT, NUT	16
	3/8" GALV REGULAR WASHER	48
	3/8"x2" DIA SS FENDER WASHER	40
	24"x96" REFLECTIVE SHEETING	2

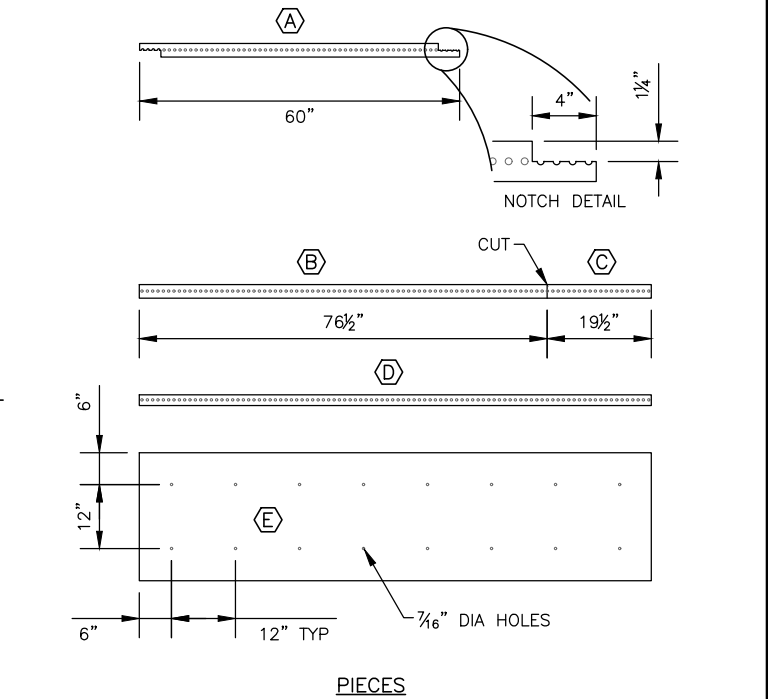
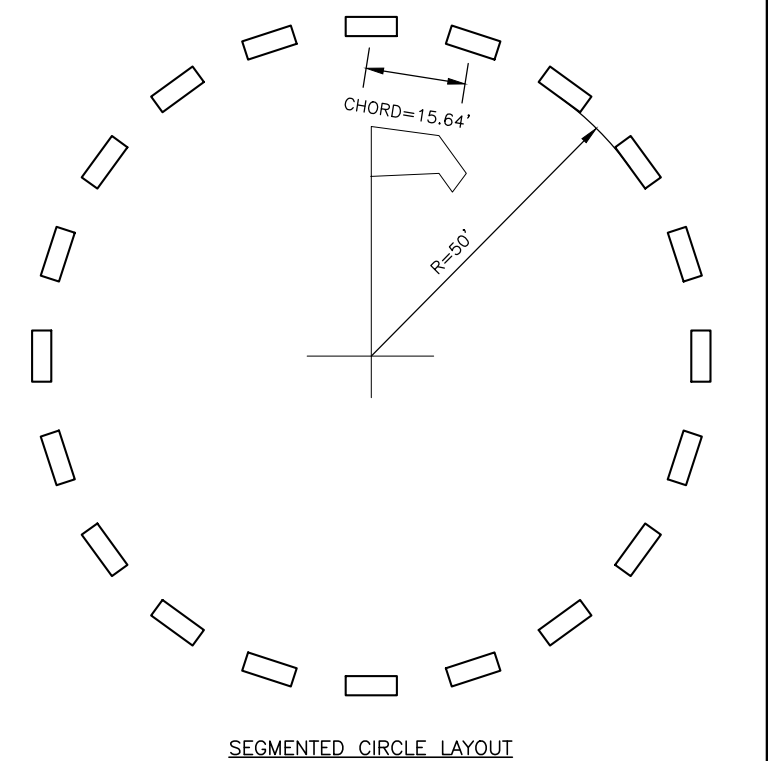
**NOTES:**

- CRITICAL ASSEMBLY DIMENSIONS ARE BETWEEN HOLES.
- PAINT ALL CUT EDGES WITH COLD GALVANIZING.
- APPLY REFLECTIVE FILM TO PANELS BEFORE ASSEMBLY.
- LEVEL ASSEMBLY BEFORE BACKFILLING.
- STEEL PERFORATED TUBING SHALL BE 12-GAGE STEEL, GALVANIZED, WITH 7/16-INCH HOLES PUNCHED OR DRILLED ON ALL SIDES ON 1-INCH CENTERS.



