

DESIGNED BY
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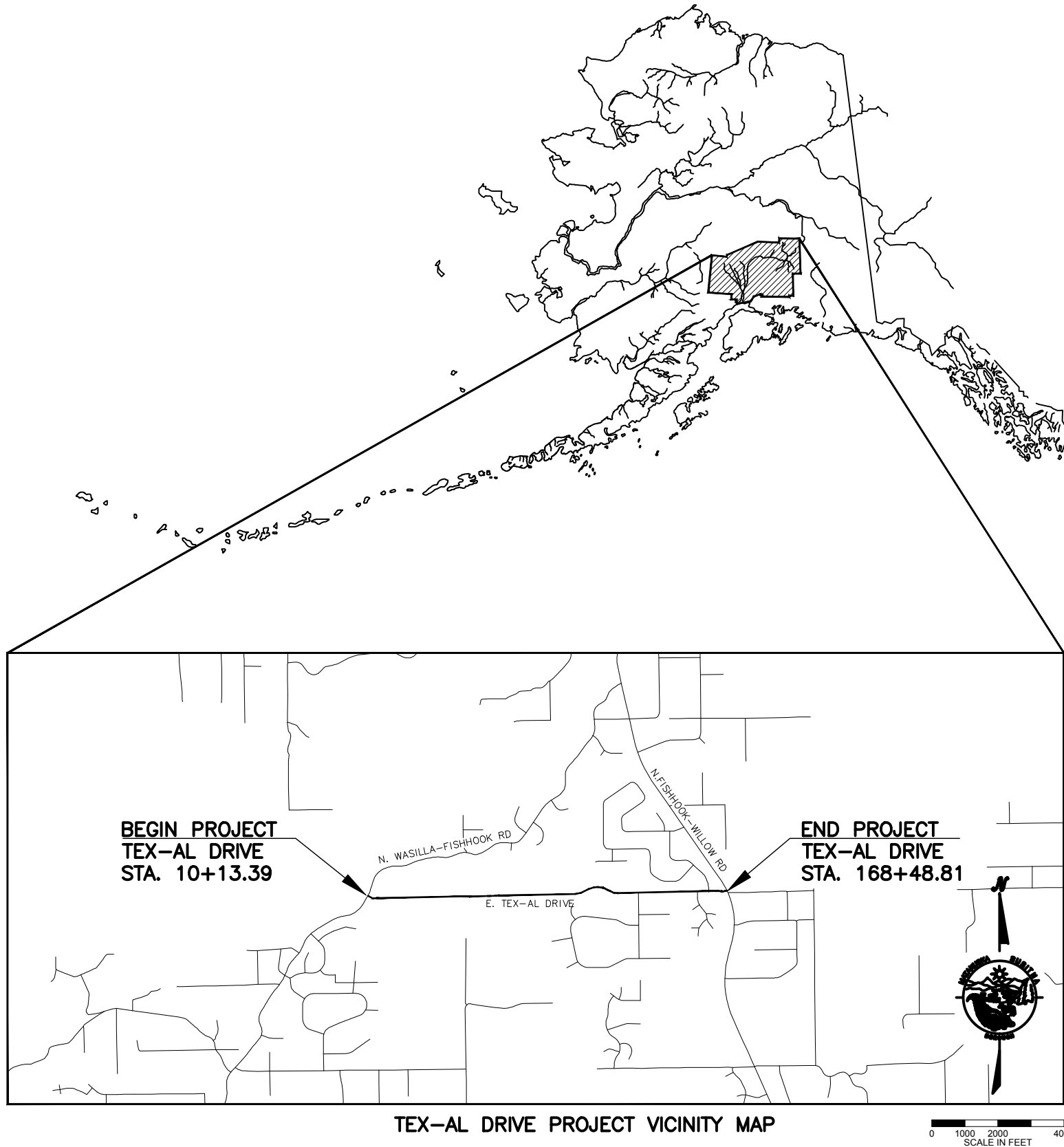
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MATANUSKA-SUSITNA BOROUGH

PUBLIC WORKS DEPARTMENT



TEX-AL DRIVE PROJECT VICINITY MAP



TEX-AL DRIVE EXTENSION, UPGRADE AND PATHWAY 35% DESIGN

PROJECT NUMBER:
35472-1809

PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
TEX-AL DRIVE	30 FT	3 MILES

DESIGN DESIGNATIONS	
FUNCTIONAL CLASS	ROADWAY NAME
WEST TEX-AL DRIVE ADT (2021)	MAJOR COLLECTOR
EAST TEX-AL DRIVE ADT (2021)	765
WEST TEX-AL DRIVE ADT (2036)	1239
EAST TEX-AL DRIVE ADT (2036)	1360
DESIGN SPEED (MPH)	2000
	45 MPH

PREPARED BY:

APPROVED BY:



TOM ADAMS, P.E.
PUBLIC WORKS DIRECTOR

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ROADWAY

	EXISTING	PROPOSED
EDGE OF PAVEMENT		
LIMIT OF CUT SLOPE & FILL SLOPE		
GRAVEL EDGE		
SIDEWALK AND PATH/TRAIL		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
PARALLEL CURB RAMP PERPENDICULAR CURB RAMP		
UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP		
DETECTABLE WARNING TILE		
BRIDGE		
TUNNEL		
GUARDRAIL		
END & PARALLEL END SECTIONS		
ROADWAY OBLITERATION		
FENCE		
STONE FENCE		
NOISE BARRIER		
RETAINING WALL		
HEADWALL & WINGWALL		
BOTTOM OF DITCH		
SPECIAL DITCH		
FLAT BOTTOM DITCH		
BERM		
RIPRAP		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX		
POST, BOLLARD		
PROJECT CENTERLINE		

UTILITIES

	EXISTING	PROPOSED
STORM DRAIN		
STORM DRAIN MANHOLE, CLEANOUT		
CURB INLET CATCH BASIN FIELD INLET CATCH BASIN		
PIPE CULVERT WITH END SECTION		
SANITARY SEWER		
SANITARY SEWER MANHOLE, CLEANOUT		
SEPTIC VENT, SEWER SERVICE CONNECTION		
WATER		
FIRE HYDRANT, VALVE OR RISER		
WELL, WATER SERVICE CONNECTION		
NATURAL GAS		
OIL OR GASOLINE PIPELINE		
TANKS (ABOVE GROUND, UNDERGROUND)		
ELECTRIC		
UTILITY POLE, POLE WITH LUMINAIRE		
GUY POLE, GUY WIRE ANCHOR		
TRANSMISSION TOWER (WOOD, STEEL)		
ELECTRIC PEDESTAL, TRANSFORMER		
ELECTRIC MANHOLE, METER		
ELECTRIC OUTLET, LANDSCAPE LIGHT		
TELEPHONE		
TELEPHONE MANHOLE, PEDESTAL		
FIBER OPTIC		
FIBER OPTIC MANHOLE		
CABLE TV		
CABLE TV PEDESTAL, SATELLITE DISH		
UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)		
VENT		

TRAFFIC

	EXISTING	PROPOSED
LOAD CENTER		
STATE TRAFFIC, MOA TRAFFIC, & BEACON CONTROLLER ARROW INDICATES DOOR LOCATION		
TYPE 1A, II, III, IV JUNCTION BOX		
FIBER OPTIC VAULT		
ELECTROLIER		
HIGHTOWER		
SIGNAL POLE WITH MASTARM		
PEDESTRIAN PUSH BUTTON & SIGNAL		
VEHICULAR SIGNAL		
VEHICULAR SIGNAL LEFT & RIGHT		
OPTICAL, CAMERA, RADAR, AND GPS DETECTOR		
LOOP DETECTOR		
COMMUNICATION ANTENNA		
MASTARM BEACON		
RURAL & SCHOOL ZONE BEACON		
LOOP DETECTOR CONDUIT		
SIGNAL CONDUIT		
LIGHTING CONDUIT		
SIGNAL & LIGHTING CONDUIT		
CONDUIT BORING		
CONDUIT SIZE IN INCHES		
INTERCONNECT		
SIGN POST		

PAVEMENT MARKINGS

	PROPOSED
TRAFFIC PROJECT CENTERLINE	
8" & 4" WHITE SOLID STRIPE	
4" WHITE SKIP STRIPE 10' STRIPES AND 30' SPACES	
8" WHITE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP 1' STRIPES AND 3' SPACES	
8" & 4" YELLOW SOLID STRIPE	
4" YELLOW SKIP STRIPE 10' STRIPES AND 30' SPACES	
STRIPING CHANGE STATION INTERVAL	
2' CROSSWALK OR STOPBAR	
LADDER CROSSWALK LAYOUT 2' WIDE RUNGS WITH 2' SPACES ALIGNED TO AVOID TIRE PATHS	
TYPICAL PAINTED MEDIAN	

RIGHT-OF-WAY

	RECOVERED	SET THIS PROJECT
FEDERAL GOV'T SURVEY MONUMENT		
GOV'T CONTROL STATION		
PRIMARY MONUMENT (BRASS/AL CAP)		
MISC SECONDARY CORNER		
PRIMARY CENTERLINE MONUMENT		
SECONDARY CENTERLINE MONUMENT		
RANDOM CONTROL MONUMENT		
PRIMARY GPS CONTROL POINT		
HORIZONTAL CONTROL POINT		
SECONDARY CONTROL POINT		
VERTICAL BENCHMARK		
TEMPORARY BENCHMARK		
TOWNSHIP AND RANGE LINES		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
CORPORATE or CITY LIMITS		
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY EASEMENT		
EXISTING PROPERTY LINE		
EXISTING UTILITY EASEMENT		
PROPOSED UTILITY EASEMENT		
EXISTING ROW CENTERLINE		
RAILROAD CENTERLINE		
TEMPORARY CONSTRUCTION EASEMENT		
TEMPORARY CONSTRUCTION PERMIT		
PARCEL NUMBER		

TOPOGRAPHY

	EXISTING	PROPOSED
LAKE OR POND, WETLANDS		
TREE (CONIFER/DECIDUOUS) TREELINE (EDGE OF VEGETATION)		
PLANTER		
BUILDING OR FOUNDATION		
CONTOUR, MAJOR OR MINOR		
DRAINAGE FLOW		
CREEK (CENTERLINE)		
RIVER (EDGE OF WATER)		

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

LEGEND

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD., SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL882-AK

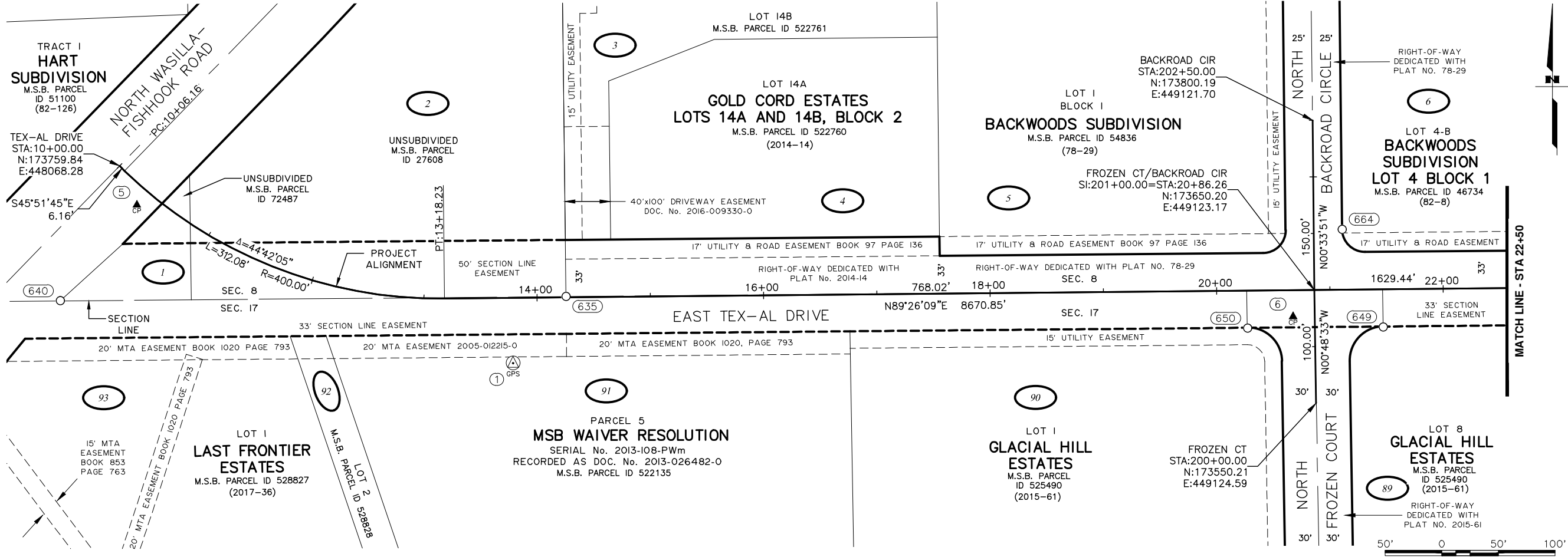
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HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY WITHIN THE SV-1 ADJUSTMENT, A U.S. SURVEY FOOT LOCAL SURFACE GRID
COORDINATE SYSTEM DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES. SEE SV-1
PARAMETERS FOR MORE INFORMATION.

BASIS OF COORDINATES:
A MULTIPLE DAY AVERAGED NAD83 (2011) (EPOCH:2010.000) OPUS SOLUTION FOR CONTROL POINT 4 WAS HELD FIXED AT
N 61°39'26.71824", W 149°13'10.85841", HAVING SV-1 (2011) PROJECT COORDINATES 173,885.1946 N, 463,719.2524 E.

VERTICAL CONTROL STATEMENT

PROJECT VERTICAL DATUM IS NAVD88 USING GEOID 12BAK SEPARATIONS, HOLDING THE MULTIPLE DAY OPUS DERIVED
ORTHOMETRIC ELEVATION OF CONTROL POINT 4 FIXED AT 578.54'.

TRANSLATION PARAMETERS

TO CONVERT THE LOCAL COORDINATES TO NAD83 (2011) STATE PLANE U.S. SURVEY FOOT COORDINATES, TRANSLATE USING
+2,624,946.5706 N, +1,312,508.8943 E, AND SCALE USING 0.9998990458.

SV-1 PARAMETERS

LINEAR UNIT: US SURVEY FEET
DATUM: NAD83
ELLIPSOID: GRS80
PROJECTION: TRANSVERSE MERCATOR
LATITUDE OF ORIGIN: 54°00'00" N
CENTRAL MERIDIAN: 150°00'00" W
SCALE FACTOR AT ORIGIN: 1.000000954290
FALSE NORTHING: -2,624,946.5706'
FALSE EASTING: 328,073.3960'

SURVEY CONTROL LEGEND

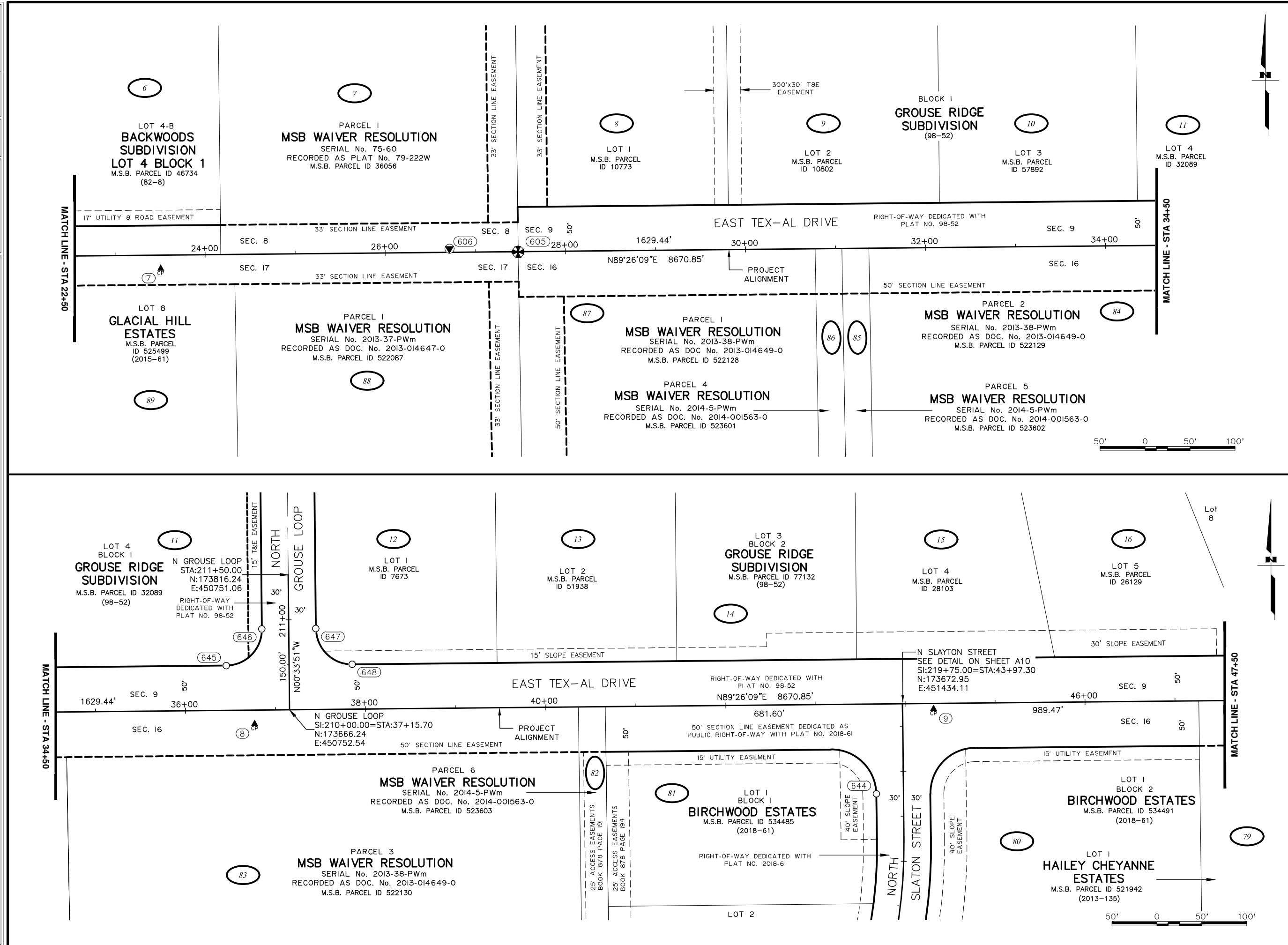
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|--|--|--|--------------------------|
| | POINT NUMBER IDENTIFIER | | PRIMARY CONTROL POINT |
| | RECOVERED RIGHT-OF-WAY CORNER | | SECONDARY CONTROL POINT |
| | RECOVERED PRIMARY SECTION LINE MONUMENT | | PARCEL NUMBER IDENTIFIER |
| | RECOVERED G.L.O. MONUMENT | | |
| | RECOVERED MATSU BOROUGH CONTROL MONUMENT | | |

SURVEY NOTES

- WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED OR RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).
- ALL COORDINATES AND DIMENSIONS SHOWN ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
- THE FIELD SURVEY WAS CONDUCTED JULY TO SEPTEMBER, 2022 BY CRW ENGINEERING GROUP.
- ALL ELEVATIONS SHOWN HEREON WERE ESTABLISHED VIA THIRD ORDER DIFFERENTIAL LEVELING USING A LEICA DNA 10 DIGITAL LEVEL AND REDUCED USING LEICA INFINITY OFFICE SOFTWARE.
- THE HORIZONTAL POSITION OF ALL CONTROL POINTS SHOWN WERE ESTABLISHED VIA NETWORK STATIC GNSS TECHNIQUE USING LEICA GS14, GS16 & GS18 RECEIVERS, REDUCED AND LEAST-SQUARES ADJUSTED USING LEICA INFINITY OFFICE SOFTWARE.
- THE HORIZONTAL POSITION OF RECOVERED MONUMENTS AND PROPERTY CORNERS SHOWN WERE ESTABLISHED VIA A COMBINATION OF NETWORK STATIC GNSS TECHNIQUE AND REDUNDANT RTK GNSS TECHNIQUE.
- ALL DOCUMENTS SHOWN RECORDED IN THE PALMER RECORDING DISTRICT.
- THE PROJECT ALIGNMENT SHOWN IS NOT SYNONYMS WITH EXISTING RIGHT-OF-WAY CENTERLINES OR SECTION LINES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL POSITION OF CONTROL POINTS SHOWN PRIOR TO USE.

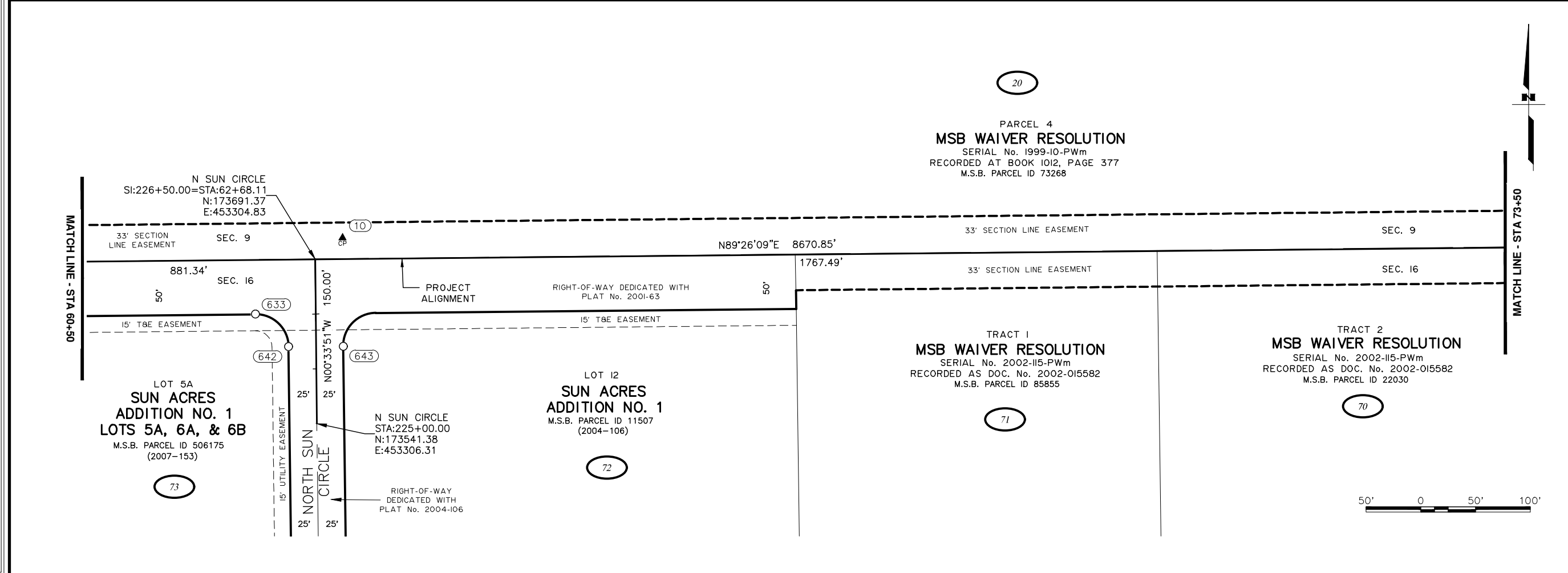
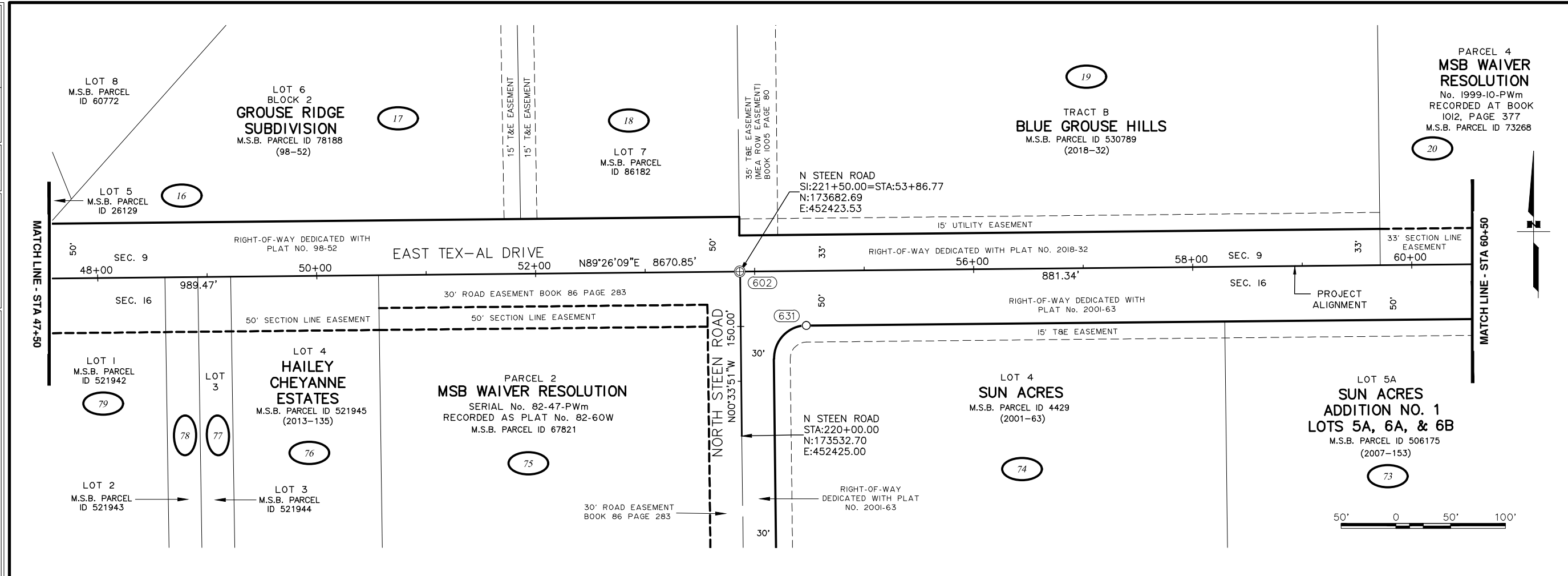
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STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
CRW ENGINEERING GROUP, INC. 3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 (907) 562-3252 #AECL862-AK	
MATANUSKA-SUSITNA BOROUGH PUBLIC WORKS DEPARTMENT	
TEX-AL DRIVE EXTENSION, UPGRADE, AND PATHWAY	
SURVEY CONTROL	
STA10+00 TO STA22+50	

DRAWING LOCATION	DATE	TIME	SCALE	DESIGNED BY
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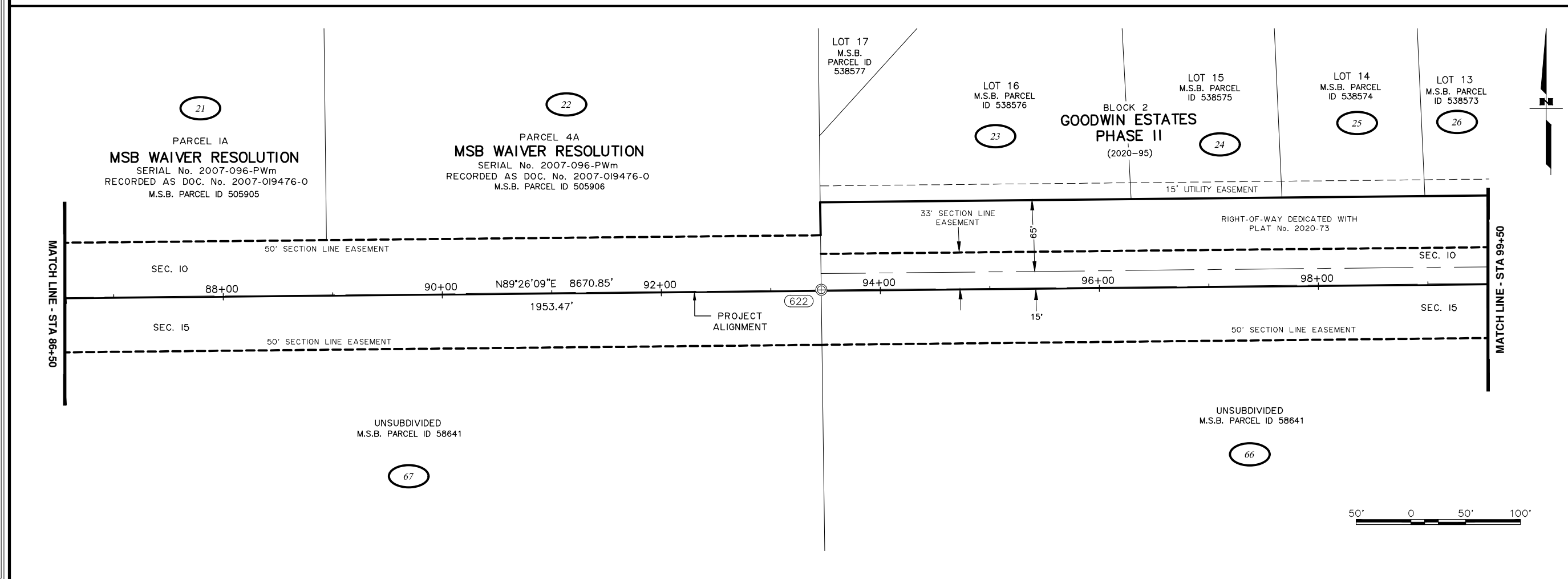
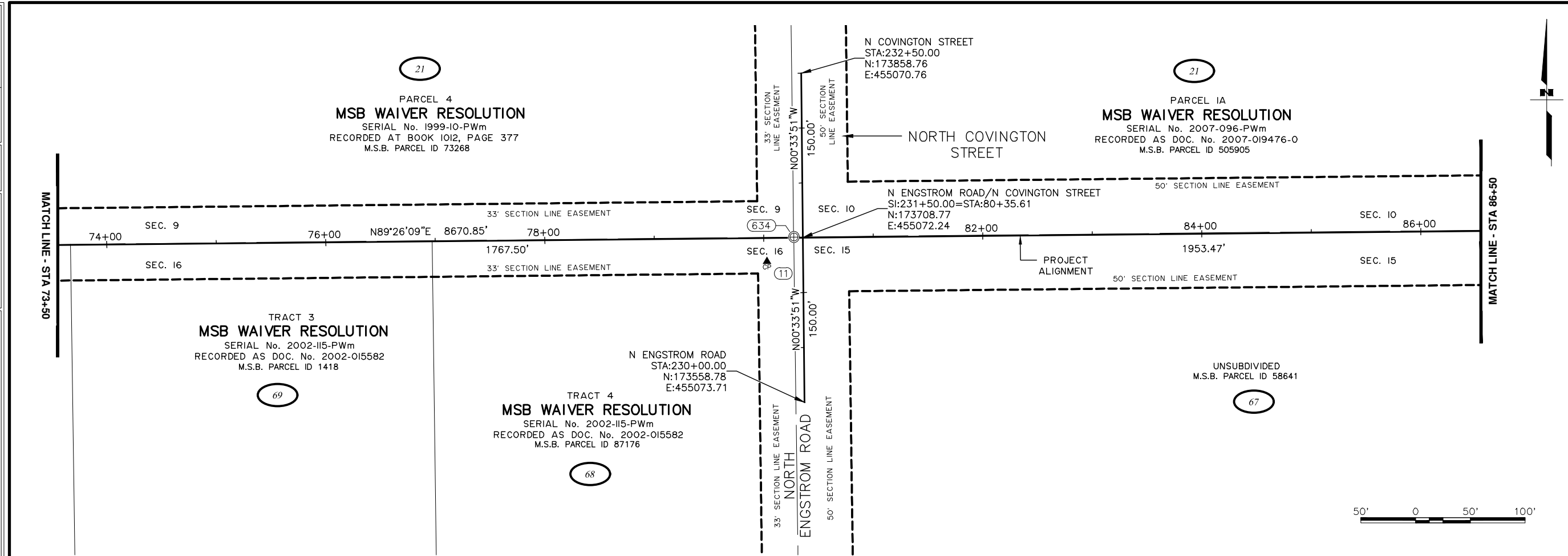
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STATE		YEAR	
ALASKA		2024	
PROJECT DESIGNATION			
35472-1809			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
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MATANUSKA-SUSITNA BOROUGH PUBLIC WORKS DEPARTMENT			
TEX-AL DRIVE EXTENSION, UPGRADE, AND PATHWAY			
SURVEY CONTROL			
STA22+50 TO STA47+50			

DRAWING LOCATION		DATE	TIME	SCALE	DESIGNED BY
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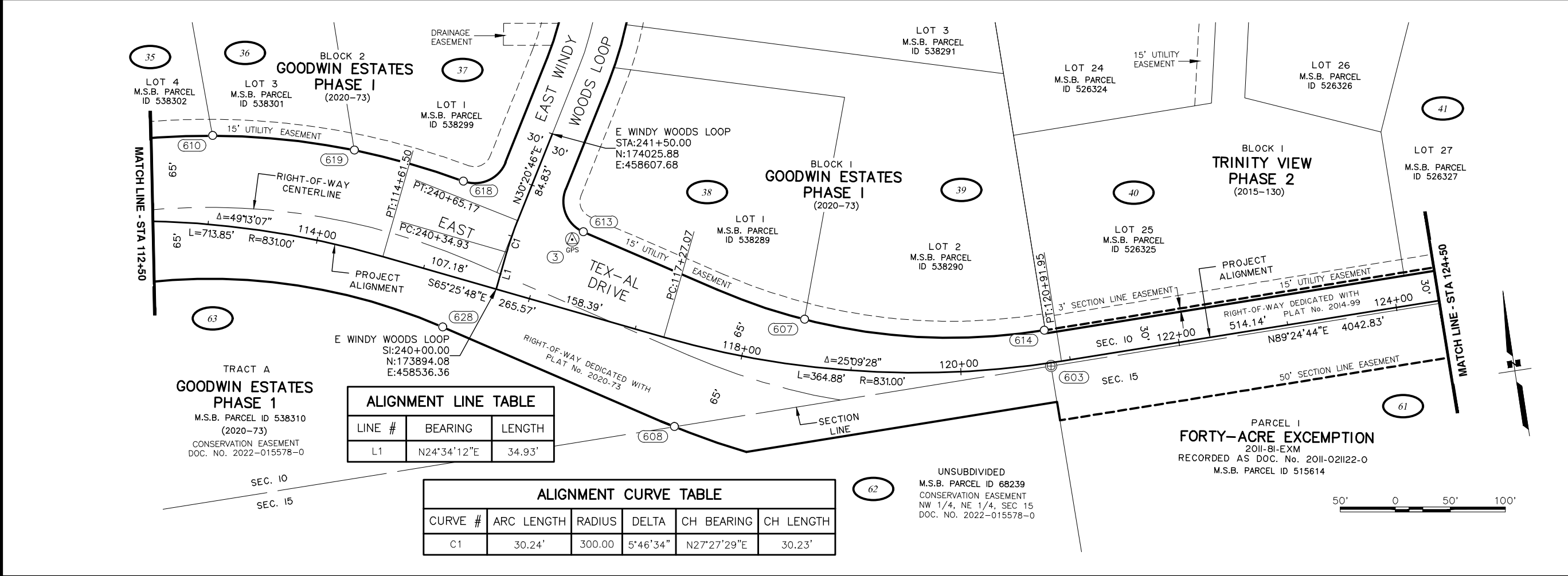
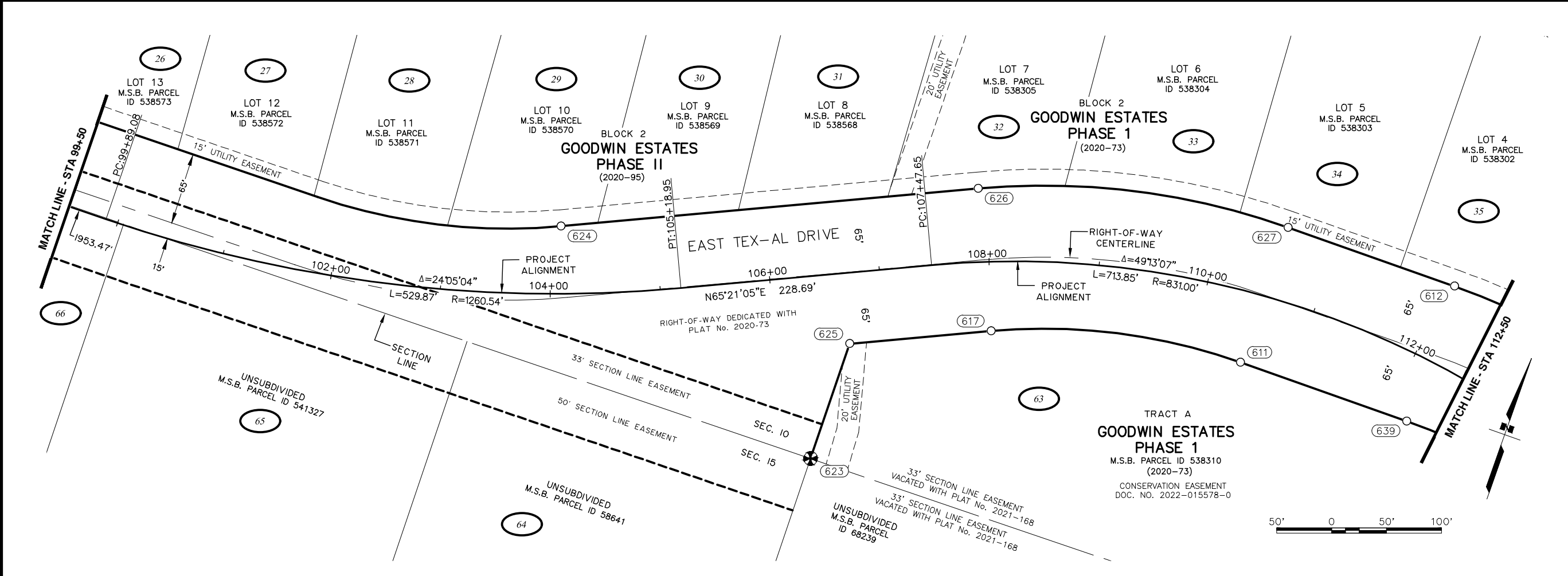


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STATE		YEAR	
ALASKA		2024	
PROJECT DESIGNATION			
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NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
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MATANUSKA-SUSITNA BOROUGH PUBLIC WORKS DEPARTMENT			
TEX-AL DRIVE EXTENSION, UPGRADE, AND PATHWAY			
SURVEY CONTROL			
STA47+50 TO STA73+50			

DRAWING LOCATION		DATE	TIME	SCALE	DESIGNED BY
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SHEET NO.		TOTAL SHEETS	
A7		A13	
STATE		YEAR	
ALASKA		2024	
PROJECT DESIGNATION			
35472-1809			
NO.		REVISION	
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DATE			
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TEX-AL DRIVE EXTENSION, UPGRADE, AND PATHWAY			
SURVEY CONTROL			
STA73+50 TO STA99+50			



SHEET NO.
A8

TOTAL SHEETS
A13

STATE
ALASKA

YEAR
2024

PROJECT DESIGNATION
35472-1809

NO.

REVISION

DATE

NO.

REVISION

DATE

NO.

REVISION

DATE

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

N ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

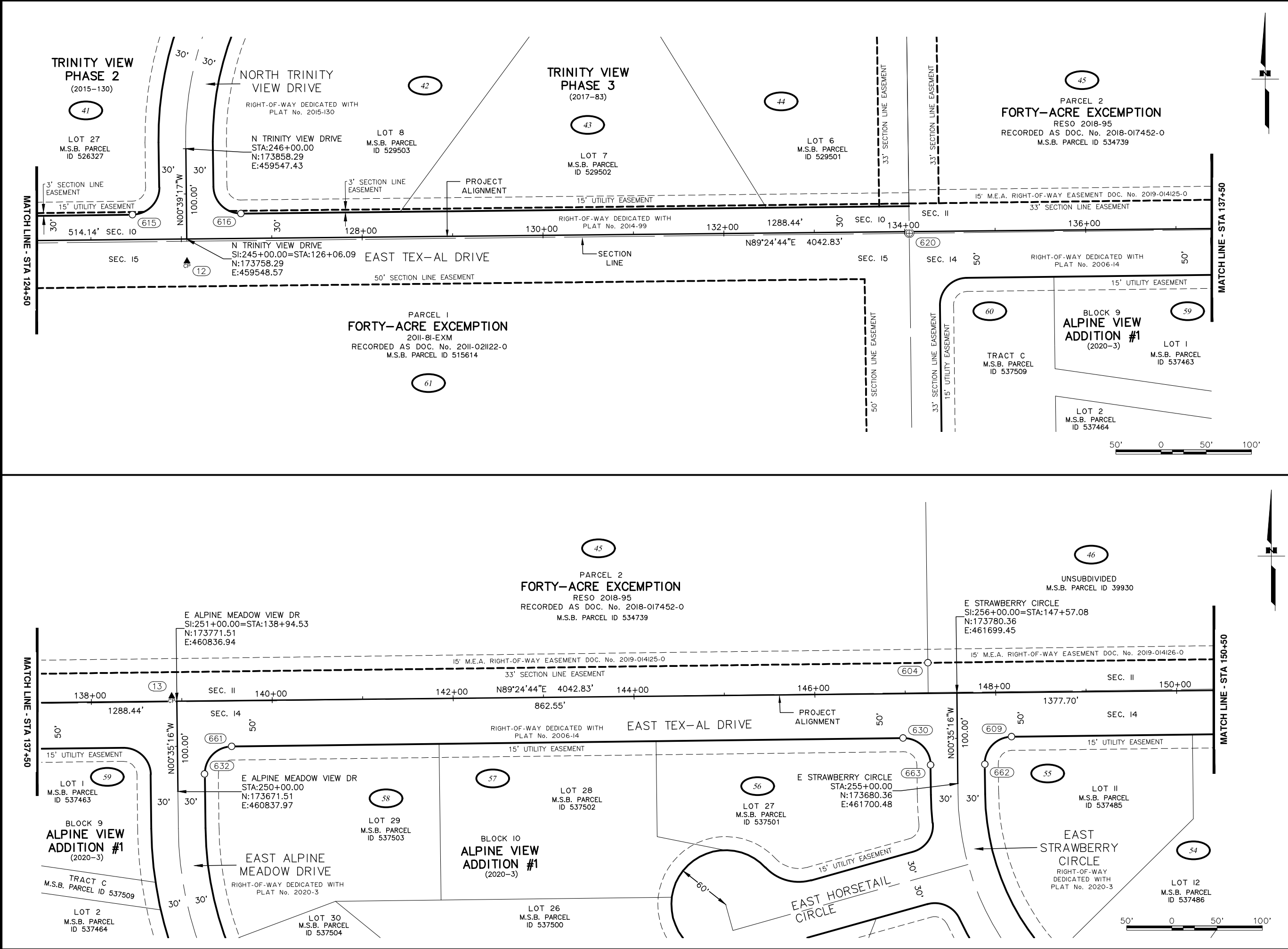
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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SURVEY CONTROL

STA99+50 TO STA124+50



SHEET NO.	TOTAL SHEETS
A9	A13
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

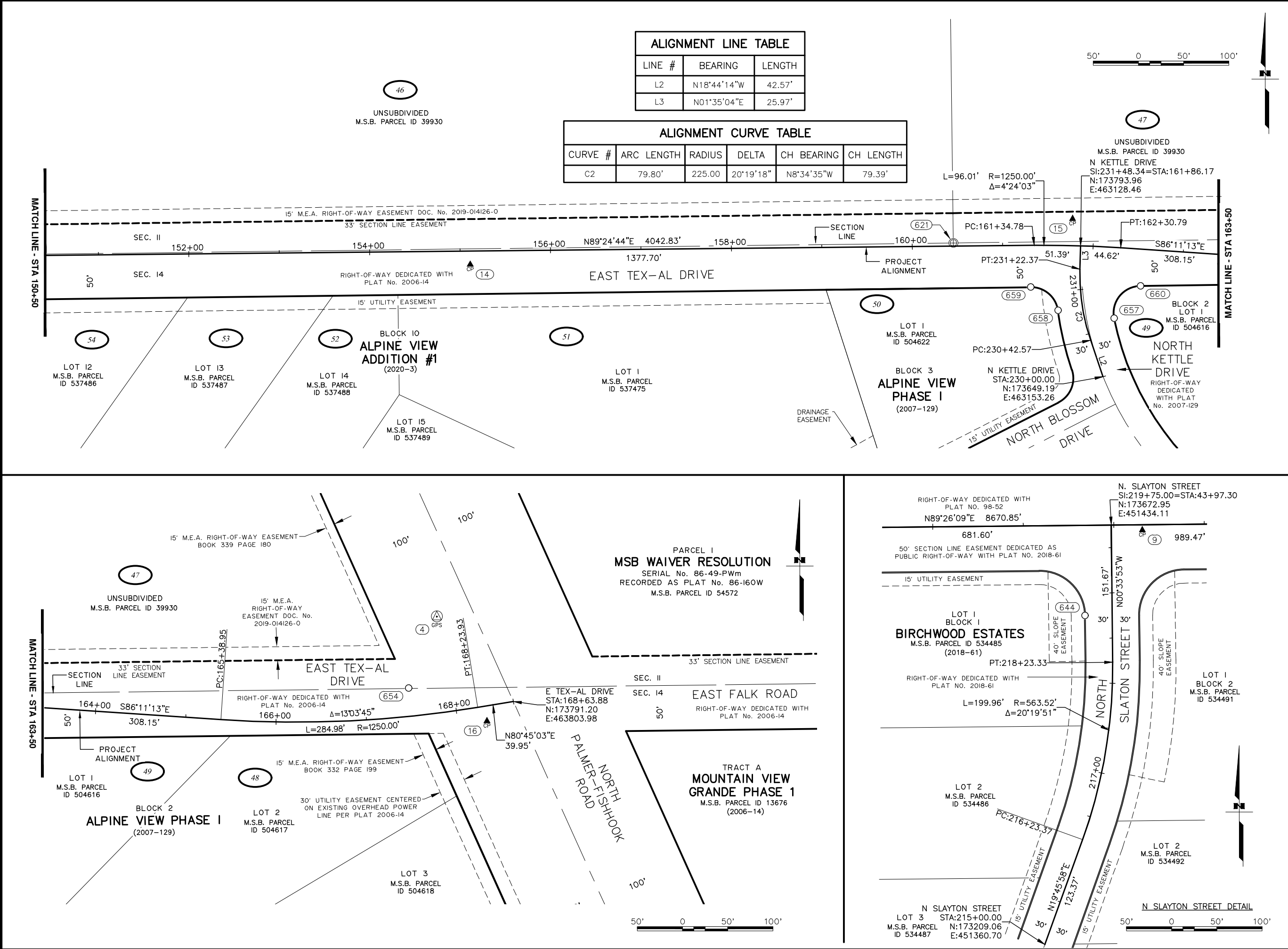
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PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SURVEY CONTROL

STA124+50 TO
STA150+50



PRIMARY CONTROL (SHEET A4)								
POINT #	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION	STATION	OFFSET	DESCRIPTION
1	173585.6420	448415.6964	N61°39'25.4732"	W149°18'27.8224"	629.76'	13+78.18	57.59 RT	SET 9/16" S.S. ROD W/3-1/4" ALCAP

SECONDARY CONTROL (SHEET A4)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
5	173725.4540	448083.4976	10+33.85	15.08 RT	SET 5/8" REBAR W/2" ALCAP
6	173626.8149	449104.3770	20+67.23	23.20 RT	SET 5/8" REBAR W/2" ALCAP

RECOVERED MONUMENTS (SHEET A4)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
640	173640.6385	448015.8271	10+36.14	123.55 RT	FOUND 1-1/4" RED PLASTIC CAP
* 641	173373.4864	447869.0280	10+64.51	424.79 RT	FOUND 1-1/4" RED PLASTIC CAP
* 637	174054.7768	448457.8457	14+24.94	411.10 LT	FOUND 1-1/4" RED PLASTIC CAP
635	173644.5274	448462.2950	14+25.35	0.83 LT	FOUND 2-1/2" ALCAP
* 638	174305.9080	448658.4972	16+28.06	660.25 LT	FOUND 1-1/4" RED PLASTIC CAP
650	173616.4021	449064.0229	20+26.77	33.22 RT	FOUND 5/8" REBAR
664	173703.7627	449147.6960	21+11.30	53.32 LT	FOUND 2" BRASS CAP
649	173617.5261	449183.9811	21+46.74	33.27 RT	FOUND 2" ALCAP
* 636	173632.7567	447140.4778	N/A	N/A	FOUND 2-1/2" BRASS CAP
* 601	173675.9460	447934.2860	N/A	N/A	FOUND 2" ALCAP

* NOT SHOWN, OUTSIDE OF VIEWPORT

SECONDARY CONTROL (SHEET A5)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
7	173637.9650	449386.7948	23+49.74	14.83 RT	SET 5/8" REBAR W/2" ALCAP
8	173650.7427	450713.6675	36+76.68	15.12 RT	SET 5/8" REBAR W/2" ALCAP
9	173667.4206	451468.4562	44+31.59	5.87 RT	SET 5/8" REBAR W/2" ALCAP

RECOVERED MONUMENTS (SHEET A5)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
606	173659.8805	449707.5903	26+70.74	3.92 LT	FOUND 3-1/4" ALCAP IN MON CASE
605	173656.4074	449783.9983	27+47.11	0.30 RT	FOUND 2-1/2" BRASS CAP IN MON CASE
645	173715.2626	450681.9960	36+45.64	49.71 LT	FOUND 1-1/4" RED PLASTIC CAP
646	173755.8307	450721.6047	36+85.65	89.89 LT	FOUND 1-1/4" RED PLASTIC CAP
647	173756.3806	450781.5310	37+45.58	89.85 LT	FOUND 1-1/4" RED PLASTIC CAP
648	173716.7715	450821.9377	37+85.59	49.84 LT	FOUND 1-1/4" RED PLASTIC CAP
644	173572.8400	451404.7982	43+67.01	99.82 RT	FOUND 1-1/4" YELLOW PLASTIC CAP

SECONDARY CONTROL (SHEET A6)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
10	173710.9718	453329.7546	62+93.23	19.36 LT	SET 5/8" REBAR W/2" ALCAP

RECOVERED MONUMENTS (SHEET A6)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
602	173682.7656	452423.0514	53+86.29	0.08 LT	FOUND 3-1/4 ALCAP IN MON CASE
631	173633.3706	452483.6856	54+46.44	49.91 RT	FOUND 1-1/4" RED PLASTIC CAP
633	173641.1702	453250.0804	62+12.87	49.66 RT	FOUND 5/8" REBAR
642	173611.4651	453280.3951	62+42.89	79.66 RT	FOUND 1-1/4" RED PLASTIC CAP
643	173611.8520	453330.2576	62+92.76	79.76 RT	FOUND 5/8" REBAR

PRIMARY CONTROL (SHEET A7)								
POINT #	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION	STATION	OFFSET	DESCRIPTION
* 2	174862.7171	455092.3374	N61°39'37.3283"	W149°16'09.2715"	634.88'	80+67.07	1153.69 LT	SET 9/16" S.S. ROD W/3-1/4" ALCAP

* NOT SHOWN, OUTSIDE OF VIEWPORT

SECONDARY CONTROL (SHEET A7)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
11	173687.1385	455039.5415	80+02.70	21.31 RT	SET 5/8" REBAR W/2" ALCAP

RECOVERED MONUMENTS (SHEET A7)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
634	173709.4735	455063.9356	80+27.31	0.79 LT	FOUND 3-1/4" ALCAP
622	173722.5572	456382.5289	93+45.97	0.89 LT	FOUND 3-1/4" ALCAP IN MON CASE

SHEET NO.
A12

STATE
ALASKA

TOTAL SHEETS
A13

YEAR
2024

PROJECT DESIGNATION
35472-1809

NO.
DATE

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NO.
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NO.
DATE

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CRW ENGINEERING GROUP, INC.
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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SURVEY CONTROL

POINT TABLES (A4-A7)

PRIMARY CONTROL (SHEET A8)								
POINT #	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION	STATION	OFFSET	DESCRIPTION
3	173928.3275	458611.2608	N61°39'27.7344"	W149°14'56.6205"	635.47'	116+22.56	62.29 LT	SET 9/16" S.S. ROD W/3-1/4" ALCAP

RECOVERED MONUMENTS (SHEET A8)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
624	173859.4141	457417.4950	104+10.11	61.28 LT	FOUND 2" BLUE PLASTIC CAP
623	173735.6532	457701.3988	106+21.95	165.14 RT	FOUND 2-1/2" BRASS CAP
625	173845.9986	457700.1905	106+66.87	64.35 RT	FOUND 2" BLUE PLASTIC CAP
626	174017.8668	457763.4423	107+92.46	66.79 LT	FOUND 2" BLUE PLASTIC CAP
617	173899.6495	457817.6119	107+99.97	63.03 RT	FOUND 2" BLUE PLASTIC CAP
611	173948.1904	458040.7615	110+48.14	63.90 RT	FOUND 2" BLUE PLASTIC CAP
627	174078.0599	458040.6455	110+56.28	65.72 LT	FOUND 2" BLUE PLASTIC CAP
612	174078.1736	458201.0108	112+04.60	70.73 LT	FOUND 2" BLUE PLASTIC CAP
639	173948.0642	458200.9766	112+21.27	58.29 RT	FOUND 2" BLUE PLASTIC CAP
610	174070.1702	458302.2474	112+97.30	80.54 LT	FOUND 2" BLUE PLASTIC CAP
619	174038.1260	458427.7024	114+14.84	87.27 LT	FOUND 2" BLUE PLASTIC CAP
618	173995.5431	458521.3035	115+12.80	86.02 LT	FOUND 2" BLUE PLASTIC CAP
628	173867.2856	458482.9774	115+31.28	46.56 RT	FOUND 2" BLUE PLASTIC CAP
613	173933.8462	458622.3135	116+30.32	71.91 LT	FOUND 2" BLUE PLASTIC CAP
608	173746.4552	458677.7759	117+56.04	76.00 RT	FOUND 2" BLUE PLASTIC CAP
607	173825.3060	458809.0968	118+52.08	41.95 LT	FOUND 2" BLUE PLASTIC CAP
614	173783.0959	459023.1125	120+80.50	30.12 LT	FOUND 2" BLUE PLASTIC CAP
603	173750.1021	459024.4982	120+81.99	2.87 RT	FOUND 2-1/2" ALCAP

SECONDARY CONTROL (SHEET A9)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
12	173733.7218	459548.6823	126+05.95	24.57 RT	SET 5/8" REBAR W/2" ALCAP
13	173776.9909	460831.2128	138+88.85	5.54 LT	SET 5/8" REBAR W/2" ALCAP

RECOVERED MONUMENTS (SHEET A9)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
615	173785.1489	459488.2847	125+46.08	27.47 LT	FOUND 1-1/4" ORANGE PLASTIC CAP
616	173786.4023	459608.3214	126+66.12	27.50 LT	FOUND 1-1/4" ORANGE PLASTIC CAP
620	173764.5859	460347.4729	134+05.01	1.90 RT	FOUND 3-1/4" ALCAP IN MON CASE
632	173690.8678	460867.3761	139+24.13	80.95 RT	FOUND 1-1/4" ORANGE PLASTIC CAP
661	173721.2908	460897.3530	139+54.42	50.84 RT	FOUND 1-1/4" ORANGE PLASTIC CAP
630	173730.5609	461639.8406	146+96.96	49.18 RT	FOUND 1-1/4" ORANGE PLASTIC CAP
604	173813.8005	461667.2213	147+25.20	33.77 LT	FOUND 2" BLUE PLASTIC CAP
663	173700.8799	461670.1920	147+27.01	79.17 RT	FOUND 1-1/4" ORANGE PLASTIC CAP
662	173701.6509	461730.1388	147+86.96	79.02 RT	FOUND 1-1/4" ORANGE PLASTIC CAP
609	173732.0317	461759.8039	148+16.94	48.94 RT	FOUND 1-1/4" ORANGE PLASTIC CAP

PRIMARY CONTROL (SHEET A10)								
POINT #	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION	STATION	OFFSET	DESCRIPTION
4	173885.1946	463719.2524	N61°39'26.7182"	W149°13'10.8584"	578.54'	167+92.71	106.03 LT	SET 9/16" S.S. ROD W/3-1/4" ALCAP

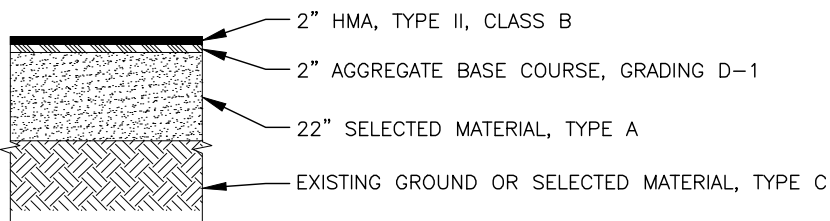
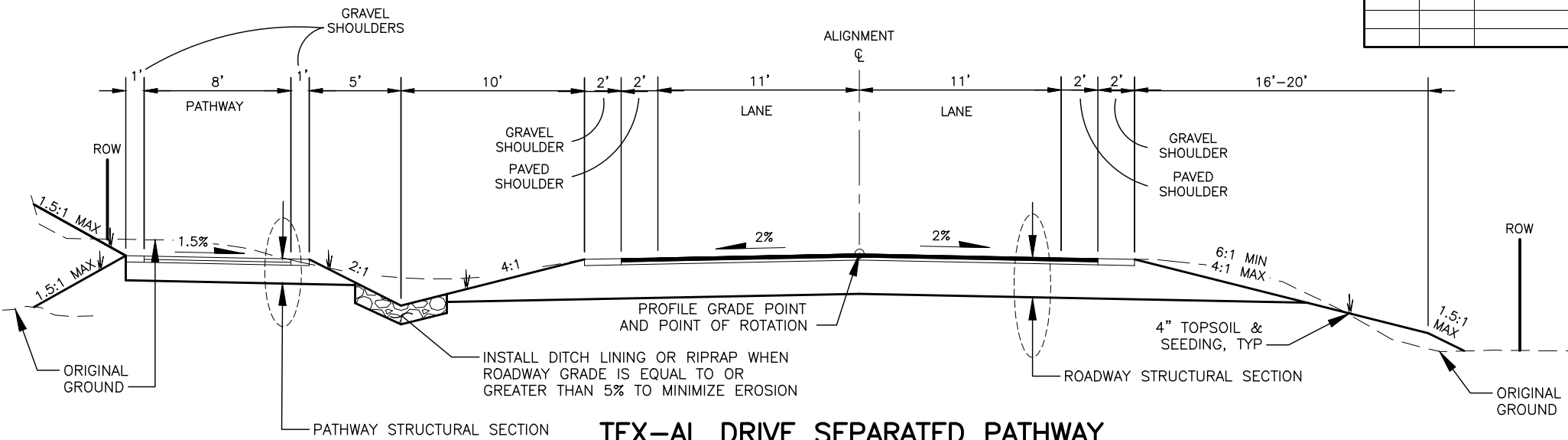
SECONDARY CONTROL (SHEET A10)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
14	173773.3034	462453.4987	155+11.02	14.79 RT	SET 5/8" REBAR W/2" ALCAP
15	173823.9953	463119.6000	161+76.61	29.78 LT	SET 5/8" REBAR W/2" ALCAP
16	173769.7135	463774.7142	168+31.54	16.51 RT	SET 5/8" REBAR W/2" ALCAP

RECOVERED MONUMENTS (SHEET A10)					
POINT #	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
* 655	175435.5693	462967.4331	160+41.98	1642.12 LT	FOUND 2-1/2" BRASS CAP
621	173797.1941	462987.6726	160+45.41	3.62 LT	FOUND 3-1/4" ALCAP IN MON CASE
659	173748.3473	463073.1198	161+30.35	46.10 RT	FOUND 1-1/4" YELLOW PLASTIC CAP
* 656	175181.3256	463068.1159	161+37.28	1386.86 LT	FOUND 2" BLUE PLASTIC CAP
658	173722.6682	463103.4342	161+61.96	71.81 RT	FOUND 1-1/4" YELLOW PLASTIC CAP
657	173713.8528	463165.5151	162+28.32	78.26 RT	FOUND 1-1/4" YELLOW PLASTIC CAP
660	173749.7009	463194.5550	162+55.07	40.56 RT	FOUND 1-1/4" YELLOW PLASTIC CAP
654	173806.0438	463687.8728	167+49.78	31.17 LT	FOUND 1-1/4" YELLOW PLASTIC CAP
* 653	172893.9450	464317.9941	N/A	N/A	FOUND 1-1/4" YELLOW PLASTIC CAP
* 652	172571.3812	464243.7713	N/A	N/A	FOUND 6" x 6" DOT CONC MON
* 651	172024.8609	464490.2535	N/A	N/A	FOUND 1-1/4" ORANGE PLASTIC CAP

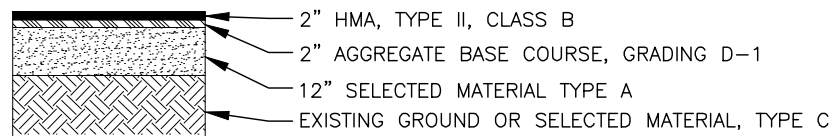
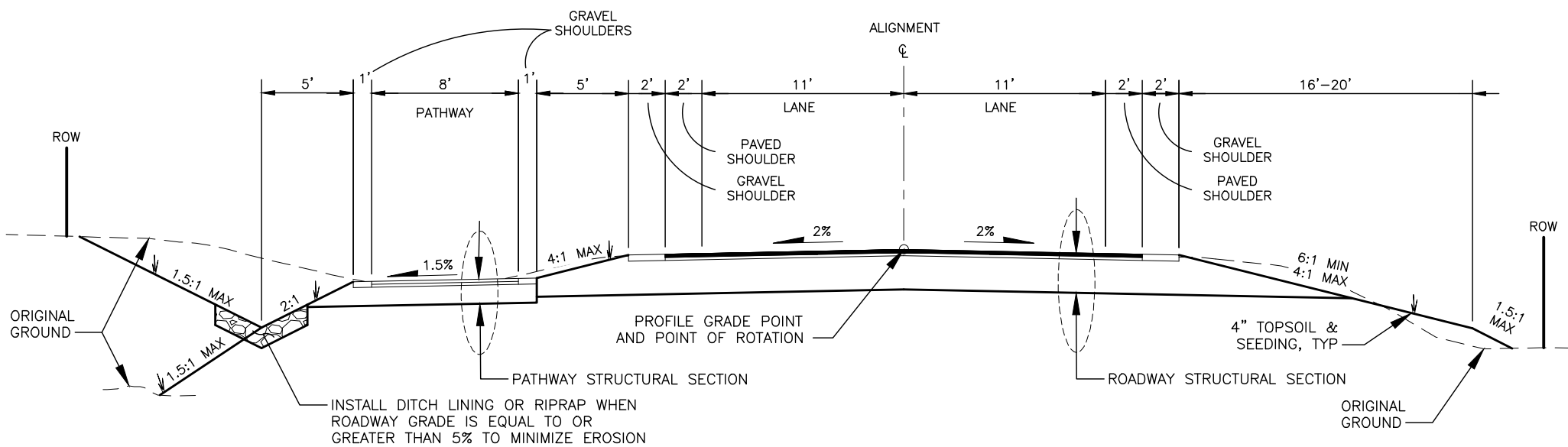
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CHECKED BY
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TIME
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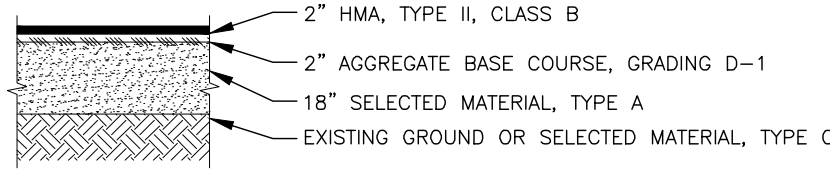
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			ALASKA	35472-1809	2024	B1	B2



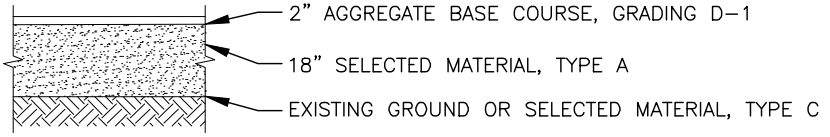
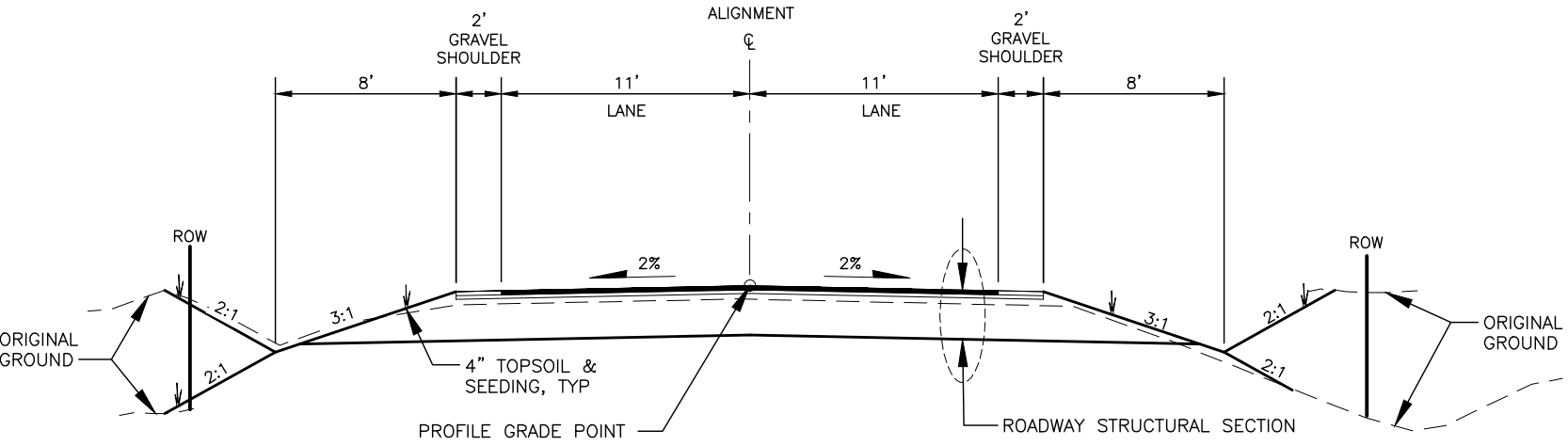
ROADWAY STRUCTURAL SECTION



PATHWAY STRUCTURAL SECTION



PAVED DRIVEWAY STRUCTURAL SECTION



UNPAVED DRIVEWAY STRUCTURAL SECTION

SIDE STREETS
BEYOND RADIUS RETURN

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

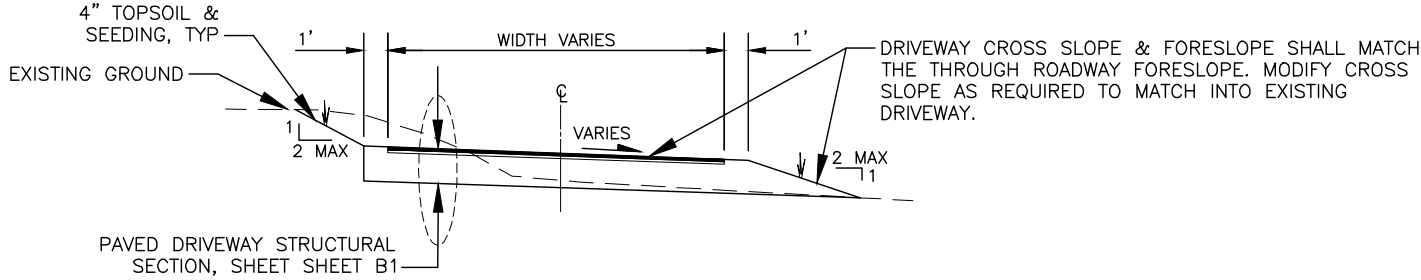
MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

**TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY**

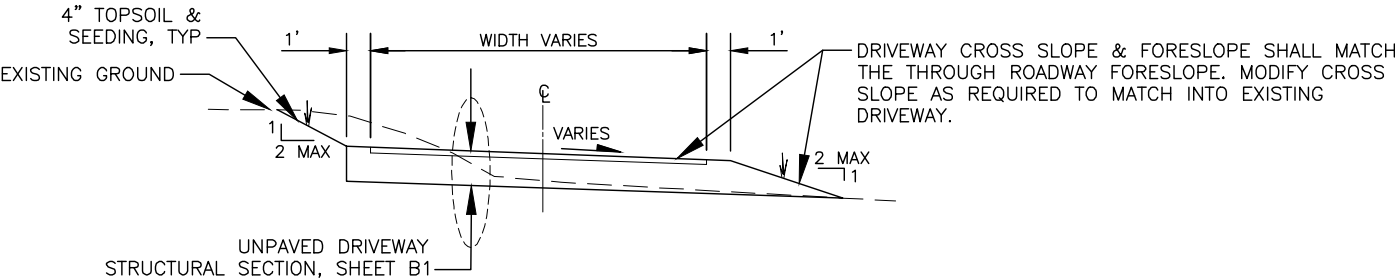
TYPICAL SECTIONS

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8/11/2024
TIME
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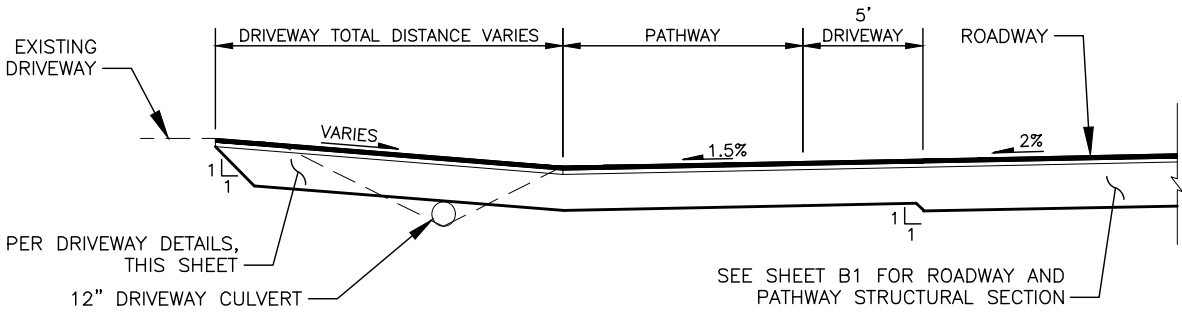
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			ALASKA	35472-1809	2024	B2	B2



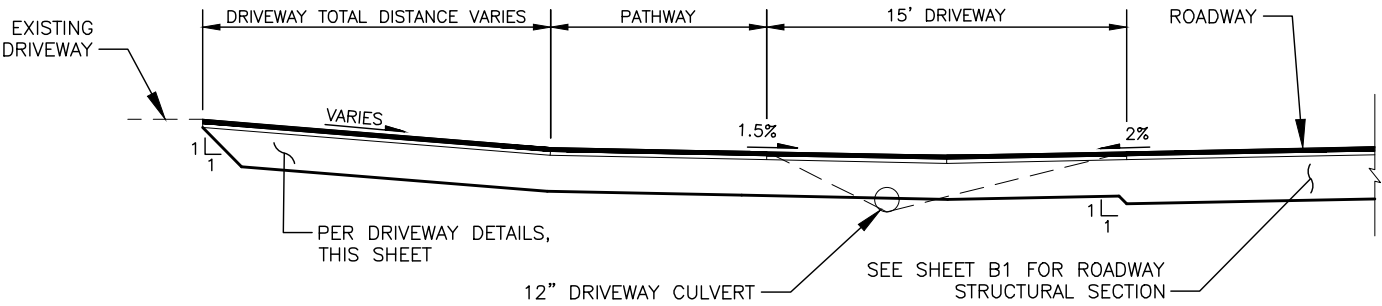
DRIVEWAY AREA PAVED



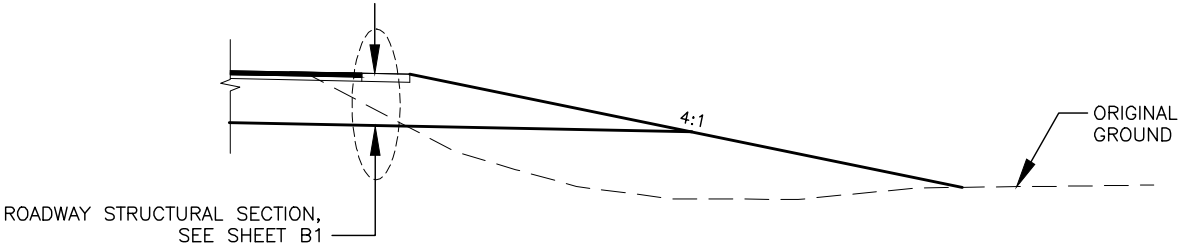
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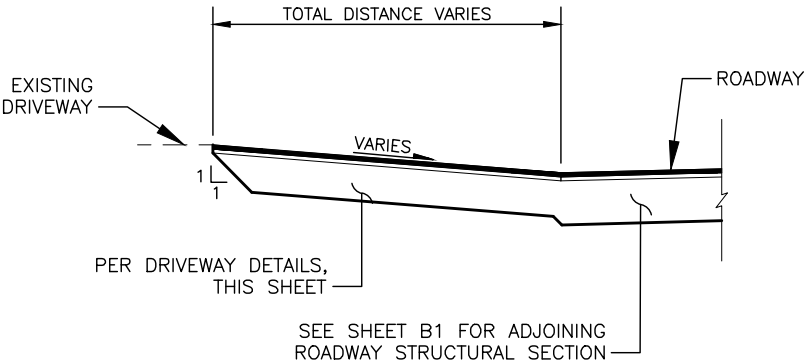
TYPICAL DRIVEWAY CONNECTION SECTION DEPRESSED PATHWAY



TYPICAL DRIVEWAY CONNECTION SECTION SEPARATED PATHWAY



ROADWAY WIDENING



TYPICAL DRIVEWAY CONNECTION SECTION NO PATHWAY

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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT
**TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY**

TYPICAL SECTIONS

DRAWING LOCATION
JJ\JOBSDATA\20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\01 CIVIL\02 DESIGN\20820.00_C01_ESTIMATE.DWG

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
N/A

DATE
8/1/2024

TIME
9:25 AM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	C1	C2

TO BE COMPLETED AT NEXT SUBMITTAL

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ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

ESTIMATE OF QUANTITIES

DRAWING LOCATION

U:\JOBS\DATA\20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\01 CIVIL\02 DESIGN\20820.00_D01-D05_SUMMARY TABLES.DWG

DATE

TIME

SCALE

DESIGNED BY

CHECKED BY

DRAFTED BY

3/8/2023

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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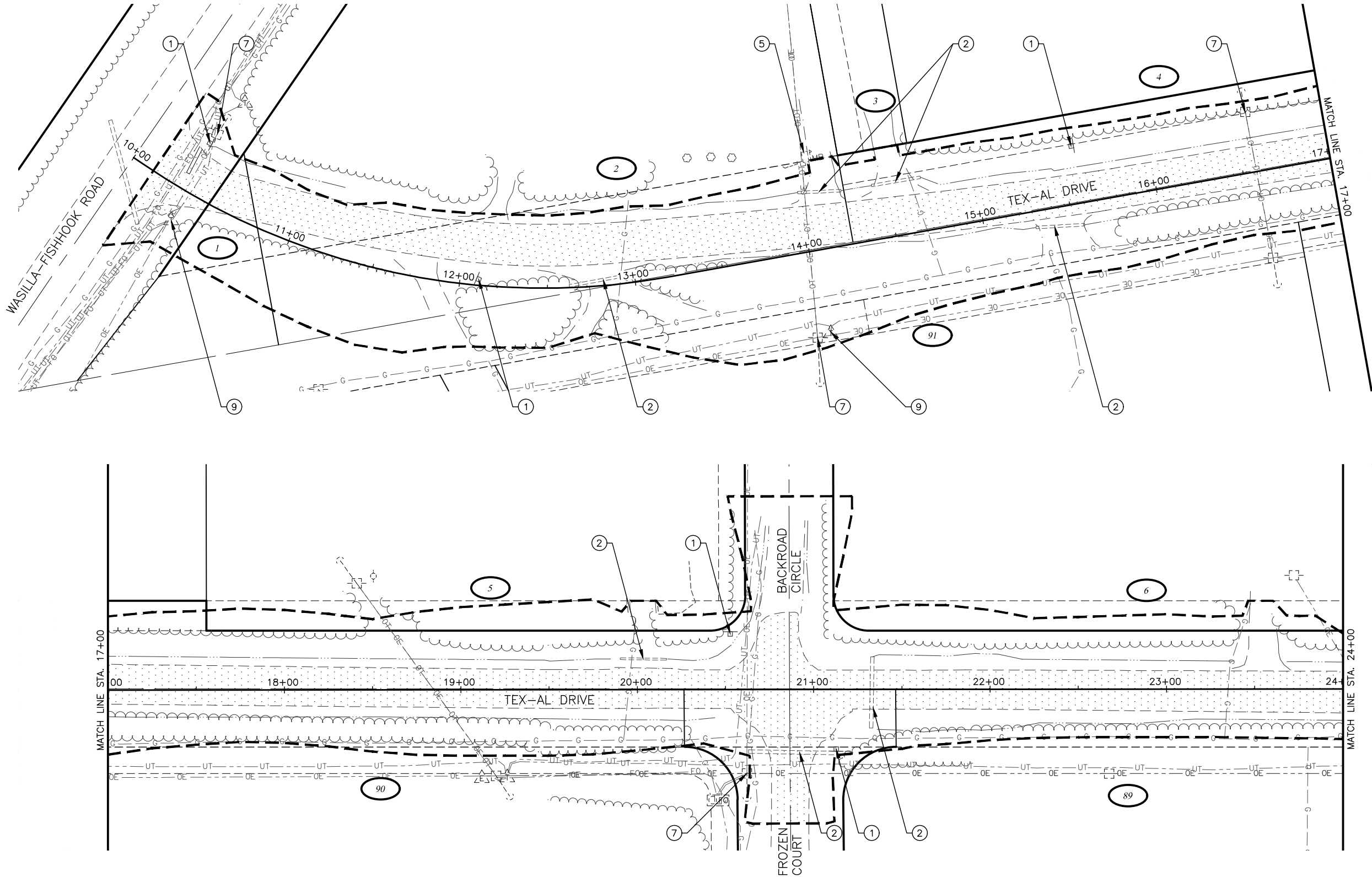
TO BE COMPLETED AT NEXT SUBMITTAL

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD., SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL882-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SUMMARY TABLES



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 2 REMOVAL OF CULVERT PIPE
- 5 REMOVE SINGLE MAIL BOX
- 7 REMOVE OR RELOCATE LUMINAIRE POLE, UTILITY POLE, OR LUMINAIRE ARM (BY OTHERS)
- 9 REMOVE OR RELOCATE TELEPHONE PEDESTAL (BY OTHERS)

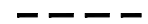
NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND



REMOVAL OF PAVEMENT



APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.
E1

TOTAL SHEETS
E14

STATE
ALASKA

YEAR
2024

PROJECT DESIGNATION
35472-1809

NO.
DATE

REVISION

NO.
DATE

REVISION

NO.
DATE

REVISION

NO.
DATE

REVISION

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

TEX-AL DRIVE

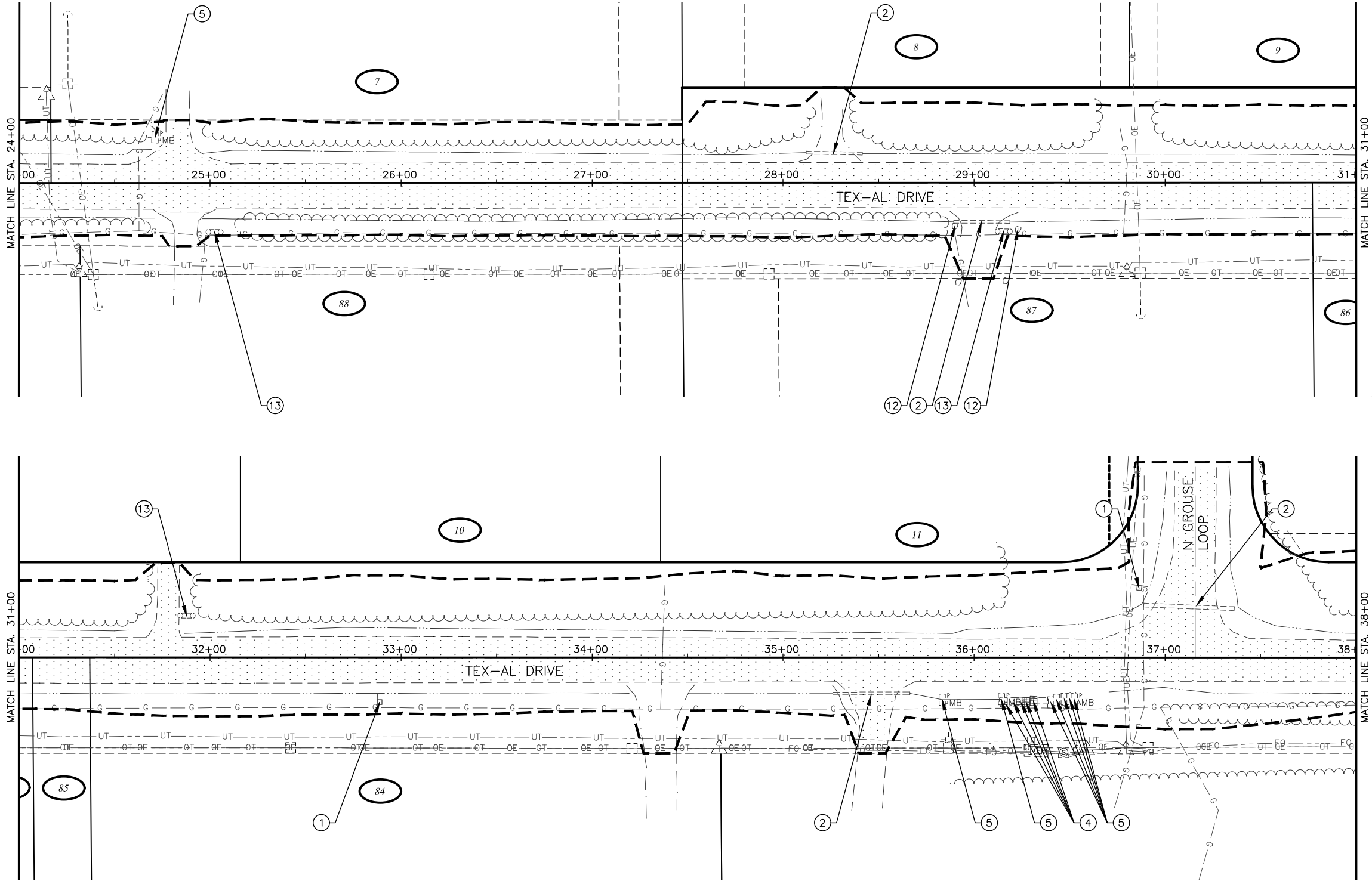
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3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

BOP TO STA 24+00



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 2 REMOVAL OF CULVERT PIPE
- 4 REMOVAL OF MULTIPLE MAIL BOX
- 5 REMOVAL OF SINGLE MAIL BOX
- 12 SALVAGE AND RELOCATE OR DISPOSE EXISTING BOULDER AS DIRECTED BY THE ENGINEER
- 13 REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND

- REMOVAL OF PAVEMENT
- APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.	TOTAL SHEETS
E2	E14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

TEX-AL DRIVE

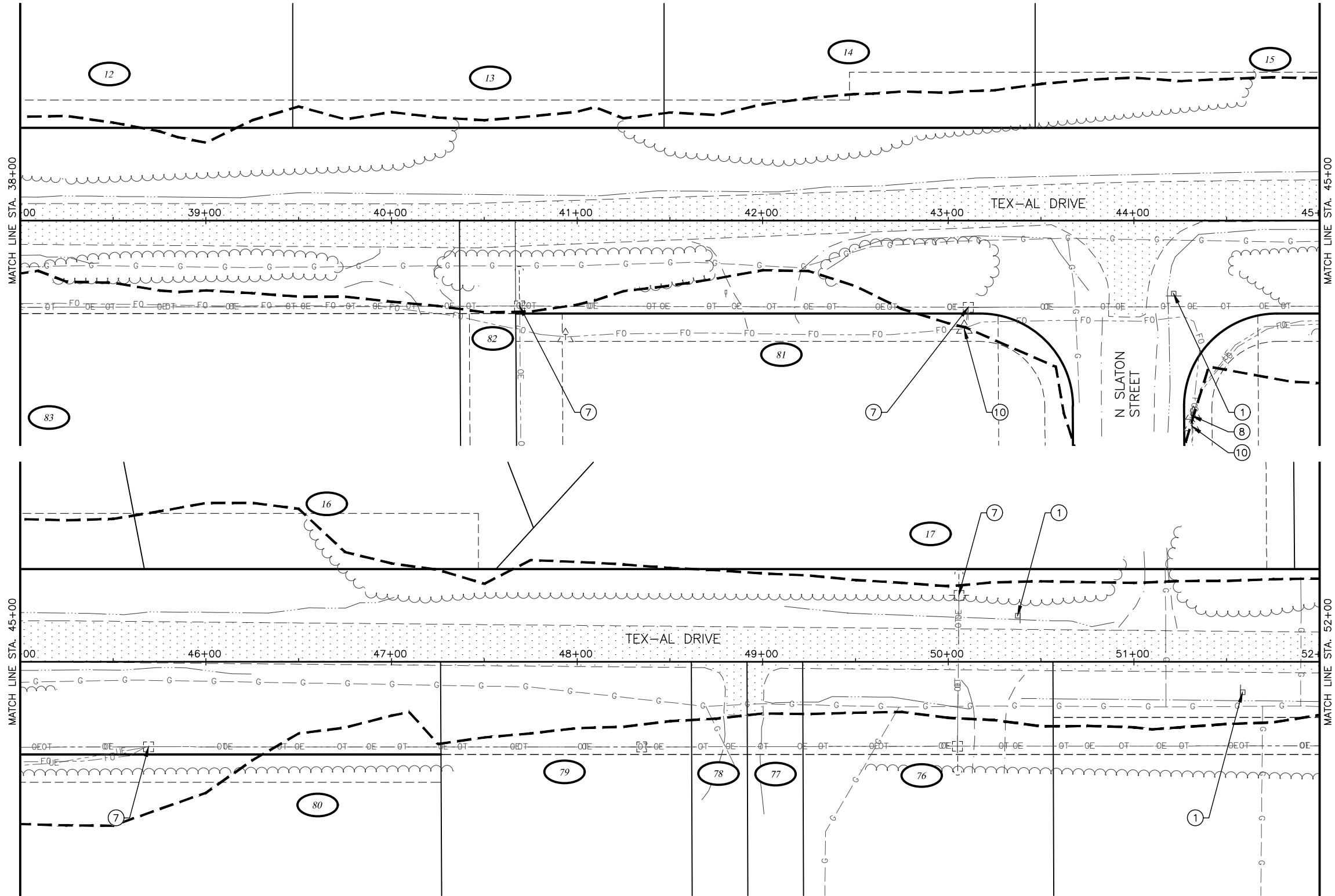
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

STA 24+00 TO
STA 38+00



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 7 REMOVE OR RELOCATE LUMINAIRE POLE, UTILITY POLE, OR LUMINAIRE ARM (BY OTHERS)
- 8 REMOVE OR RELOCATE ELECTRIC PEDESTAL OR LOAD CENTER (BY OTHERS)
- 10 REMOVE OR RELOCATE FIBER OPTIC PEDESTAL OR FIBER OPTIC VAULT (BY OTHERS)

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND

- REMOVAL OF PAVEMENT
- APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.
E3

TOTAL SHEETS
E14

STATE
ALASKA

YEAR
2024

PROJECT DESIGNATION
35472-1809

NO.

REVISION

DATE

NO.

REVISION

DATE

NO.

REVISION

DATE

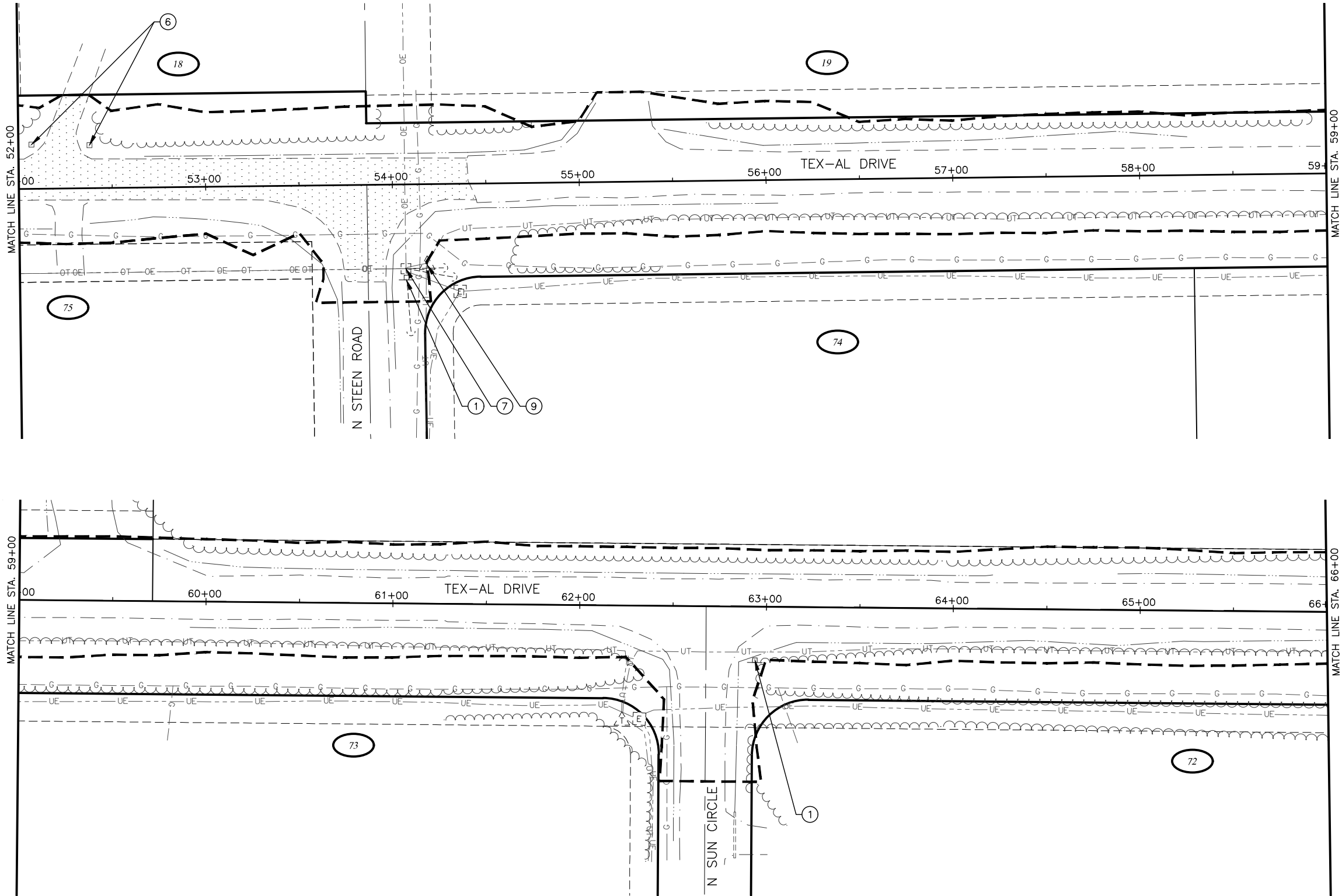
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

STA 38+00 TO
STA 52+00



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 6 REMOVE BOLLARD OR POST
- 7 REMOVE OR RELOCATE LUMINAIRE POLE, UTILITY POLE, OR LUMINAIRE ARM (BY OTHERS)
- 9 REMOVE OR RELOCATE TELEPHONE PEDESTAL (BY OTHERS)

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

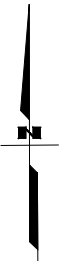
LEGEND



REMOVAL OF PAVEMENT



APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.	TOTAL SHEETS
E4	E14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

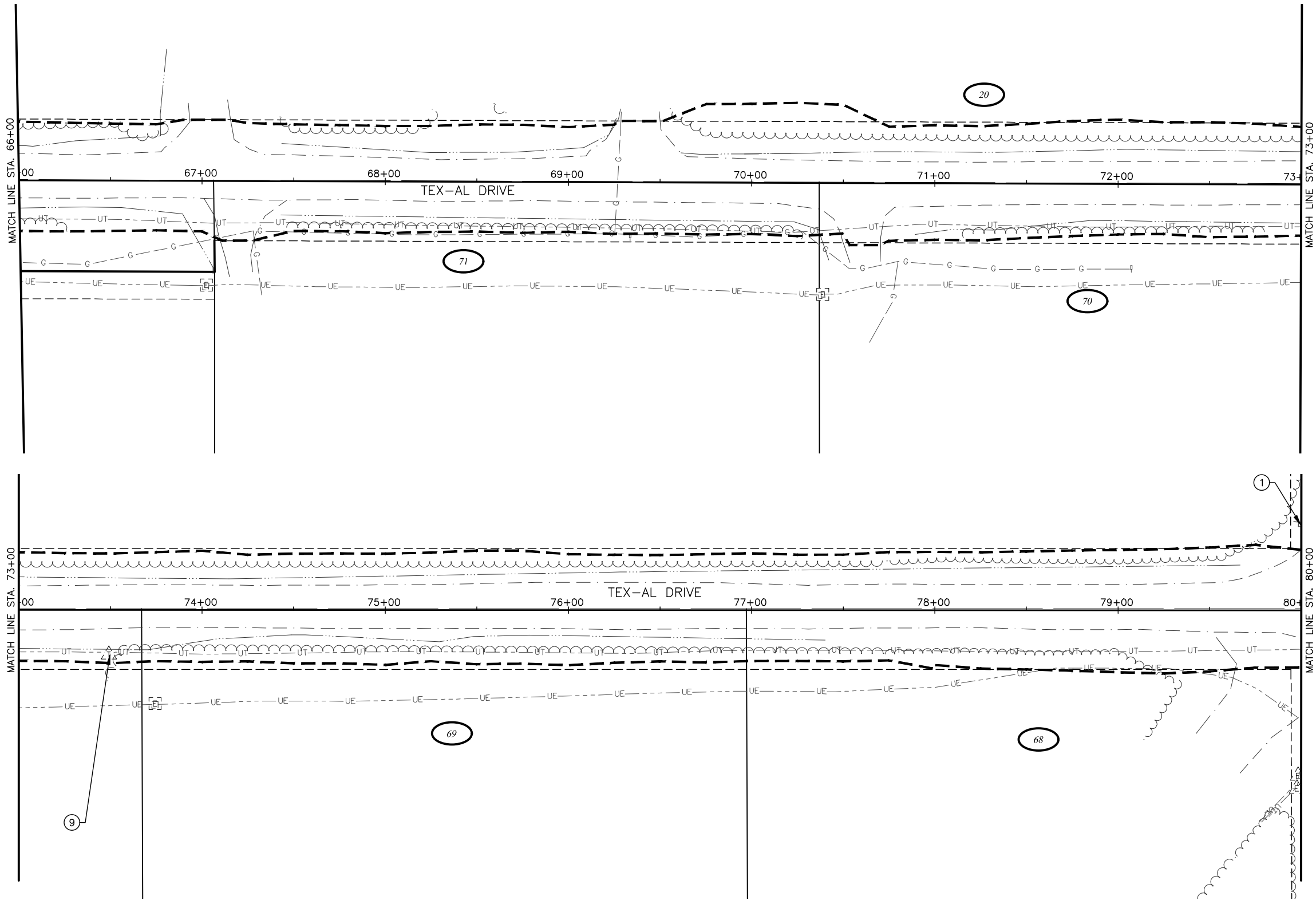
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MAT-SU BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

STA 52+00 TO
STA 66+00



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 9 REMOVE OR RELOCATE TELEPHONE PEDESTAL (BY OTHERS).

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND

--- APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.
E5

TOTAL SHEETS
E14

STATE
ALASKA

YEAR
2024

PROJECT DESIGNATION
35472-1809

NO.

REVISION

DATE

NO.

REVISION

DATE

NO.

REVISION

DATE

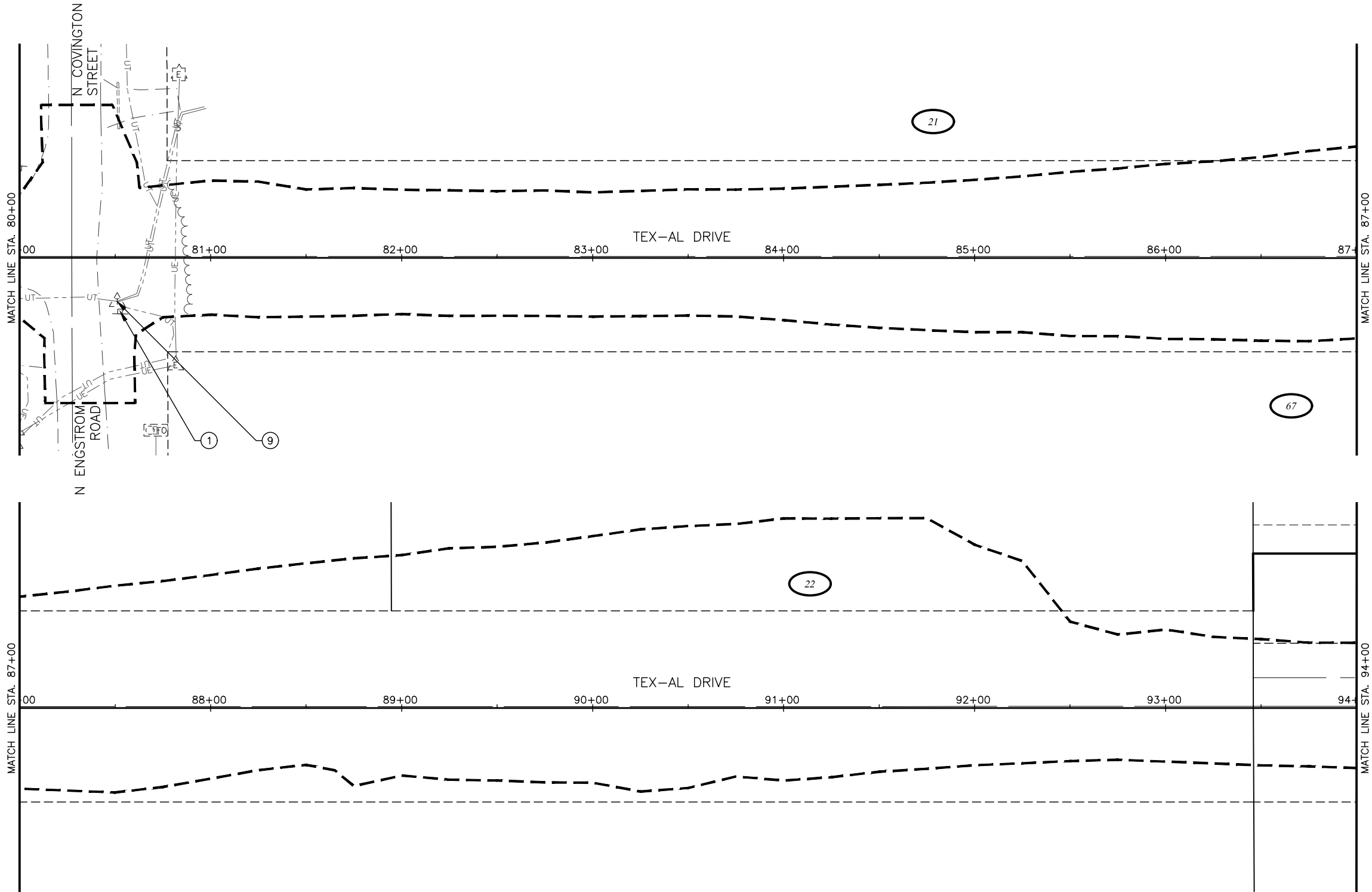
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

STA 66+00 TO
STA 80+00



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 9 REMOVE OR RELOCATE TELEPHONE PEDESTAL (BY OTHERS).

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND

--- APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.	TOTAL SHEETS
E6	E14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

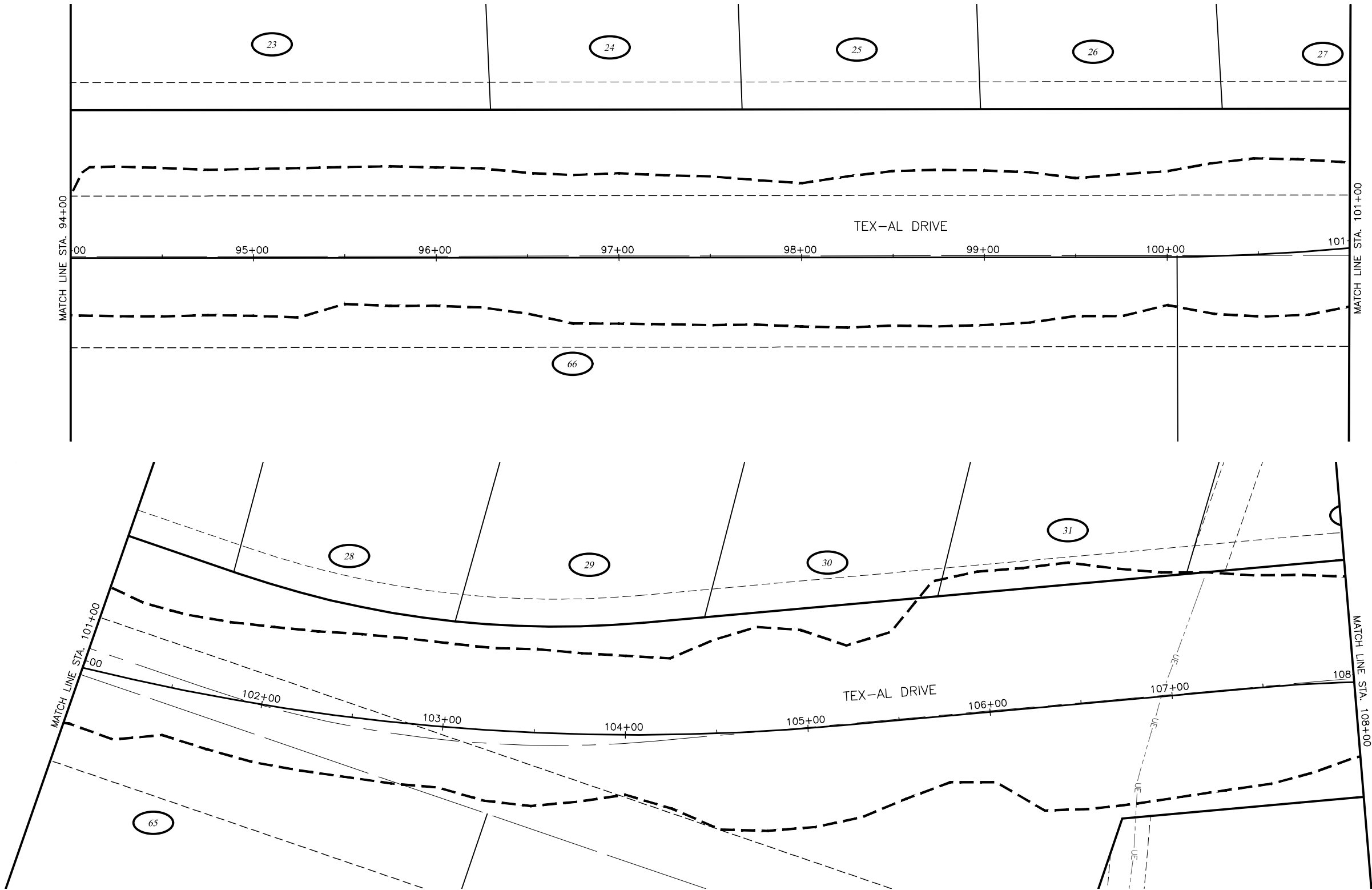
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

STA 80+00 TO
STA 94+00



NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND

--- APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.	TOTAL SHEETS
E7	E14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

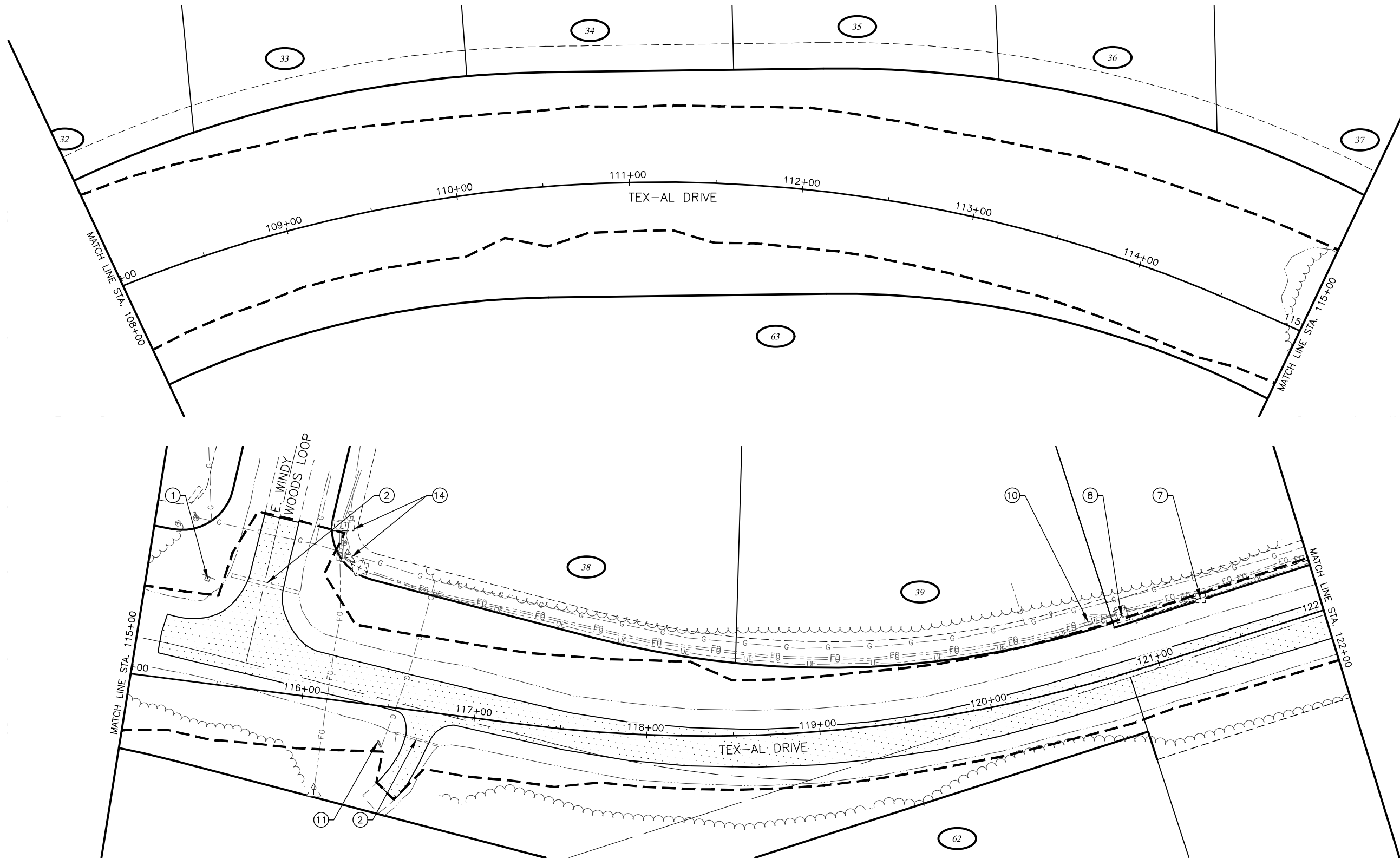
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

**TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY**

DEMOLITION PLAN

STA 94+00 TO
STA 108+00



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 2 REMOVE OF CULVERT PIPE
- 7 REMOVE OR RELOCATE LUMINAIRE POLE, UTILITY POLE, OR LUMINAIRE ARM (BY OTHERS)
- 8 REMOVE OR RELOCATE ELECTRIC PEDESTAL OR LOAD CENTER (BY OTHERS)
- 10 REMOVE OR RELOCATE FIBER OPTIC PEDESTAL OR FIBER OPTIC VAULT (BY OTHERS)
- 11 REMOVE OR RELOCATE NATURAL GAS CARSONITE MARKER (BY OTHERS)
- 14 PROTECT IN PLACE

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND

- REMOVAL OF PAVEMENT
- APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.
E8

TOTAL SHEETS
E14

STATE
ALASKA

YEAR
2024

PROJECT DESIGNATION
35472-1809

NO.