**DESIGN NOTES:**

SEGMENTED CIRCLE PANELS:  
 DESIGN REFERENCE: FAA AC 150/5345-27E; AC 150/5340-5D; ALASKA DOT  
 ITEM: P640.020.0000



**SEGMENTED CIRCLE PANEL ASSEMBLY**

PLANS DEVELOPED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111		
BY	DATE	REVISION

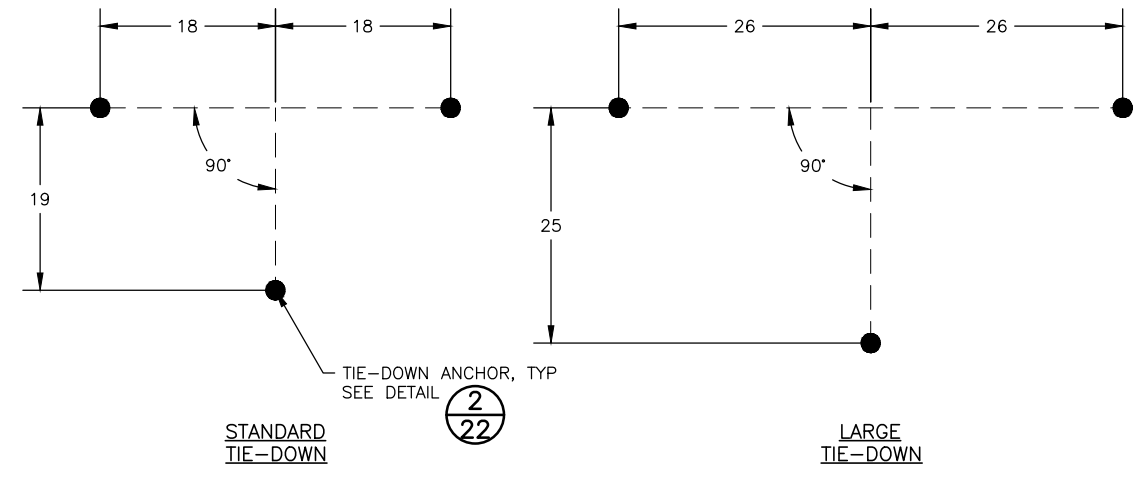
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**  
 4111 AVIATION AVE., ANCHORAGE ALASKA 99502  
 PHONE (907) 269-0590

**NEWTOK AIRPORT**  
 NEWTOK, ALASKA  
 AIRPORT RELOCATION  
 PROJECT No. CFAPT00310  
 AIP No. 3-02-XXXX-XXX-20XX  
 SEGMENTED CIRCLE DETAILS

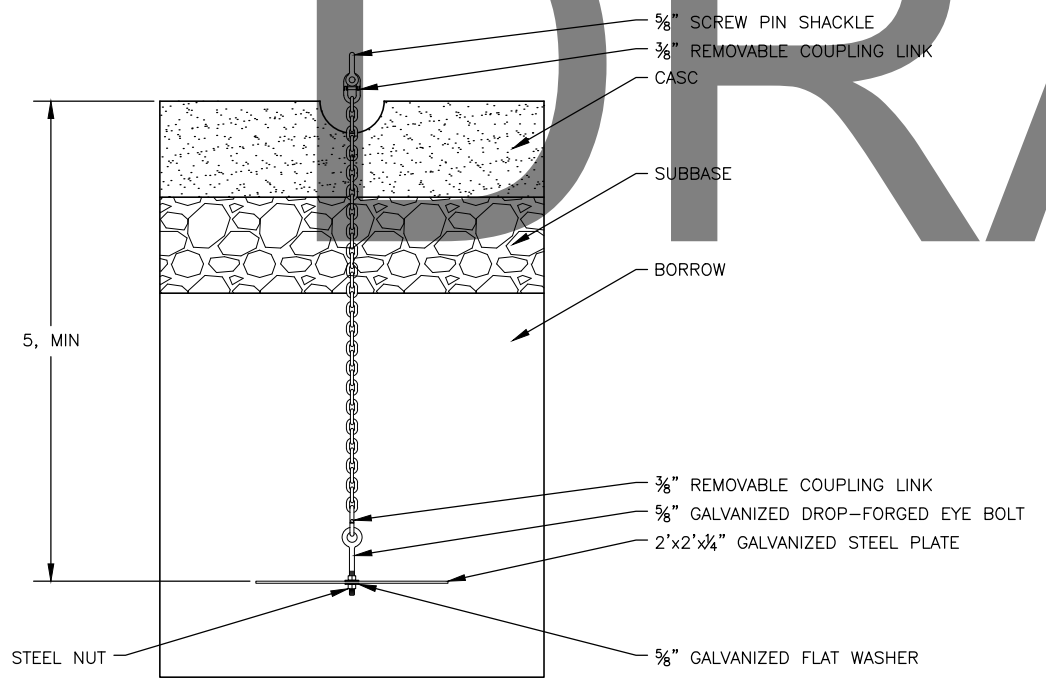
DATE:  
 12/28/2018  
 SHEET:  
 21 of 47