REVISION

DATE

NO.

REVISION

DATE

NO.

REVISION

DATE

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

N ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

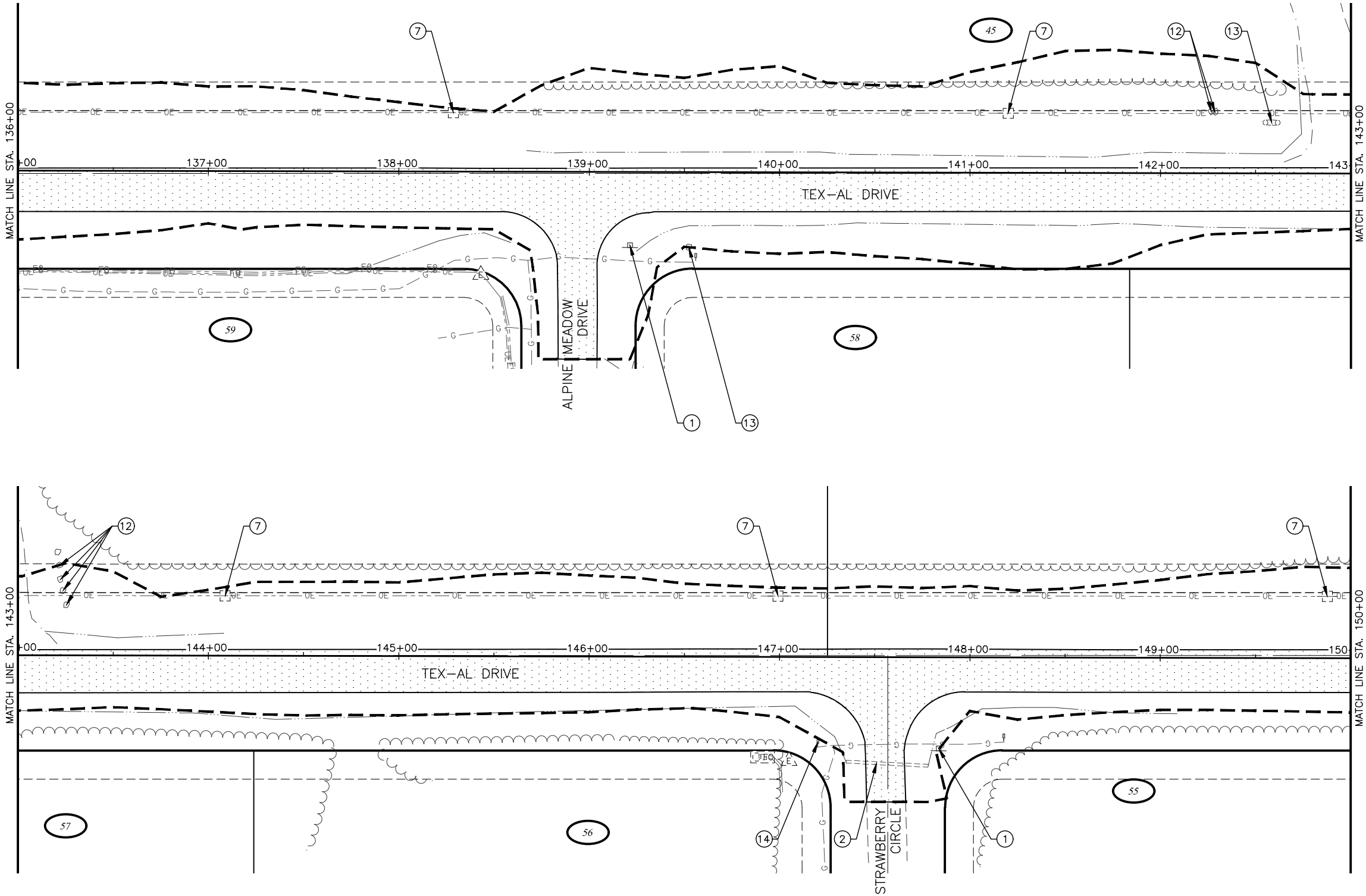
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

STA 108+00 TO
STA 122+00



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 2 REMOVAL OF CULVERT PIPE
- 7 REMOVE OR RELOCATE LUMINAIRE POLE, UTILITY POLE, OR LUMINAIRE ARM (BY OTHERS)
- 12 SALVAGE AND RELOCATE OR DISPOSE EXISTING BOULDER AS DIRECTED BY ENGINEER IN THE FIELD
- 13 REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS
- 14 PROTECT IN PLACE

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND



REMOVAL OF PAVEMENT



APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.	TOTAL SHEETS
E10	E14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

TEX-AL DRIVE

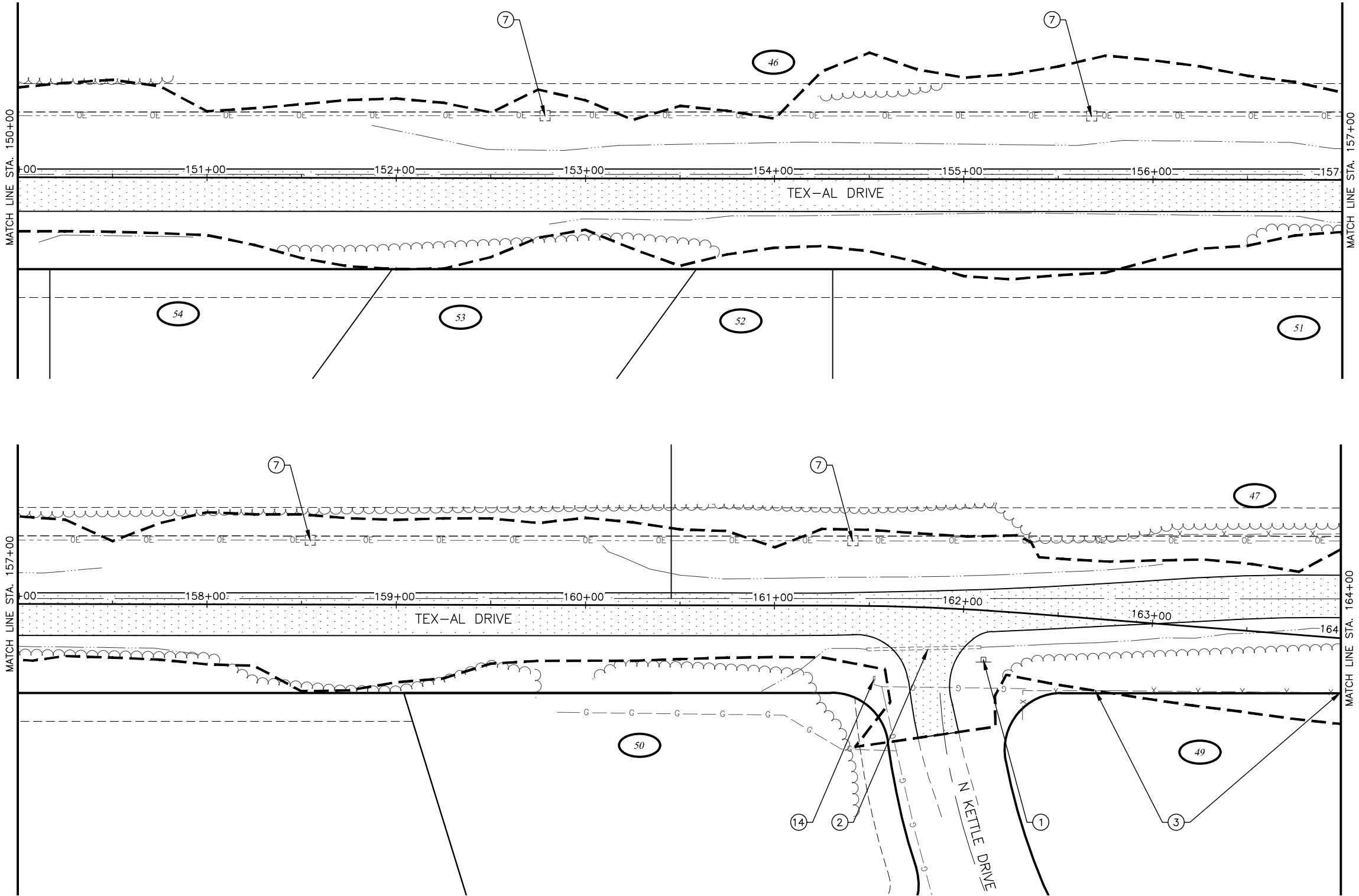
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

STA 136+00 TO
STA 150+00



DEMOLITION WORK THIS SHEET:

- 1 SALVAGE SIGN AND DEMOLISH FOUNDATION
- 2 REMOVAL OF CULVERT PIPE
- 3 REMOVE AND RESET FENCE
- 7 REMOVE OR RELOCATE LUMINAIRE POLE, UTILITY POLE, OR LUMINAIRE ARM (BY OTHERS).
- 14 PROTECT IN PLACE

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND



REMOVAL OF PAVEMENT



APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.	TOTAL SHEETS
E11	E14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

TEX-AL DRIVE

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

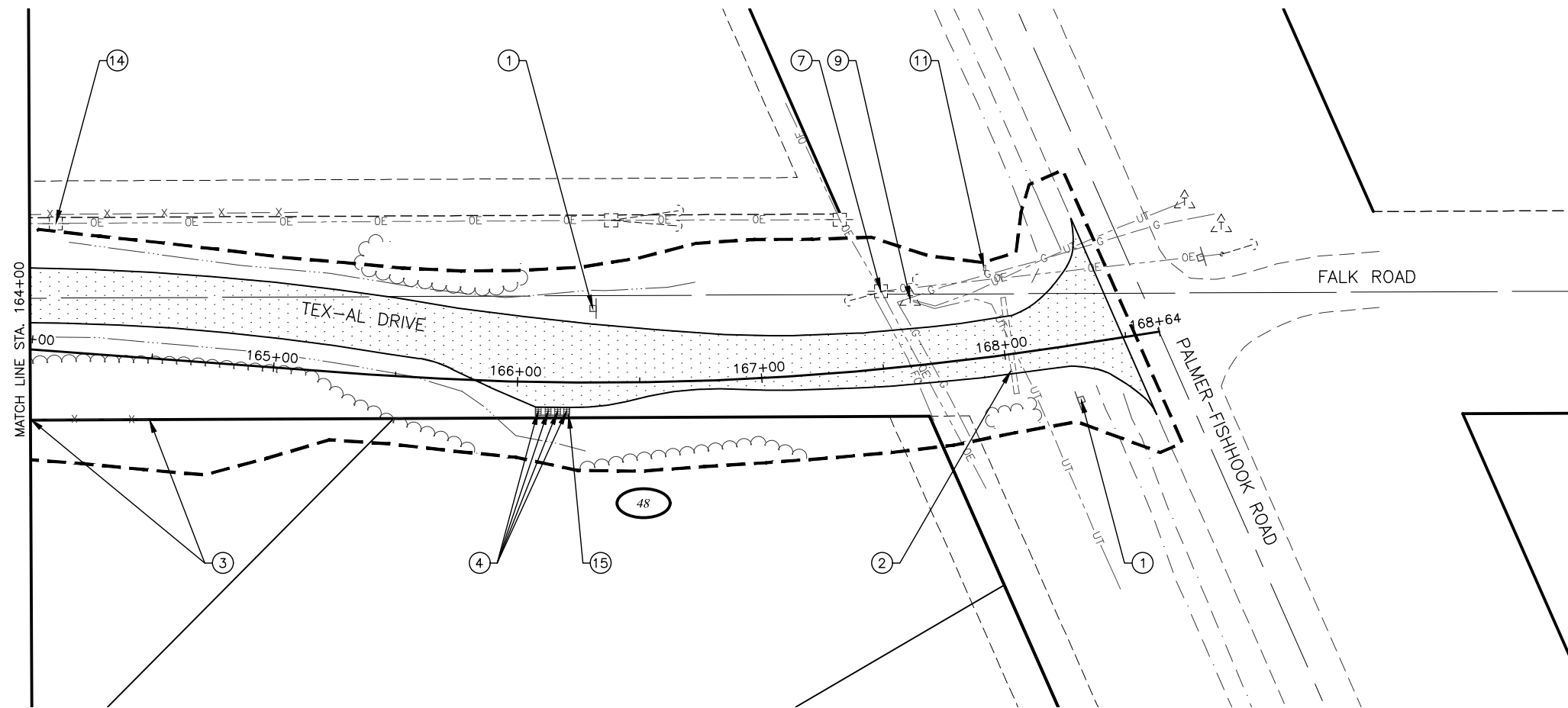
MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION PLAN

STA 150+00 TO
STA 164+00

DRAWING LOCATION	DATE	TIME	SCALE	DESIGNED BY
J:_GSDATA\20820.00 MSB TEX-AL DRIVE\00 CAD\ 2019\01 WORKING SET\01 CIVIL\02 DESIGN\20820.00.E01-E13_DEMOLITION PLAN.DWG	8/9/2024	4:39 PM	N/A	CHECKED BY
				DRAFTED BY



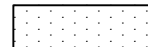
DEMOLITION WORK THIS SHEET:

- ① SALVAGE SIGN AND DEMOLISH FOUNDATION
- ② REMOVAL OF CULVERT PIPE
- ③ REMOVE AND RESET FENCE
- ④ REMOVAL OF MULTIPLE MAIL BOX
- ⑦ REMOVE OR RELOCATE LUMINAIRE POLE, UTILITY POLE, OR LUMINAIRE ARM (BY OTHERS)
- ⑨ REMOVE OR RELOCATE TELEPHONE PEDESTAL (BY OTHERS)
- ⑪ REMOVE OR RELOCATE NATURAL GAS CARSONITE MARKER (BY OTHERS)
- ⑭ PROTECT IN PLACE
- ⑮ DEMOLISH CONCRETE BASE

NOTES:

- A. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION WORK.
- B. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- D. ALL JOINTS WITH EXISTING PAVEMENTS SHALL BE SAW CUT AND PROTECTED FROM DAMAGE.
- E. CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER LIMITS HAVE BEEN APPROVED BY THE ENGINEER IN THE FIELD. NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

LEGEND



REMOVAL OF PAVEMENT

APPROXIMATE LIMITS OF DISTURBANCE



SHEET NO.		TOTAL SHEETS	
E12		E14	
STATE		YEAR	
ALASKA		2024	
PROJECT DESIGNATION			
35472-1809			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
CRW ENGINEERING GROUP, INC. 3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 (907) 562-3252 #AECL882-AK			
MATANUSKA-SUSITNA BOROUGH PUBLIC WORKS DEPARTMENT			
TEX-AL DRIVE EXTENSION, UPGRADE, AND PATHWAY			
DEMOLITION PLAN			
STA 164+00 TO EOP			

DRAWING LOCATION
J:\JOBS\DATA\20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\01 CIVIL\02 DESIGN\20820.00_E01-E13_DEMOLITION PLAN.DWG

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
N/A

DATE
8/8/2024

TIME
10:58 PM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	E13	E14

TO BE COMPLETED AT NEXT SUBMITTAL

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

DEMOLITION SUMMARY TABLES

DRAWING LOCATION

U:\JOBS\DATA\20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\01 CIVIL\02 DESIGN\20820.00 ROADWAY DETAILS.DWG

DESIGNED BY

CHECKED BY

DRAFTED BY

SCALE

N/A

DATE

7/25/2024

TIME

11:48 AM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	E14	E14

TO BE COMPLETED AT NEXT SUBMITTAL

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

ROADWAY DETAILS

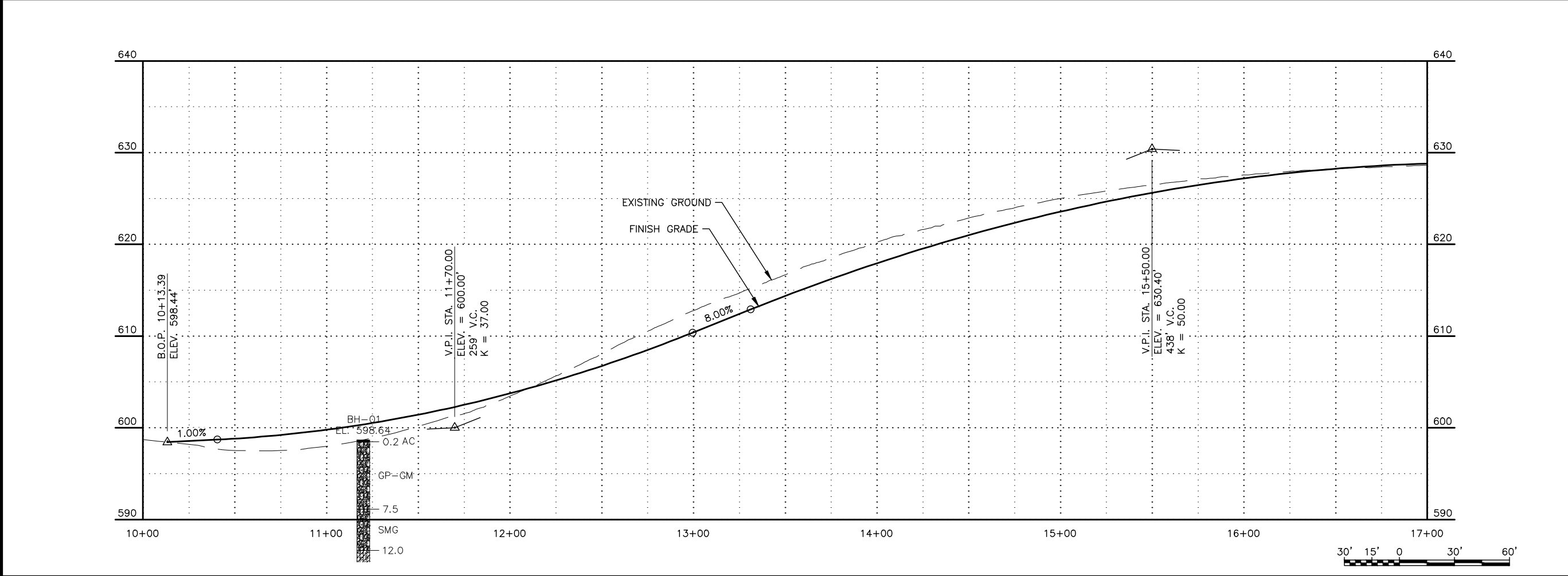
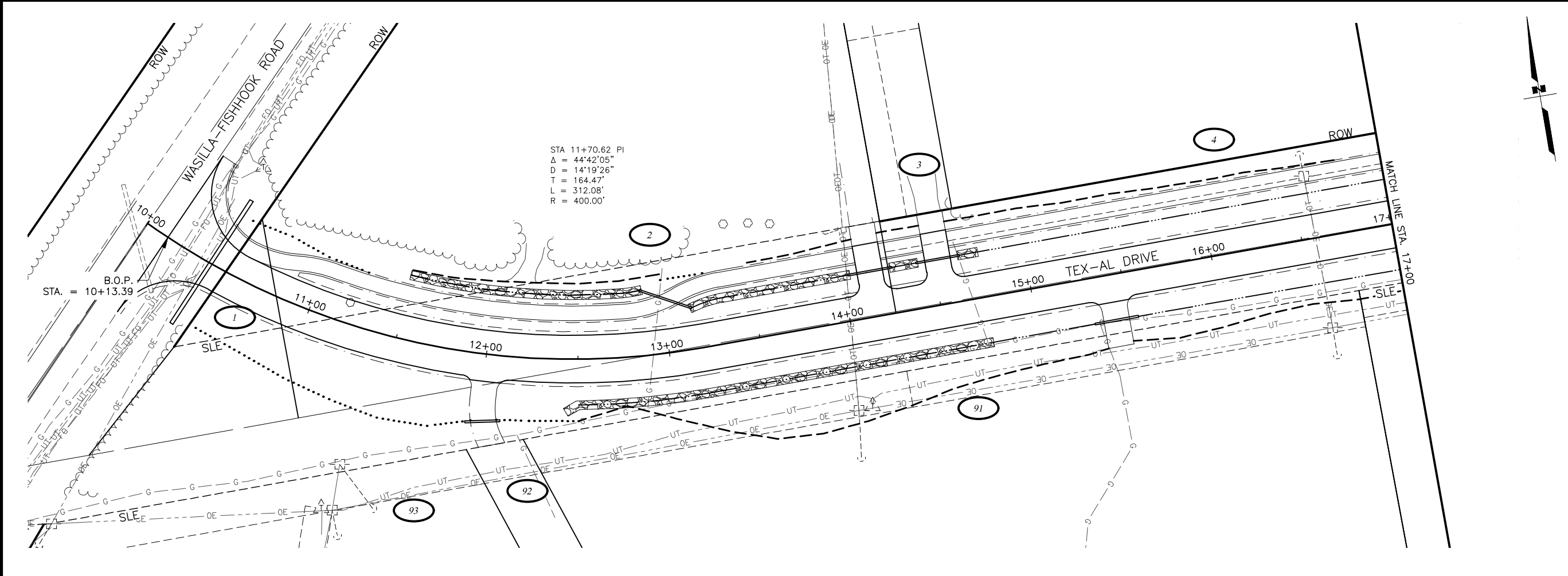
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
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DATE
8/11/2024

TIME
3:37 PM

DRAWING LOCATION
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SHEET NO.	TOTAL SHEETS
F1	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

N ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

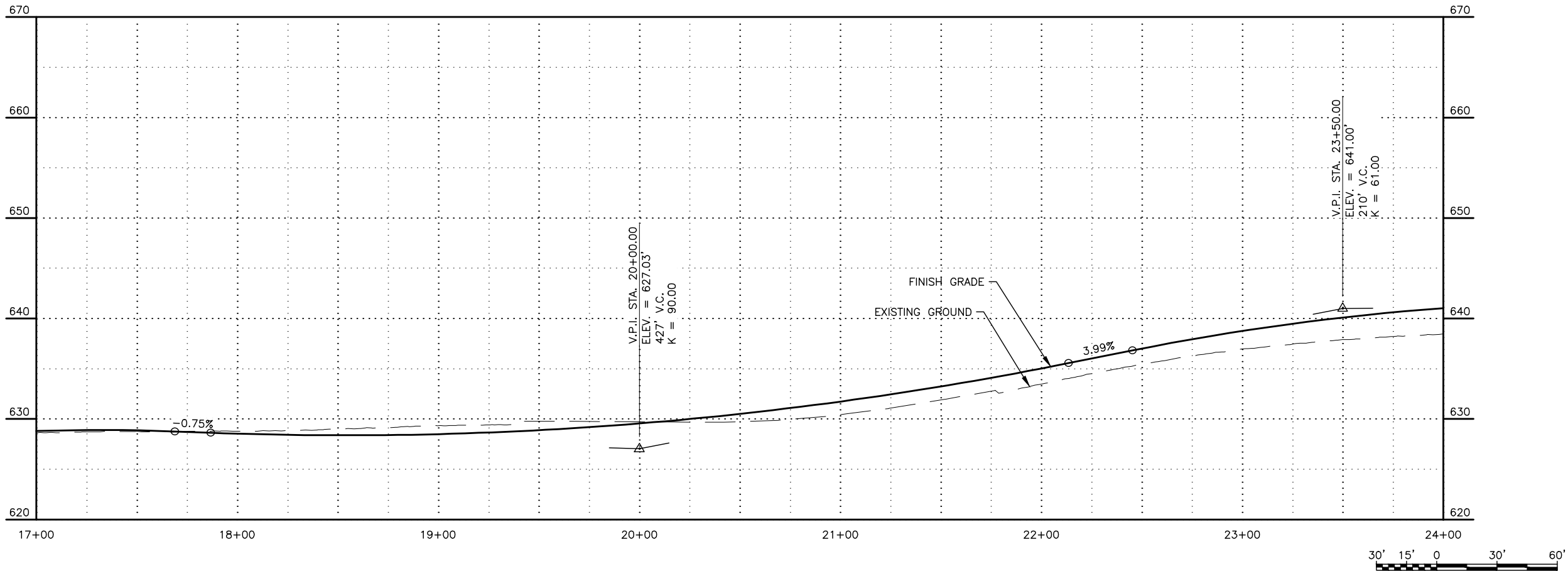
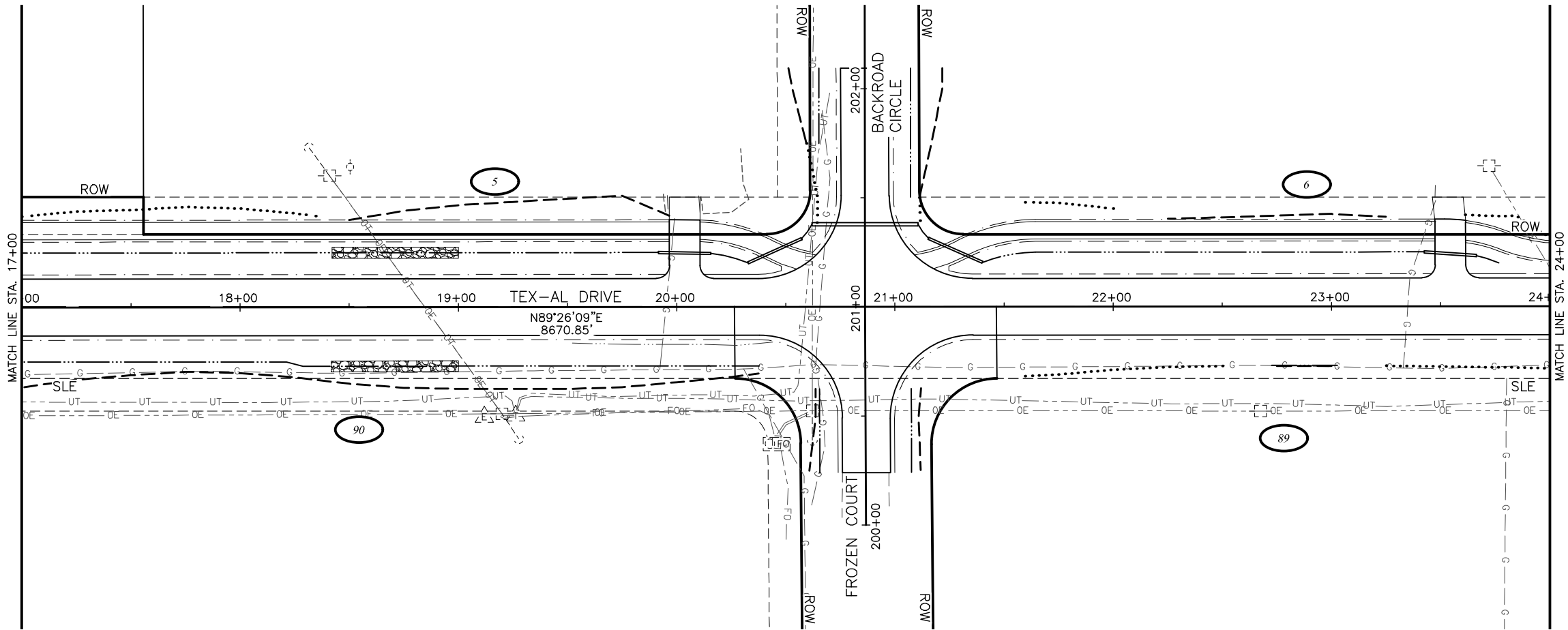
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

BOP TO STA 17+00



SHEET NO.	TOTAL SHEETS
F2	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

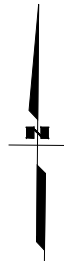
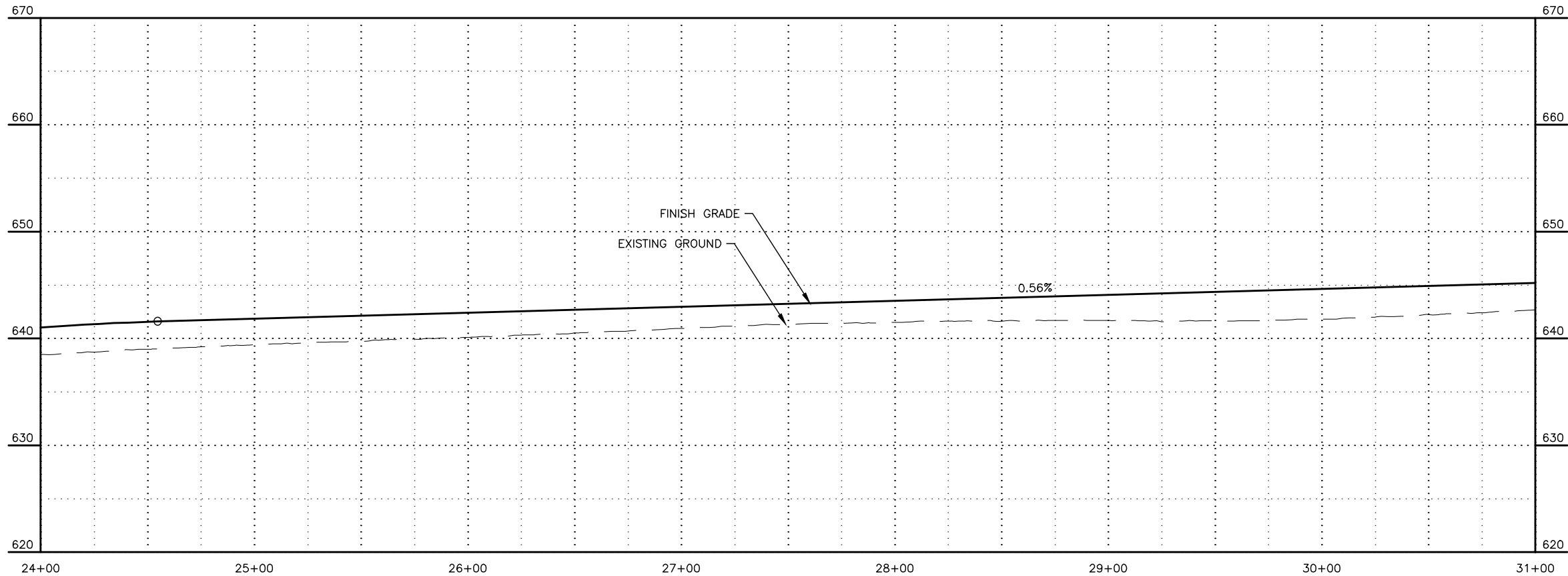
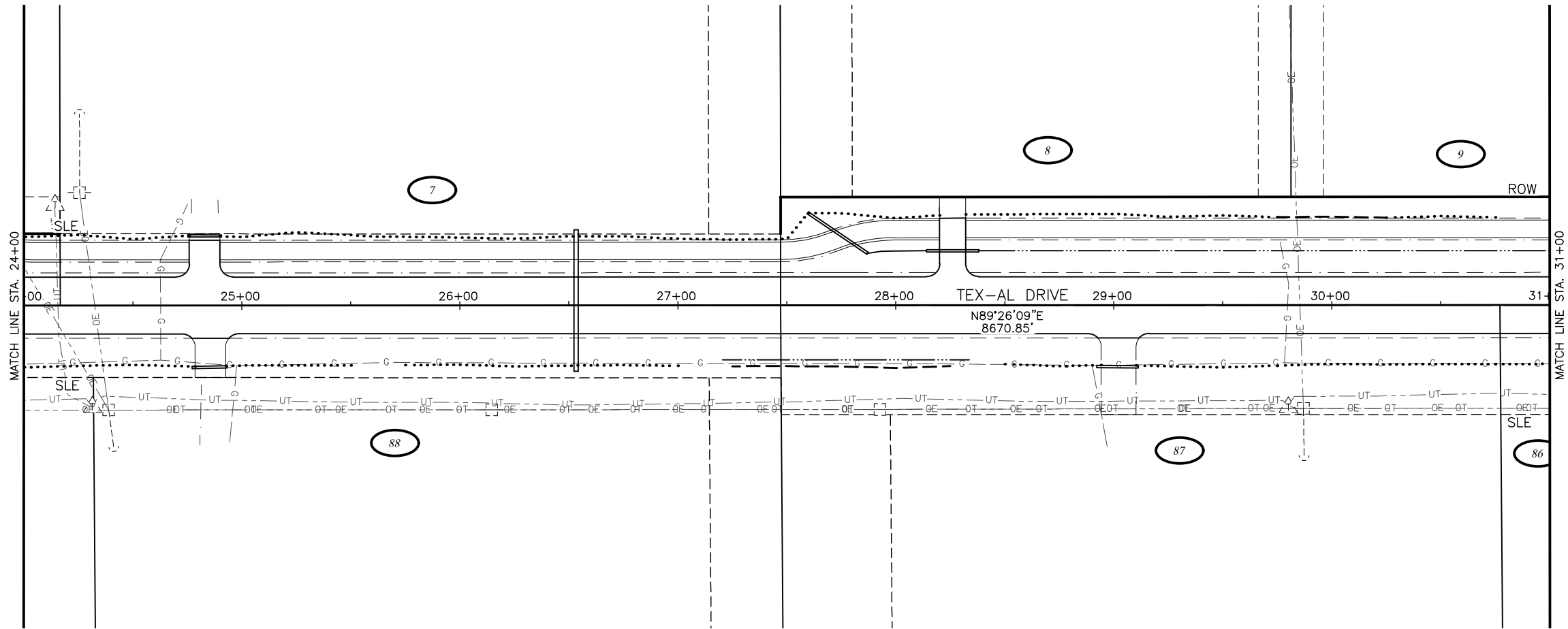
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 17+00 TO STA 24+00



SHEET NO.	TOTAL SHEETS
F3	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

TEX-AL DRIVE

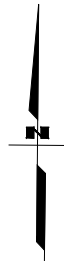
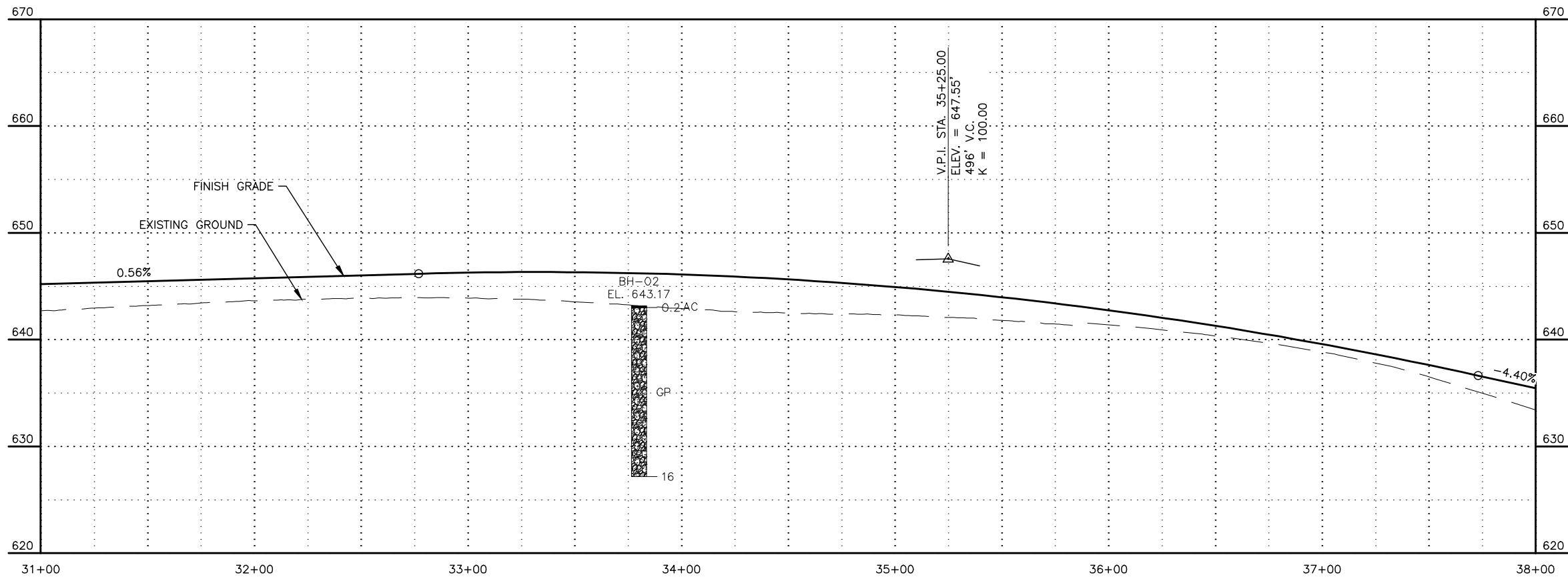
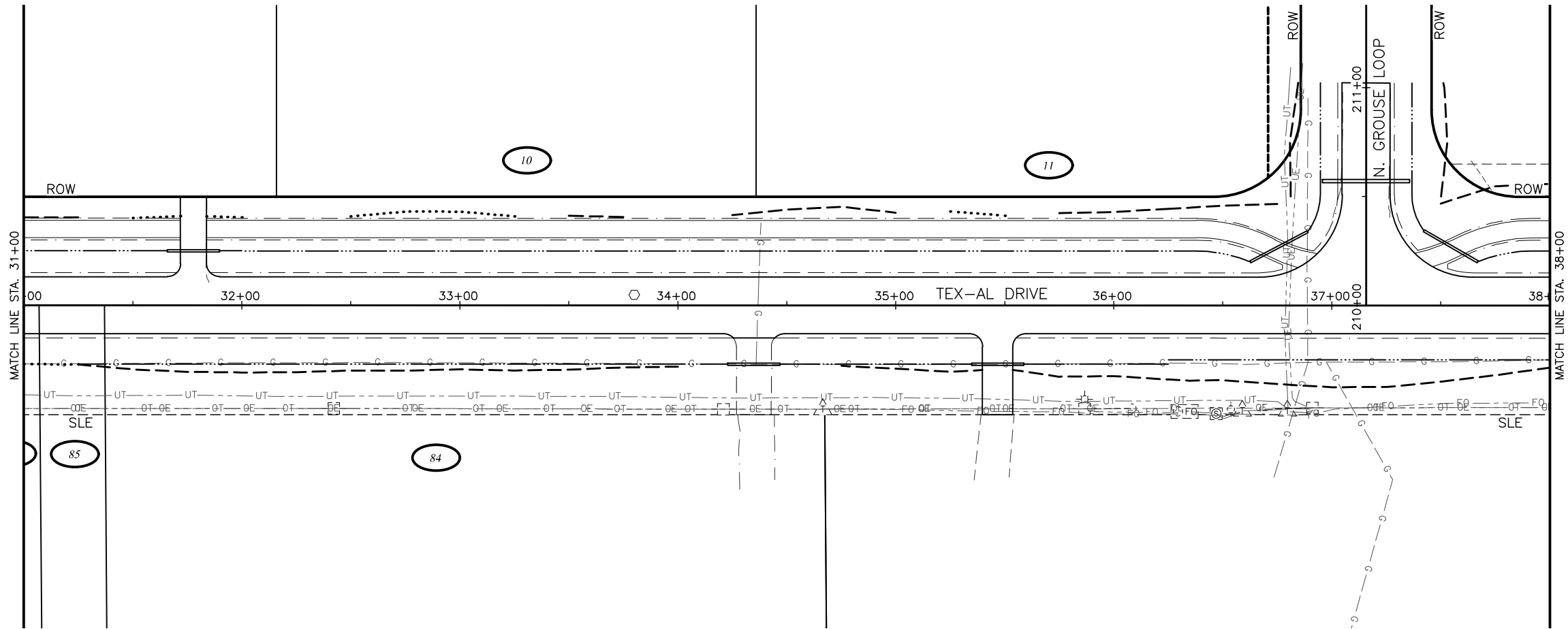
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 24+00 TO STA 31+00



SHEET NO.	TOTAL SHEETS
F4	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

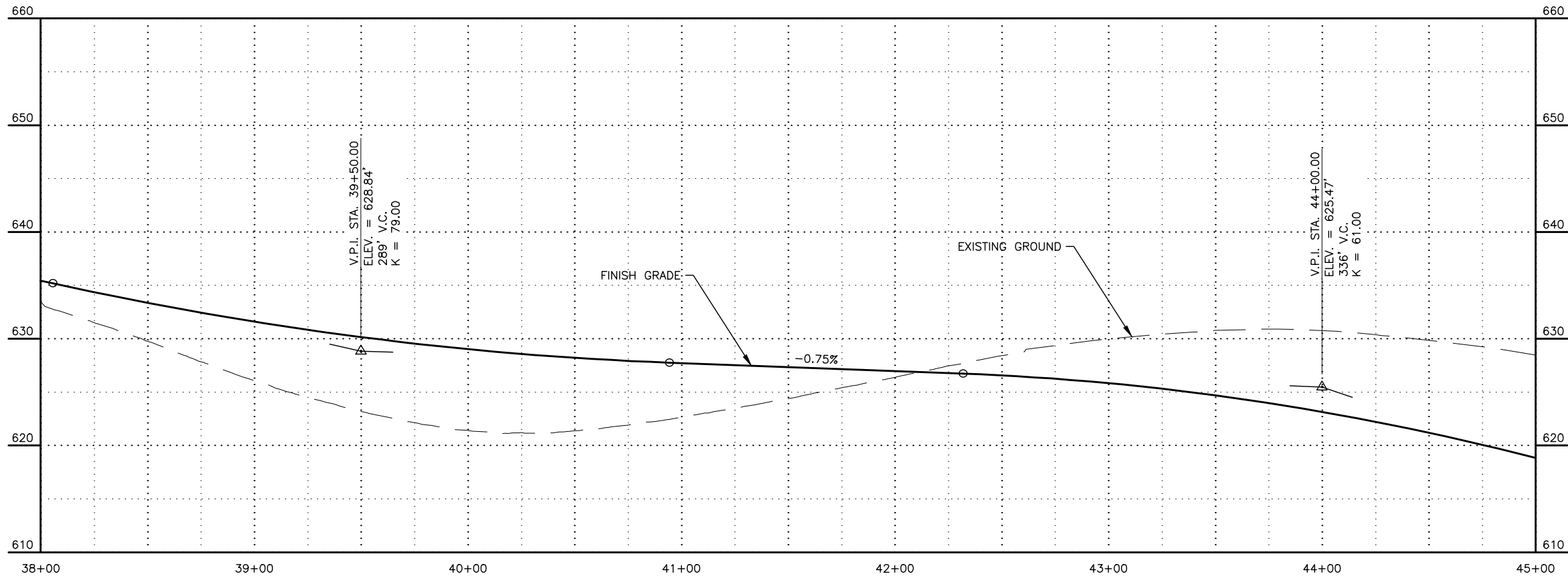
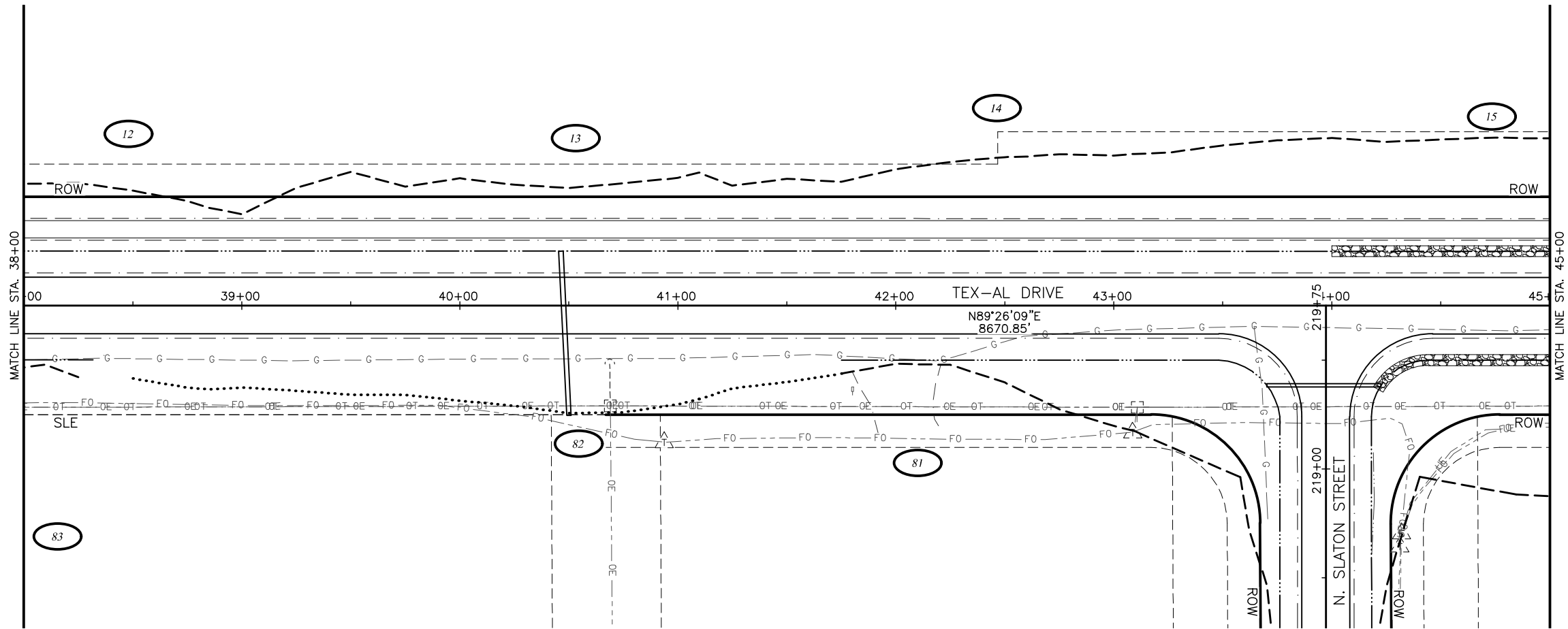
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

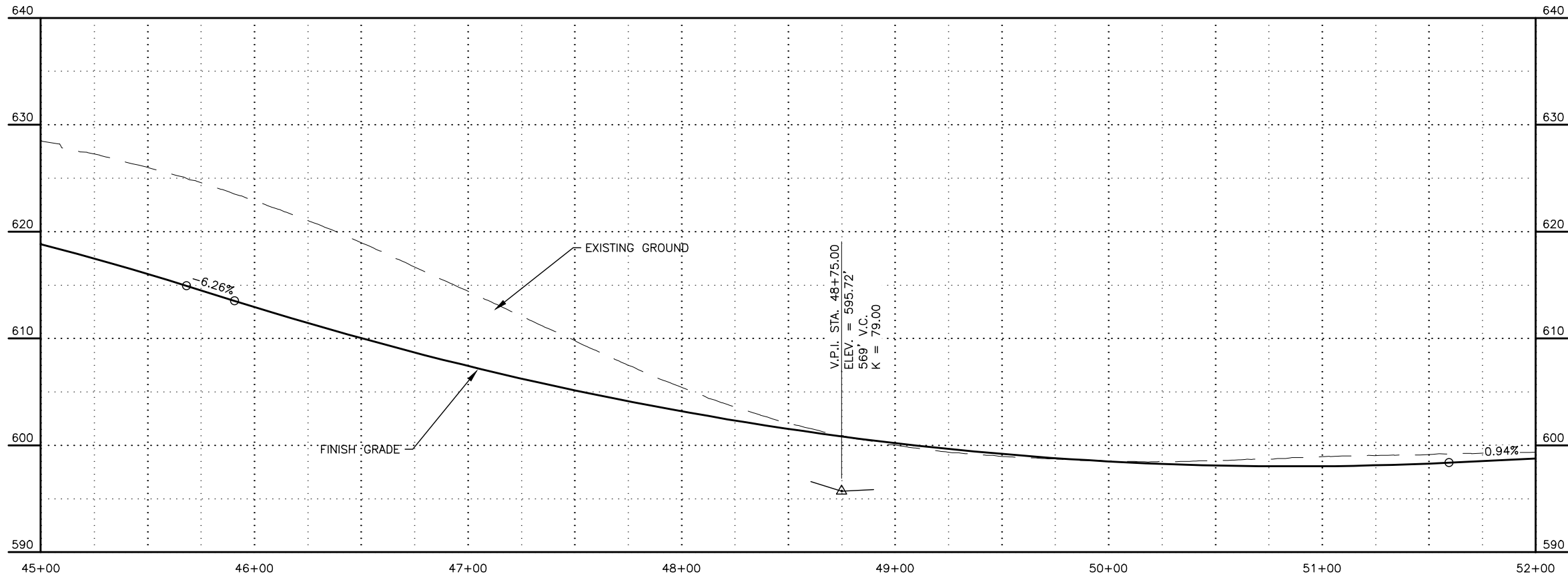
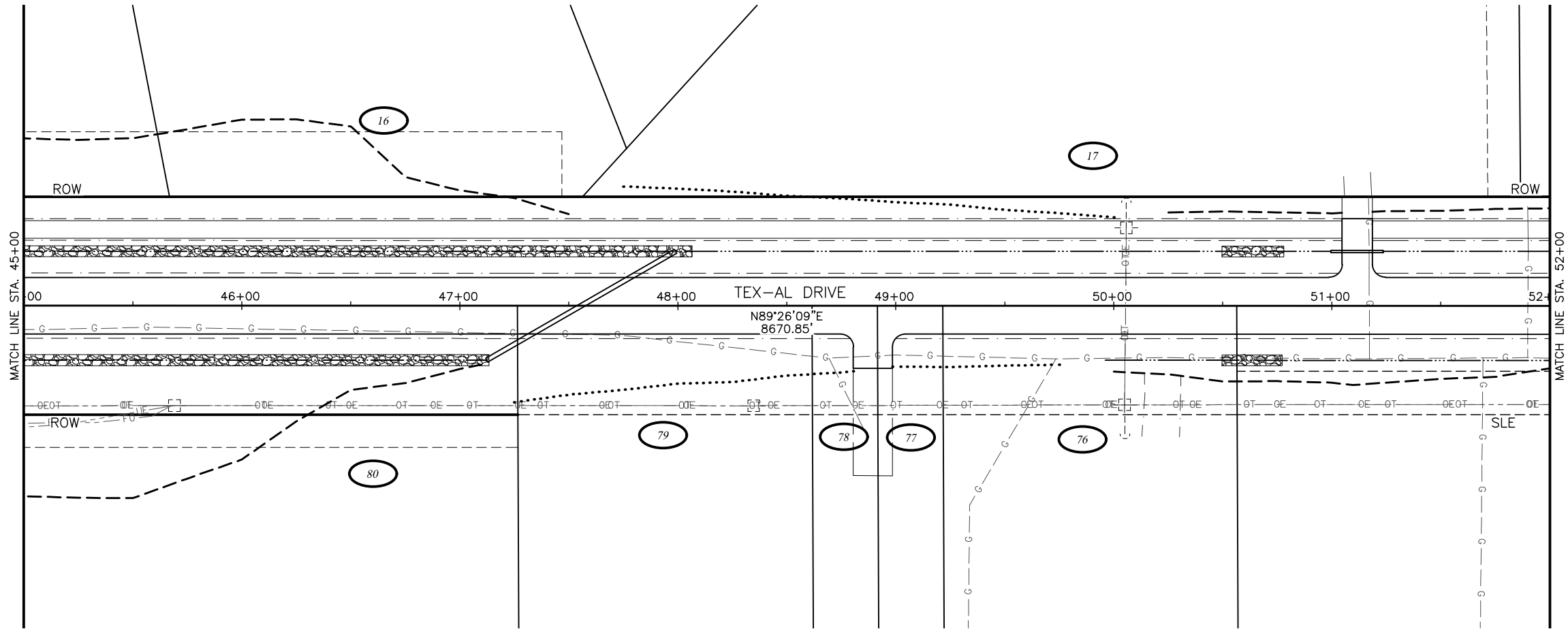
MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 31+00 TO STA 38+00