Date Received: 1/07/2019, 2:30 PM  
 Layout Name: Civil Details  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Civil & Sign Details.dwg

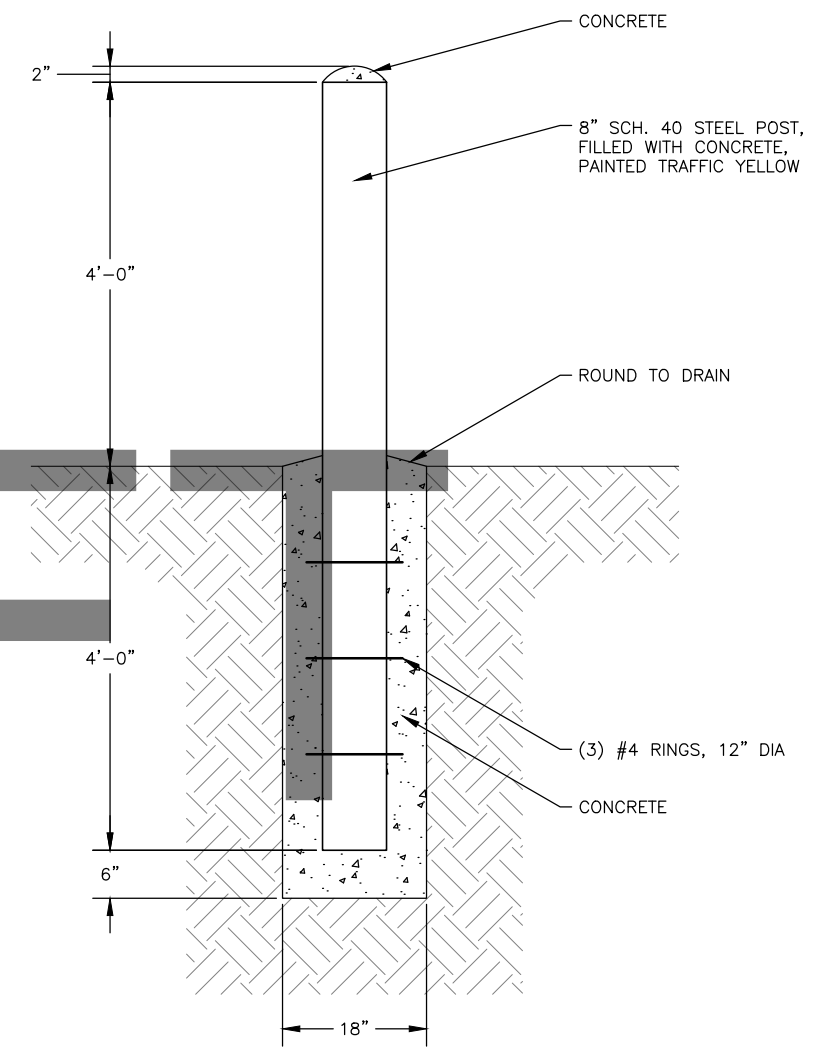
Designed By: CLB  
 Drawn By: RLC/JSC  
 Checked By: EJC