SHEET NO.	TOTAL SHEETS
F6	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

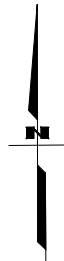
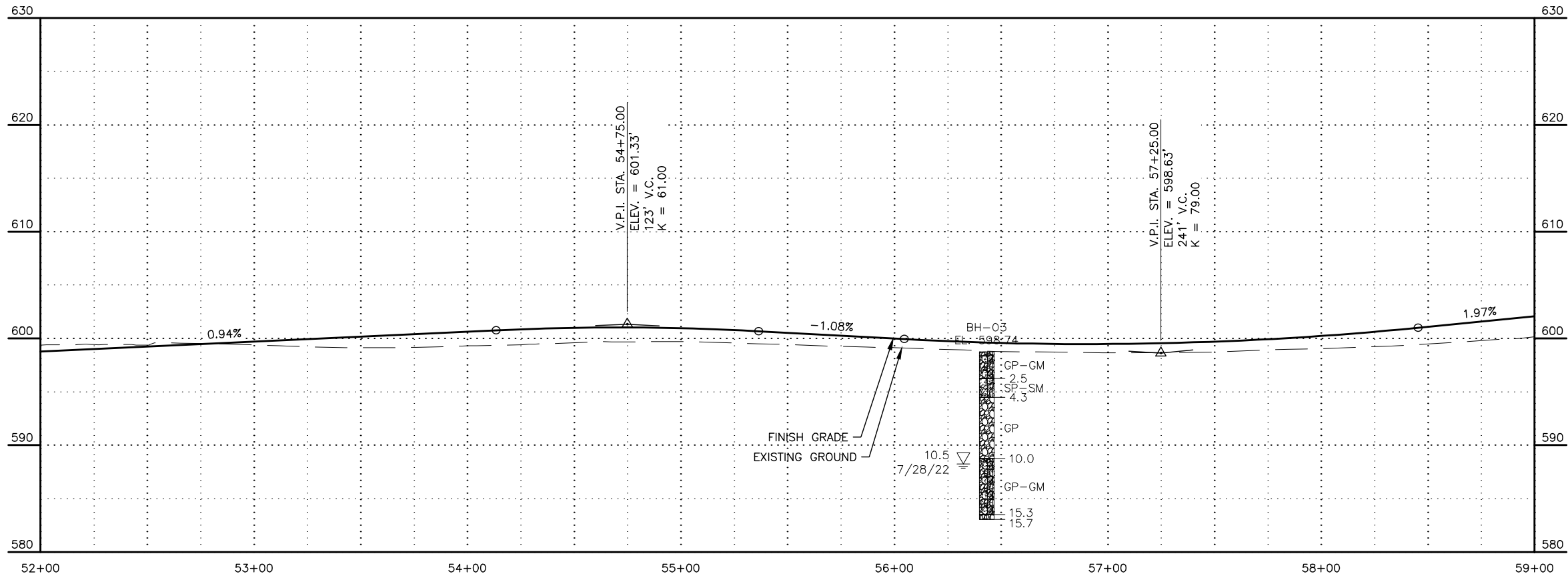
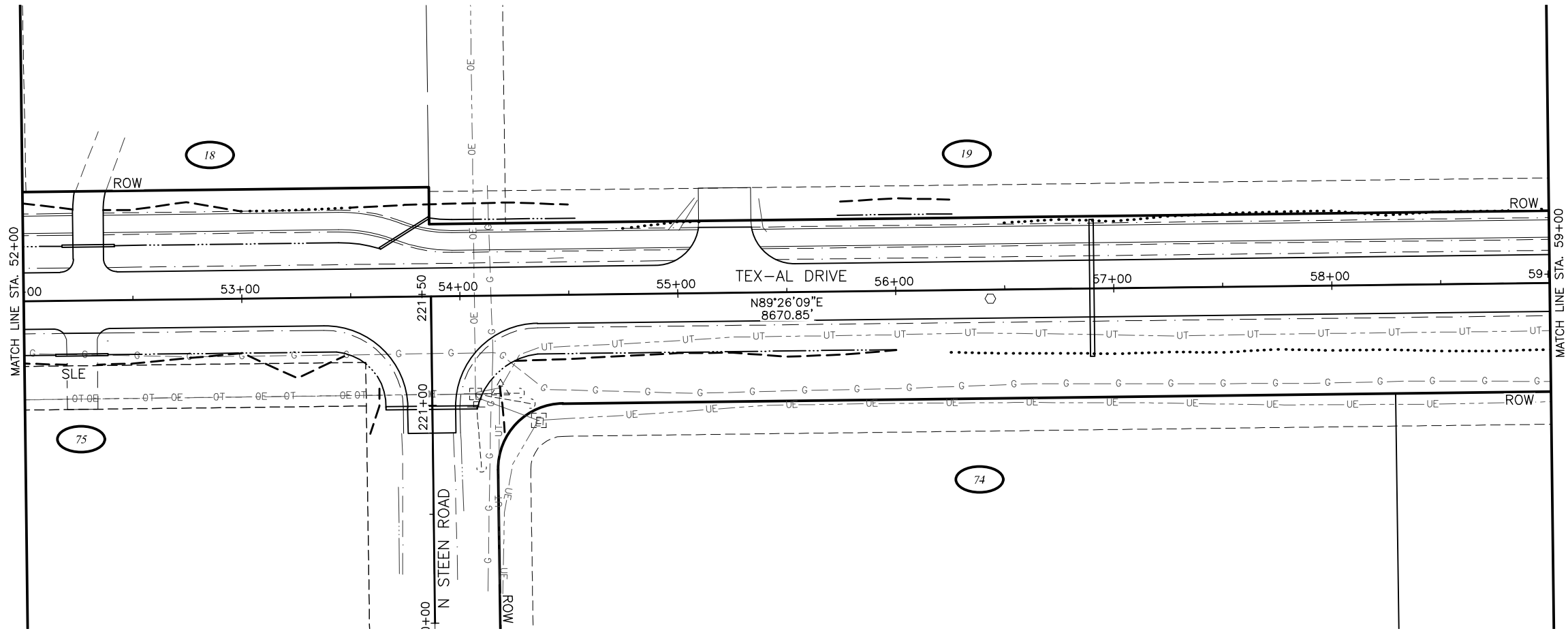
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 45+00 TO STA 52+00



SHEET NO.	TOTAL SHEETS
F7	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

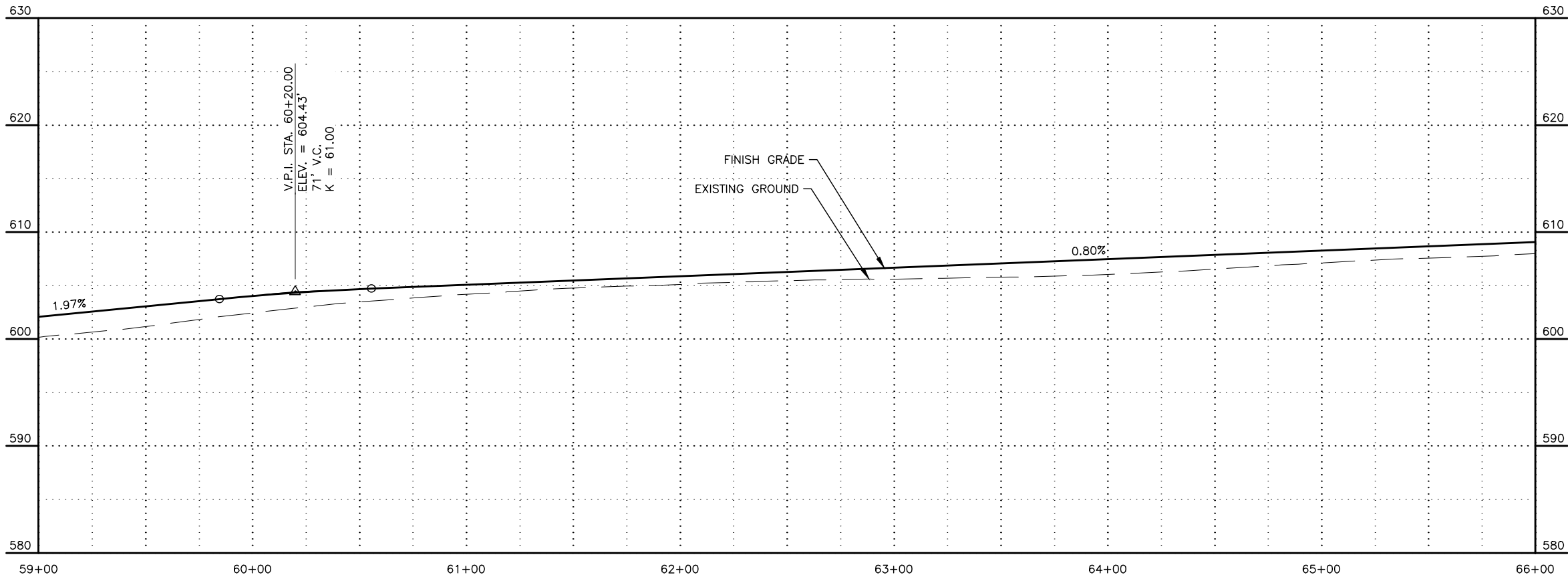
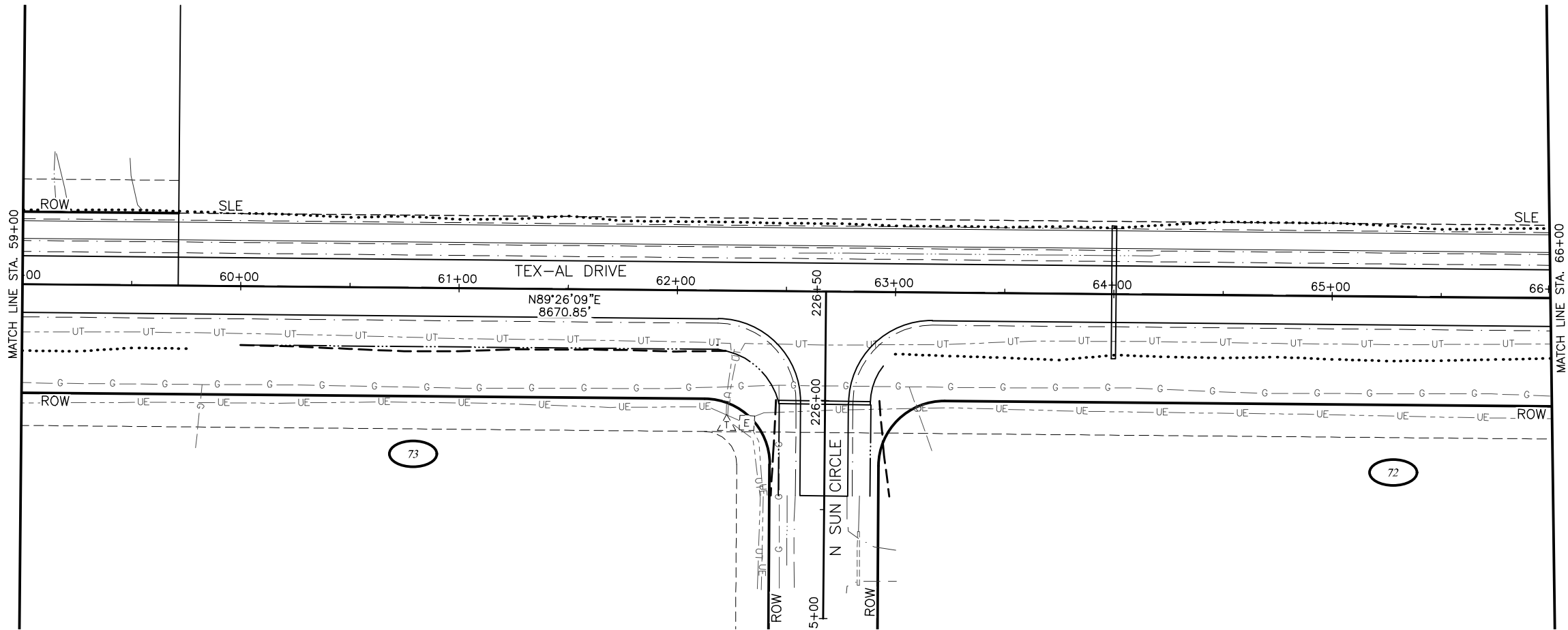
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 52+00 TO STA 59+00



SHEET NO.	TOTAL SHEETS
F8	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

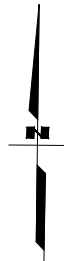
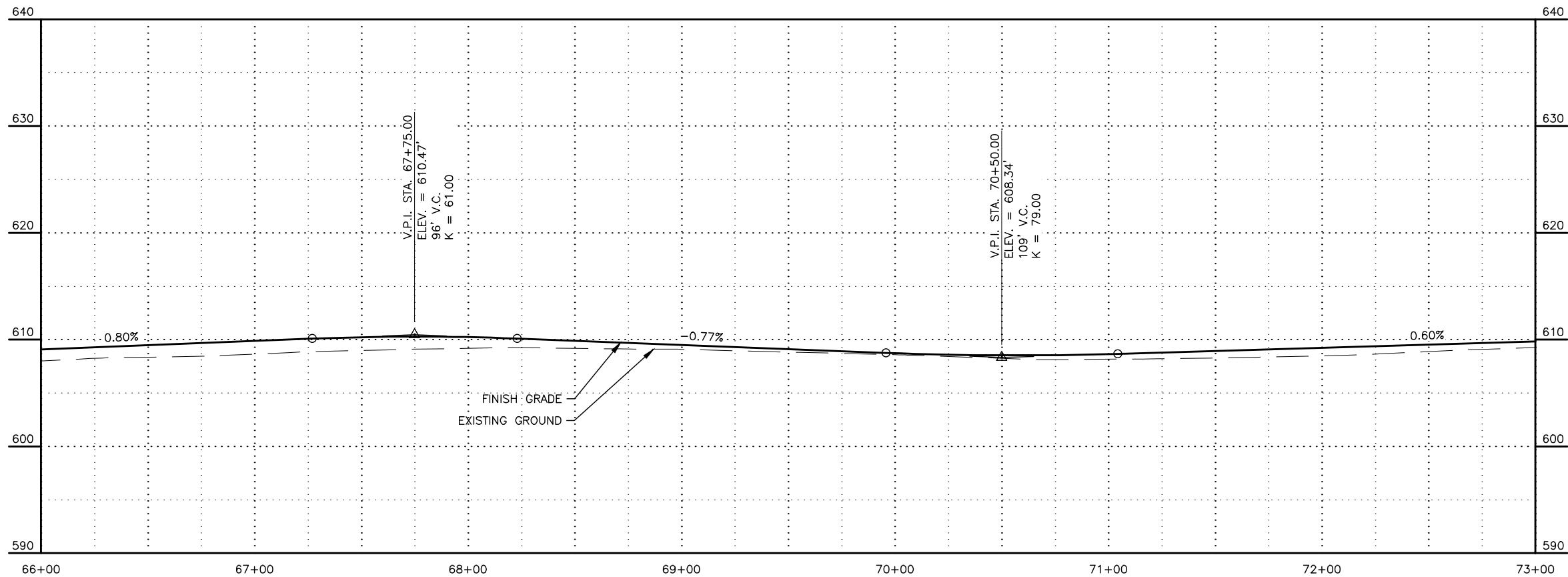
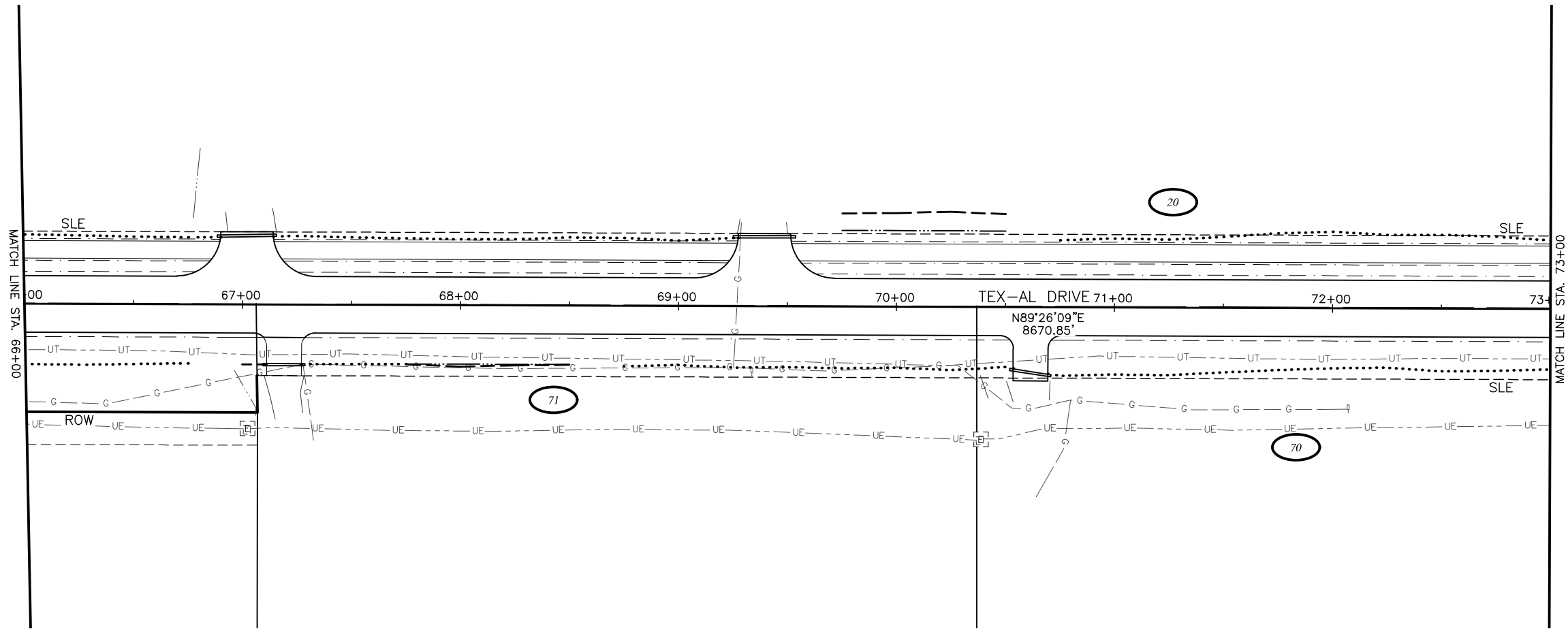
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 59+00 TO STA 66+00



SHEET NO.	TOTAL SHEETS
F9	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

TEX-AL DRIVE

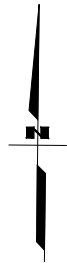
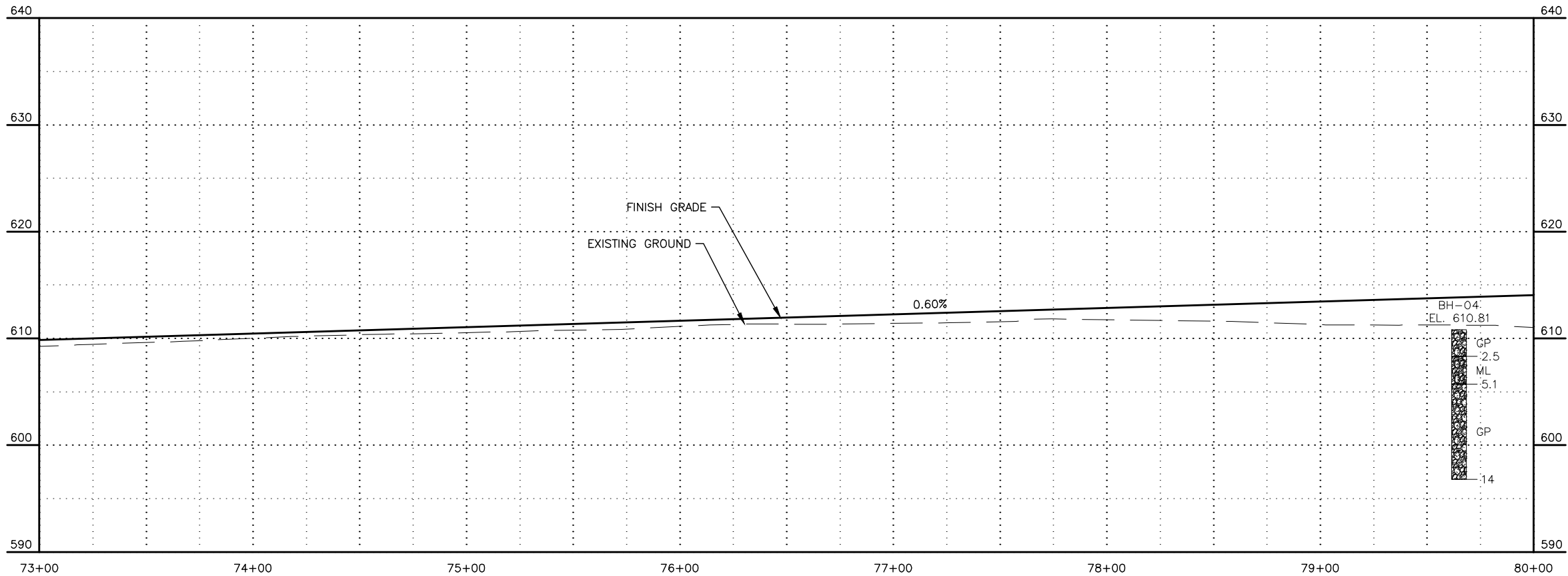
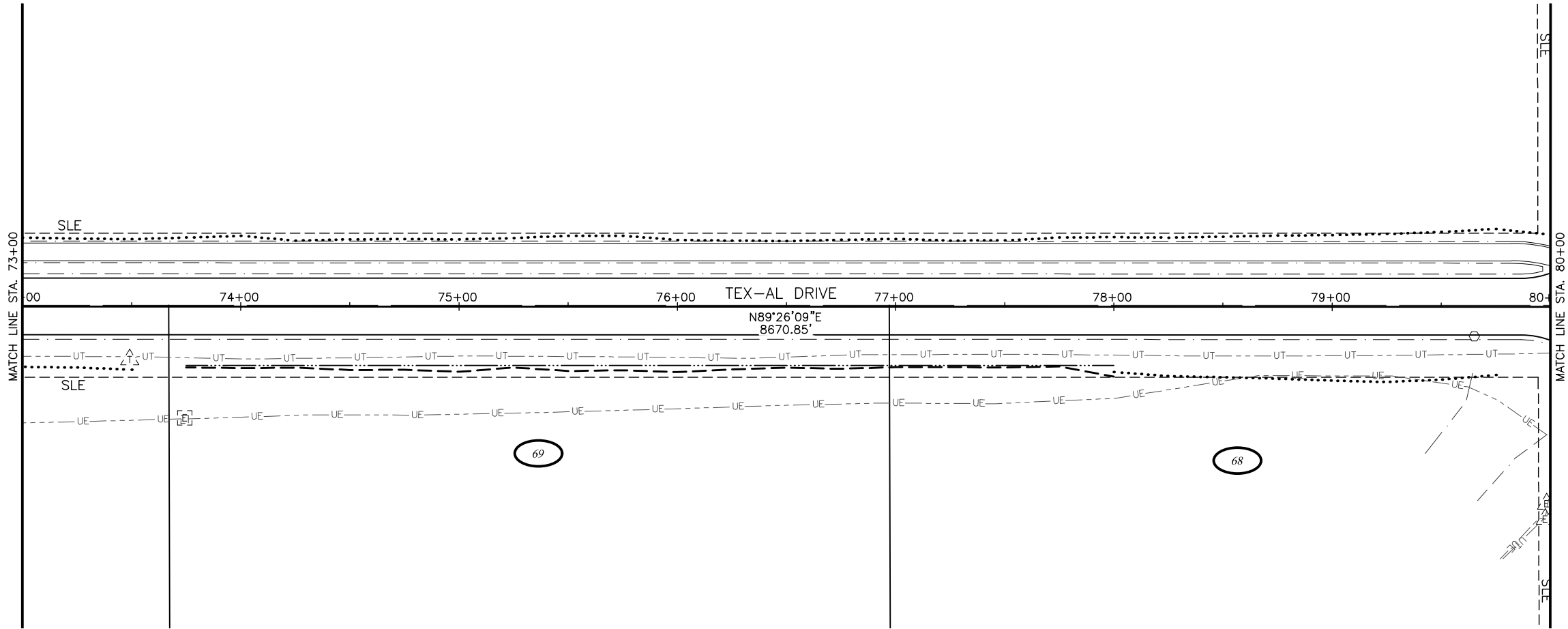
CRW ENGINEERING GROUP, INC.
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ANCHORAGE, ALASKA 99503
(907) 562-3252
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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 66+00 TO STA 73+00



SHEET NO.	TOTAL SHEETS
F10	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

TEX-AL DRIVE

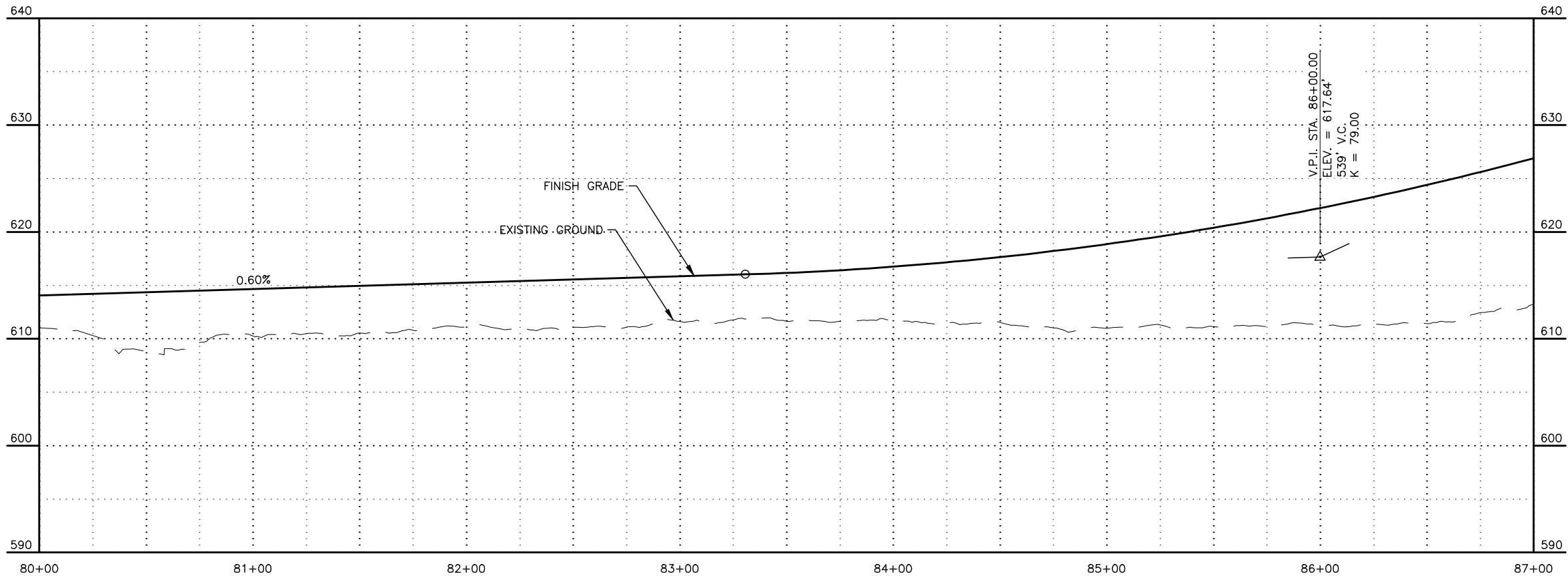
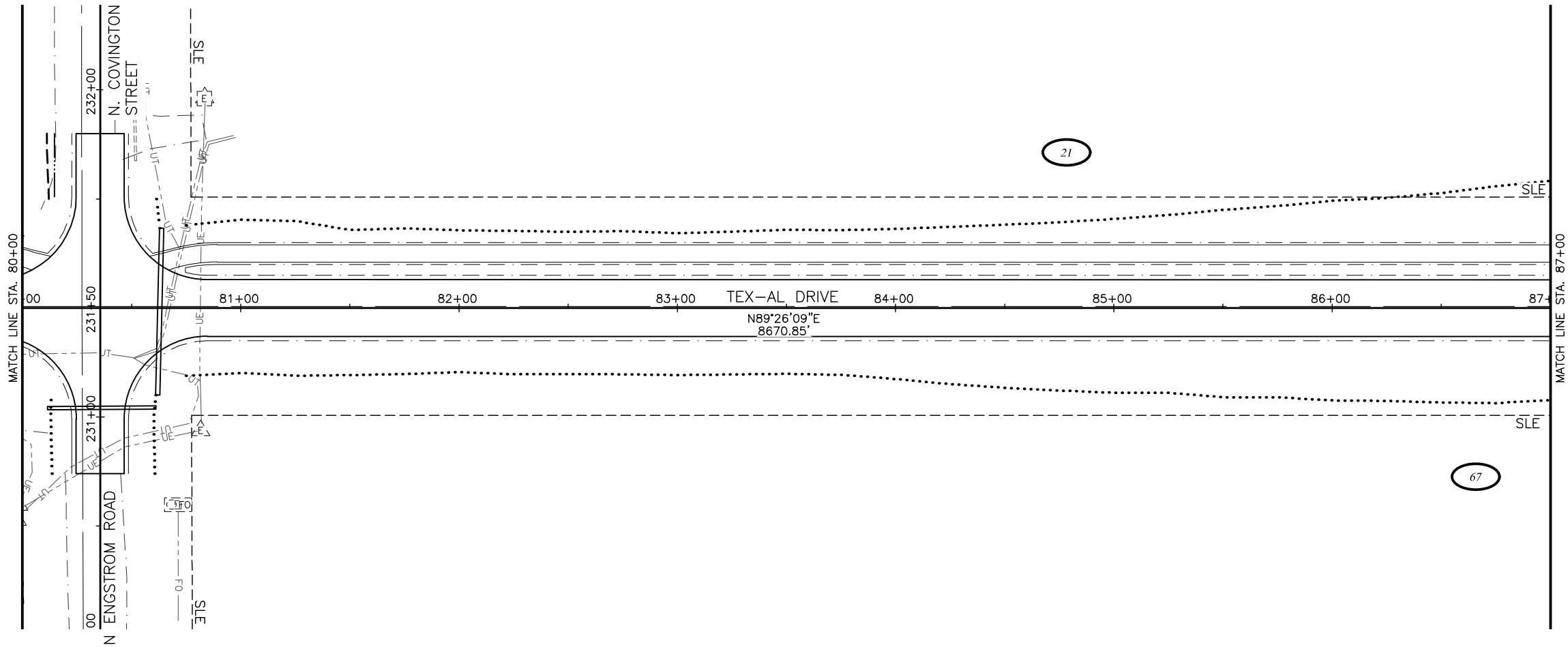
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 73+00 TO STA 80+00



SHEET NO.	TOTAL SHEETS
F11	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

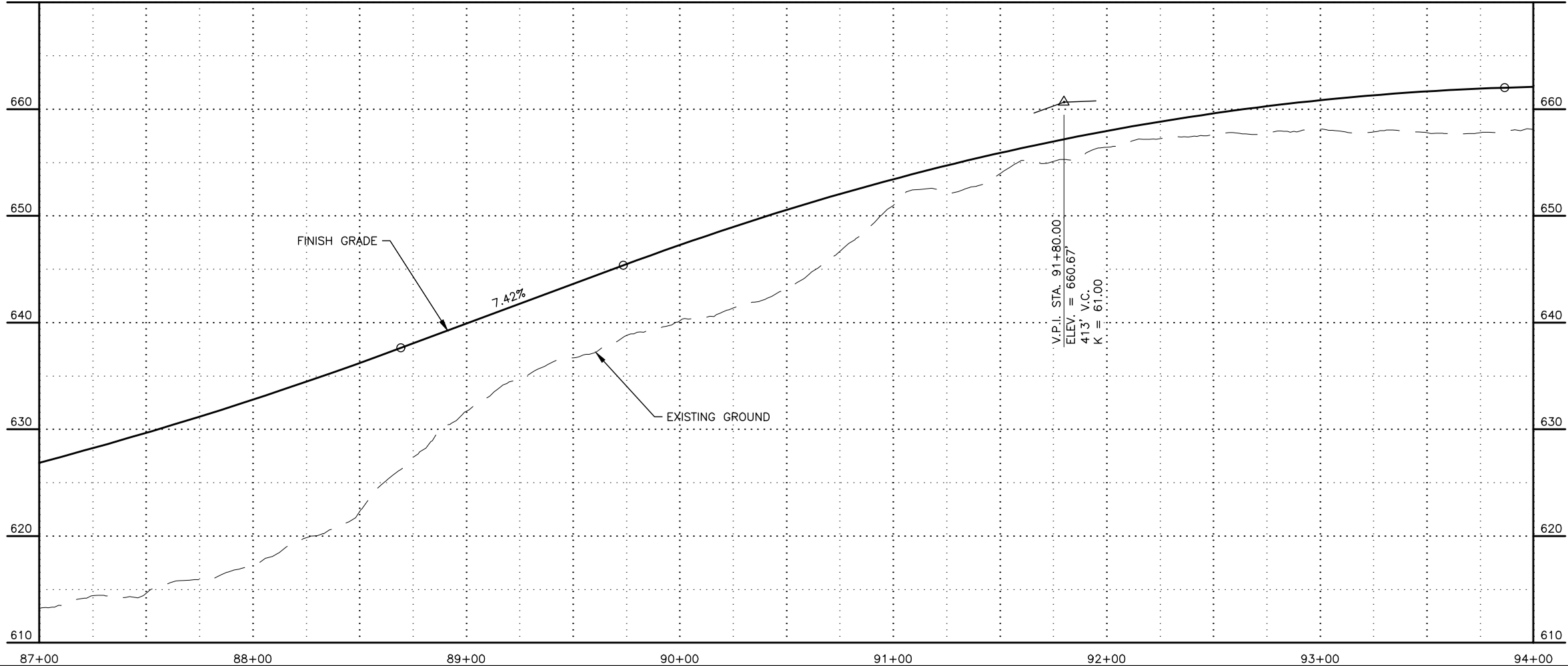
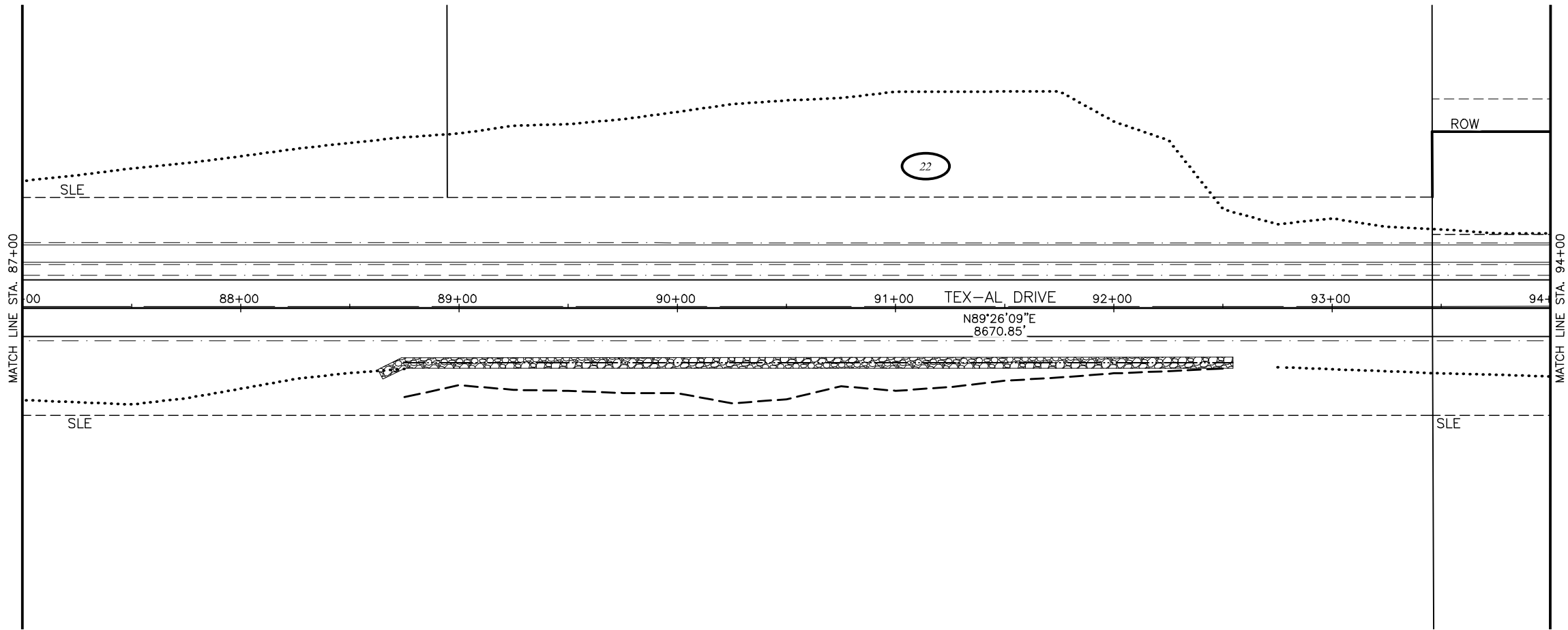
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 80+00 TO STA
87+00



SHEET NO.	TOTAL SHEETS
F12	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 87+00 TO STA 94+00

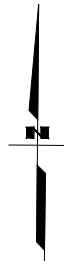
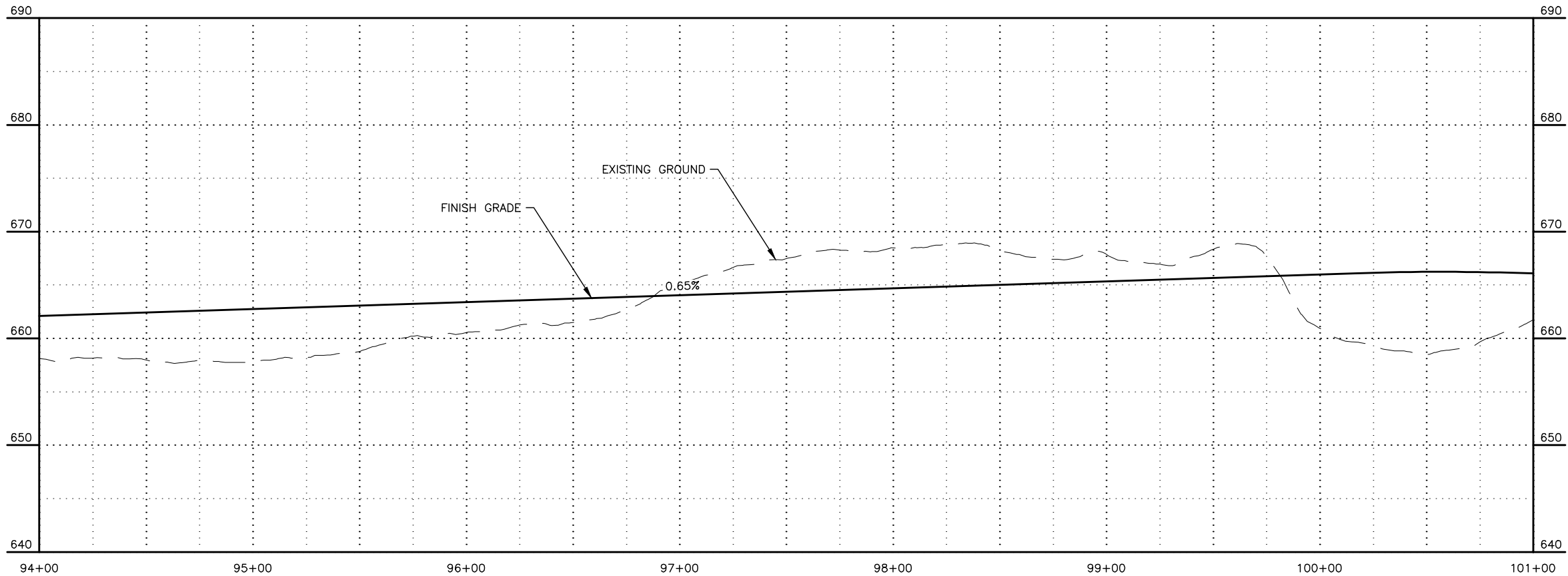
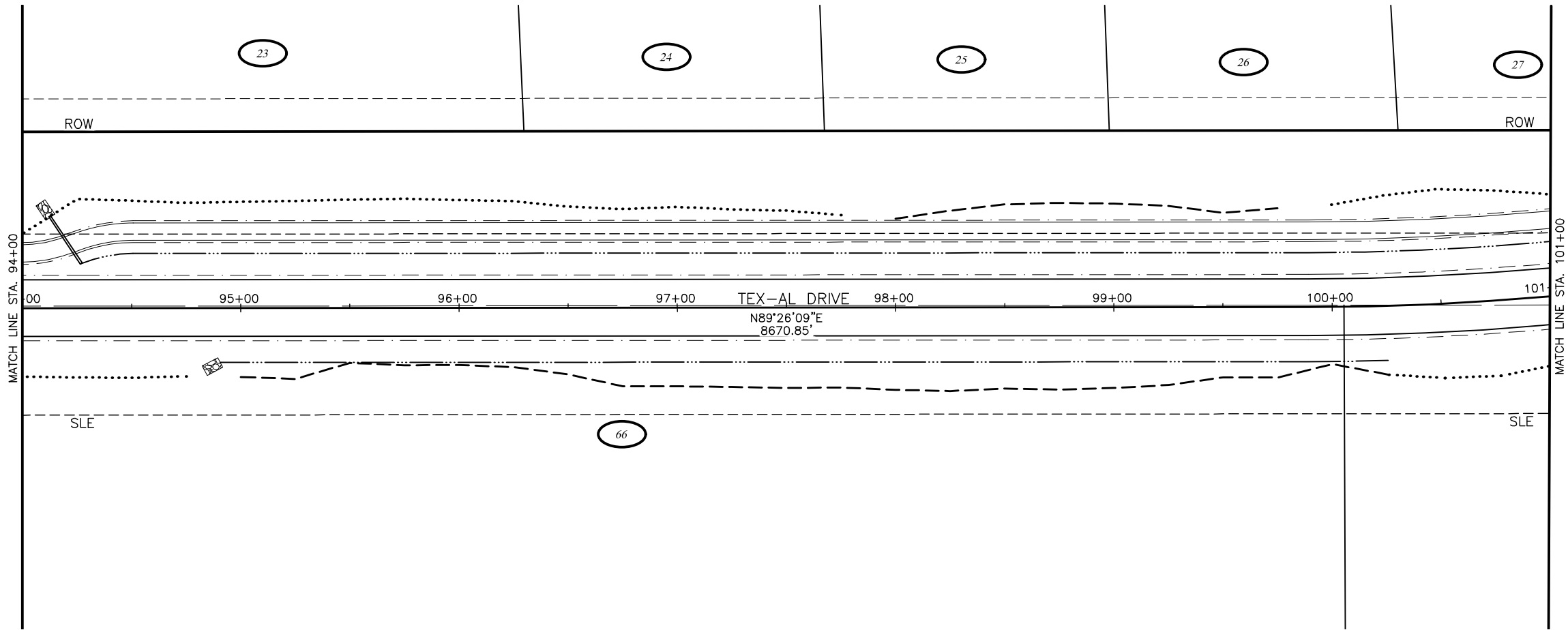
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
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DATE
8/11/2024

TIME
3:38 PM

DRAWING LOCATION
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SHEET NO.	TOTAL SHEETS
F13	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 94+00 TO STA 101+00

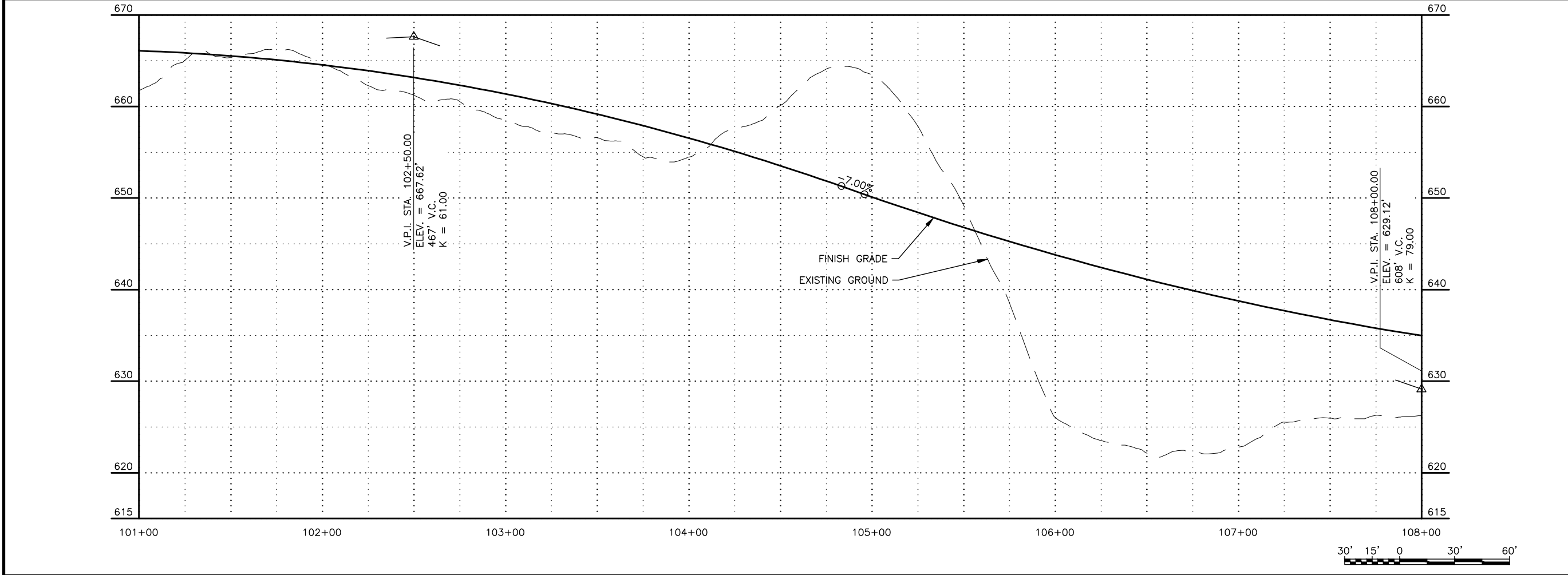
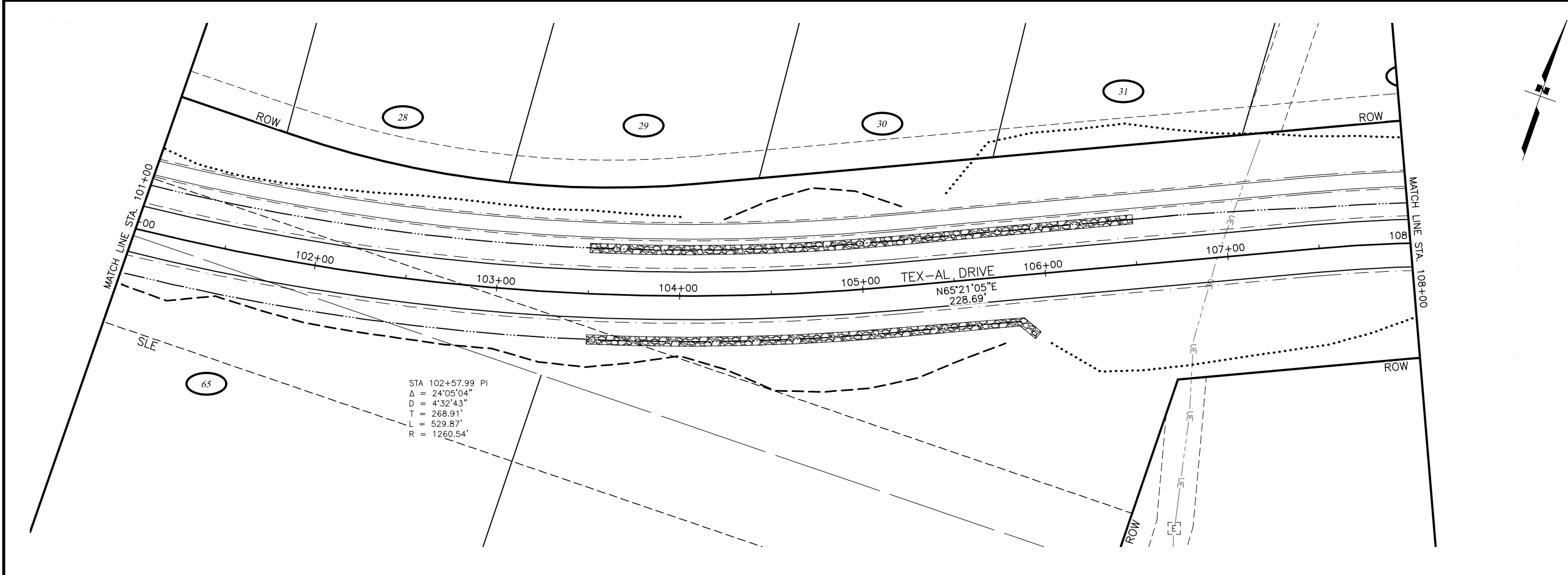
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DATE
8/11/2024

TIME
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DRAWING LOCATION
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SHEET NO.	TOTAL SHEETS
F14	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 101+00 TO STA
108+00

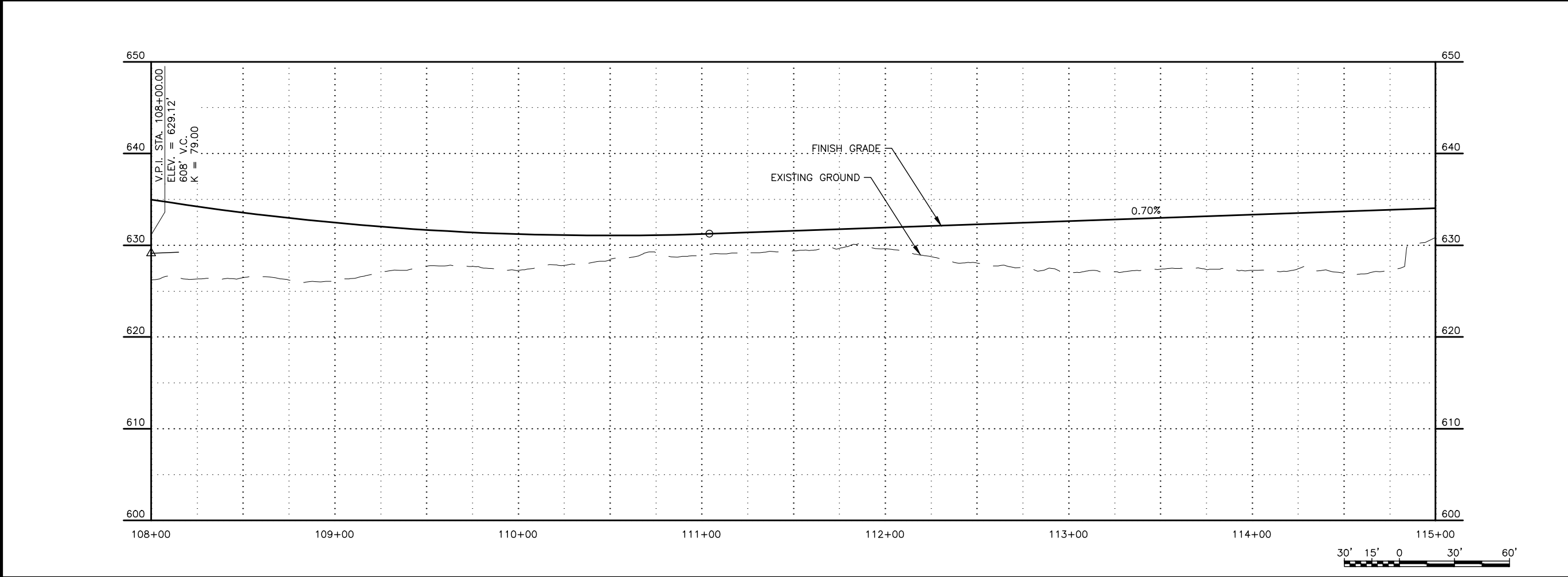
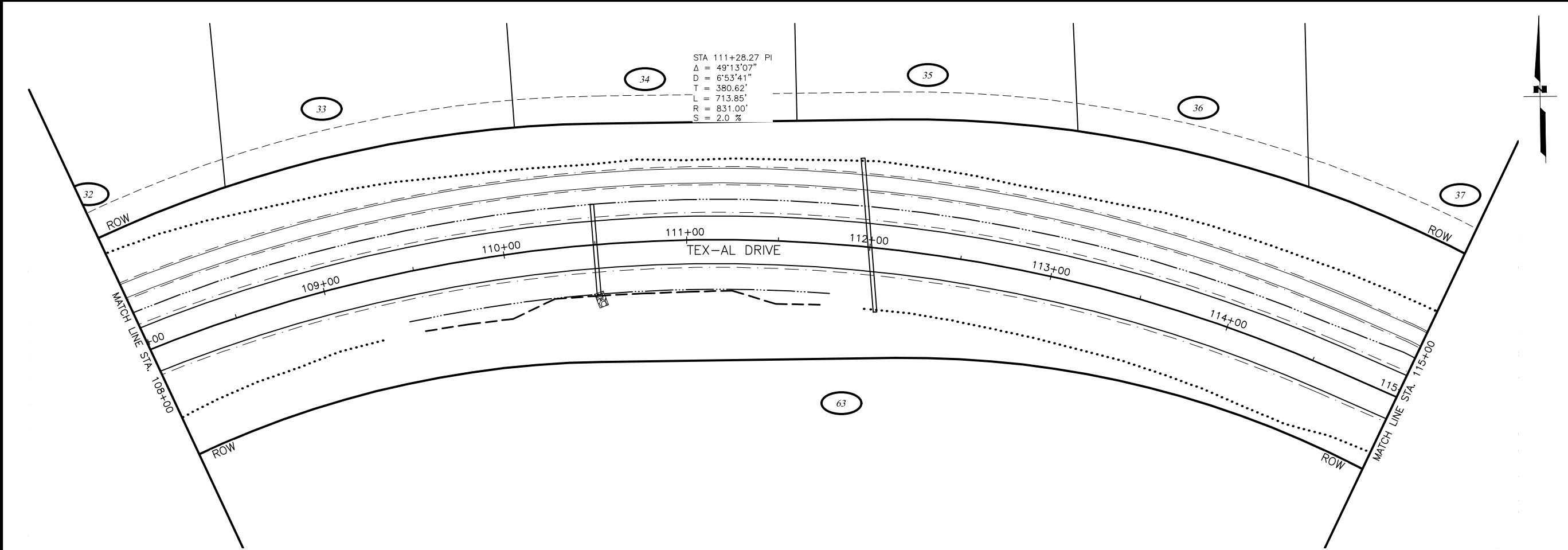
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
1"=30'

DATE
8/11/2024

TIME
3:38 PM

DRAWING LOCATION
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SHEET NO.	TOTAL SHEETS
F15	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

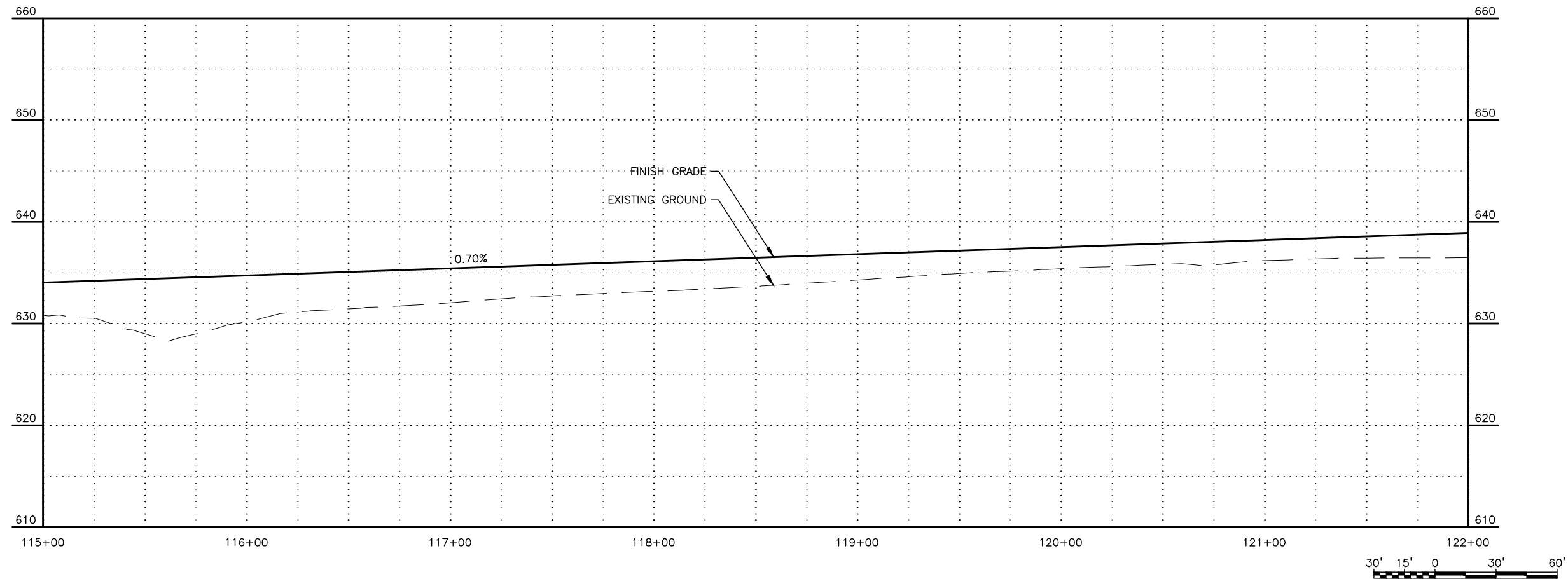
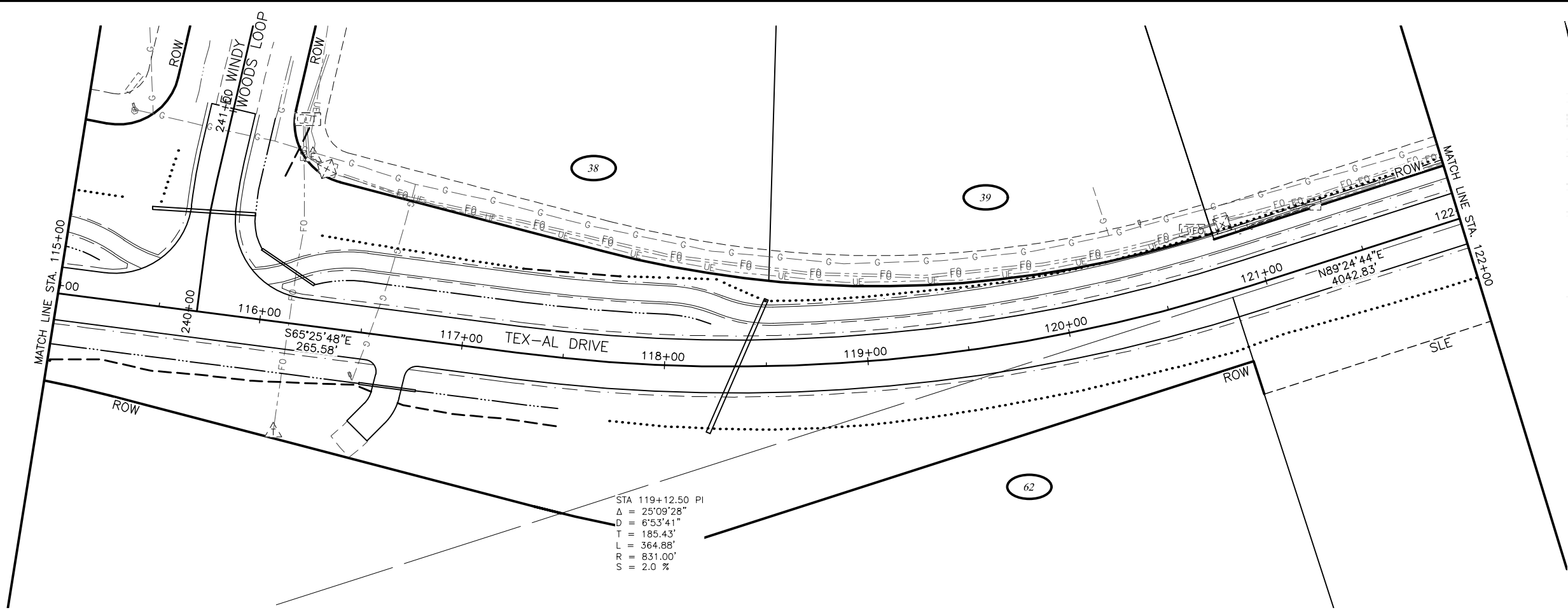
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 108+00 TO STA 115+00



SHEET NO.	TOTAL SHEETS
F16	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

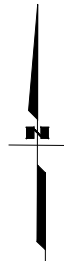
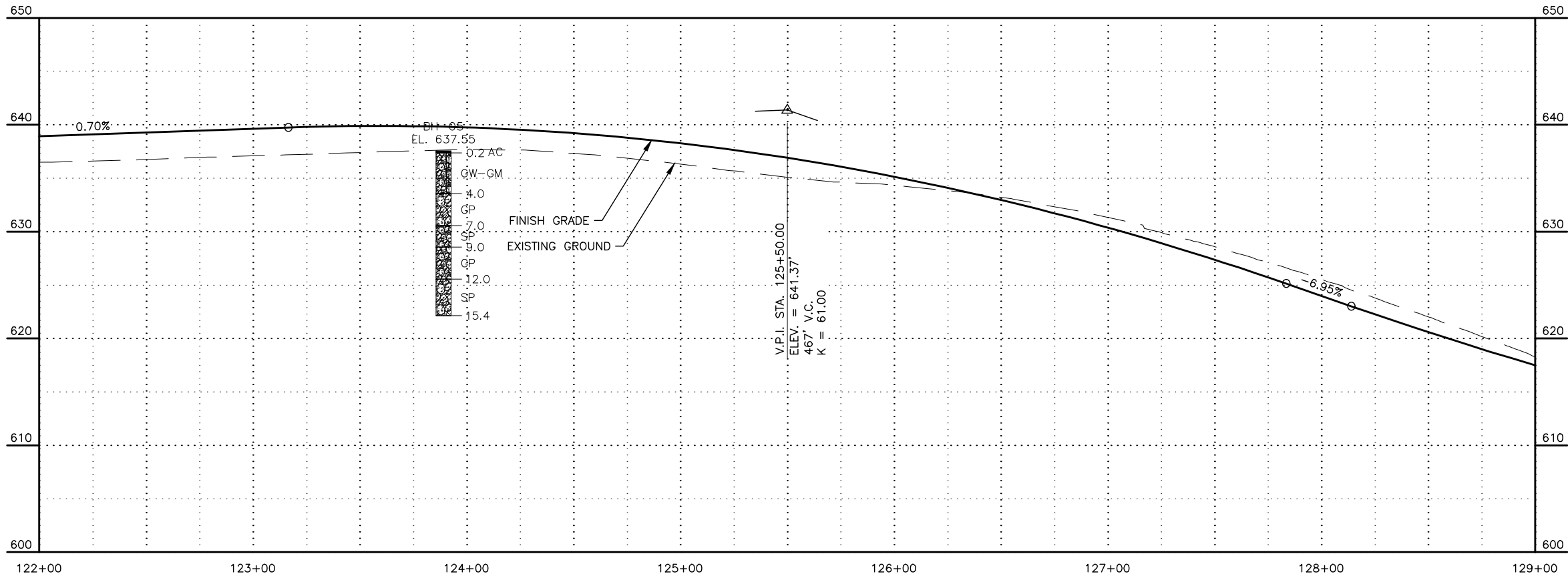
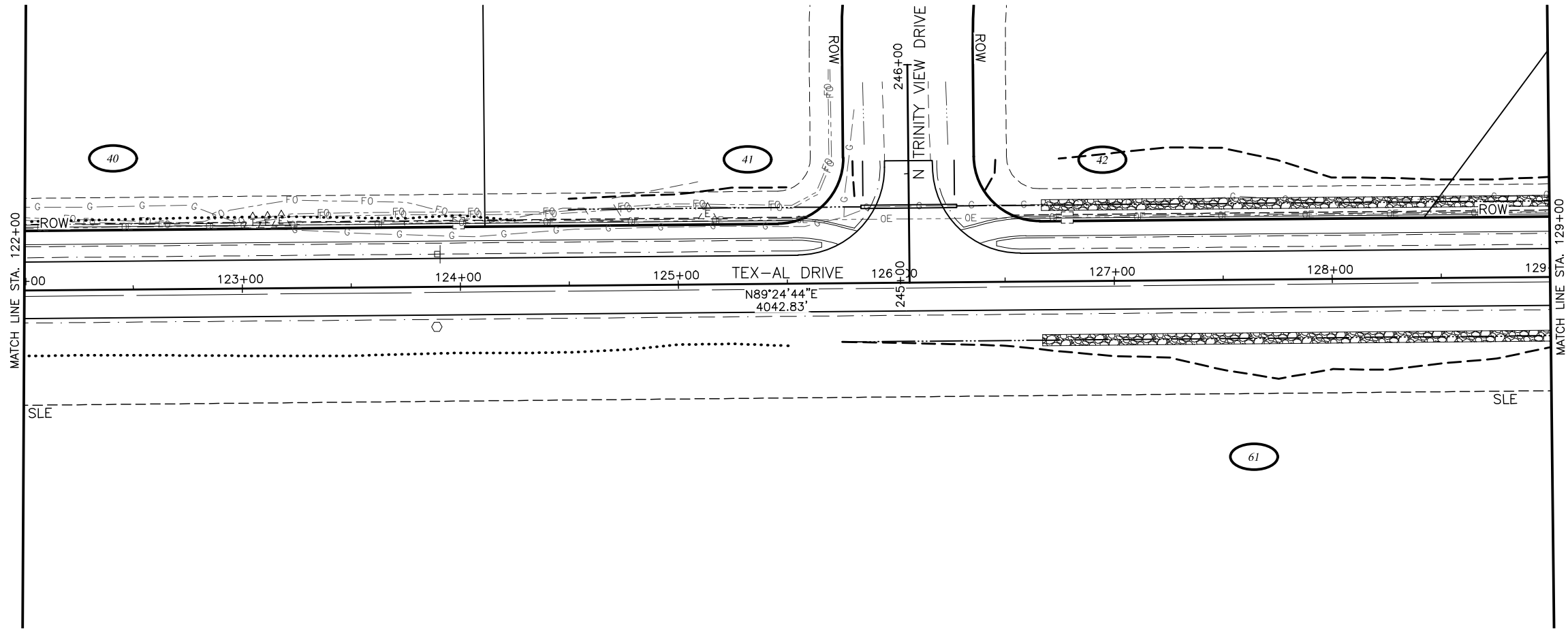
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 115+00 TO STA
122+00



SHEET NO.	TOTAL SHEETS
F17	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

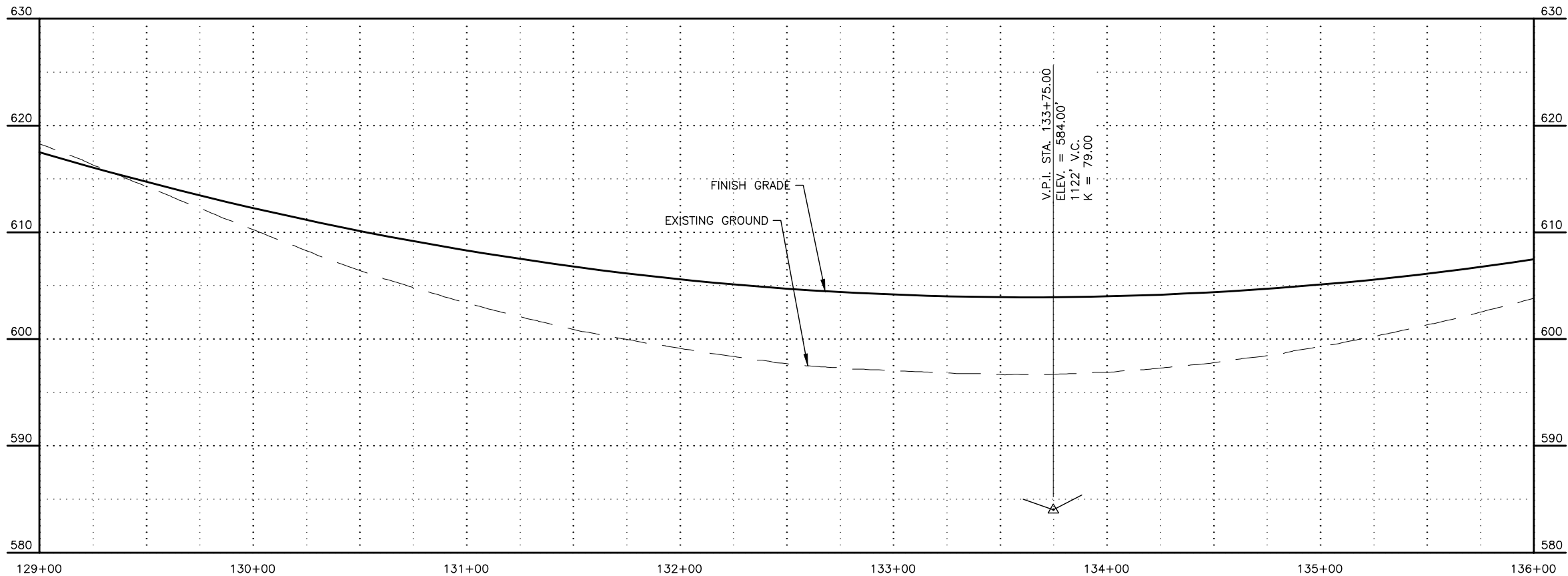
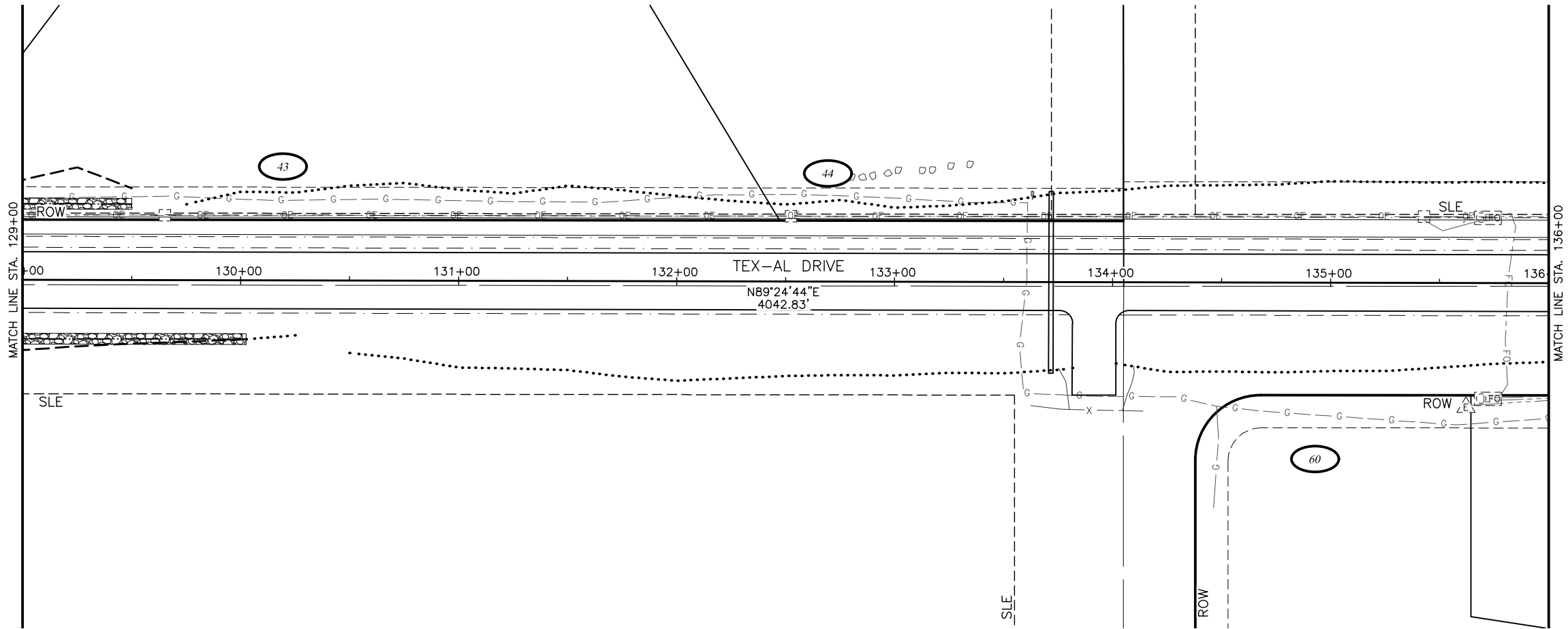
MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 122+00 TO STA
129+00





SHEET NO.	TOTAL SHEETS
F18	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

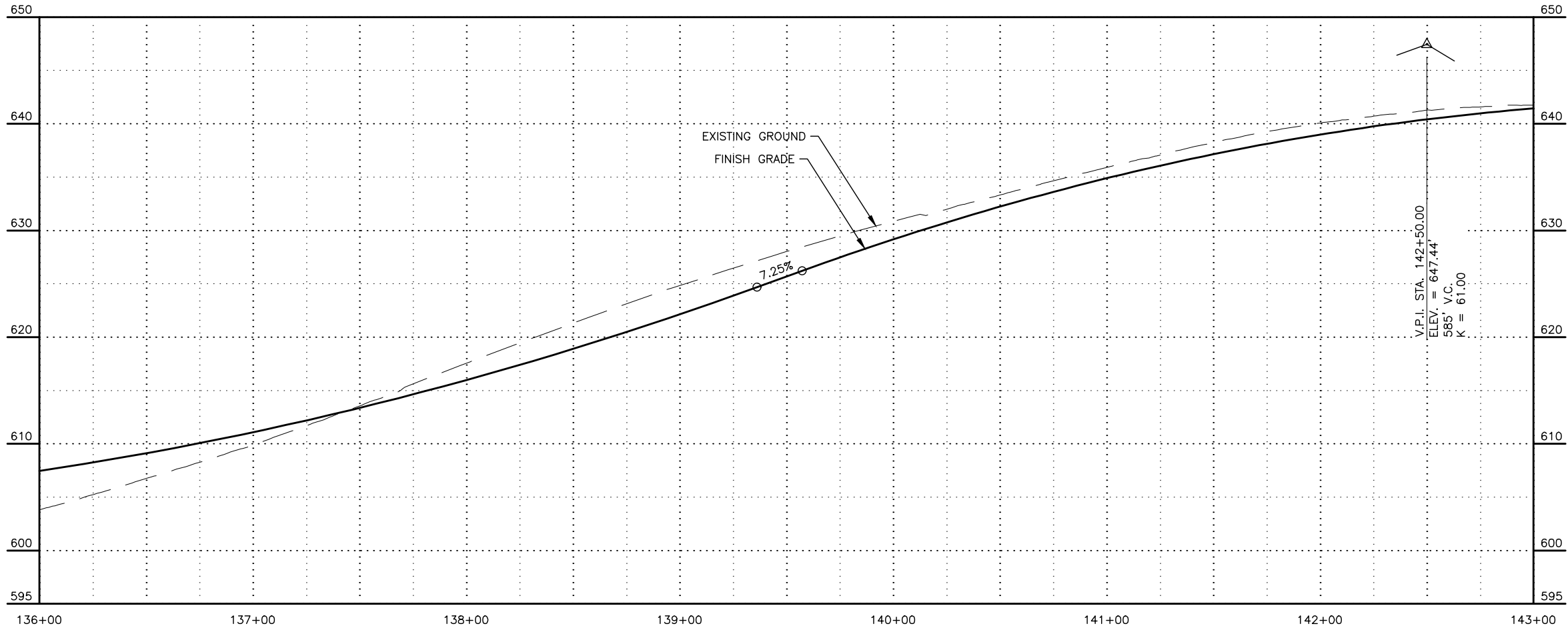
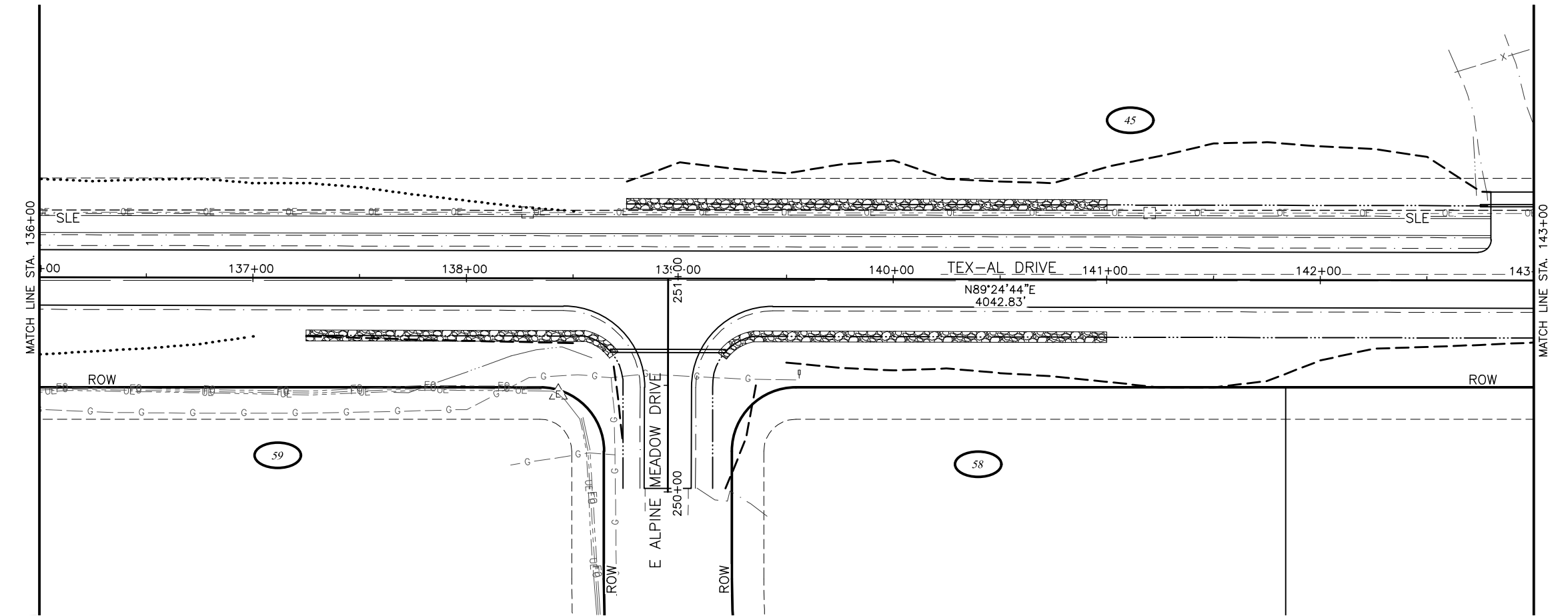
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 129+00 TO STA
136+00



SHEET NO.	TOTAL SHEETS
F19	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

TEX-AL DRIVE

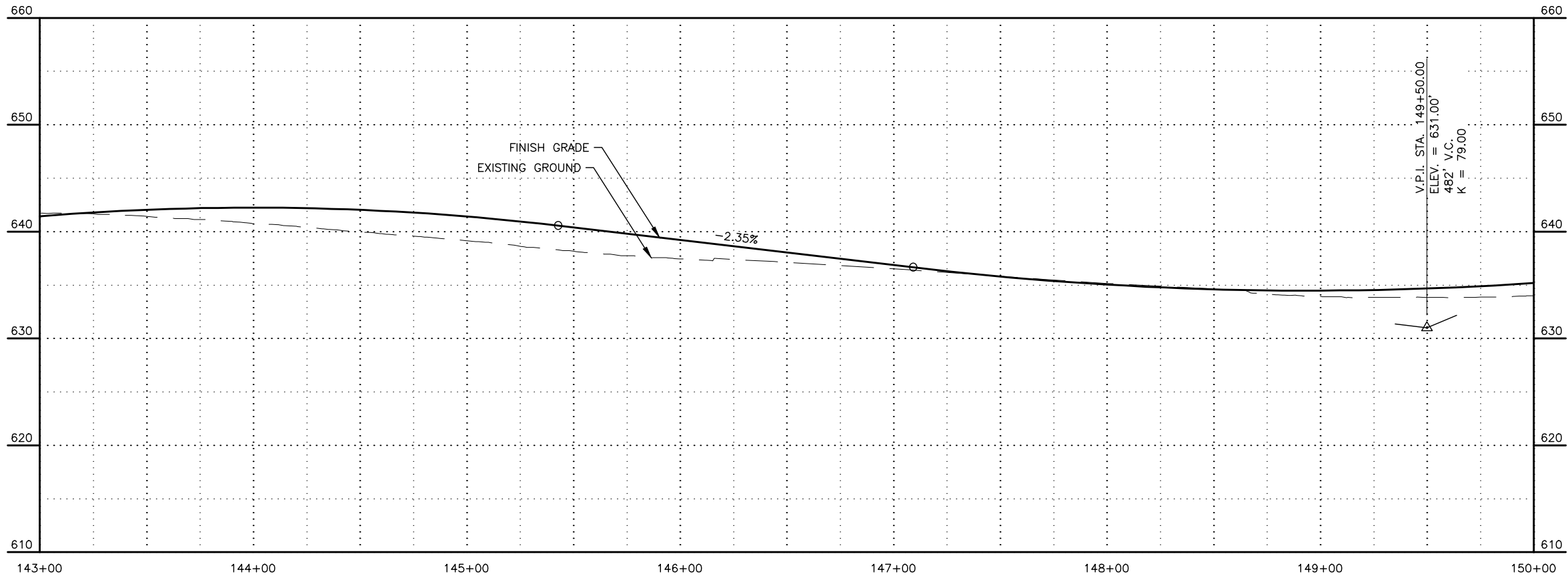
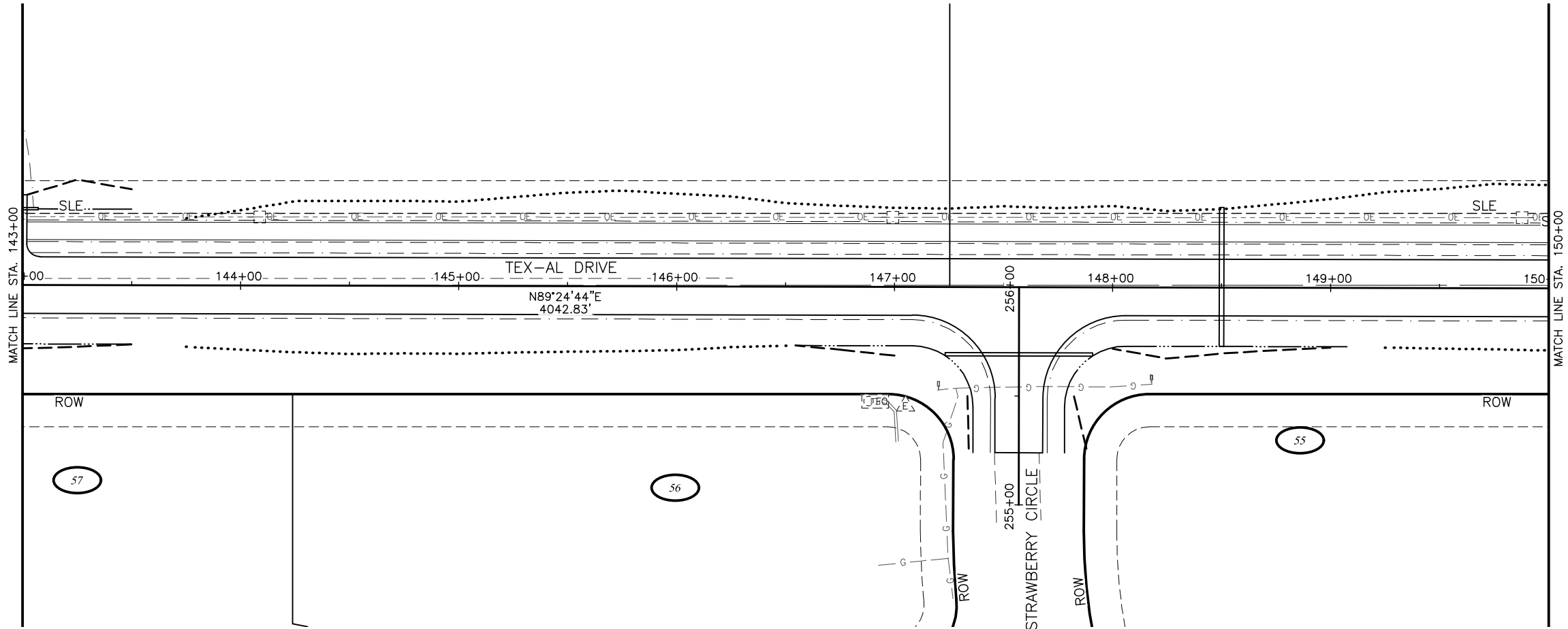
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 136+00 TO STA 143+00



SHEET NO.	TOTAL SHEETS
F20	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

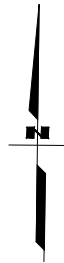
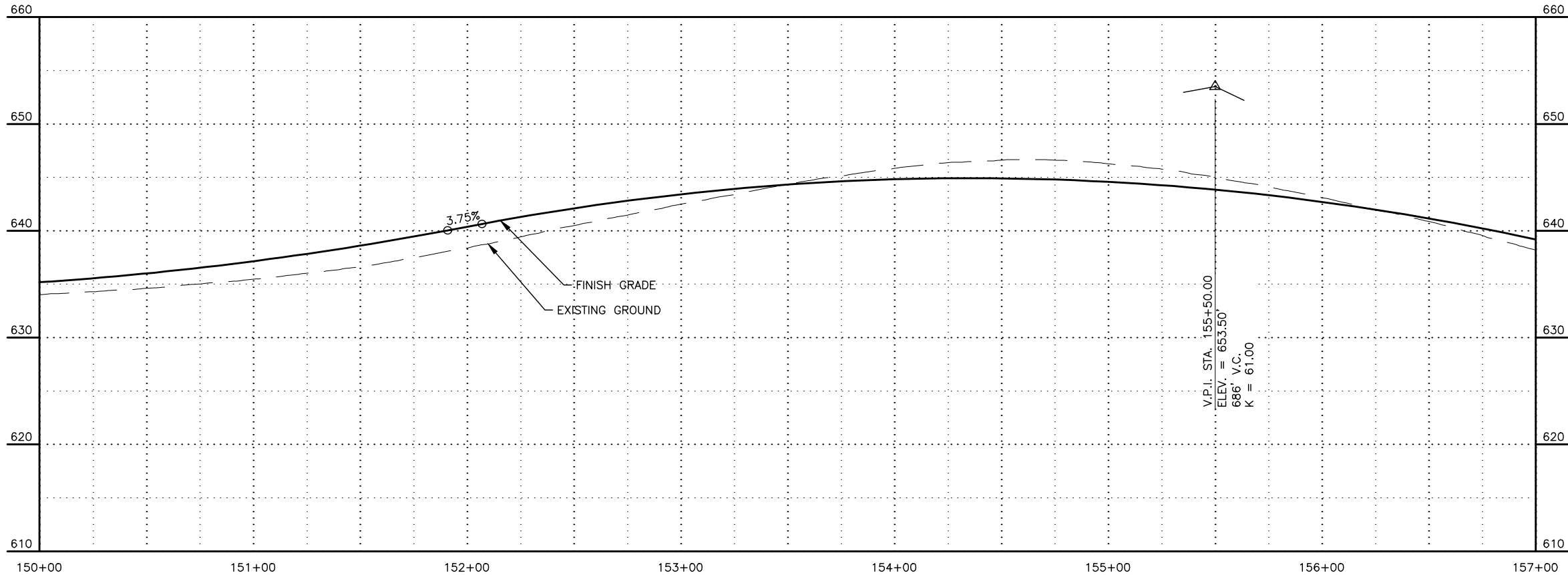
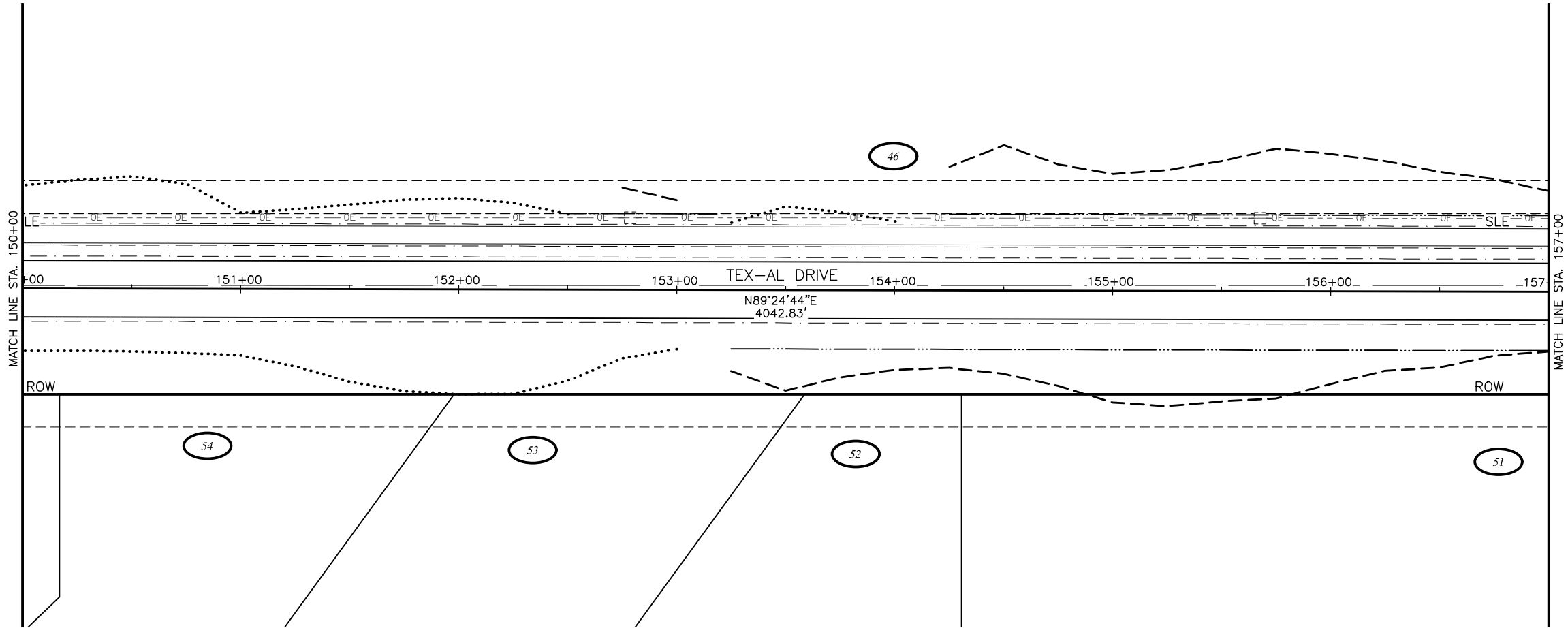
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 143+00 TO STA
150+00



SHEET NO.	TOTAL SHEETS
F21	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

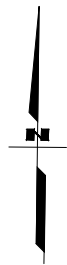
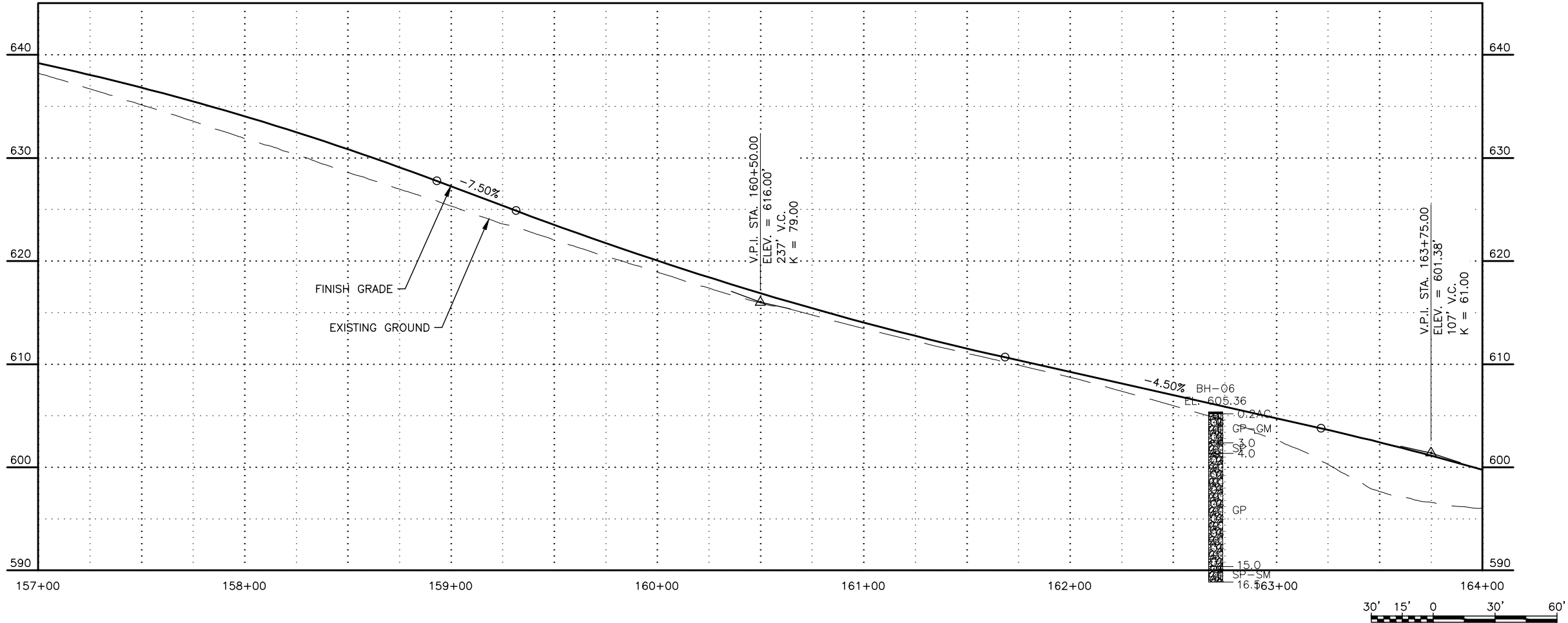
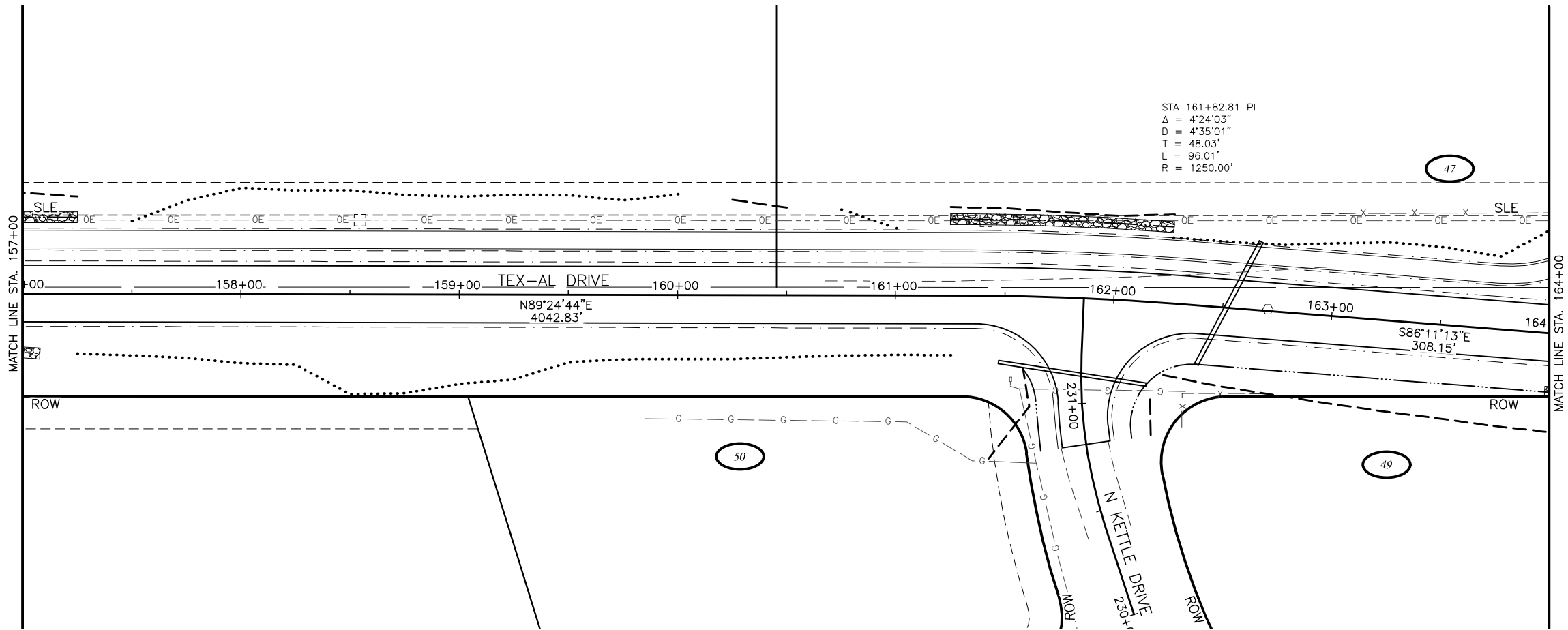
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 150+00 TO STA 157+00



SHEET NO.	TOTAL SHEETS
F22	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
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DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
FROZEN COURT
N WASILLA-FISHHOOK RD
BACKROAD CIRCLE
N GROUSE LOOP
TEX-AL DRIVE

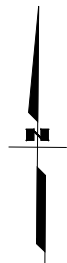
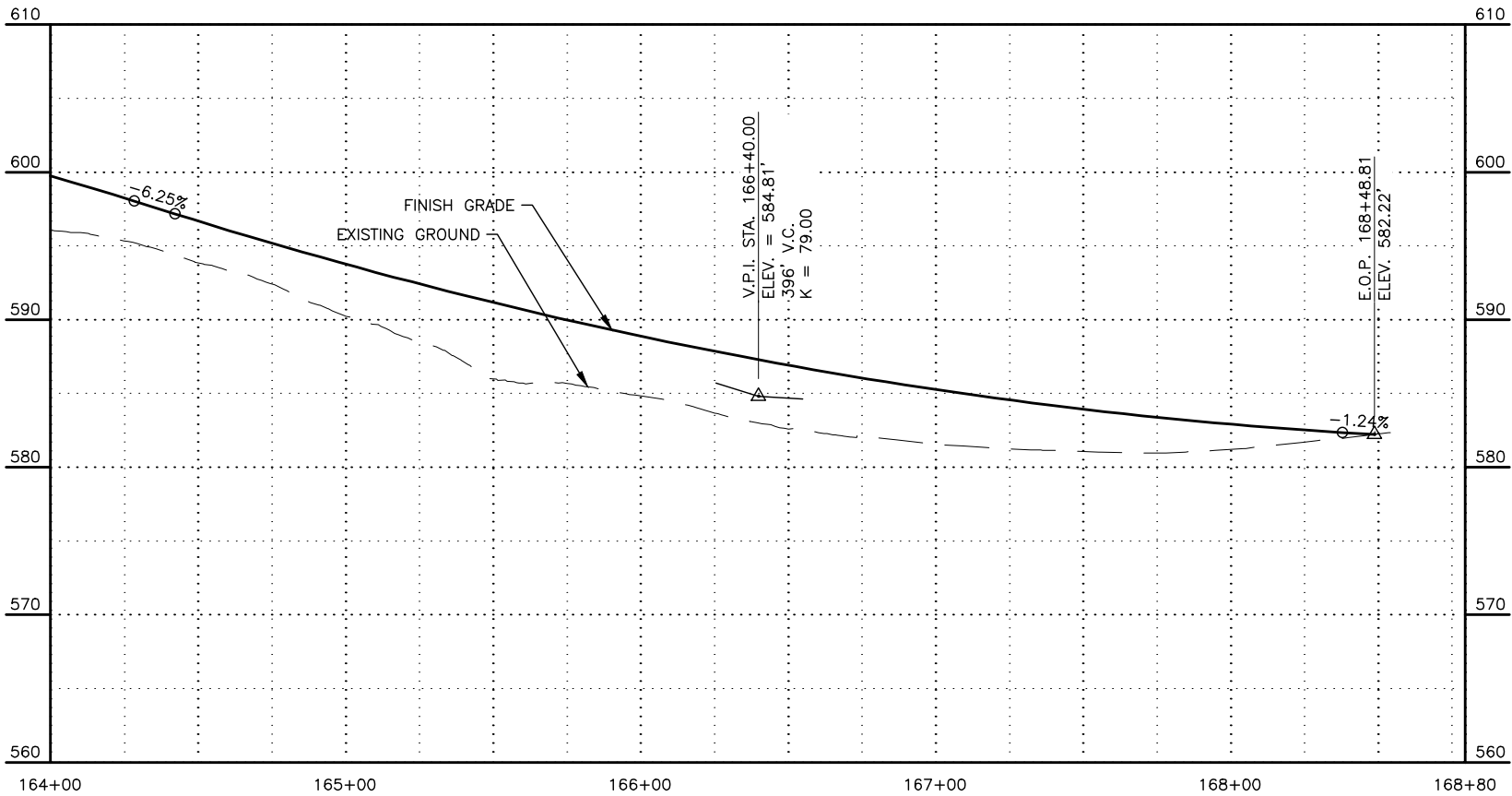
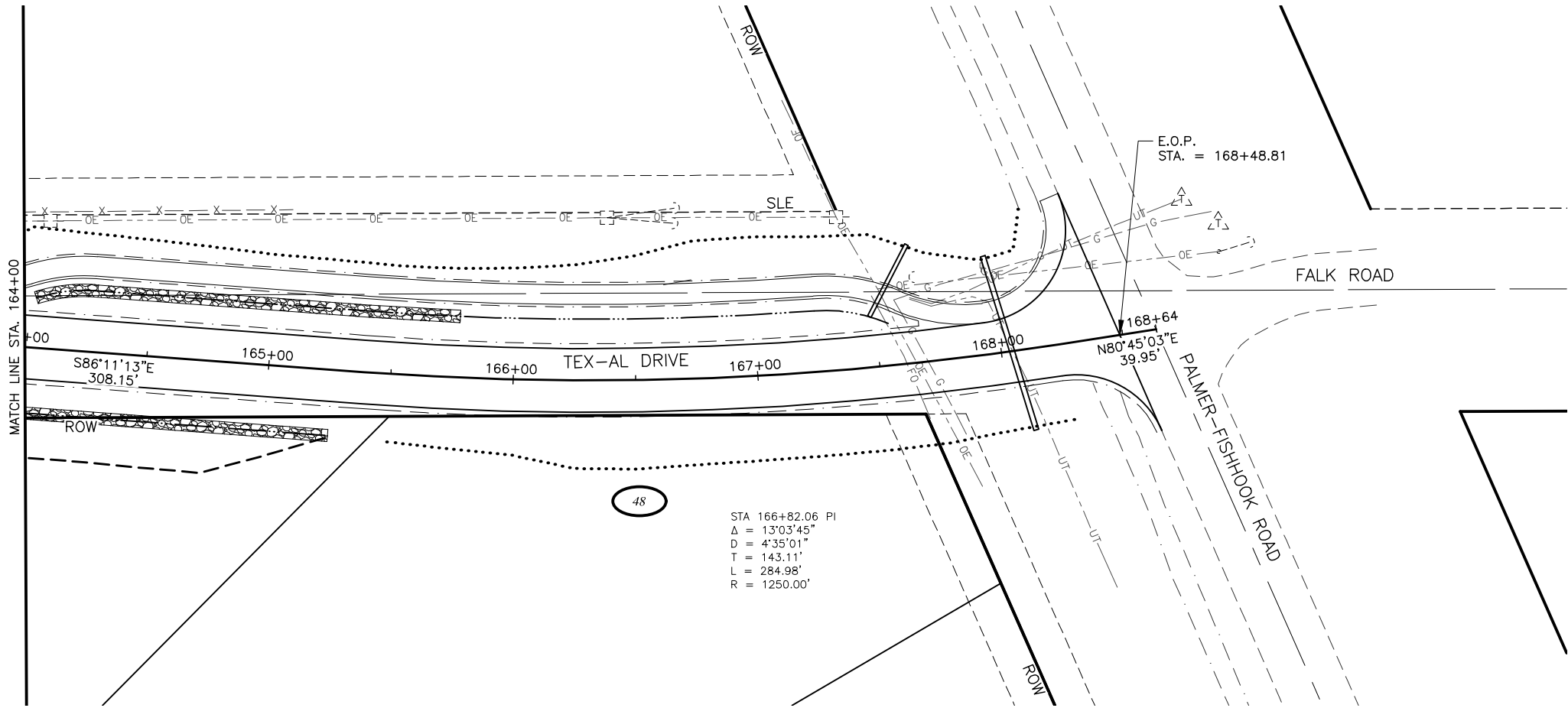
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3940 ARCTIC BLVD., SUITE 300
ANCHORAGE, ALASKA 99503
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#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

STA 157+00 TO STA 164+00



SHEET NO. F23		TOTAL SHEETS F27	
STATE ALASKA		YEAR 2024	
PROJECT DESIGNATION 35472-1809			
NO.	REVISION		
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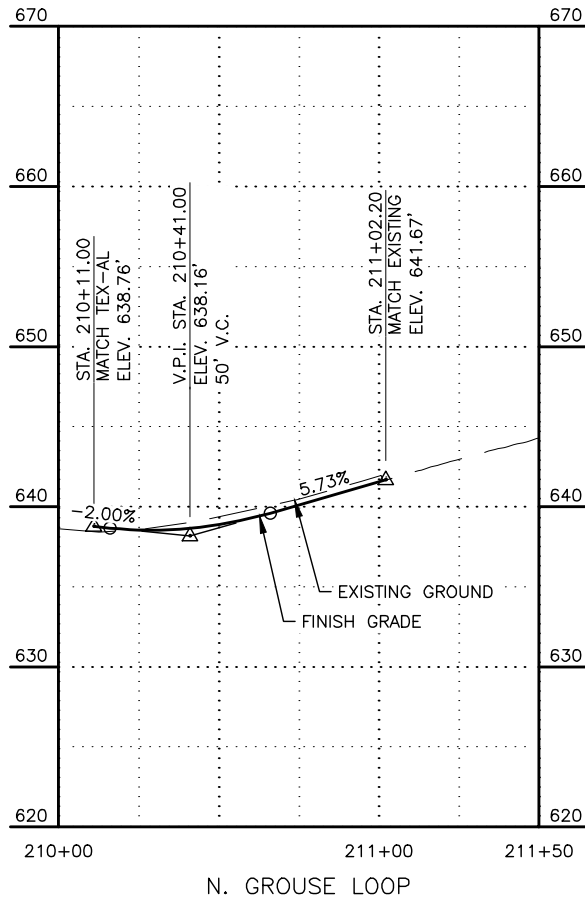
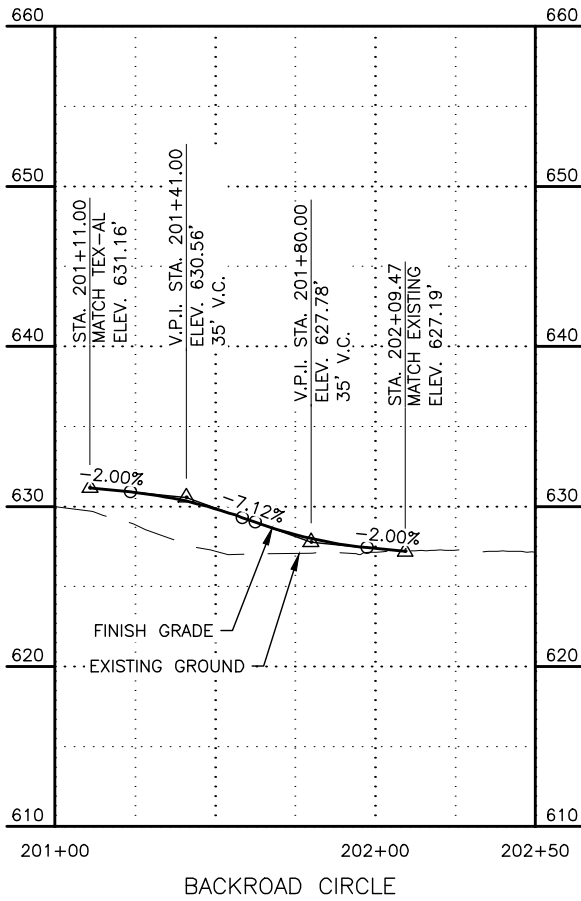
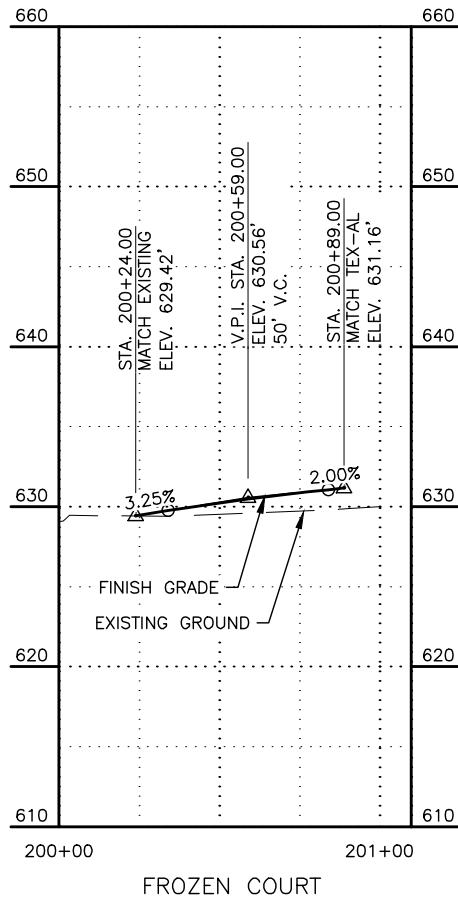
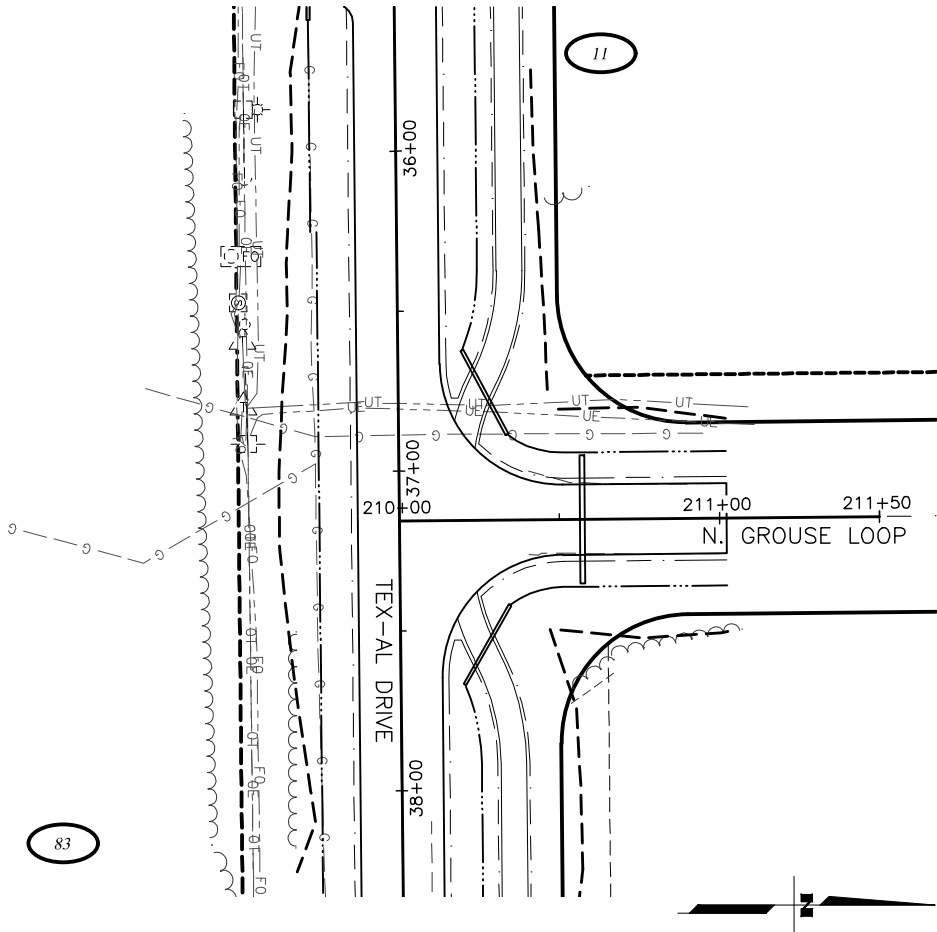
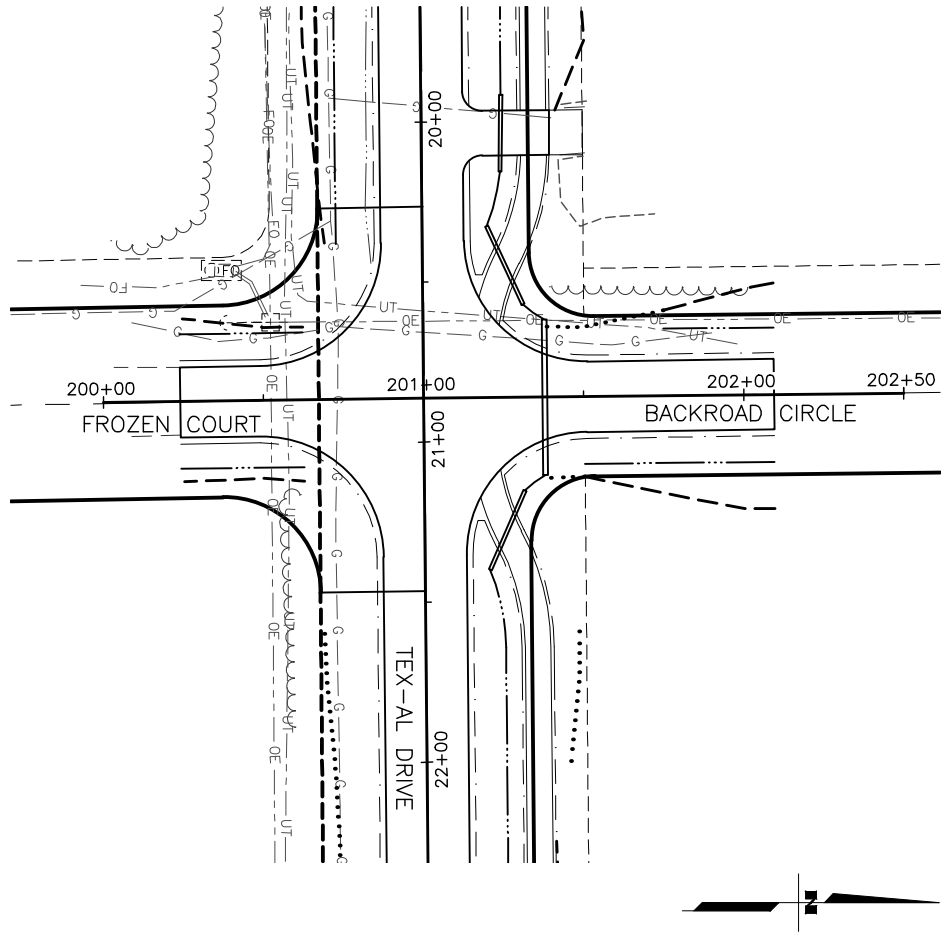
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PUBLIC WORKS DEPARTMENT

**TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY**

PLAN AND PROFILE

STA 164+00 TO EOP



SHEET NO.	TOTAL SHEETS
F24	F27
STATE	YEAR
ALASKA	2024
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NO.	REVISION
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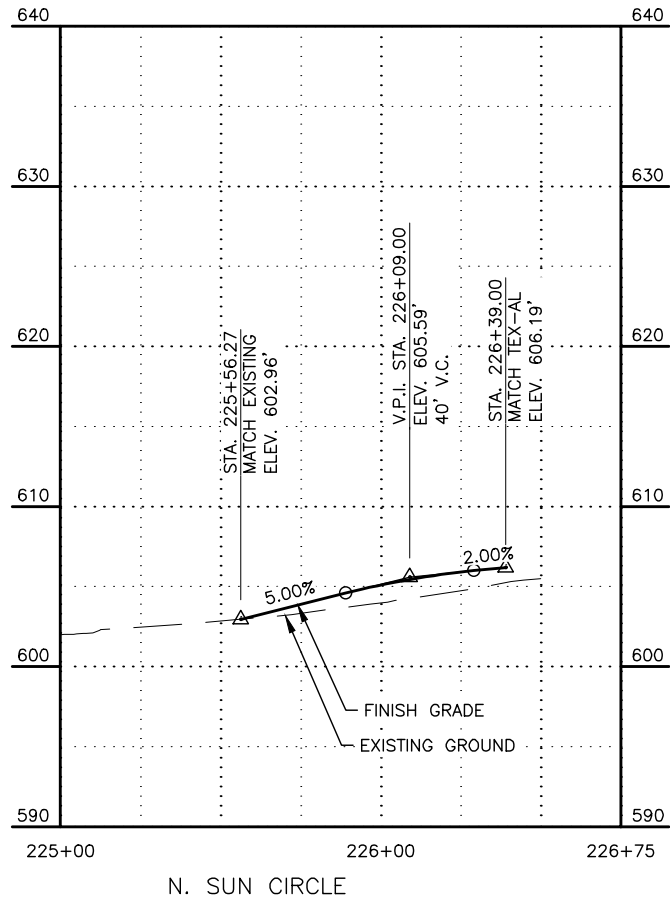
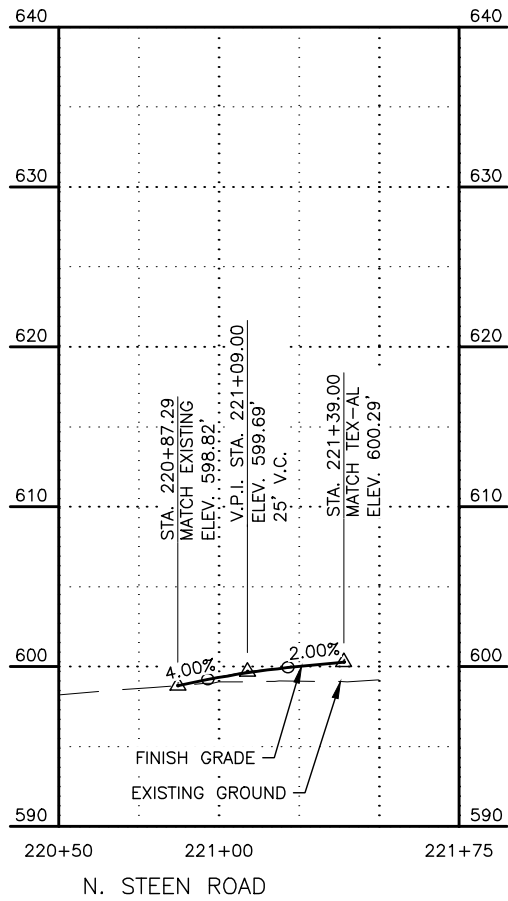
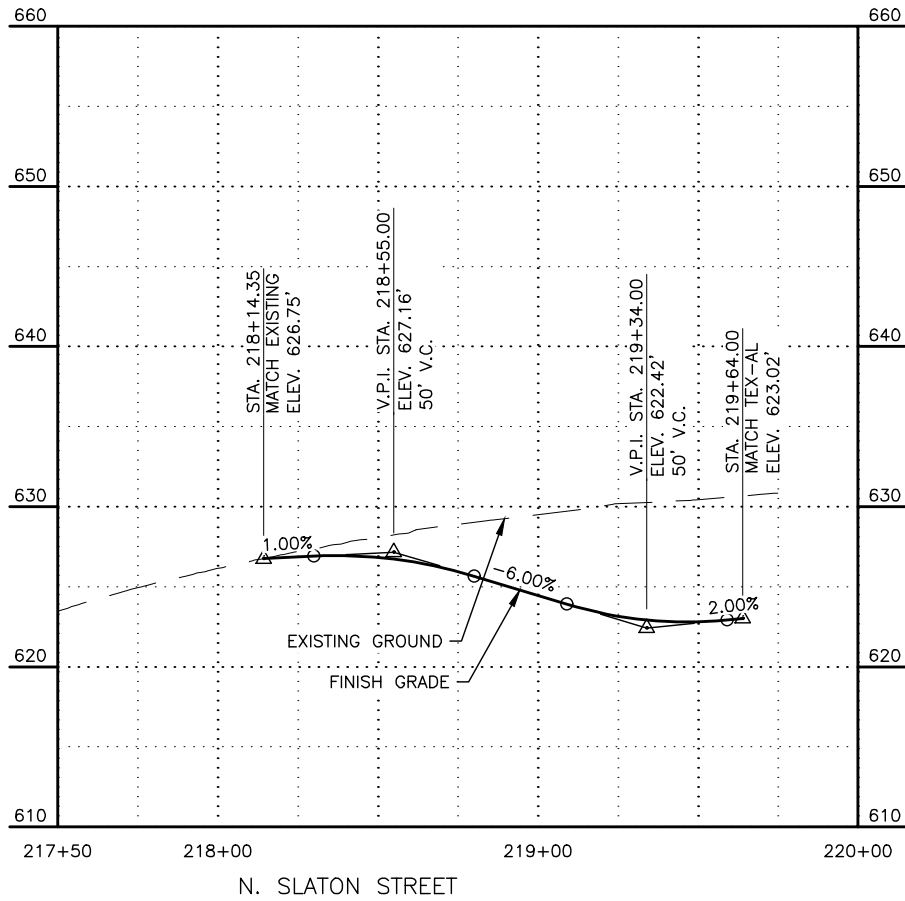
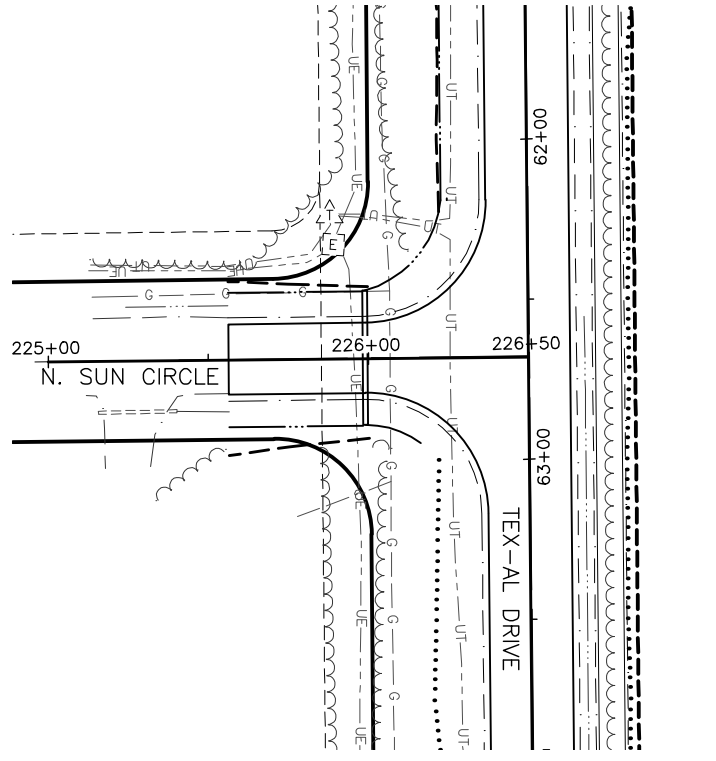
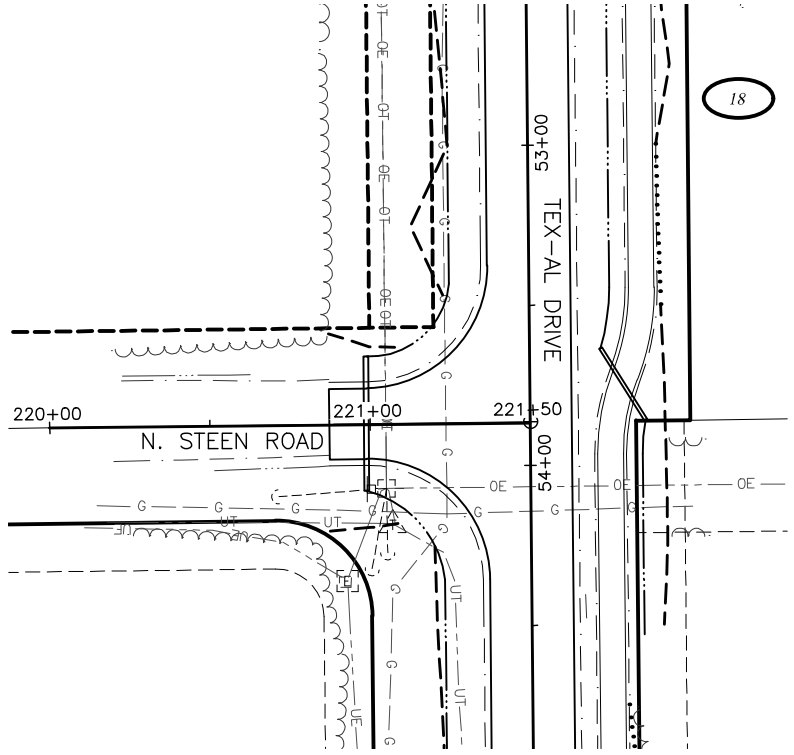
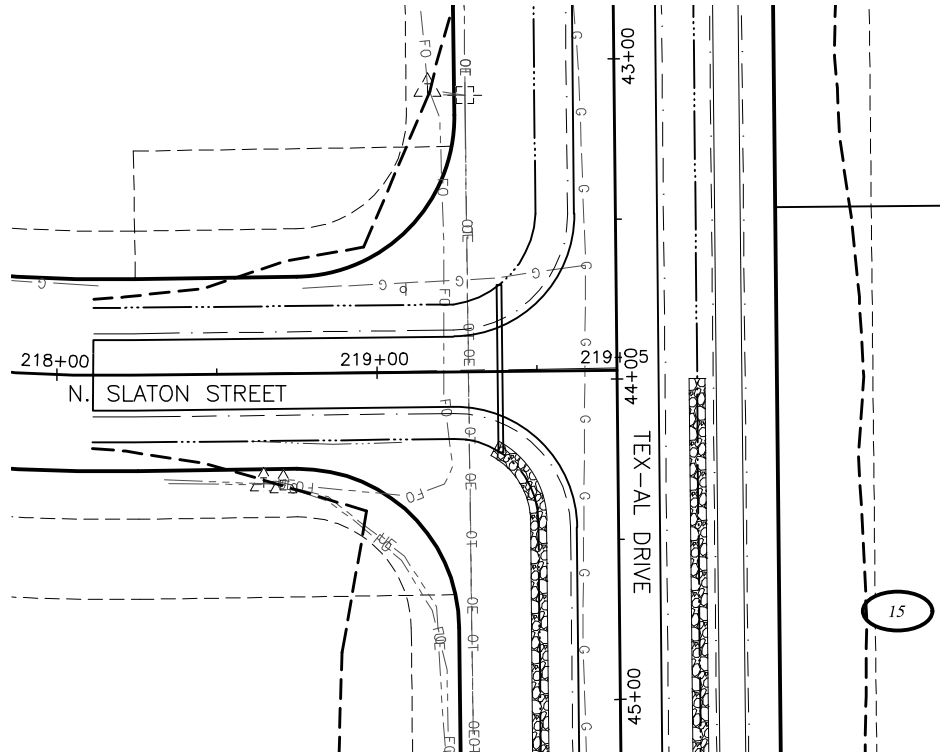
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PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

BACKROAD CIRCLE,
FROZEN COURT, AND N.
GROUSE LOOP



SHEET NO.	TOTAL SHEETS
F25	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
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DATE	
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N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

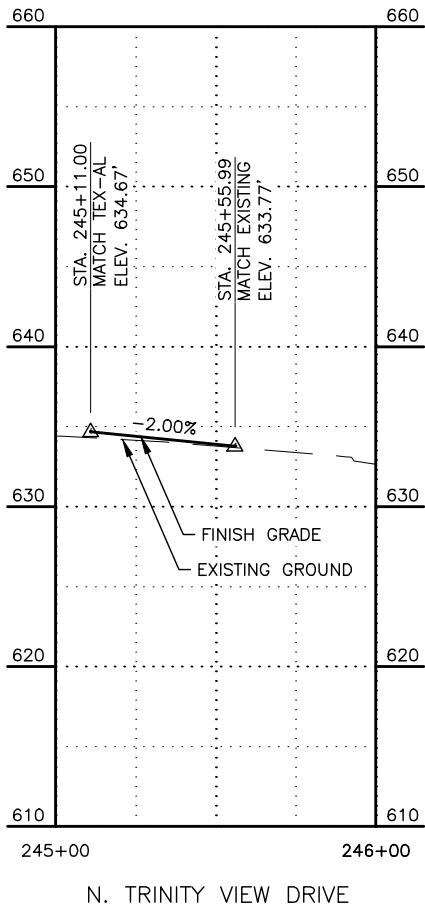
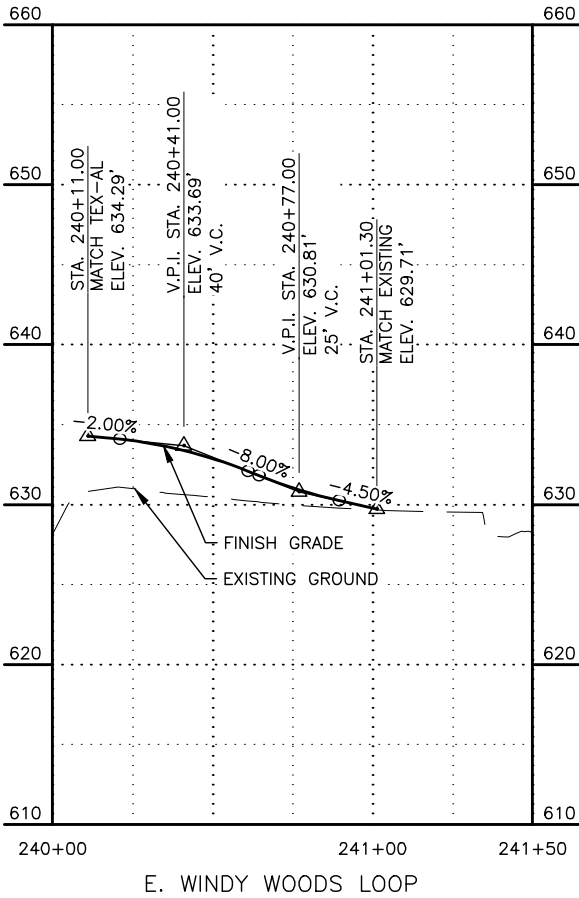
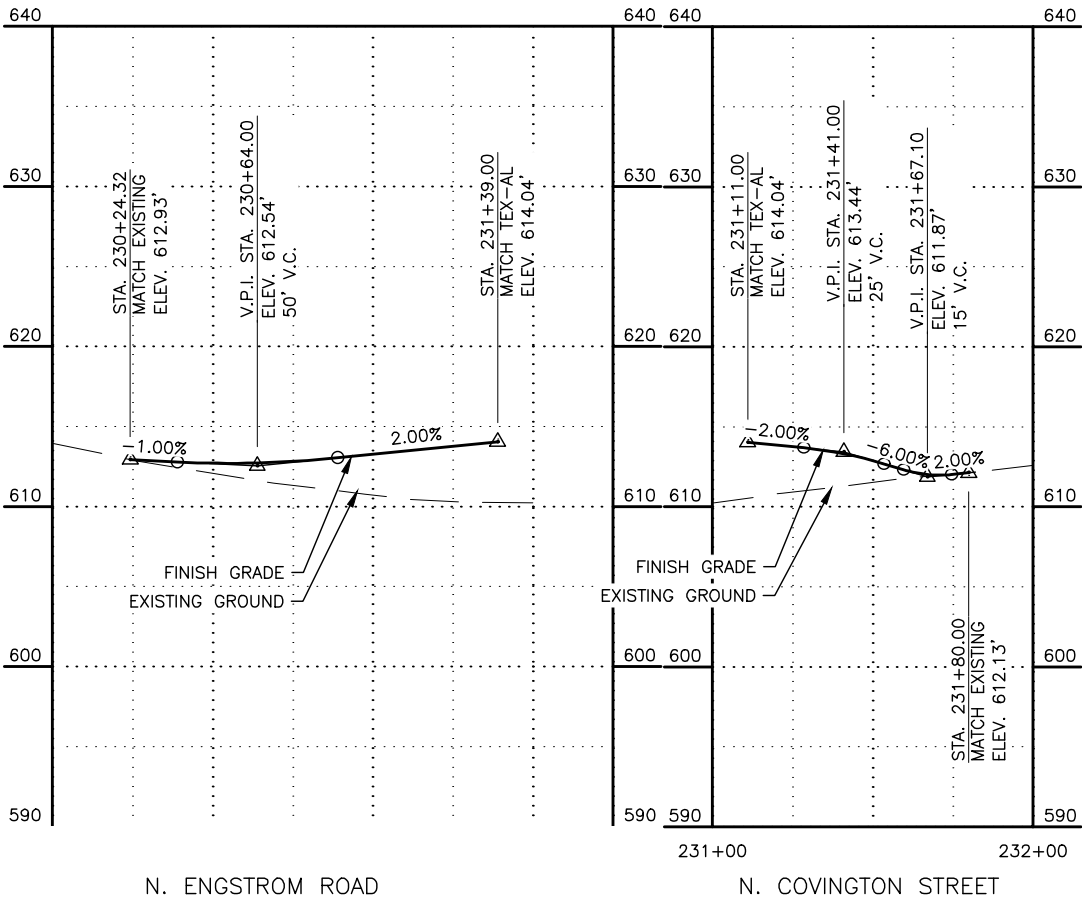
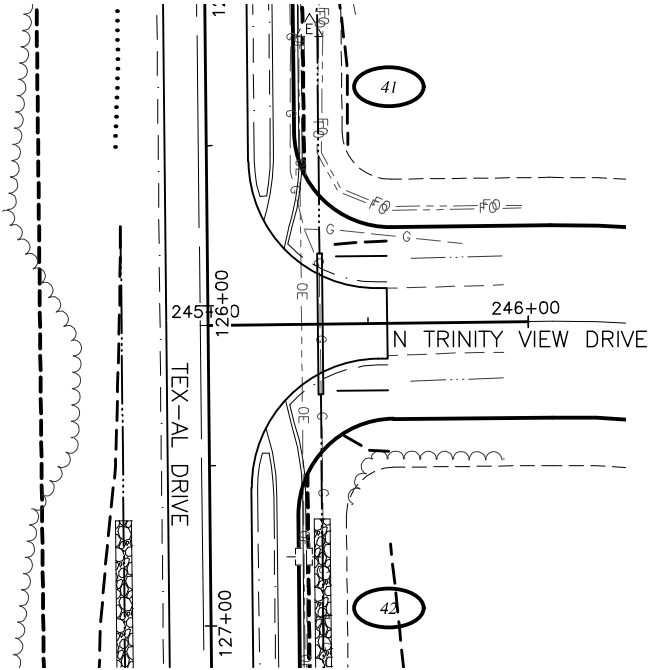
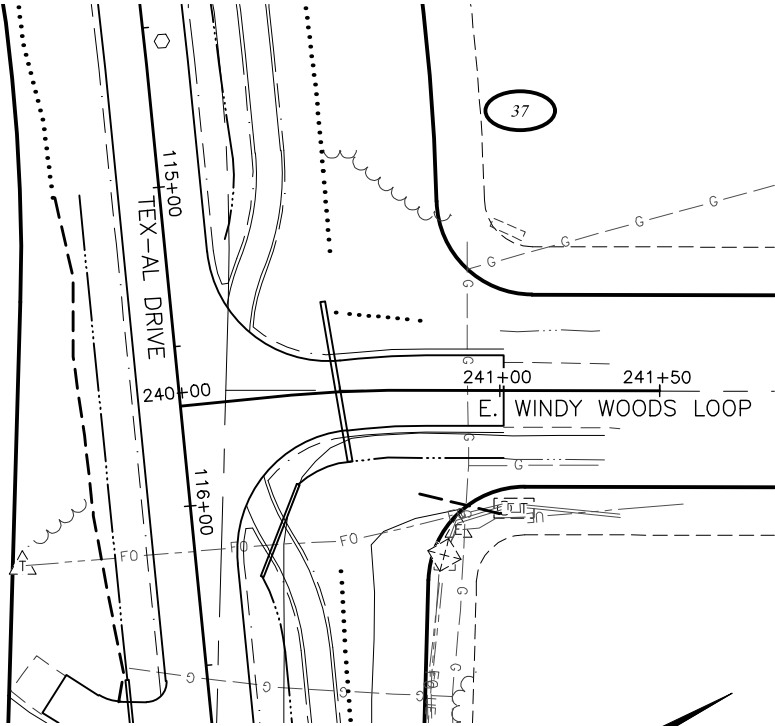
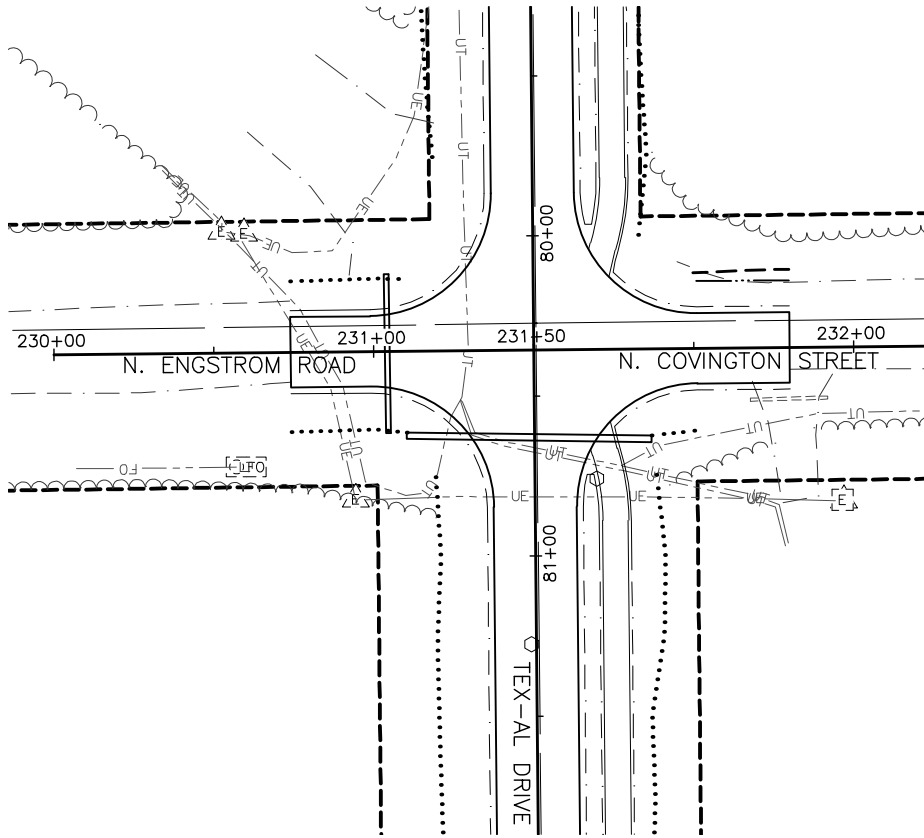
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TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

N. SLATON STREET, N.
STEEN ROAD, AND N. SUN
CIRCLE



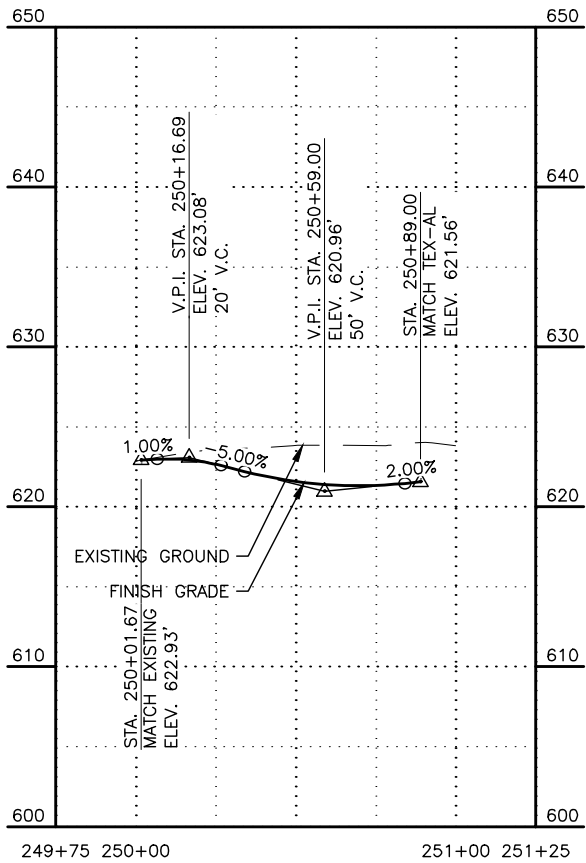
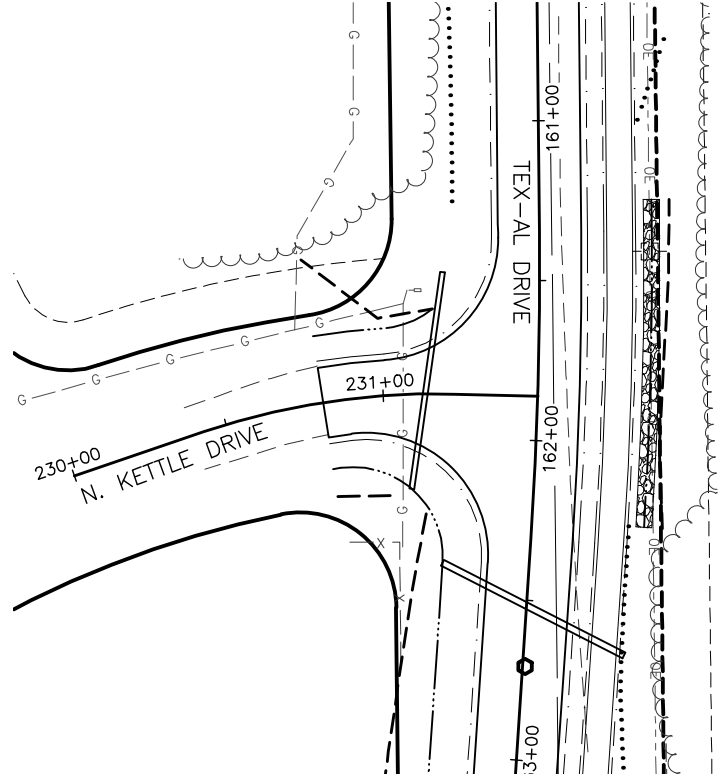
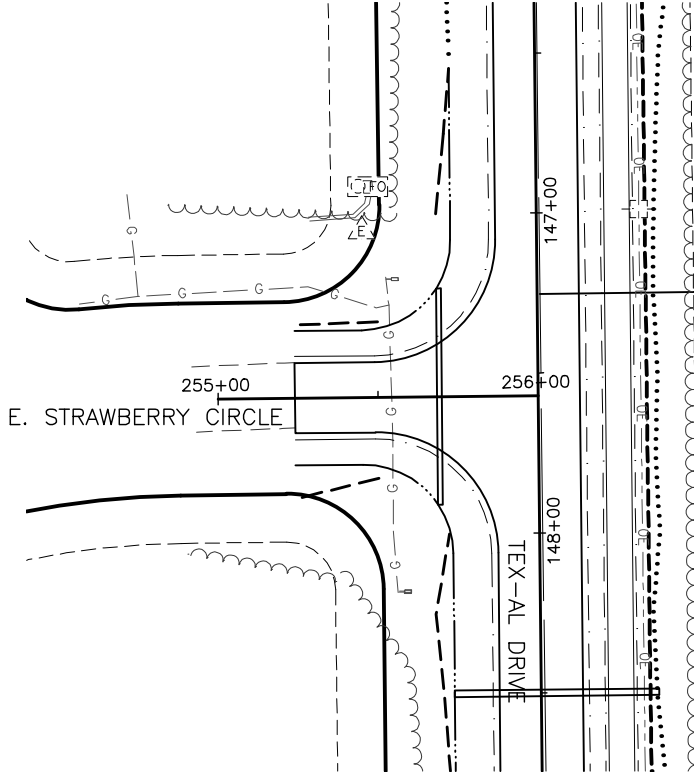
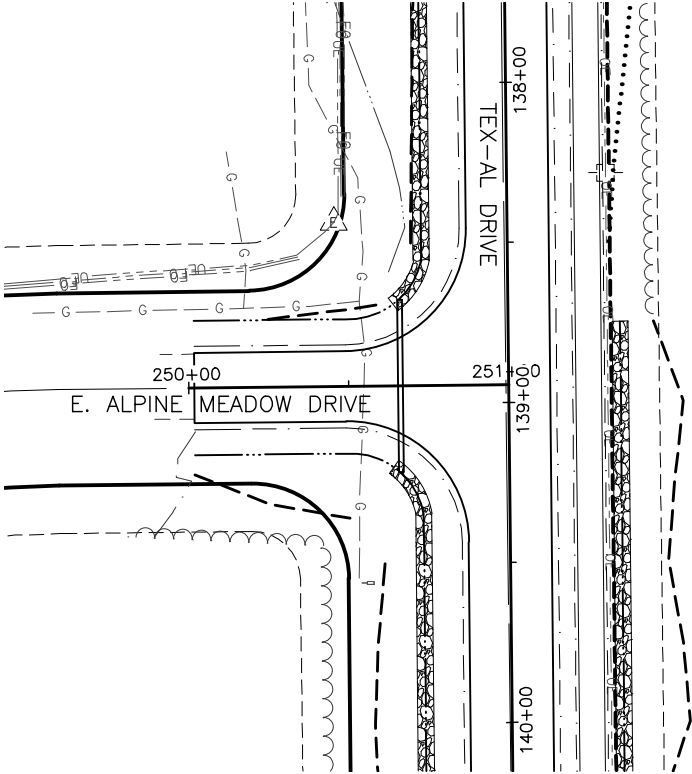
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F26	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
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N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
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N SUN CIRCLE
N STEEN RD
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FROZEN COURT
N WASILLA-FISHHOOK RD

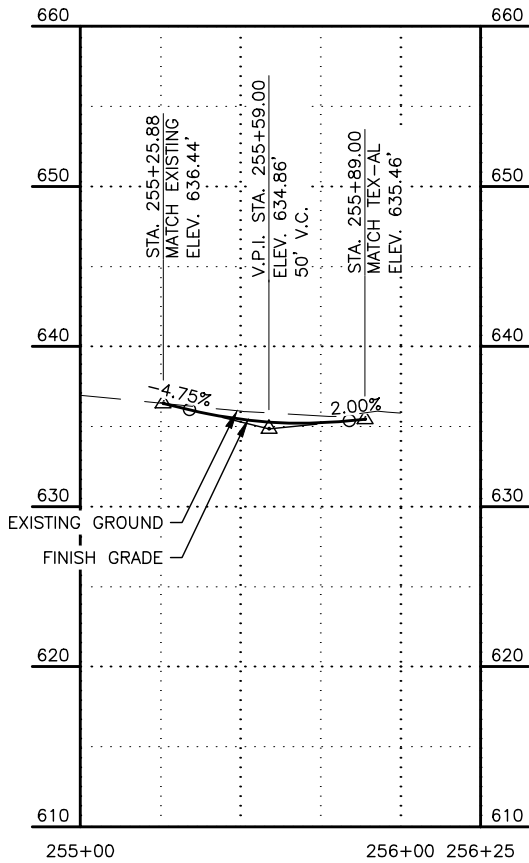
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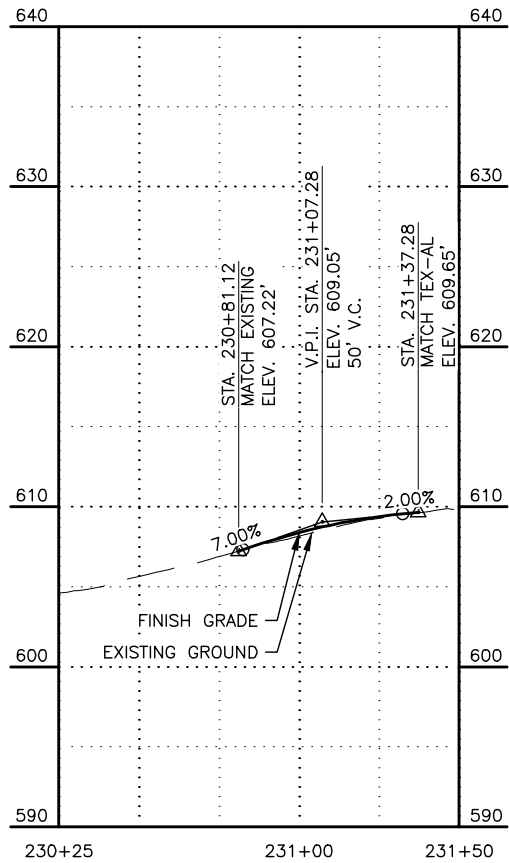
TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY
PLAN AND PROFILE
N ENGSTROM ROAD, N
COVINGTON STREET, E
WINDY WOODS LOOP, N
TRINITY VIEW DRIVE



E. ALPINE MEADOW DRIVE



E. STRAWBERRY CIRCLE



N. KETTLE DRIVE

SHEET NO.	TOTAL SHEETS
F27	F27
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
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PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

PLAN AND PROFILE

E ALPINE MEADOW DRIVE,
E STRAWBERRY CIRCLE,
AND N KETTLE DRIVE

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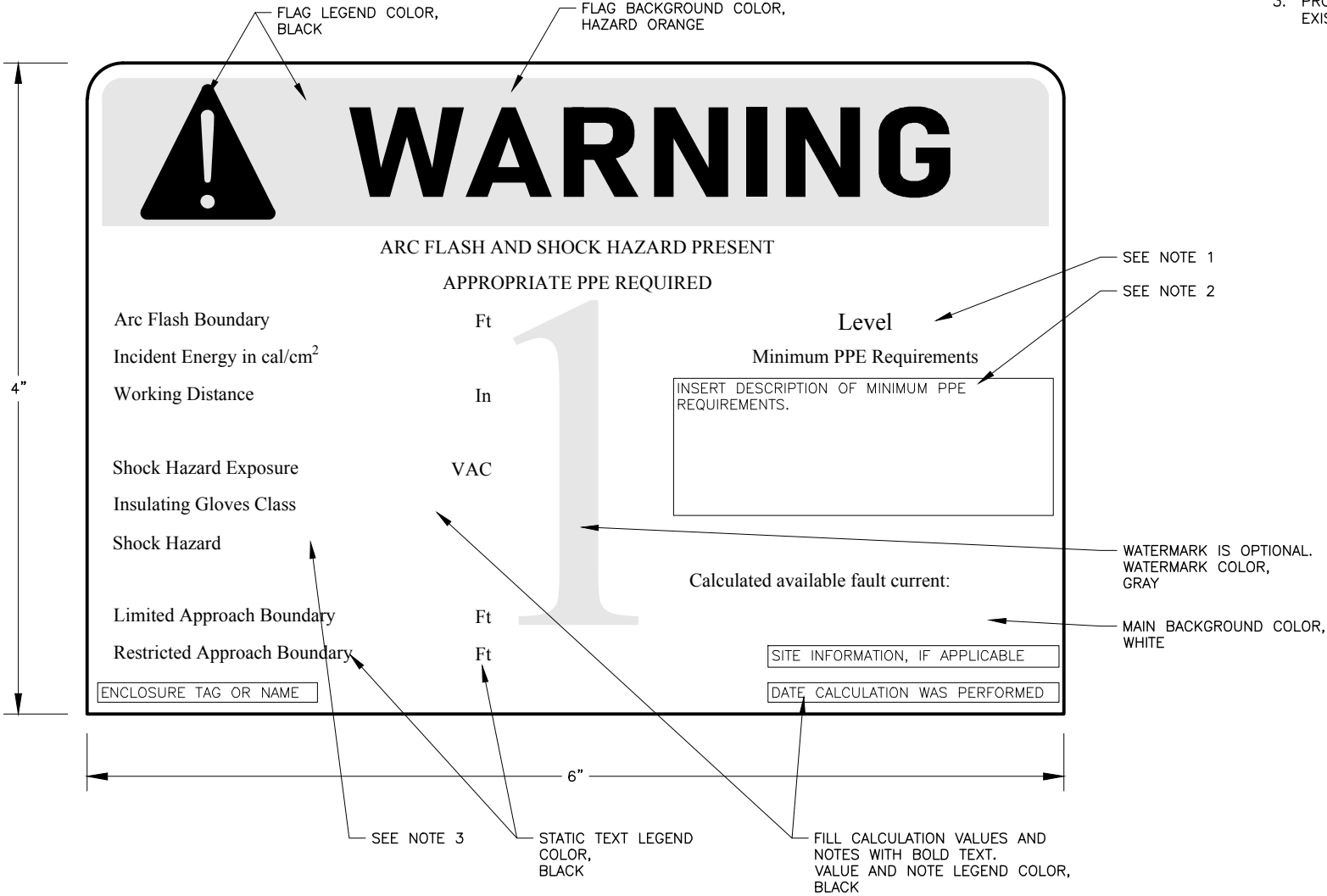
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	HI1	HI9

NOTES:

1. APPLICABLE STATE OF ALASKA DOT&PF ELECTRICAL EQUIPMENT MUST BE LABELED WITH DOT&PF-DEFINED SITE-SPECIFIC PPE LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(c). THE LEVELS ARE: LEVEL 1 (0 TO 4 CAL/CM²), 2 (4.1 TO 8.0 CAL/CM²), 3 (8.1 TO 25.0 CAL/CM²), 4 (25.1 TO 39.9 CAL/CM²), OR WP (WORK PROHIBITED, FOR EQUIPMENT IN WHICH THE CALCULATED ARC FLASH INCIDENT ENERGY IS ≥ 40 CAL/CM²).
2. MINIMUM PPE REQUIREMENTS FOR EACH PPE LEVEL DESCRIBED IN NOTE 1 ARE THE SAME REQUIREMENTS AS DESCRIBED IN NFPA 70E TABLE 130.7(C)(15)(c). THESE PPE REQUIREMENTS ARE TO BE USED AS THE SITE-SPECIFIC PPE LEVELS.
3. PROVIDE DESCRIPTION OF EQUIPMENT CONFIGURATIONS IN WHICH A HAZARD EXISTS. FOR EXAMPLE "WHEN COVER REMOVED."



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PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

ARC FLASH SCHOCK HAZARD
LABELING

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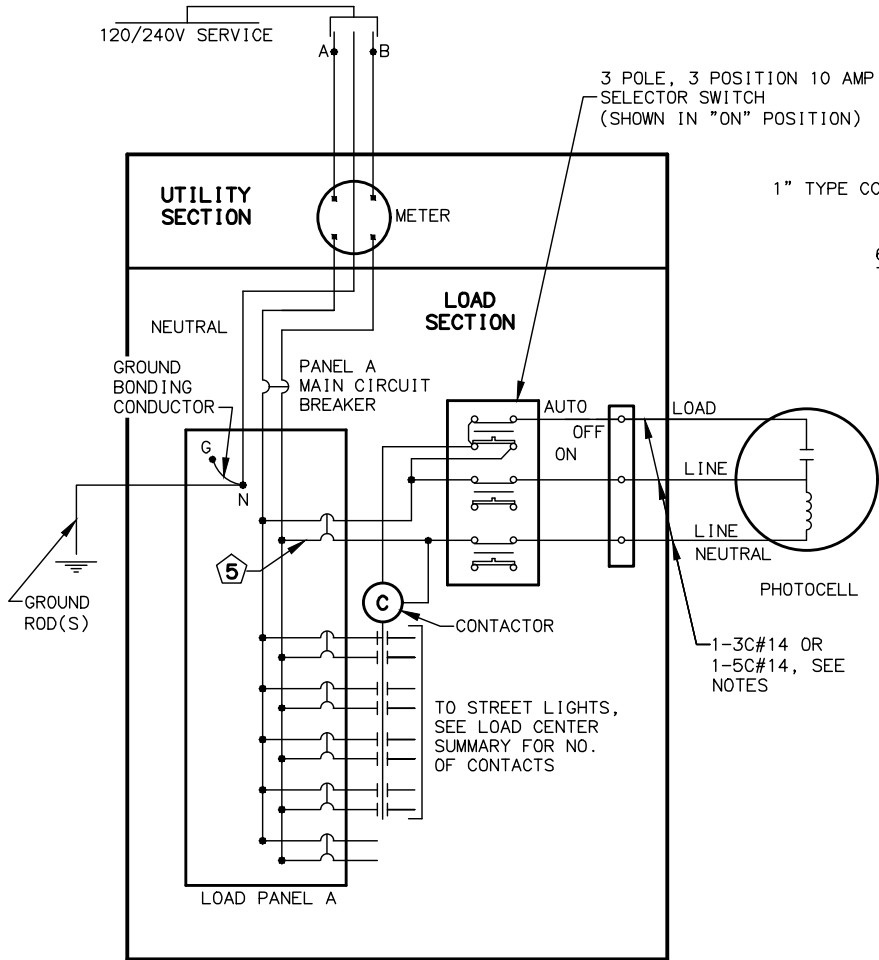
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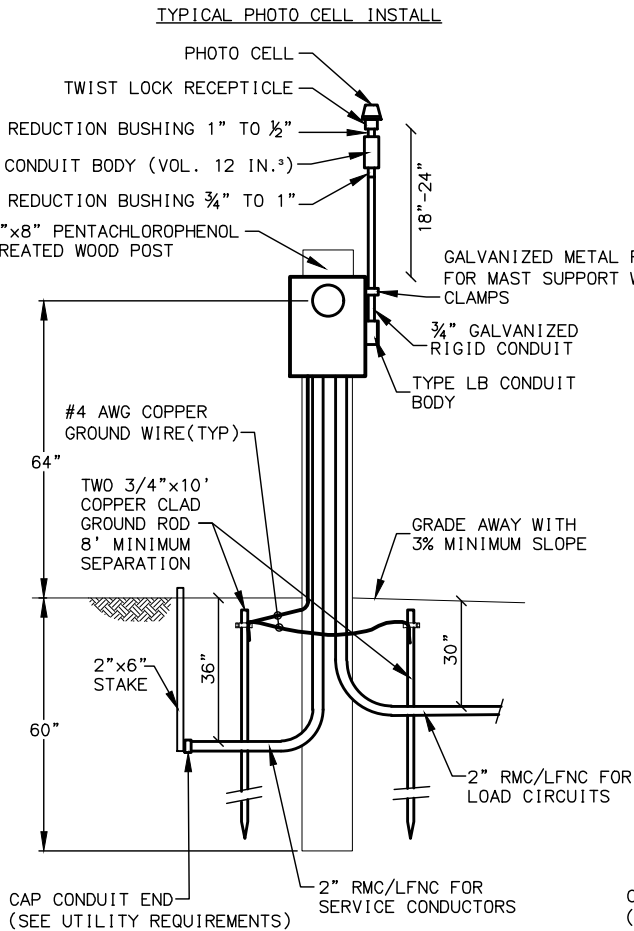
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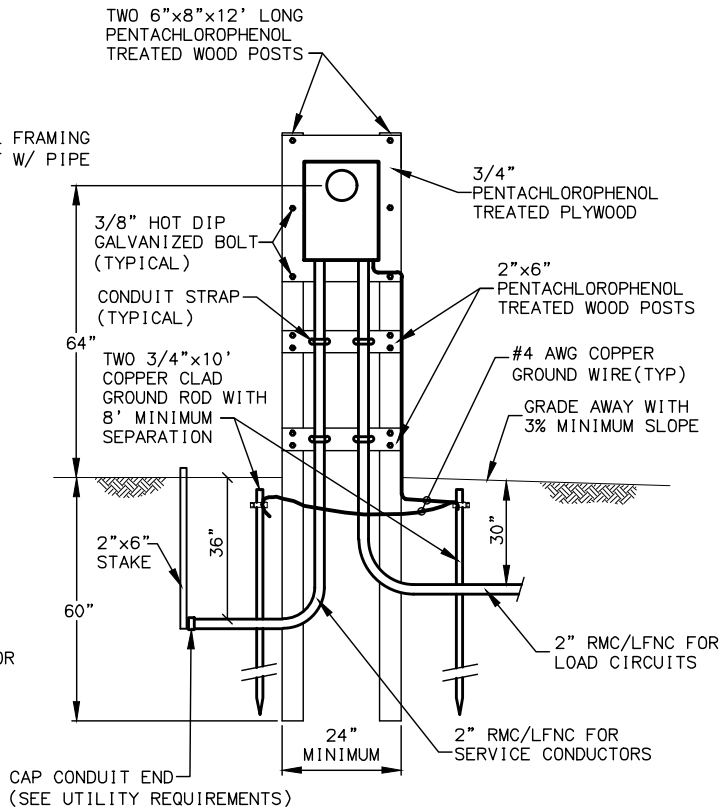
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			ALASKA	35472-1809	2024	H12	H19



LOAD CENTER ONE LINE DIAGRAM
AND SELECTOR SWITCH WIRING



TYPE 2 LOAD CENTER
SINGLE POST - STANDARD



TYPE 2 LOAD CENTER
DUAL POST - ALTERNATE

WIRING NOTES:

- FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL TWO-POLE CIRCUIT BREAKERS, IN EACH LOAD PANEL. SEE SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, SHORT CIRCUIT INTERRUPTING RATINGS, AND THE NAME OF THE SERVING UTILITY.
- SIZE THE TYPE 2 LOAD CENTER CABINET TO HOLD THE EQUIPMENT SHOWN IN THE WIRING DIAGRAM AND DETAILED IN EACH LOAD CENTER SUMMARY, ALLOWING SPACE FOR WIRING PER THE NATIONAL ELECTRICAL CODE. INSTALLING A METER BASE AND MAIN BREAKER IN A SEPARATE ENCLOSURE IS ALLOWABLE. HOWEVER IN THIS CASE, FURNISH A BREAKER PANEL WITH A MAIN BREAKER.
- LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
- THE VOLTAGE FOR THE PHOTOELECTRIC CONTROL EQUIPMENT SHALL BE 240-VOLT, DERIVED FROM THE SERVICE VOLTAGE, OR FROM A CONTROL TRANSFORMER.
- PROVIDE 1-POLE CIRCUIT BREAKER ON 240/480 VOLT LOAD CENTERS AND 2-POLE CIRCUIT BREAKER ON 120/240 VOLT LOAD CENTERS.
- LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION.
- MOUNT PHOTOCELL RECEPTACLE TO 1/2" CONDUIT WITH SILICONE SEALANT. INSTALL A 3C#14 CABLE FROM THE LOAD CENTER TO THE TYPE CC CONDUIT BODY WHERE THE SPLICE TO THE PHOTOCELL RECEPTACLE CABLE SHALL BE MADE. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER USE A 5C#14 CABLE FROM LOAD CENTER TO RECEPTACLE.
- STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST INCLUDING THE MANUFACTURERS' NAMES AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER.

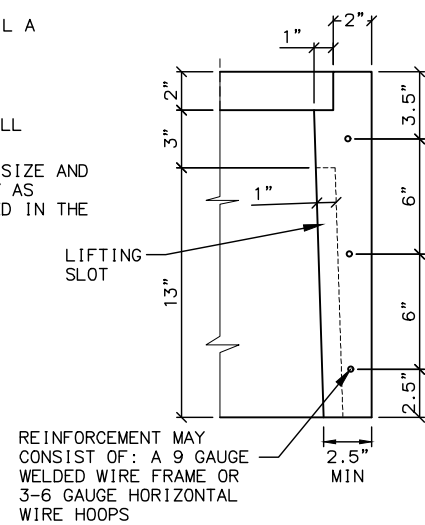
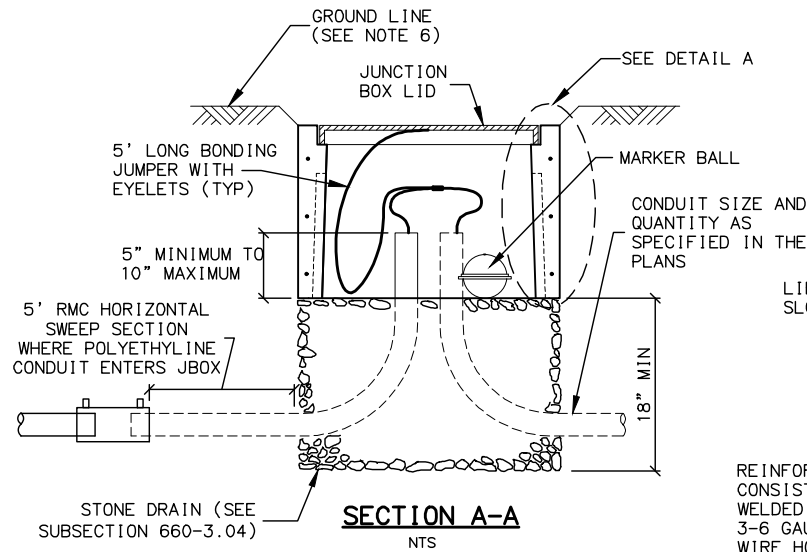
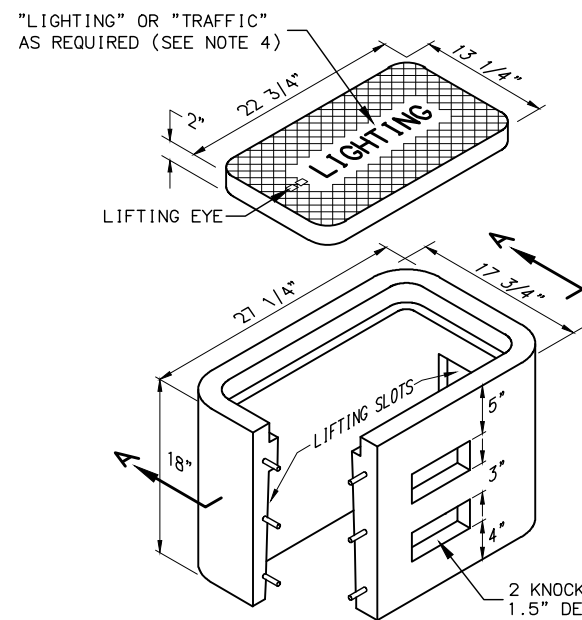
INSTALLATION NOTES:

- BACKFILL AROUND LOAD CENTER POSTS WITH SELECT MATERIAL.
- ATTACH ALL CONDUITS TO THE POSTS USING TWO HOLE RIGID METAL CONDUIT STRAPS LOCATED ON 24 INCHES MAXIMUM CENTERS.
- ATTACH ALL GROUND CONDUCTORS TO THE POSTS USING CABLE STAPLES LOCATED ON 12 INCH CENTERS. MAKE ALL GROUNDING CONDUCTORS CONTINUOUS. USE #4 AWG GROUND WIRE FOR 200 AMP SERVICE.