**1** AIRCRAFT TIE-DOWN PLAN  
 NTS



**2** AIRCRAFT TIE-DOWN ANCHOR  
 NTS



**3** BOLLARD DETAIL  
 NTS

DRAFT

<p> <b>PLANS DEVELOPED BY:</b>  <b>R&amp;M CONSULTANTS, INC.</b>            9101 VANGUARD DR.            ANCHORAGE, AK 99507            (907) 522-1707            CERT. OF AUTH. NO. AECC111         </p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">BY</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	BY	DATE	REVISION										<p> <b>STATE OF ALASKA</b>  <b>DEPARTMENT OF TRANSPORTATION</b>  <b>AND PUBLIC FACILITIES</b>  <b>CENTRAL REGION</b>            4111 AVIATION AVE., ANCHORAGE ALASKA 99502            PHONE (907) 269-0590         </p>	<p> <b>NEWTOK AIRPORT</b>            NEWTOK, ALASKA            AIRPORT RELOCATION            PROJECT No. CFAPT00310            AIP No. 3-02-XXXX-XXX-20XX            CIVIL DETAILS         </p>	<p>           DATE:            1/7/2019         </p> <p>           SHEET:            22 OF 47         </p>
BY	DATE	REVISION														

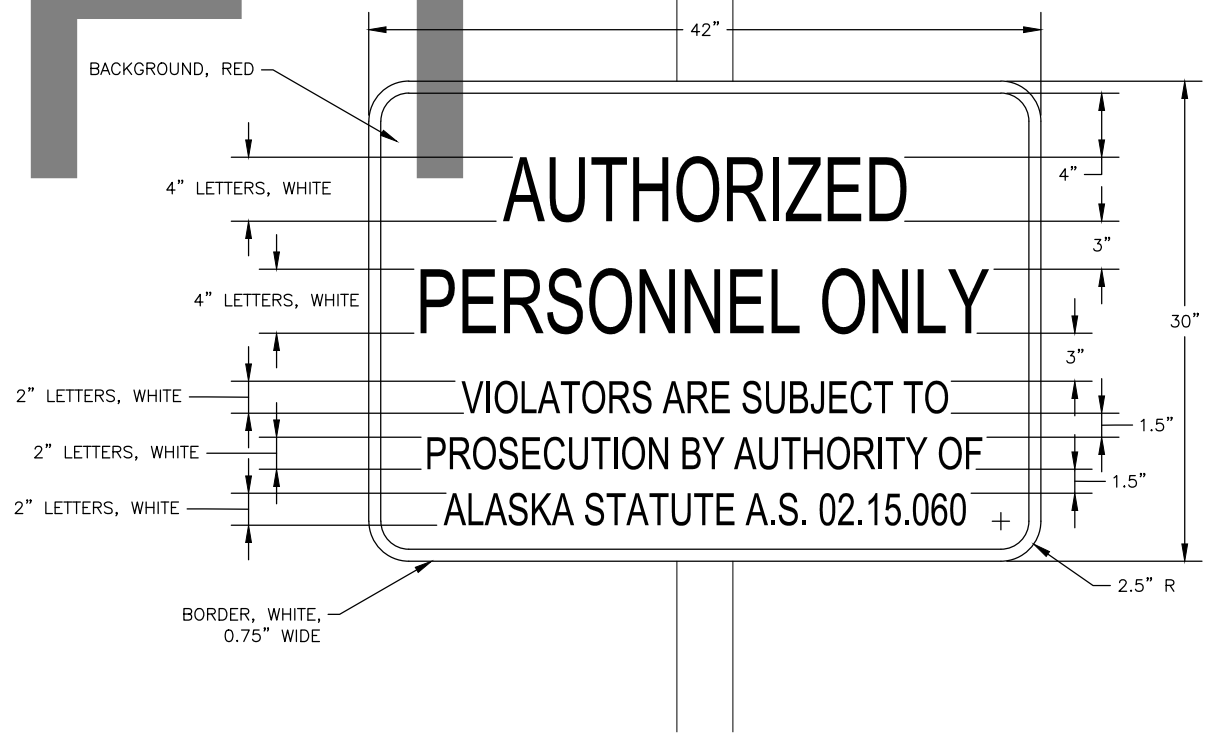
Date Revised: 1/07/2019, 2:30 PM  
 Layout Name: Sign Details  
 File Path and Name: Z:\project\2652.01 DOT\_C Newtok Airport Relocation Design\Civil\ACAD\2652.01-Civil & Sign Details.dwg  
 Drawn By: RLC/JSC  
 Checked By: EJC

SIGN SUMMARY												
SIGN No.	STATION	OFFSET		CODE No.	LEGEND	SIZE (IN)	COLOR		THICKNESS (IN)	AREA (SF)	FRAMED/ UNFRAMED	POST SIZE
		LT	RT				LEGEND	BACKGROUND				
S1	TW STA 203+70	95		SPECIAL	SELECTIVE EXCLUSIONS	36x48	BLACK/RED	WHITE	0.125	12.00	UNFRAMED	3.5" STEEL SQUARE TUBE
S2	TW STA 203+70	95		SPECIAL	AUTHORIZED PERSONNEL ONLY	42x30	WHITE	RED	0.125	8.75	UNFRAMED	3.5" STEEL SQUARE TUBE
S3	AR STA 10+40	22		R1-1	STOP	36x36	WHITE	RED	0.125	9.00	UNFRAMED	3.0" STEEL SQUARE TUBE
S4	AR STA 11+00		22	R2-1	25 MPH	24x30	BLACK	WHITE	0.125	5.00	UNFRAMED	3.0" STEEL SQUARE TUBE
S5	AR STA 53+00	22		R2-1	25 MPH	24x30	BLACK	WHITE	0.125	5.00	UNFRAMED	3.0" STEEL SQUARE TUBE
TOTAL										39.75		

**SIGNING NOTES:**

- ALL APPLICABLE SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE ALASKA TRAFFIC MANUAL.
- WORK AND MATERIALS NOT SPECIFICALLY REFERRED TO UNDER A CONTRACT BID ITEM SHALL BE CONSIDERED SUBSIDIARY TO EXISTING CONTRACT PAY ITEMS AND SHALL REQUIRE NO ADDITIONAL COMPENSATION.
- POST LENGTHS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR USING THE CRITERIA FOR RURAL ROADS, UNLESS DETERMINED OTHERWISE BY THE ENGINEER. ALL POSTS AND HARDWARE SHALL BE INCIDENTAL TO THE SIGNING BID ITEM. SEE STANDARD DETAILS.
- PRIOR TO INSTALLING POSTS OR FOUNDATIONS, OR DOING ANY EXCAVATION, THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES. THE LOCATION OF CABLES, CONDUITS, J-BOXES, FOUNDATIONS AND POLES THAT ARE SHOWN ON THE PLAN SHEETS ARE APPROXIMATE, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL LOCATION WHEN WORKING IN THE AREA.
- SIGN LOCATIONS ARE APPROXIMATE AND SUBJECT TO ADJUSTMENT BY THE ENGINEER. SIGNS MUST BE PLACED OUTSIDE OF THE TAXIWAY OBJECT FREE AREA.
- OFFSET DISTANCES ON THE SIGN SUMMARY ARE FROM CENTERLINE TO EDGE OF SIGN NEAREST THE TRAVELED WAY. SEE STANDARD DETAILS.

# DRAFT



1 SELECTIVE EXCLUSIONS/AUTHORIZED PERSONNEL SIGN DETAILS  
23 NTS

<b>PLANS DEVELOPED BY:</b> <b>R&amp;M CONSULTANTS, INC.</b> 9101 VANGUARD DR. ANCHORAGE, AK 99507 (907) 522-1707 CERT. OF AUTH. NO. AECC111	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">BY</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	BY	DATE	REVISION										<b>STATE OF ALASKA</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>AND PUBLIC FACILITIES</b> <b>CENTRAL REGION</b> 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590	<b>NEWTOK AIRPORT</b> NEWTOK, ALASKA AIRPORT RELOCATION PROJECT No. CFAPT00310 AIP No. 3-02-XXXX-XXX-20XX SIGN DETAILS	DATE: 1/7/2019 SHEET: 23 of 47
BY	DATE	REVISION														