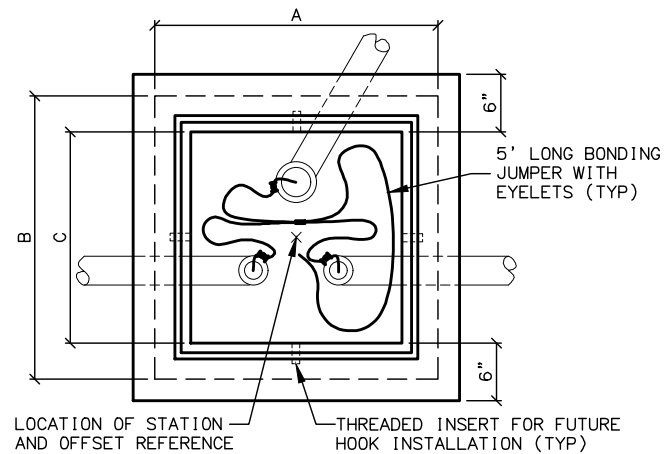
UTILITY REQUIREMENTS:

- USE THE SINGLE-POST TYPE 2 "STANDARD" LOAD CENTER IN ALL LOCATIONS EXCEPT WHERE THE SERVING UTILITY REQUIRES THE TWO-POST TYPE 2 "ALTERNATIVE" LOAD CENTER.
- THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT INSTALLED BY THE CONTRACTOR VARIES BY UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A PULL ROPE IN THE SERVICE CONDUIT AND A CAP ON THE BURIED END. MARK THE BURIED END WITH A 2"x6" STAKE. SEE THE LOAD CENTER SUMMARIES FOR THE FOLLOWING INFORMATION.
 - STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
 - WHERE THE CONTRACTOR TERMINATES THE SERVICE ENTRANCE CONDUIT.
 - THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).

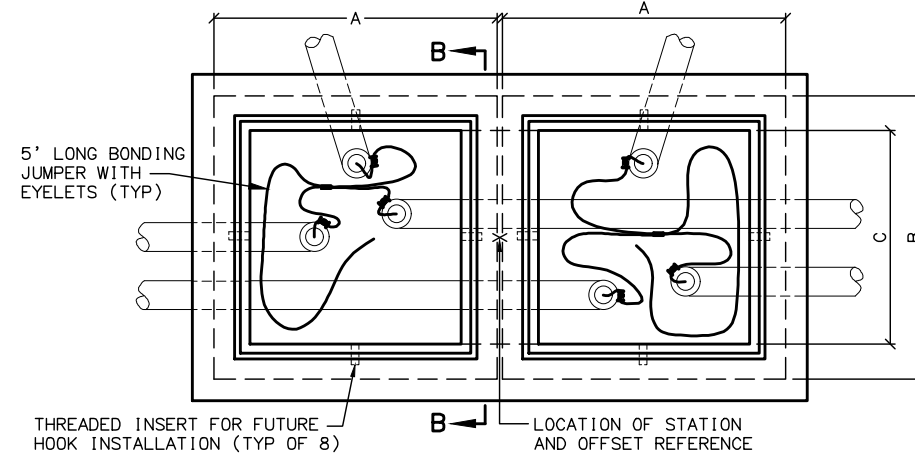
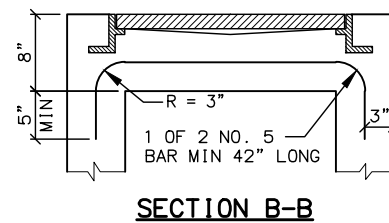
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			ALASKA	35472-1809	2024	HI3	HI9



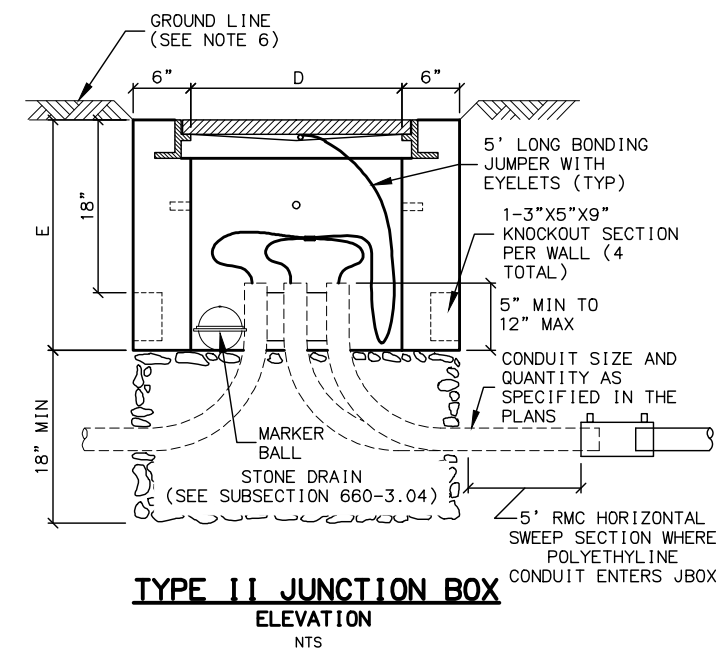
TYPE IA JUNCTION BOX



PLAN

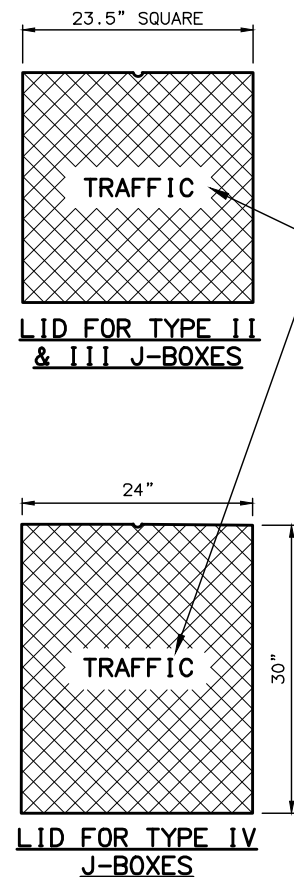


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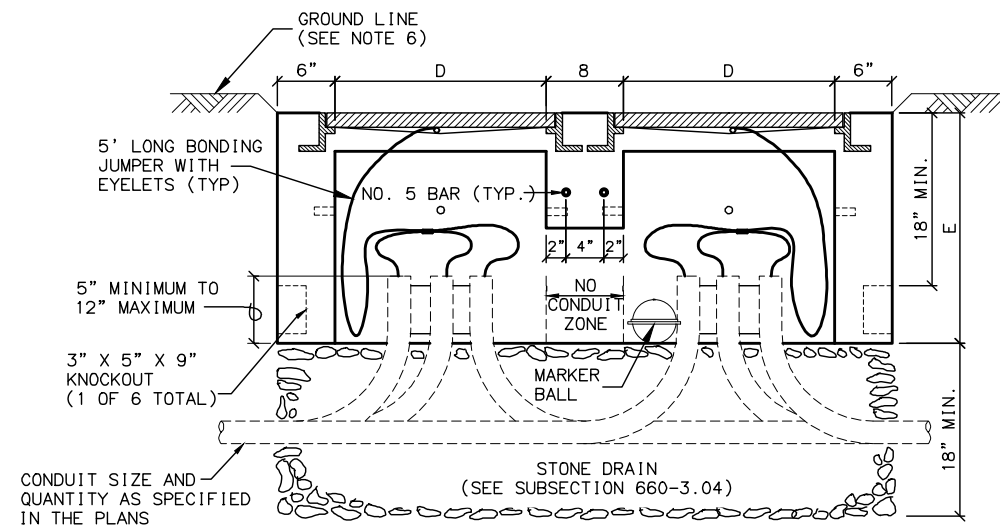
TYPE II JUNCTION BOX

ELEVATION
NTS



LID FOR TYPE IV
J-BOXES

"LIGHTING" OR "TRAFFIC"
— AS REQUIRED (SEE NOTE 4)



TYPE III/IV JUNCTION BOX
ELEVATION (TYPE III LAYOUT DEPICTED)

NOTES:

1. AVOID INSTALLING TYPE 3A JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660-3.04.
2. FURNISH TYPE 1I, 1II AND 1V JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE 1A JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE 1A JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER-REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
4. FOR JUNCTION BOXES THAT CONTAIN ILLUMINATION CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD "LIGHTING" INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD "TRAFFIC" INSCRIBED INTO THEM.
5. UNDER JUNCTION BOXES, INSTALL STONE DRAINS THAT CONSIST OF POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703-2.10.
6. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
 - 1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
 - 1/4" IN PEDESTRIAN FACILITIES
 - 2" IN ALL OTHER AREAS
7. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660-3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH BRASS OR STAINLESS STEEL HARDWARE.
8. INSTALL LOOP DETECTOR TAILS THROUGH ONE OF THE KNOCKOUTS OF TYPE 1A JUNCTION BOXES. AFTER SETTING THE BOXES TO GRADE, INSTALL GROUT IN THE GAPS THAT REMAIN IN THE KNOCKOUT.
9. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
10. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
11. PRIOR TO INSTALLATION MARK ALL JUNCTION BOX LOCATIONS WITH A WIRE STAFF VINYL FLAG. THE FLAG SHALL BE RED IN COLOR AND MINIMUM 4-INCHES TALL BY 5-INCHES WIDE. THE WIRE STAFF SHALL BE 21-INCHES IN LENGTH AND CONSTRUCTED OF MINIMUM 15.5 GAUGE STEEL.
12. WHERE MODIFIED TYPE 1I JUNCTION BOXES ARE REQUIRED FOR DETECTOR LOOP TAIL INSTALLATIONS, ADD ONE(1) ADDITIONAL 5" DEEP X 3" HIGH X 18" WIDE KNOCKOUT 12" BELOW TOP OF JUNCTION BOX.

J-BOX DIMENSIONS					
J-BOX TYPE	DIMENSIONS				
	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (MIN.)
II	29 1/2"	29 1/2"	22"	22"	24"
III	29 1/2"	29 1/2"	22"	22"	24"
IV	30"	36"	30"	24"	30"

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY**

JUNCTION BOX DETAILS

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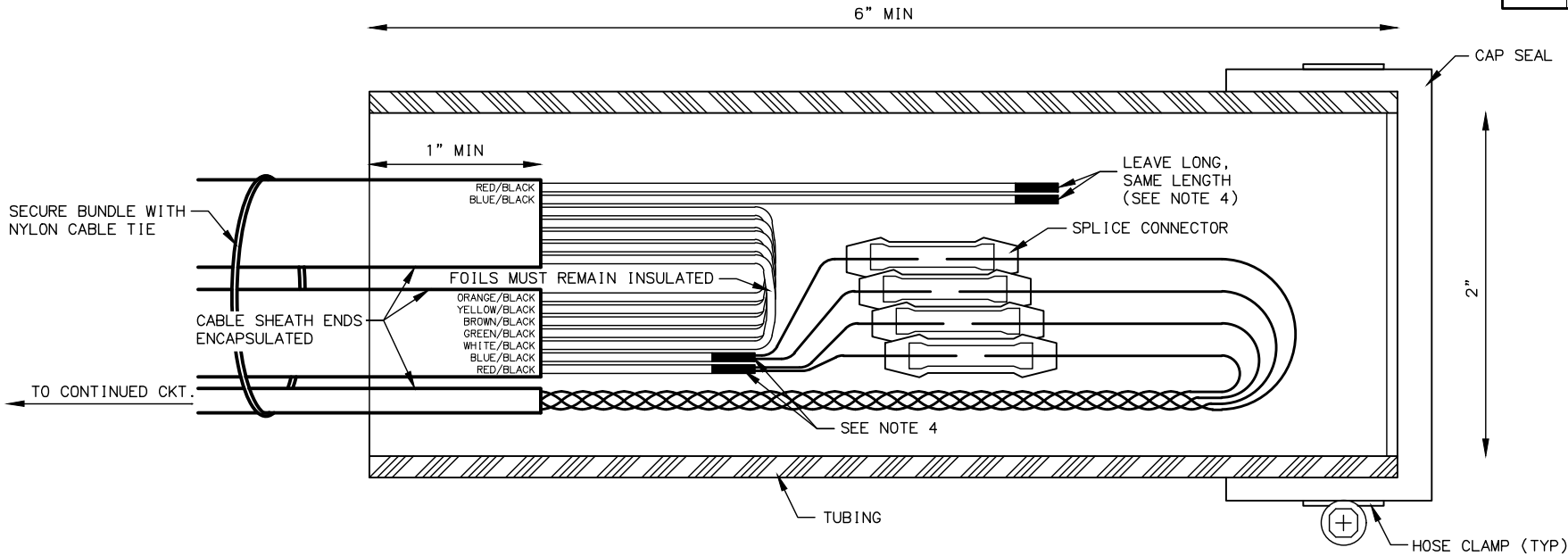
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H14

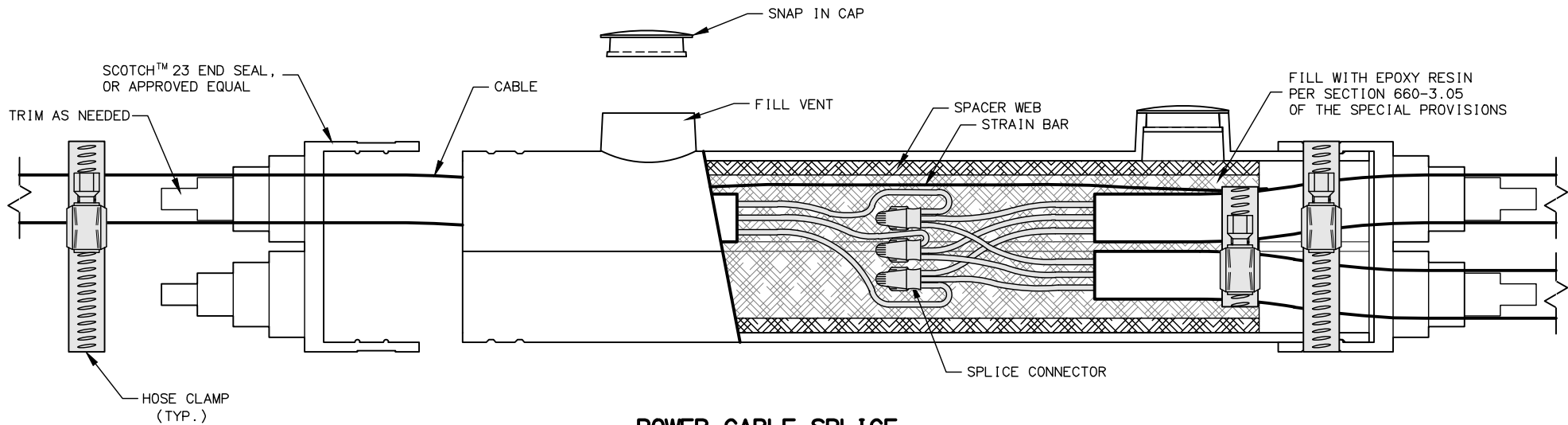
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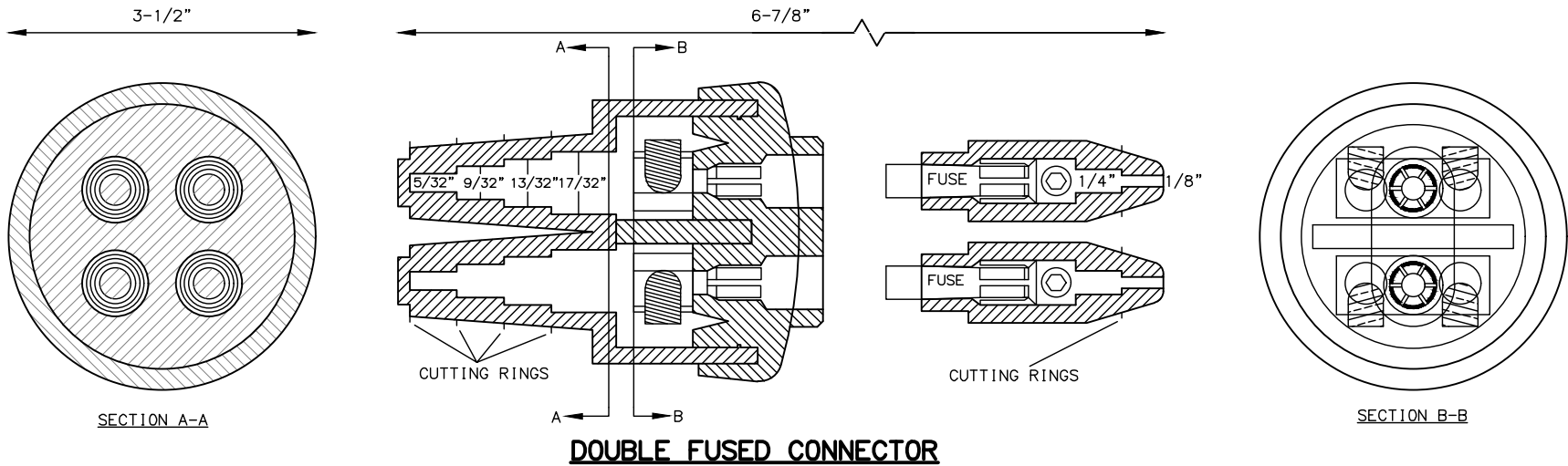
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	H14	H19



LOOP LEAD-IN SPLICE



POWER CABLE SPLICE



NOTES:

- LOOP LEAD-IN SPLICE
1. FABRICATE LOOP LEAD-IN SPLICE IN THE FIELD AS SHOWN.
 2. CAP SEAL ONE END AND COMPLETELY FILL OPEN END WITH RE-ENTERABLE ENCAPSULATION COMPOUND TO EDGE OF TUBING.
 3. LEAVE A MINIMUM OF 1/2" CLEARANCE BETWEEN THE ENCLOSURE AND THE SPLICE AT BOTH ENDS OF THE TUBING.
 4. EXPOSE FOIL AND DRAIN WIRES, SEAL WITH HEAT SHRINK TUBING (TYP).
 5. INSTALL SPLICE CONNECTORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- POWER CABLE SPLICE
6. SECURE CABLE/CONNECTOR BUNDLE WITH HOSE CLAMPS AS SHOWN.

MATERIAL PROPERTIES	
LOOP LEAD-IN SPLICE	
TUBING	PER SECTION 660-3.05
CAP SEAL	FERNCO QWIK CAP #QC-102, OR APPROVED EQUAL
HOSE CLAMP	STAINLESS STEEL
SPLICE CONNECTOR	ML56-16, OR APPROVED EQUAL
COMPOUND	RE-ENTERABLE ENCAPSULATION
POWER CABLE SPLICE	
SPLICE KIT	3M MODEL 78R, OR APPROVED EQUAL
SPLICE CONNECTOR	SCOTCHLOCK G, R, OR Y SPRING CONNECTOR, OR APPROVED EQUAL
HOSE CLAMP	(4)- STAINLESS STEEL
EPOXY RESIN	PER SECTION 660-3.05
DOUBLE FUSED CONNECTOR	
DOUBLE FUSED CONNECTOR	SEC-1791-DF-1, OR APPROVED EQUAL
FUSES	(2) - KTK TYPE CLASS CC 10-AMP

FILE J:\JOBS\DATA\20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\03 ELECTRICAL\20820.01_H07.DWG

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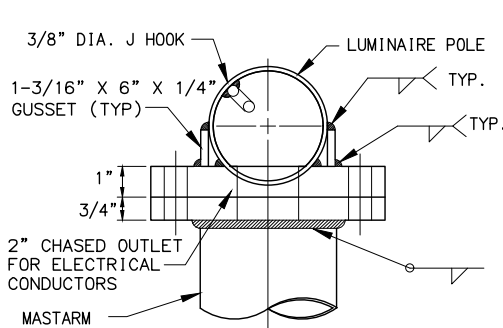
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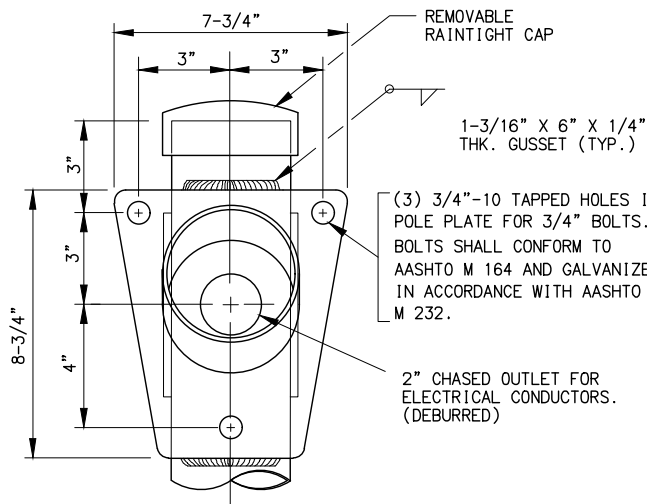
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			ALASKA	35472-1809	2024	HI5	HI9

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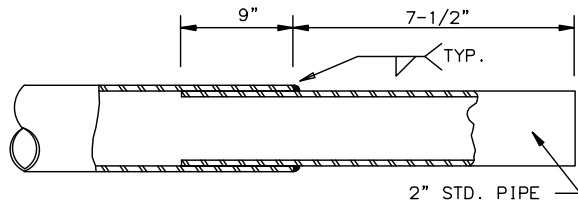
- DESIGN AND FABRICATE ALL SHAFTS TO SUPPORT A MASTARM 22 FEET LONG WITH LUMINAIRE. ASSUME EACH LUMINAIRE WEIGHS 55 POUNDS AND HAS AN EFFECTIVE PROJECTED AREA OF 1.2 SQUARE FEET. WITH THIS DEAD LOAD, LIMIT THE ANGULAR ROTATION TO THE POLE TOP 1°40'0" MAXIMUM.
- WELD SIZE TO BE DETERMINED BY THE MANUFACTURER.
- MOUNTING HEIGHT, IF SPECIFIED IN THE PLANS, REFERS TO THE HEIGHT OF LUMINAIRE ABOVE THE ROADWAY. ADJUST EACH POLE'S SHAFT LENGTH TO MAINTAIN THIS DIFFERENCE IN ELEVATION WHENEVER SLOPE AND/OR OFFSET VARIES.
- MINIMUM OUTSIDE DIAMETER AT THE TOP OF POLE EQUALS 3-7/8". POLE DIAMETER SHALL TAPER UNIFORMLY FROM THE TOP OF THE POLE TO THE BASE PLATE, WITH A MAXIMUM TAPER RATE OF 0.14" PER FOOT.
- APPLY AN ANTI-SEIZING COMPOUND TO ALL THREADED SURFACES, INCLUDING THOSE IN THE ANCHOR PLATE AND ON THE COUPLINGS.
- MASTARM RISE MAY VARY ±6" FROM THE VALUES LISTED IN THE TABLE.
- LOCATE THE HANDHOLD AT 90 DEGREES TO THE MASTARM ON THE SIDE OF POLE DOWNSTREAM FROM TRAFFIC FLOW.
- FURNISH ALL POLES WITH A J-HOOK TO SUPPORT THE ILLUMINATION TAP CONDUCTORS. FURNISH ALL MASTARM POLES WITH A REMOVABLE RAIN TIGHT CAP.
- MOUNT LIGHTING STANDARDS UPON TRANSPO MODEL NO. 5100 FRANGIBLE COUPLINGS AND TRANSPO TYPE B FEMALE ANCHORS, OR APPROVED EQUAL.
- INSTALL ALL COMPONENTS OF THE BREAKAWAY SUPPORT SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- FABRICATE THE SKIRT FROM FOUR PIECES OF 1/16" THICK 3003 H-14 ALUMINUM SHEET. BEND EACH PLATE TO PROVIDE CORNERS WITH A 3/4" RADIUS. ASSEMBLE THE SKIRT WITH #10 X 3/8" SELF TAPPING STAINLESS SCREWS OR POP RIVETS. THE ASSEMBLED SKIRT MEASURES ABOUT 12-3/4" SQUARE.
- A JUNCTION BOX IS REQUIRED AT EACH NEW ELECTROLIER. INSTALL THE JUNCTION BOX IMMEDIATELY BEHIND THE FOUNDATION APPROXIMATELY 7' FROM POLE UNLESS OTHERWISE SPECIFIED IN THE PLANS.



TOP VIEW



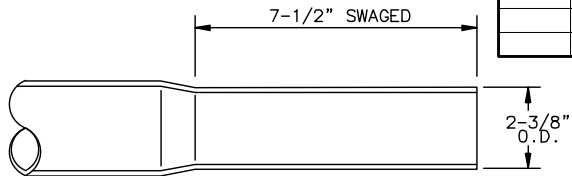
FRONT VIEW



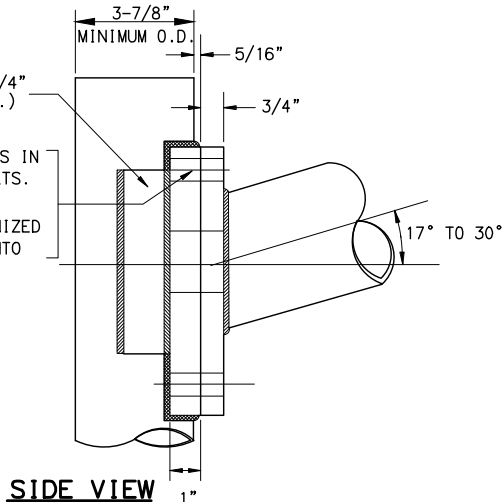
TENON

END OF MASTARM DETAIL

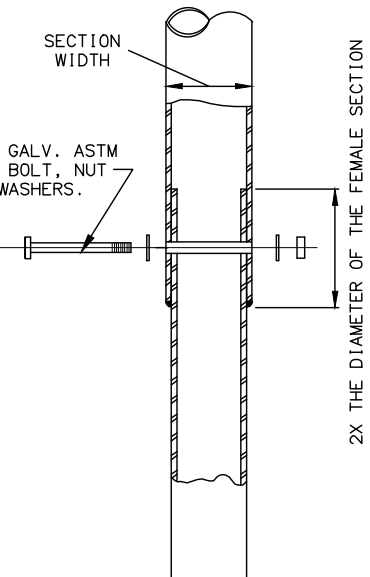
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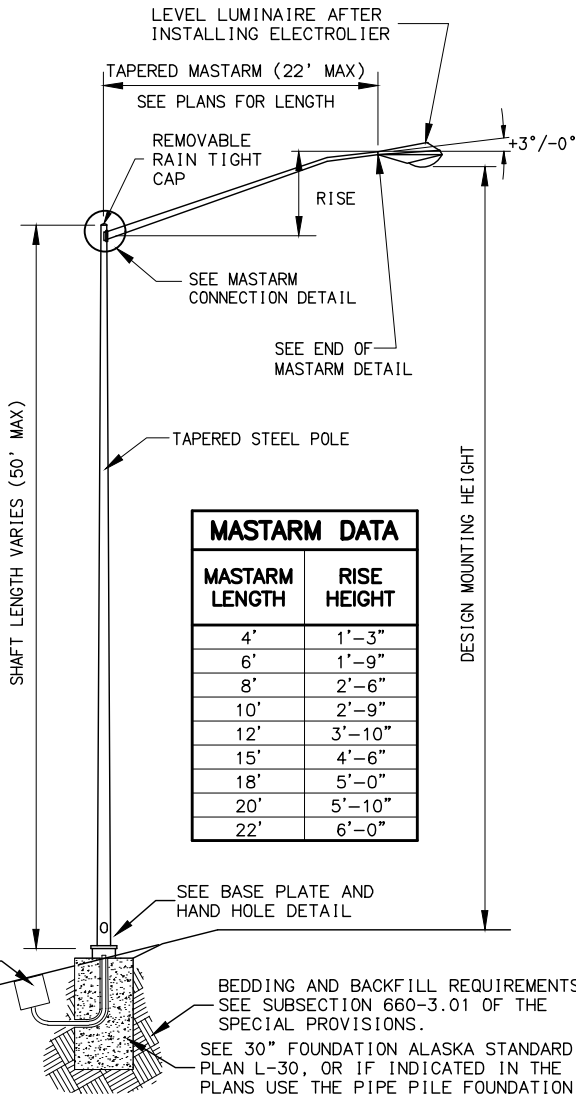
OPTIONAL SWAGED TENON



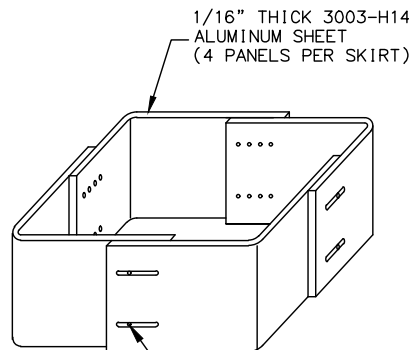
SIDE VIEW



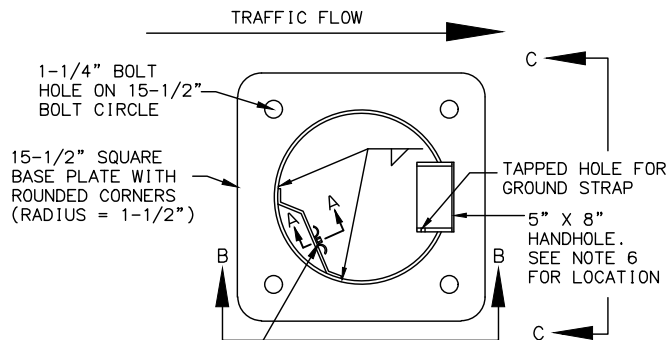
POLE CONNECTION DETAIL



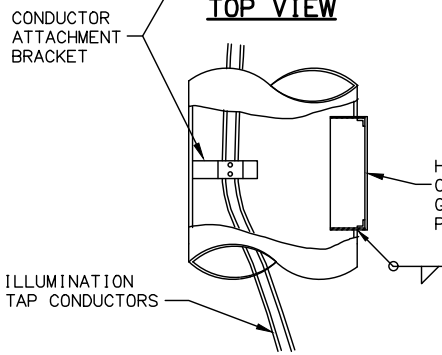
ELECTROLIER ELEVATION



SKIRT DETAIL

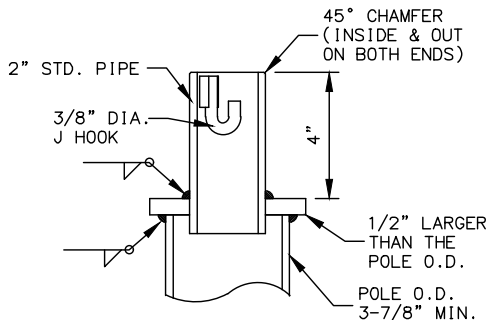


TOP VIEW



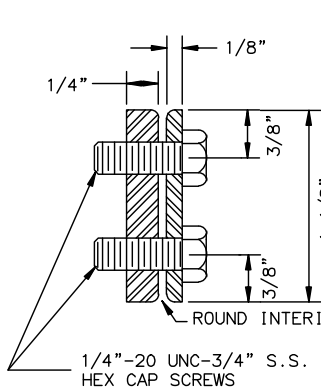
SIDE VIEW

BASE PLATE AND HAND HOLE DETAIL

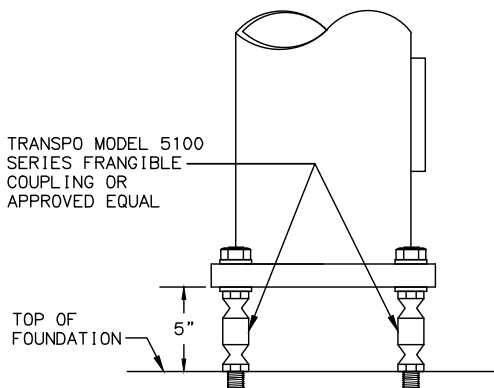


OFFSET LIGHTING
STANDARD POLE TOP DETAIL

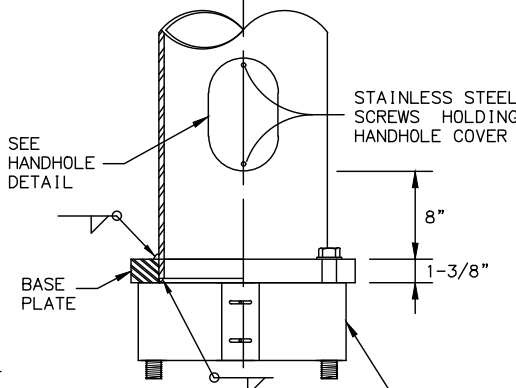
(CUTAWAY FOR CLARITY)



SECTION A-A



VIEW B-B



VIEW C-C

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD., SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

LIGHTING DETAILS

FILE J:\JOBS\DATA\20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\03 ELECTRICAL\20820.01_H08.DWG

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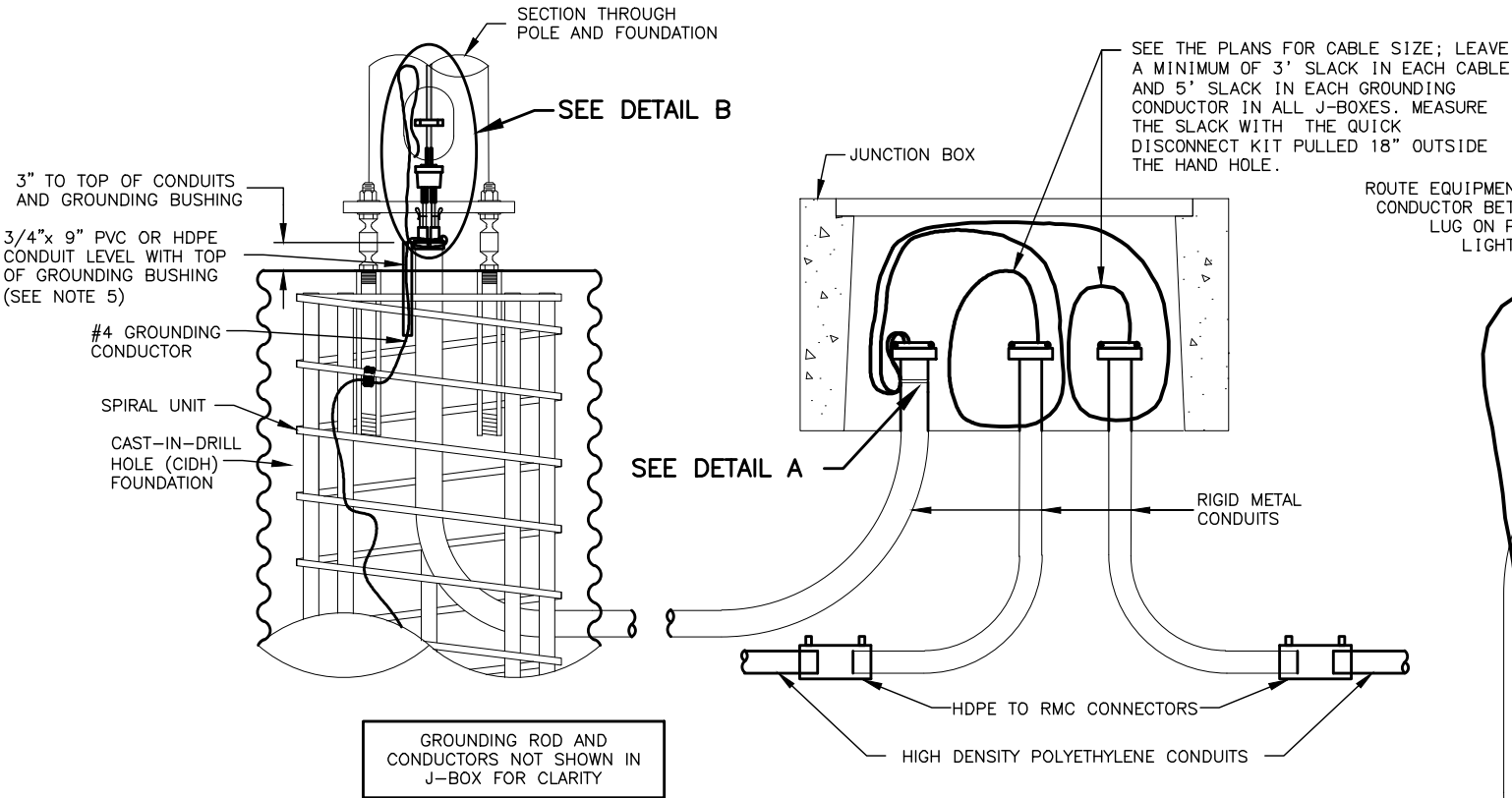
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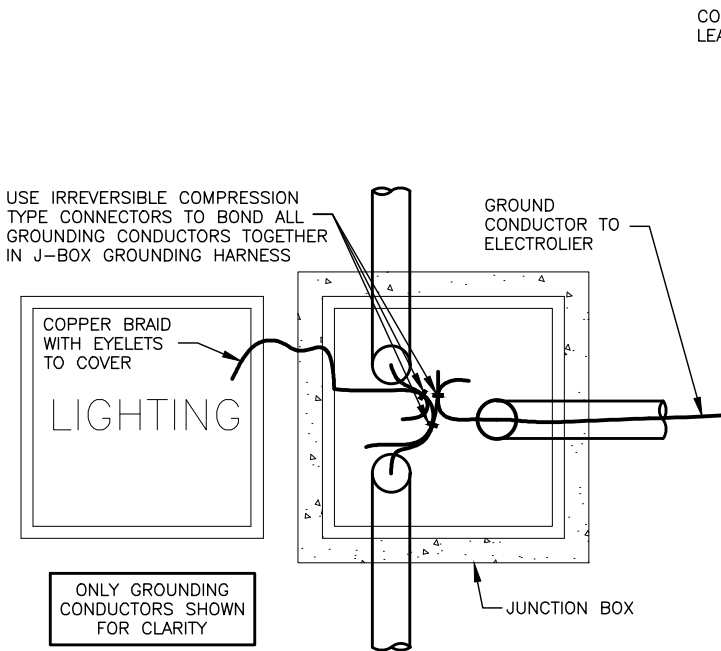
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	H16	H19

NOTES:

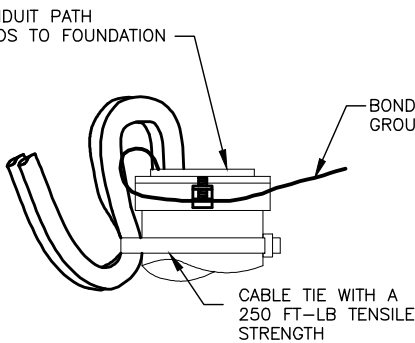
- APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SSHC SUBSECTION 660-3.06 FOR BONDING.
- LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX. SEE SSHC SUBSECTION 660-3.05.
- MAKE ALL GROUNDING AND BONDING WIRE #8 AWG, EXCEPT IN THOSE CONDUITS THAT CONTAIN CIRCUIT CONDUCTORS LARGER THAN #8 AWG. IN THIS CASE USE WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR. THE GROUNDING CONDUCTOR TO THE FOUNDATION SHALL BE #4 AWG.
- USE LISTED IRREVERSIBLE COMPRESSION TYPE CONNECTORS SIZED FOR EACH APPLICATION AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- PROTECT GROUND WIRE WITH 3/4 INCH PVC OR HDPE CONDUIT TO 6 INCHES BELOW TOP OF FOUNDATION AND FILLED WITH SILICONE SEALANT.
- PROVIDE 5' OF RMC BETWEEN RMC SWEEP AND HDPE TO RMC CONNECTORS IF TRANSITIONING TO HDPE CONDUIT.



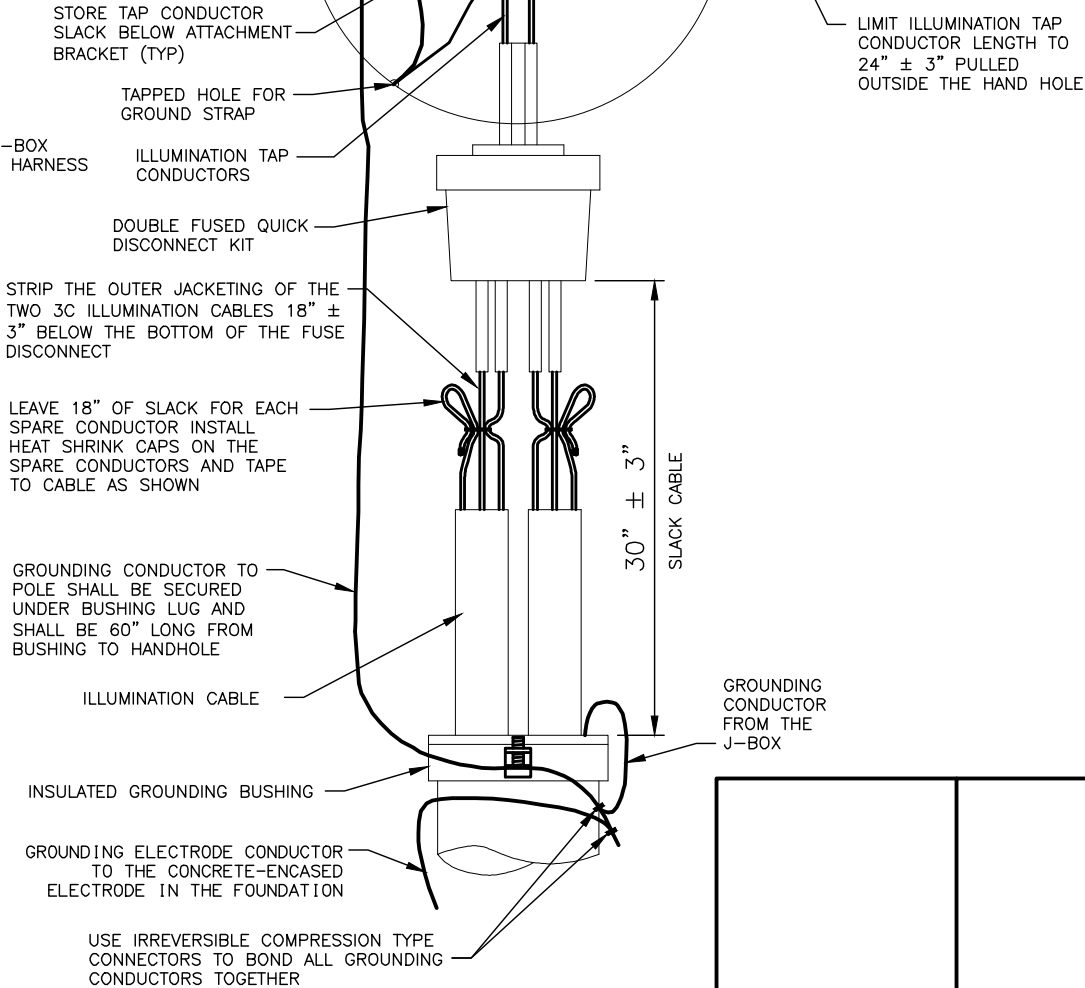
LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



GROUNDING CONDUCTOR BONDING CONNECTIONS



DETAIL A



DETAIL B

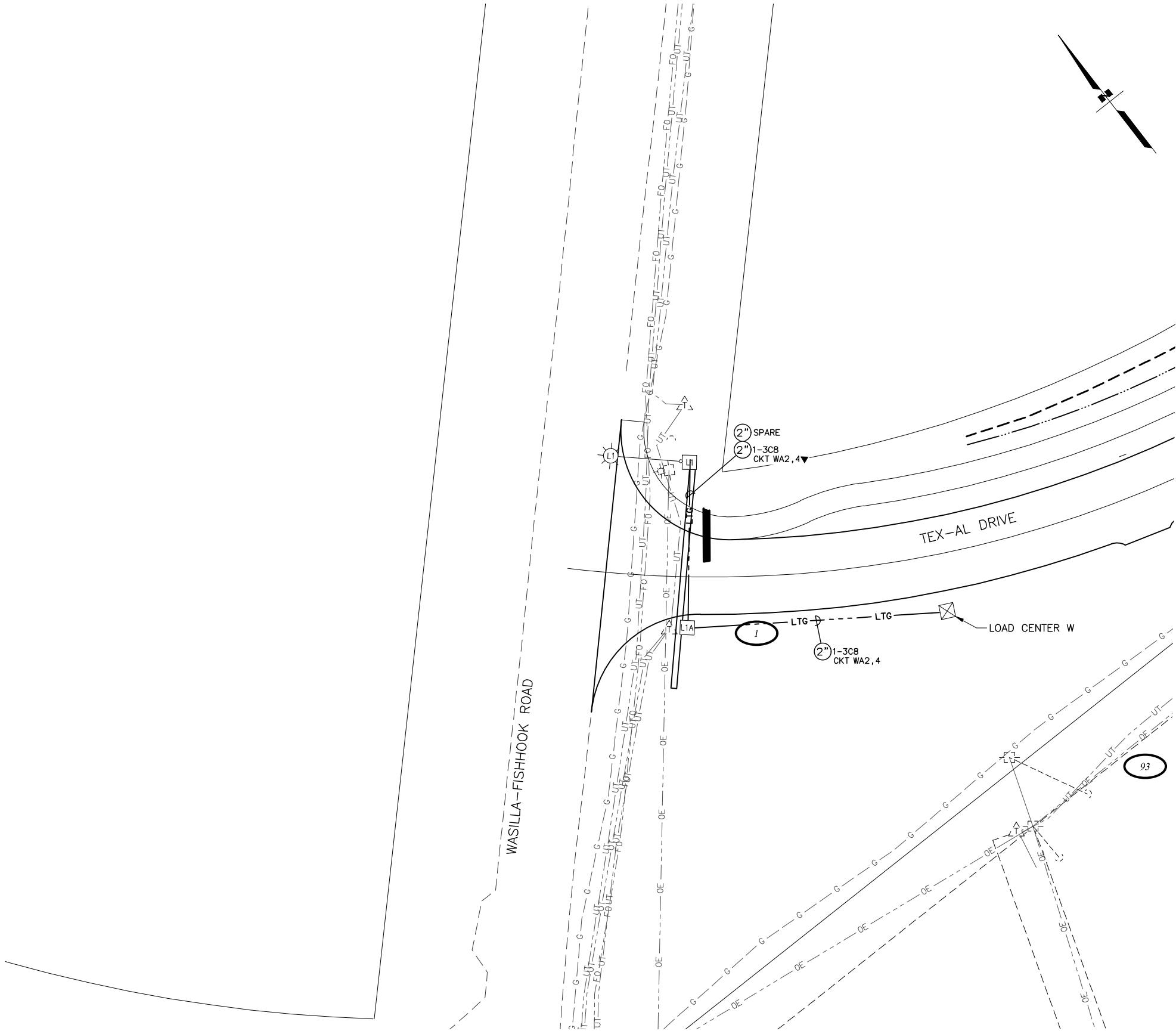
CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
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(907) 562-3252
#AECL882-AK

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

CAST-IN-DRILL-HOLE
FOUNDATION POLE WIRING &
GROUNDING DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	HI7	HI9



WASILLA-FISHHOOK RD / TEX-AL DR INTERSECTION
ILLUMINATION PLAN

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD., SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

WASILLA-FISHHOOK RD &
TEX-AL DR INTX ILLUMINATION
PLAN

DESIGNED BY
CHECKED BY
DRAFTED BY

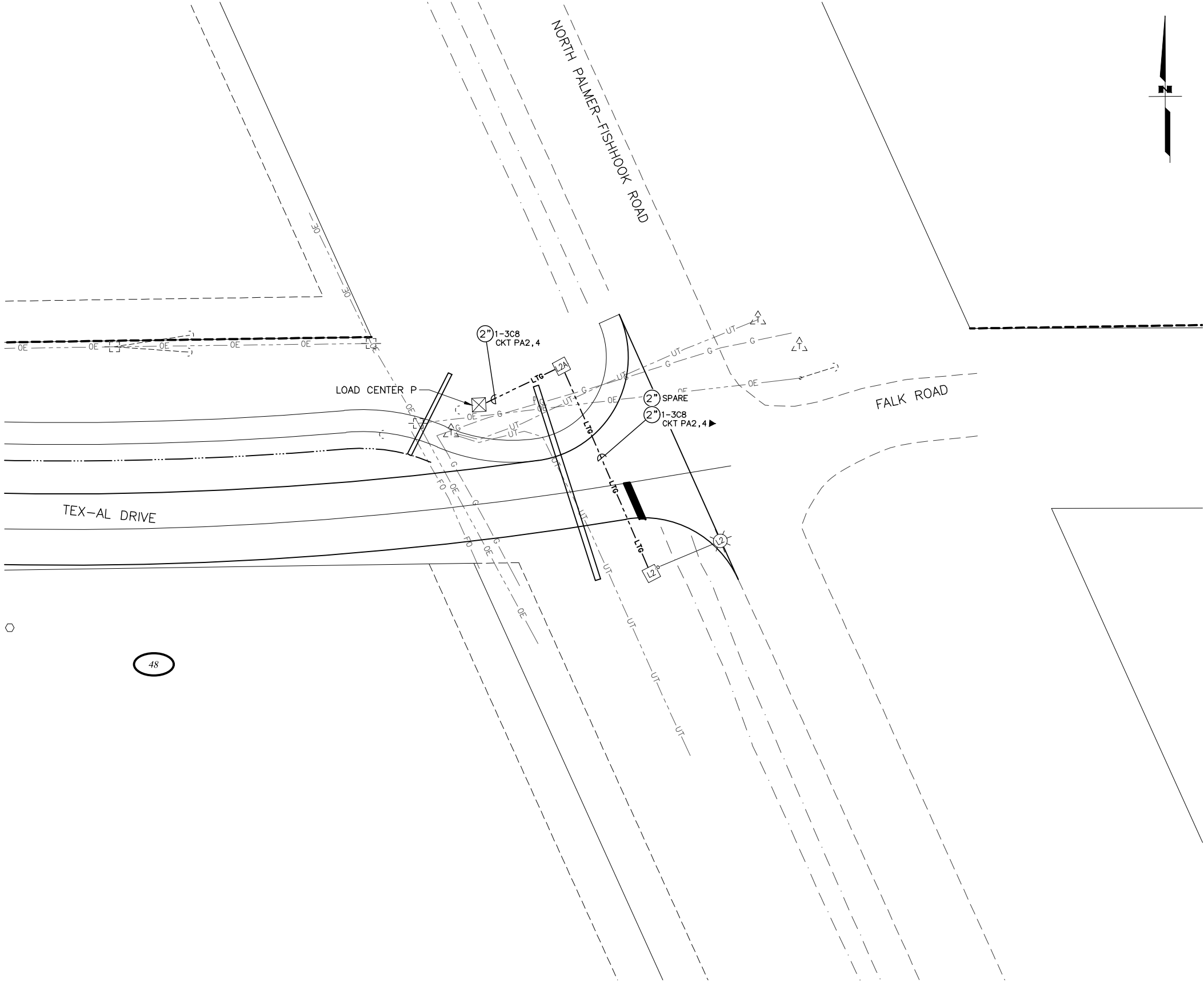
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8/8/2024

TIME
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	HI8	HI9



NORTH PALMER-FISHHOOK RD / TEX-AL DR INTERSECTION
ILLUMINATION PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

N PALMER-FISHHOOK RD &
TEX-AL DR INTX
ILLUMINATION PLAN

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD., SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

SUMMARY OF LOAD CENTER: P									
LOAD CENTER TYPE: 1I (DUAL POST)									
MAINTAINED BY : MSB									
SERVING UTILITY: MATANUSKA ELECTRIC ASSOCIATION									
SERVICE CONDUIT TYPE: LIQUIDTIGHT FLEXIBLE METAL CONDUIT									
LOCATION DATA									
LOCATION DATA: TEX-AL DRIVE, STA 167+76.0, 35.5' LT									
POWER SOURCE: TEX-AL DRIVE, STA 167+52.0, 32.0' LT									
CONTROL: NEW PHOTOELECTRIC CONTROL ON CABINET									
SERVICE VOLTAGE: 1 PHASE, 3 WIRE, 120/240V AC WITH GROUNDED NEUTRAL									
PROVIDE METER SOCKET: YES									
A.I.C. RATING: 10,000 AMPS									
MAIN BREAKER: 240 VOLT, 2 POLE, 100 AMP									
CONTACTOR: 600 V, 8-POLE, 30 AMP									
PANEL A LOAD SCHEDULE									
POLE	AMP TRIP	DESCRIPTION	POLE KVA	Aφ	Bφ	POLE KVA	DESCRIPTION	AMP TRIP	POLE
1	15/2	P.E. CONTROL	0.1	0.2		0.1	LUMINAIRE L2	20/2	2*
3			0.1		0.2	0.1			4*
5	20/2	SPARE	0.0	0.0		0.0	SPARE	20/2	6*
7			0.0		0.0	0.0			8*
9			0.0	0.0		0.0			10
11			0.0		0.0	0.0			12
13			0.0	0.0		0.0			14
15			0.0		0.0	0.0			16
				0.2	0.2				
* CIRCUIT THROUGH CONTACTOR								TOTAL KVA =	0.4
								TOTAL AMPS =	1.7

VOLTAGE DROP CALCULATION - LC P							
1-PH, 2W CONFIGURATION, POWER-FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN RMC. TEMPERATURE RATING 75°C.							
CKT#	SIZE (AWG)	LENGTH (FT)	VOLTAGE	POWER FACTOR	LOAD (KVA)	TOTAL (AMPS)	%VD
PA2,4	8	125	240	0.9	0.2	0.97	0.07%

SHORT CIRCUIT CALCULATION - LC P	
240V AC IN A 1-PH, 3W CONFIGURATION, POWER-FACTOR OF 0.9, 1 COPPER WIRE PER PHASE IN A CONDUIT. TEMPERATURE RATING 75°C.	
TRANSFORMER RATING	XXKVA
VOLTAGE	
TRANSFORMER IMPEDANCE	
PASS-THRU SHORT CIRCUIT	
10 FAULT	30FT
CONDUCTOR SIZE	1/0 AWG AL
SERVICE CONDUIT	LFMC
MAX FAULT CURRENT	A

ARC FLASH AND SHOCK HAZARD - LC P	
ARC FLASH BOUNDARY	INCHES
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	
SHOCK HAZARD	
INSULATION	00
WHEN DOOR OPEN	
PROACH	42 INCHES
RESTRICTED APPROACH	12 INCHES
CALCULATED DATE	

SUMMARY OF LOAD CENTER: W									
LOAD CENTER TYPE: 1I (DUAL POST)									
MAINTAINED BY : MSB									
SERVING UTILITY: MATANUSKA ELECTRIC ASSOCIATION									
SERVICE CONDUIT TYPE: LIQUIDTIGHT FLEXIBLE METAL CONDUIT									
LOCATION DATA									
LOCATION DATA: TEX-AL DRIVE, STA 11+29.3, 20.0' RT									
POWER SOURCE: TEX-AL DRIVE, STA 11+41.3, 100.0' RT									
CONTROL: NEW PHOTOELECTRIC CONTROL ON CABINET									
SERVICE VOLTAGE: 1 PHASE, 3 WIRE, 120/240V AC WITH GROUNDED NEUTRAL									
PROVIDE METER SOCKET: YES									
A.I.C. RATING: 10,000 AMPS									
MAIN BREAKER: 240 VOLT, 2 POLE, 100 AMP									
CONTACTOR: 600 V, 8-POLE, 30 AMP									
PANEL A LOAD SCHEDULE									
POLE	AMP TRIP	DESCRIPTION	POLE KVA	Aφ	Bφ	POLE KVA	DESCRIPTION	AMP TRIP	POLE
1	15/2	P.E. CONTROL	0.1	0.2		0.1	LUMINAIRE L1	20/2	2*
3			0.1		0.2	0.1			4*
5	20/2	SPARE	0.0	0.0		0.0	SPARE	20/2	6
7			0.0		0.0	0.0			8
9			0.0	0.0		0.0			10
11			0.0		0.0	0.0			12
13			0.0	0.0		0.0			14
15			0.0		0.0	0.0			16
				0.2	0.2				
* CIRCUIT THROUGH CONTACTOR								TOTAL KVA =	0.4
								TOTAL AMPS =	1.7

VOLTAGE DROP CALCULATION - LC W							
1-PH, 2W CONFIGURATION, POWER-FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN RMC. TEMPERATURE RATING 75°C.							
CKT#	SIZE (AWG)	LENGTH (FT)	VOLTAGE	POWER FACTOR	LOAD (KVA)	TOTAL (AMPS)	%VD
WA2,4	8	150	240	0.9	0.2	0.83	0.08%

SHORT CIRCUIT CALCULATION - LC W	
240V AC IN A 1-PH, 3W CONFIGURATION, POWER-FACTOR OF 0.9, 1 COPPER WIRE PER PHASE IN A CONDUIT. TEMPERATURE RATING 75°C.	
TRANSFORMER RATING	XXKVA
VOLTAGE	
TRANSFORMER IMPEDANCE	
PASS-THRU SHORT CIRCUIT	
10 FAULT	110FT
CONDUCTOR SIZE	1/0 AWG AL
SERVICE CONDUIT	LFMC
MAX FAULT CURRENT	A

ARC FLASH AND SHOCK HAZARD - LC W	
ARC FLASH BOUNDARY	INCHES
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	
SHOCK HAZARD	
INSULATION	00
WHEN DOOR OPEN	
PROACH	42 INCHES
RESTRICTED APPROACH	12 INCHES
CALCULATED DATE	

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	HI9	HI9

1. PROVIDE ARC FLASH WARNING LABELS PER SHEET HI1 WITH INCIDENT ENERGY VALUES AND PERSONAL PROTECTIVE EQUIPMENT (PPE) ON EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.16 AND NFPA 70E. CALCULATED VALUES SHOWN IN ARC FLASH AND SHOCK HAZARD TABLES.
2. CONTACT ENGINEER TO VERIFY VALUES BEFORE ORDERING LABELS.

ROADWAY LUMINAIRE CRITERIA	
MANUFACTURER	COOPER OR APPROVED EQUAL
MODEL	VERD-M-CA3-150-730-U-T3-AP-PR7 OR APPROVED EQUAL
WATTAGE	150
LIGHT SOURCE	LED
VOLTAGE	120-277
PE CONTROL	ANSI C136.41 7-PIN
PE SENSOR	YES
MOUNTING	HORIZONTAL TENON
HOUSING ENTRY TYPE	TOOL-LESS
FIXTURE COLOR	GRAY
IES DISTRIBUTION TYPE	TYPE III, MEDIUM
POWER FACTOR	0.9
UL LISTED	YES
CCT	3000K
CRI	70 MINIMUM
INITIAL LUMENS	21,776

ROADWAY LUMINAIRE PERFORMANCE CRITERIA	
CHARACTERISTICS	
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	ANSI/IES RP-8-14, ILLUMINANCE FOR ISOLATED INTERSECTION
ROAD CLASSIFICATION	MAJOR / COLLECTOR
NUMBER OF LANES	2
LANE WIDTH	12 FEET
ROADWAY WIDTH	VARIES
MOUNTING HEIGHT	40'
SPACING	VARIES
ILLUMINANCE CRITERIA	
AVERAGE INITIAL ILLUMINANCE 0.9 FC (TARGET)	1.2 FC (PALMER FISHHOOK RD/TEX-AL DR) 1.2 FC (WASILLA FISHHOOK RD/TEX-AL DR)
UNIFORMITY RATIO (AVG./MIN.) 3.0:1 (TARGET)	2.9:1 (PALMER FISHHOOK RD/TEX-AL DR) 2.9:1 (WASILLA FISHHOOK RD/TEX-AL DR)

JUNCTION BOX SCHEDULE - ROADWAY LIGHTING			
J-BOX NO	STATION	OFFSET	TYPE
L1A	10+42.5	18.00 RT	1A
L1	10+42.0	40.00 LT	1A
L2A	168+08.5	45.50 LT	1A
L2	168+29.0	34.00 RT	1A

ELECTROLIER SCHEDULE										
POLE NO	CIRCUIT NO	STATION	OFFSET	LIGHT DISTRIBUTION TYPE	LAMP WATTS	VOLTAGE	TYPE	MOUNTING HEIGHT (FT)	SHAFT LENGTH (FT)	MAST ARM LENGTH (FT)
L1	WA2,4	10+38.5	40.00 LT	MEDIUM, CUTOFF, TYPE 3	150	240	LED	40.0	34.50	22
L2	PA2,4	168+31.5	32.00 RT	MEDIUM, CUTOFF, TYPE 3	150	240	LED	40.0	34.50	22

DRAWING LOCATION
U:\JOBS\DATA\20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\01 CIVIL\02 DESIGN\20820.00_H01-H11_SIGNING AND STRIPING.DWG

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
N/A

DATE
8/11/2024

TIME
3:49 PM

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	HS1	HS15

TO BE COMPLETED AT NEXT SUBMITTAL

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL882-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING & STRIPING DETAILS

DRAWING LOCATION
J:\JOBS\DATA\20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\01 CIVIL\02 DESIGN\20820.00_H01-H11_SIGNING AND STRIPING.DWG

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
N/A

DATE
8/11/2024

TIME
3:49 PM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	HS2	HS15

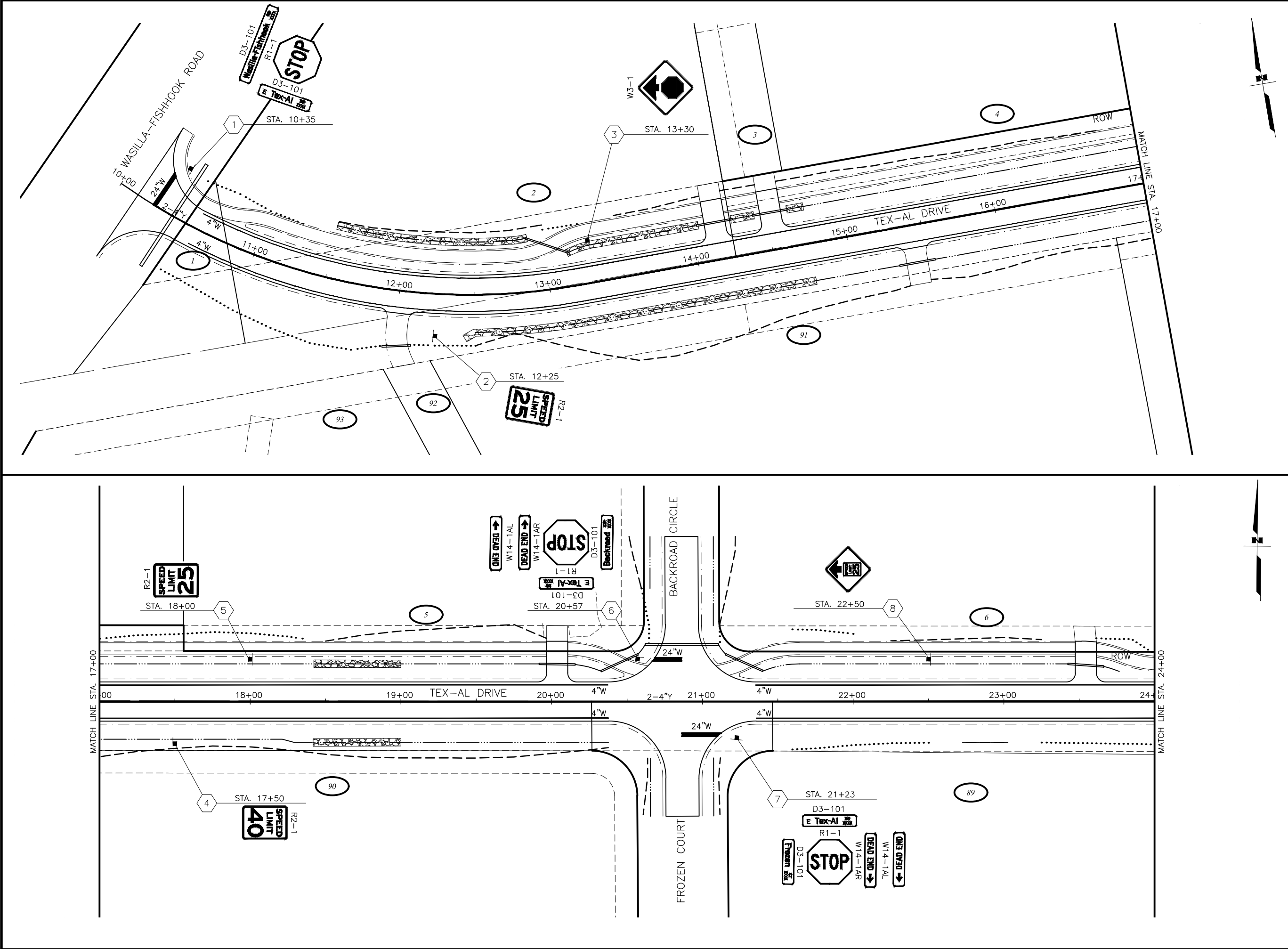
TO BE COMPLETED AT NEXT SUBMITTAL

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING & STRIPING DETAILS



SHEET NO.
HS3

TOTAL SHEETS
HS15

STATE
ALASKA

YEAR
2024

PROJECT DESIGNATION
35472-1809

NO.	REVISION

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

N ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

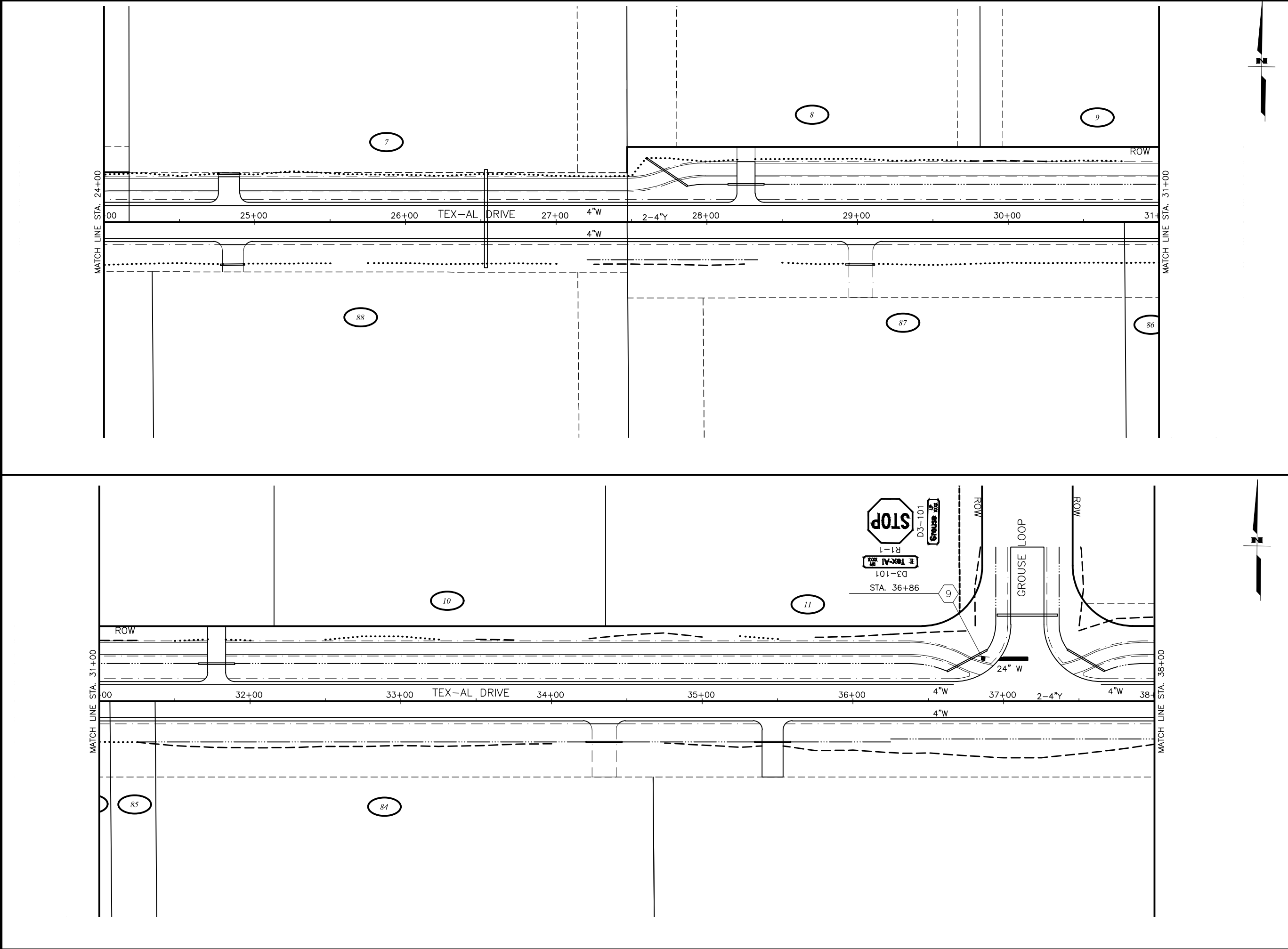
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AEC1882-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING AND STRIPING

BOP TO STA 24+00



SHEET NO.

HS4

TOTAL SHEETS

HS15

STATE

ALASKA

YEAR

2024

PROJECT DESIGNATION

35472-1809

NO.

REVISION

DATE

NO.

REVISION

DATE

NO.

REVISION

DATE

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

N ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

CRW ENGINEERING GROUP, INC.

3940 ARCTIC BLVD, SUITE 300

ANCHORAGE, ALASKA 99503

(907) 562-3252

#AECL862-AK

MATANUSKA-SUSITNA BOROUGH

PUBLIC WORKS DEPARTMENT

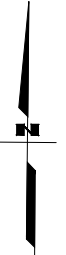
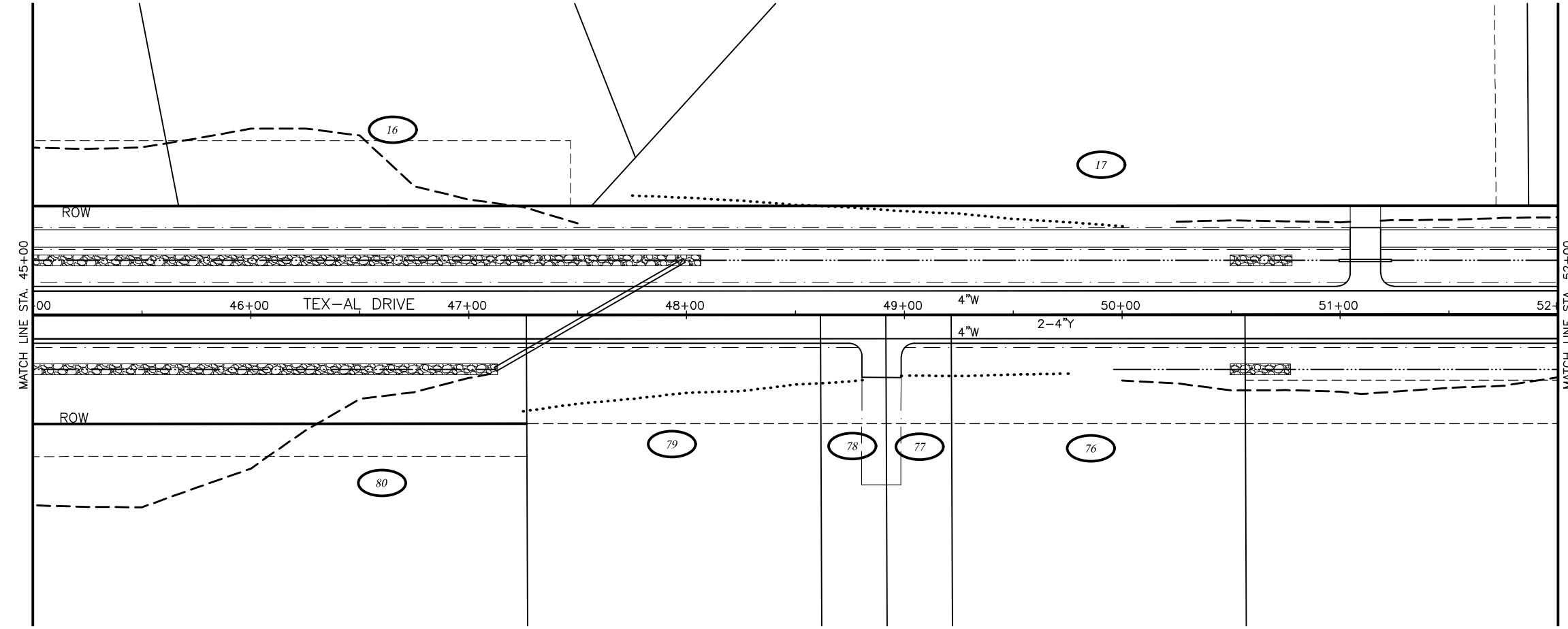
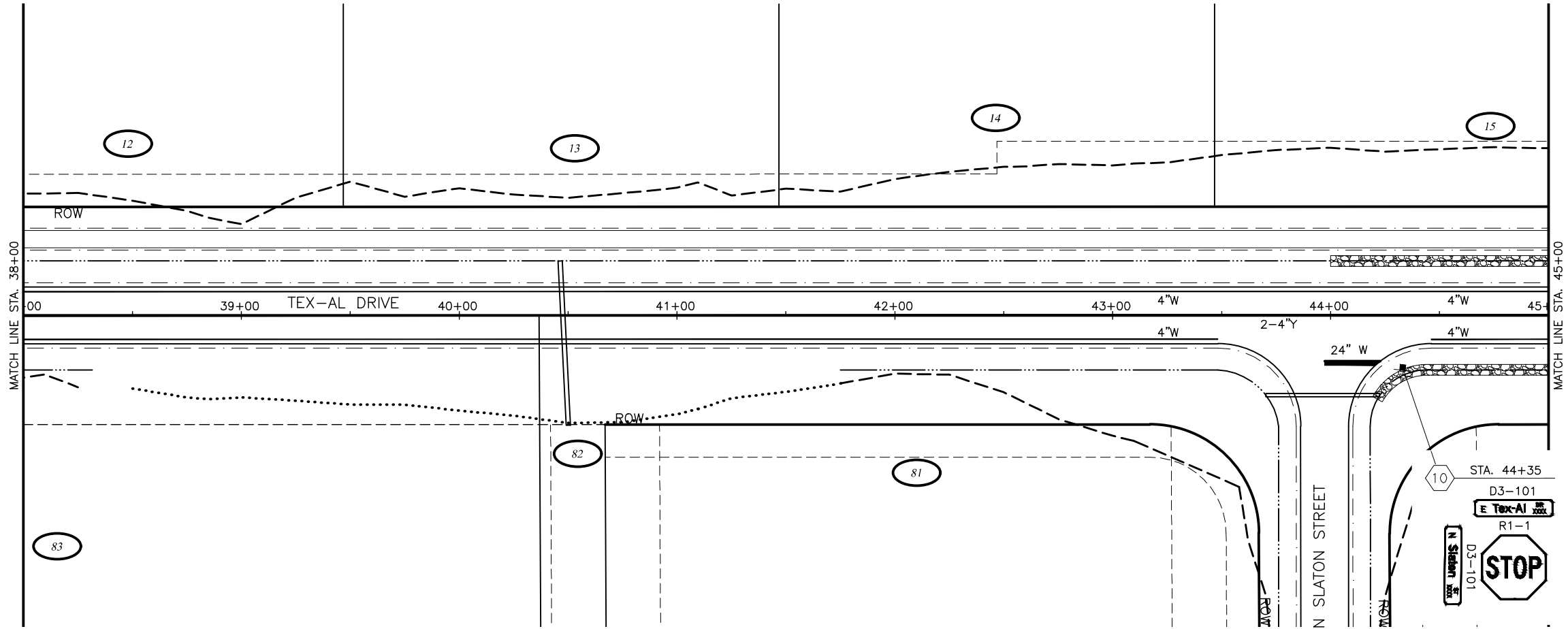
TEX-AL DRIVE EXTENSION,

UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 24+00 TO

STA 38+00



SHEET NO.	TOTAL SHEETS
HS5	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

CRW ENGINEERING GROUP, INC.

3940 ARCTIC BLVD, SUITE 300

ANCHORAGE, ALASKA 99503

(907) 562-3252

#AECL862-AK

MATANUSKA-SUSITNA BOROUGH

PUBLIC WORKS DEPARTMENT

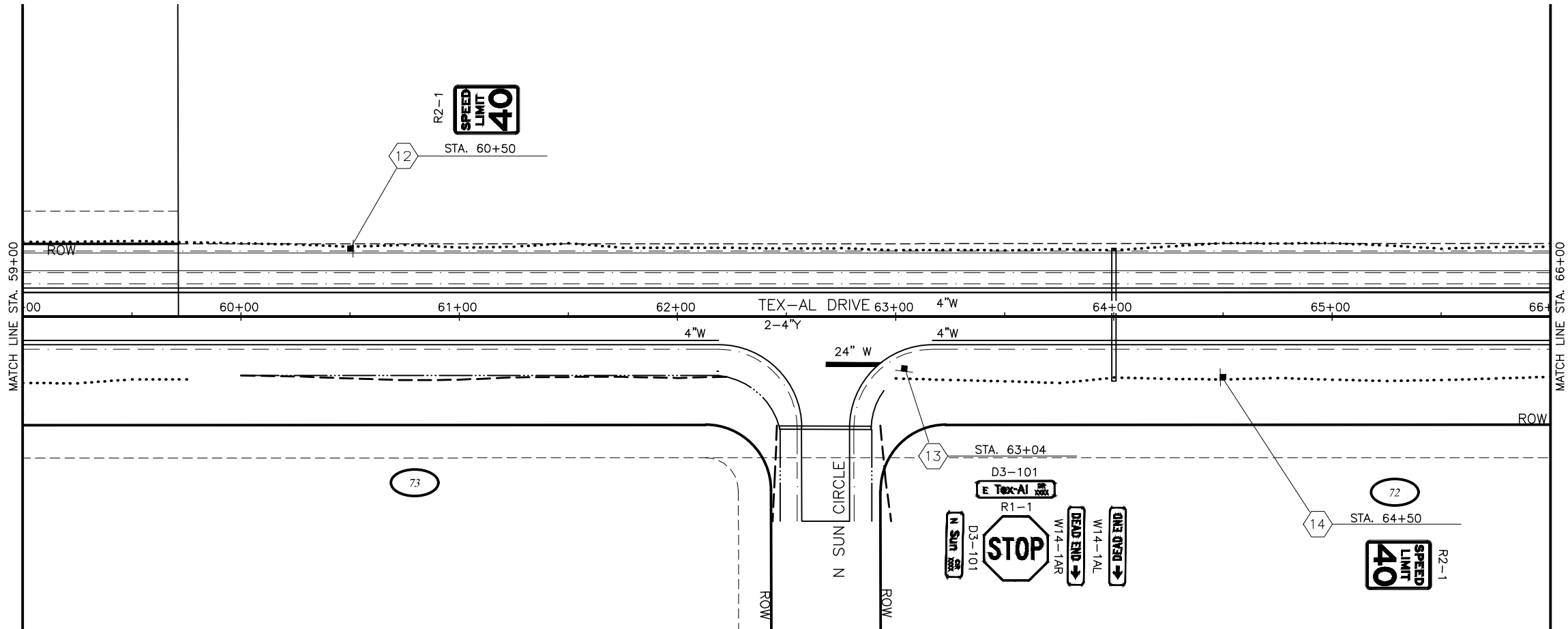
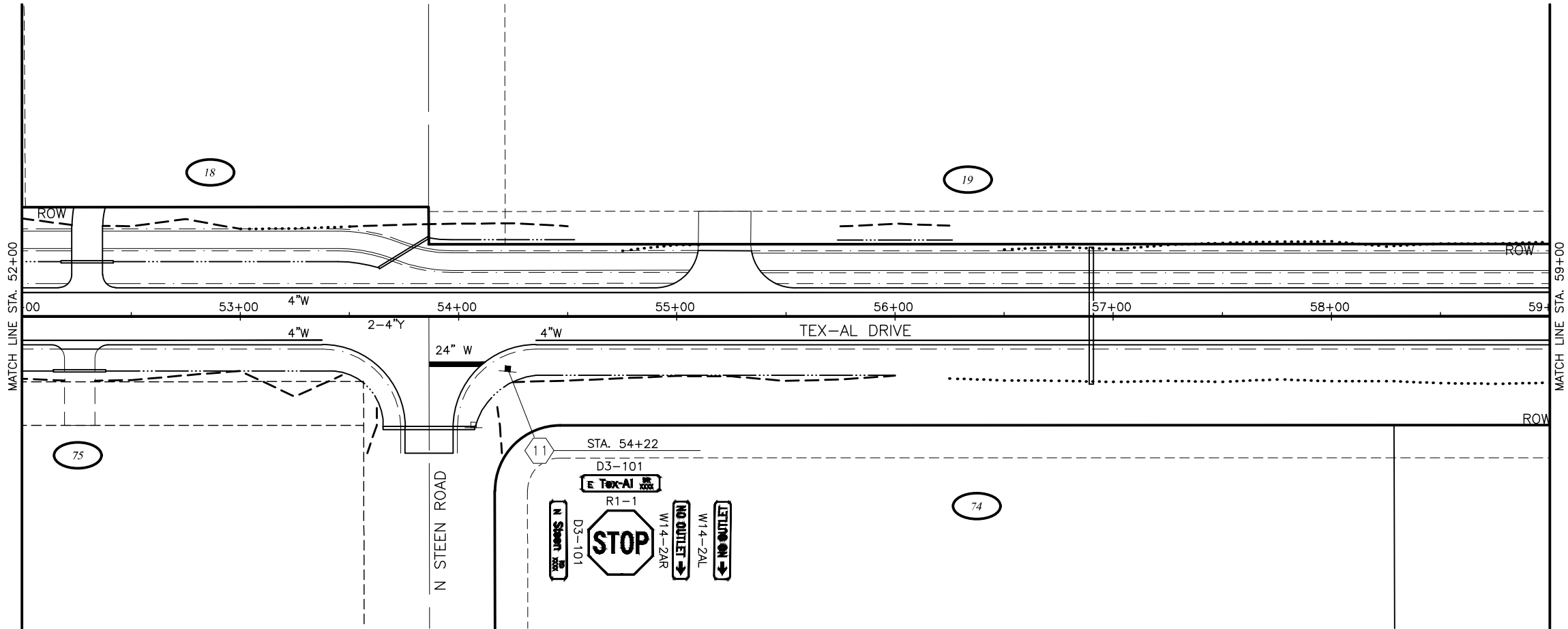
TEX-AL DRIVE EXTENSION,

UPGRADE, AND PATHWAY

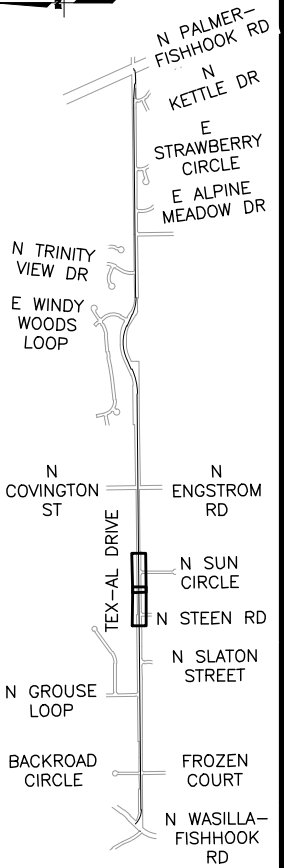
SIGNING AND STRIPING

STA 38+00 TO

STA 52+00



SHEET NO.	TOTAL SHEETS
HS6	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



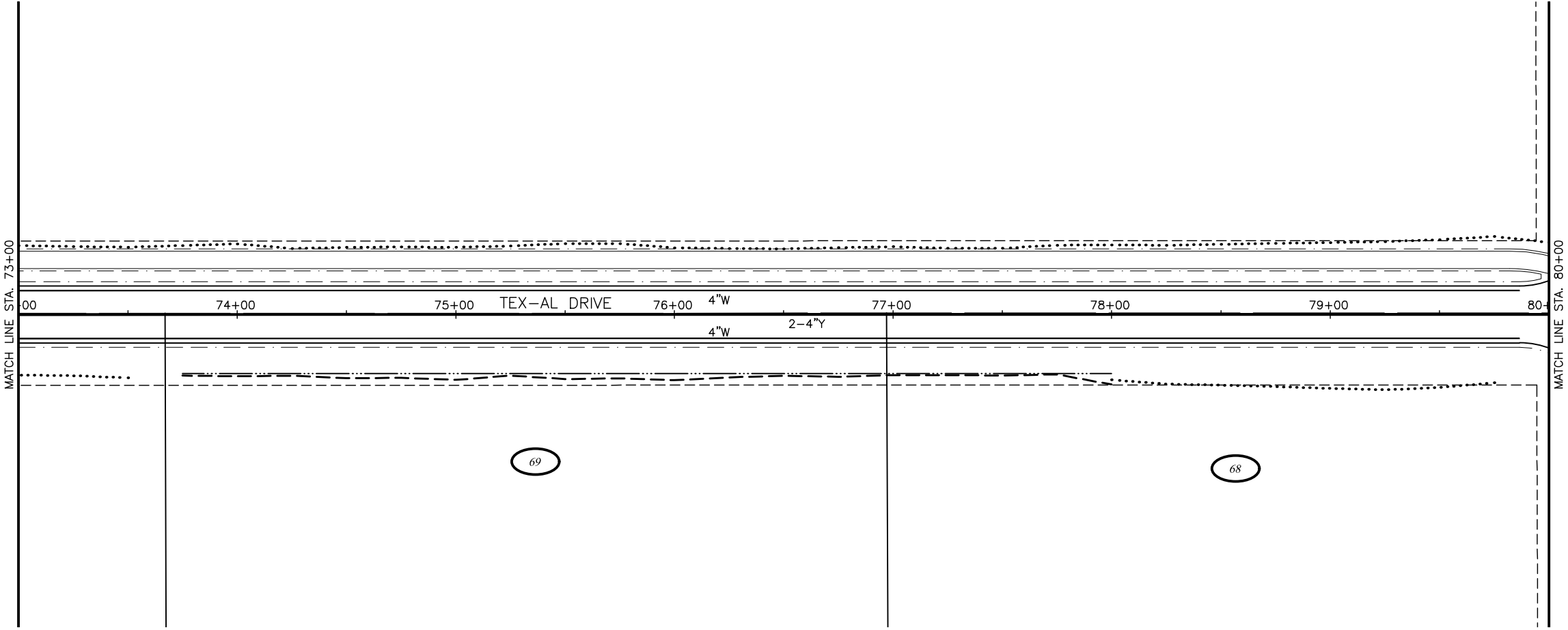
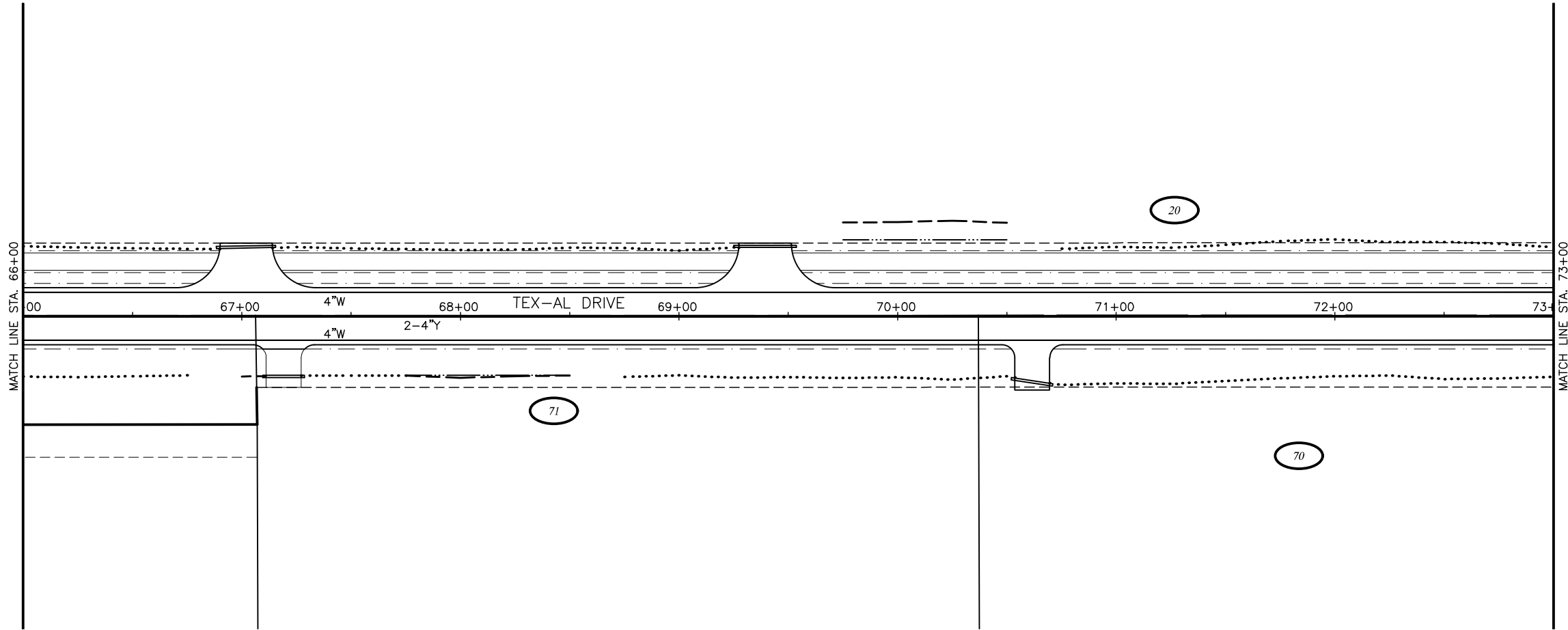
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 52+00 TO
STA 66+00



SHEET NO.	TOTAL SHEETS
HS7	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

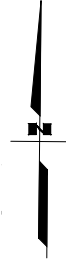
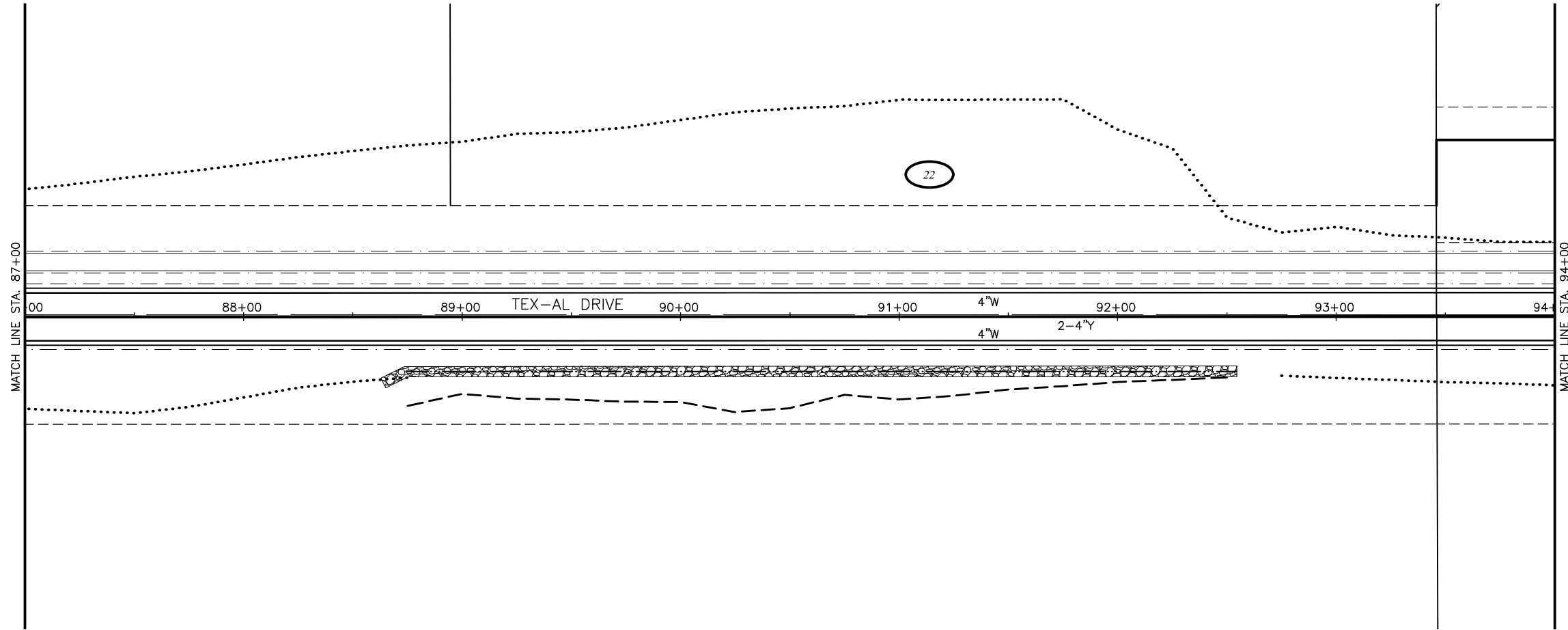
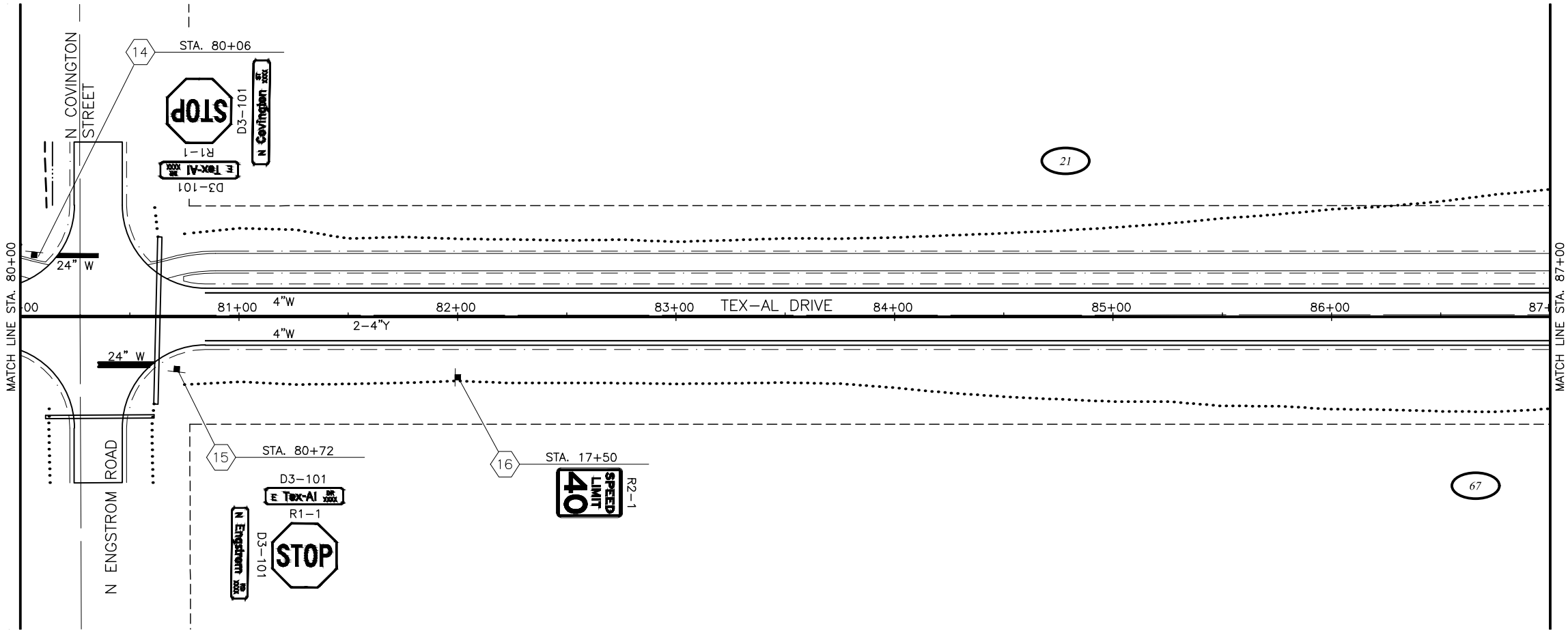
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 66+00 TO
STA 80+00



SHEET NO.	TOTAL SHEETS
HS8	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

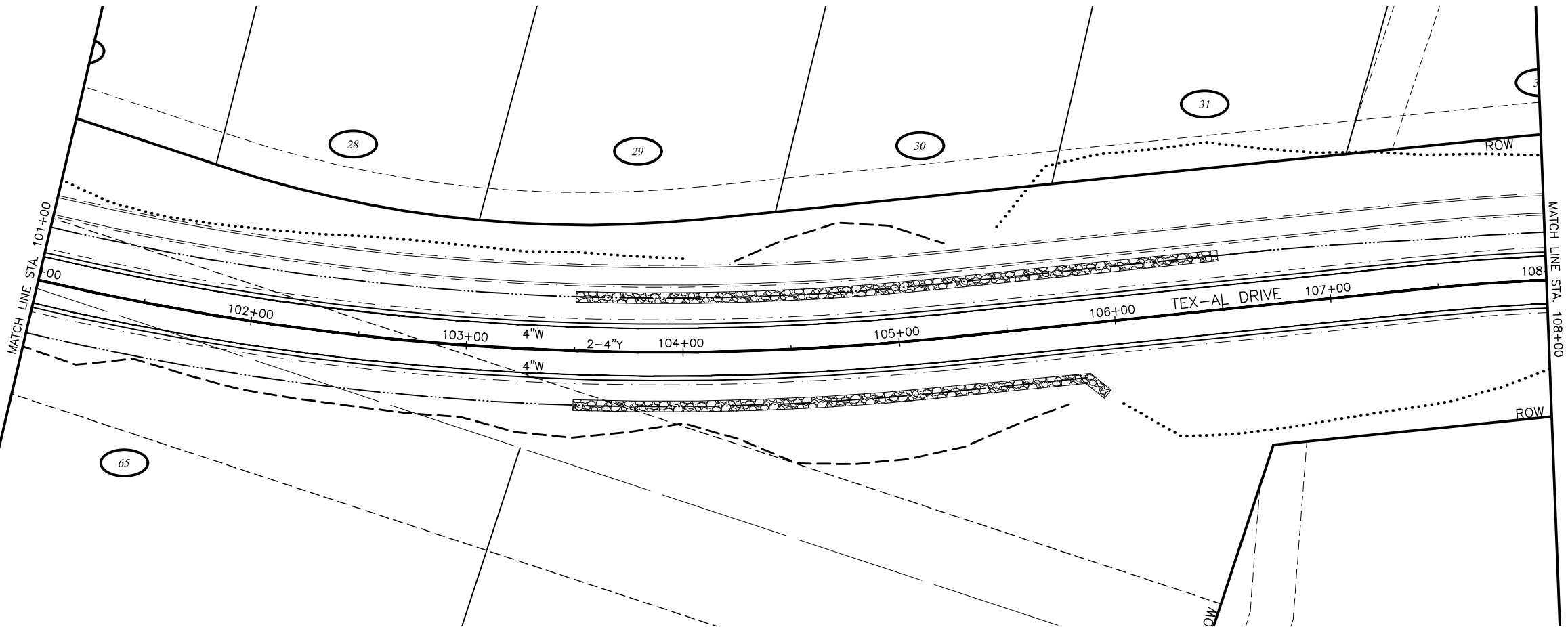
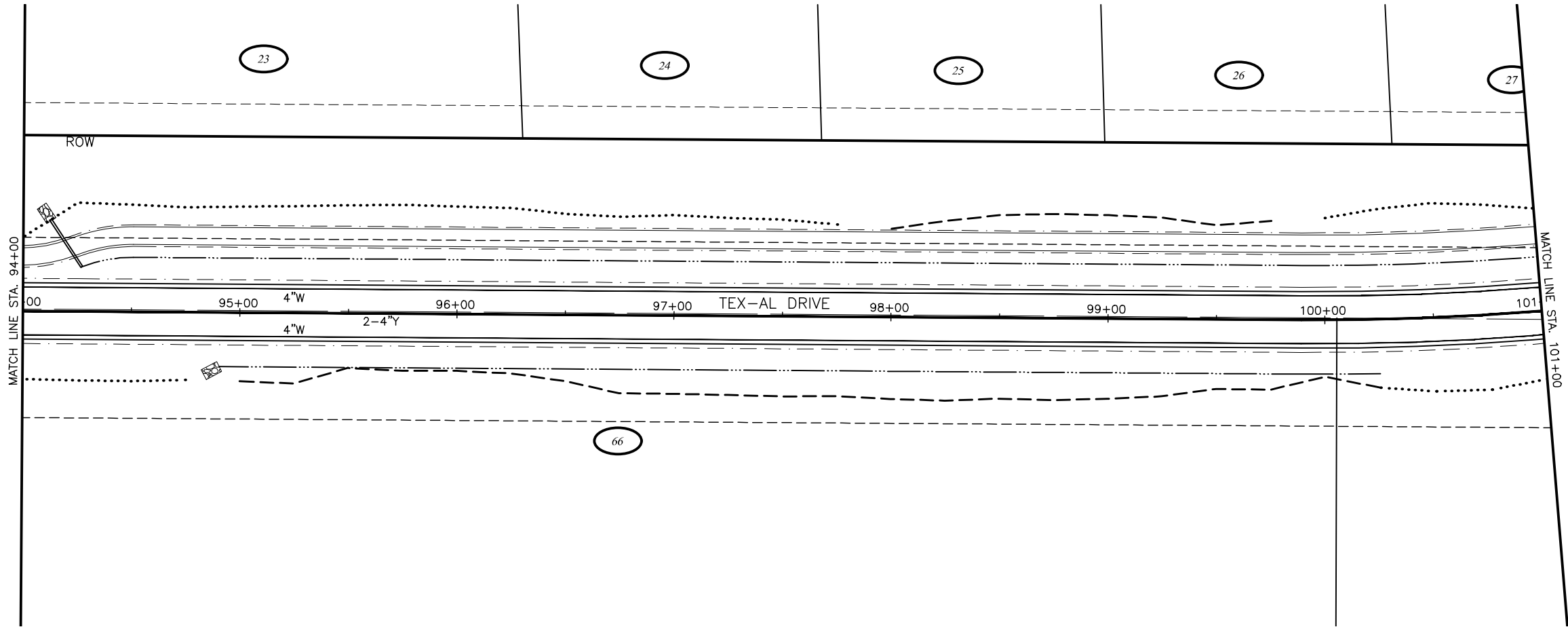
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 80+00 TO
STA 94+00



SHEET NO.	TOTAL SHEETS
HS9	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

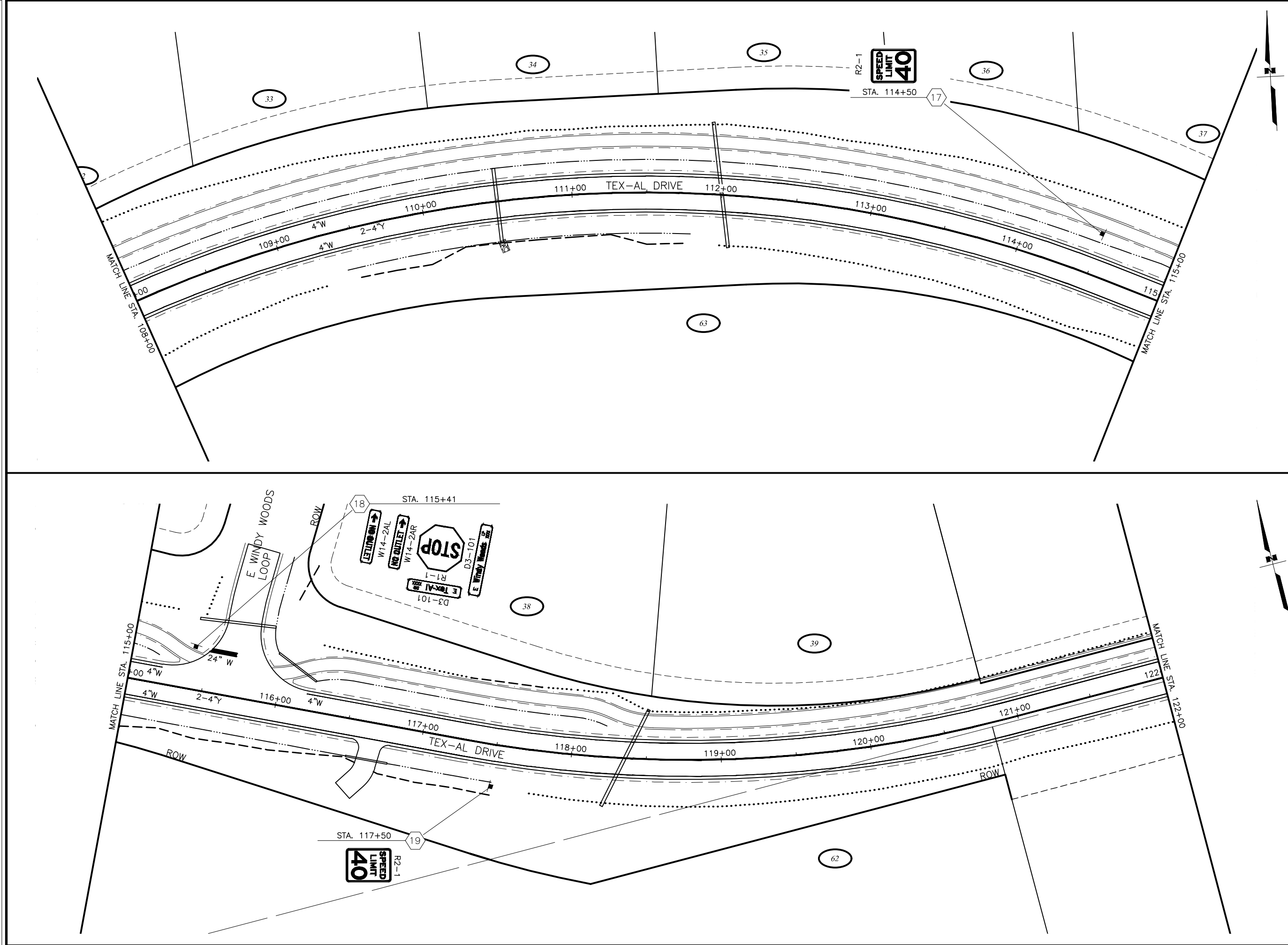
CRW ENGINEERING GROUP, INC.
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ANCHORAGE, ALASKA 99503
(907) 562-3252
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MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 94+00 TO
STA 108+00



SHEET NO.	TOTAL SHEETS
HS10	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD
N KETTLE DR
E STRAWBERRY CIRCLE
E ALPINE MEADOW DR
N TRINITY VIEW DR
E WINDY WOODS LOOP
N COVINGTON ST
N ENGSTROM RD
N SUN CIRCLE
N STEEN RD
N SLATON STREET
N GROUSE LOOP
BACKROAD CIRCLE
FROZEN COURT
N WASILLA-FISHHOOK RD

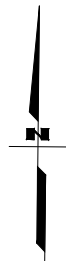
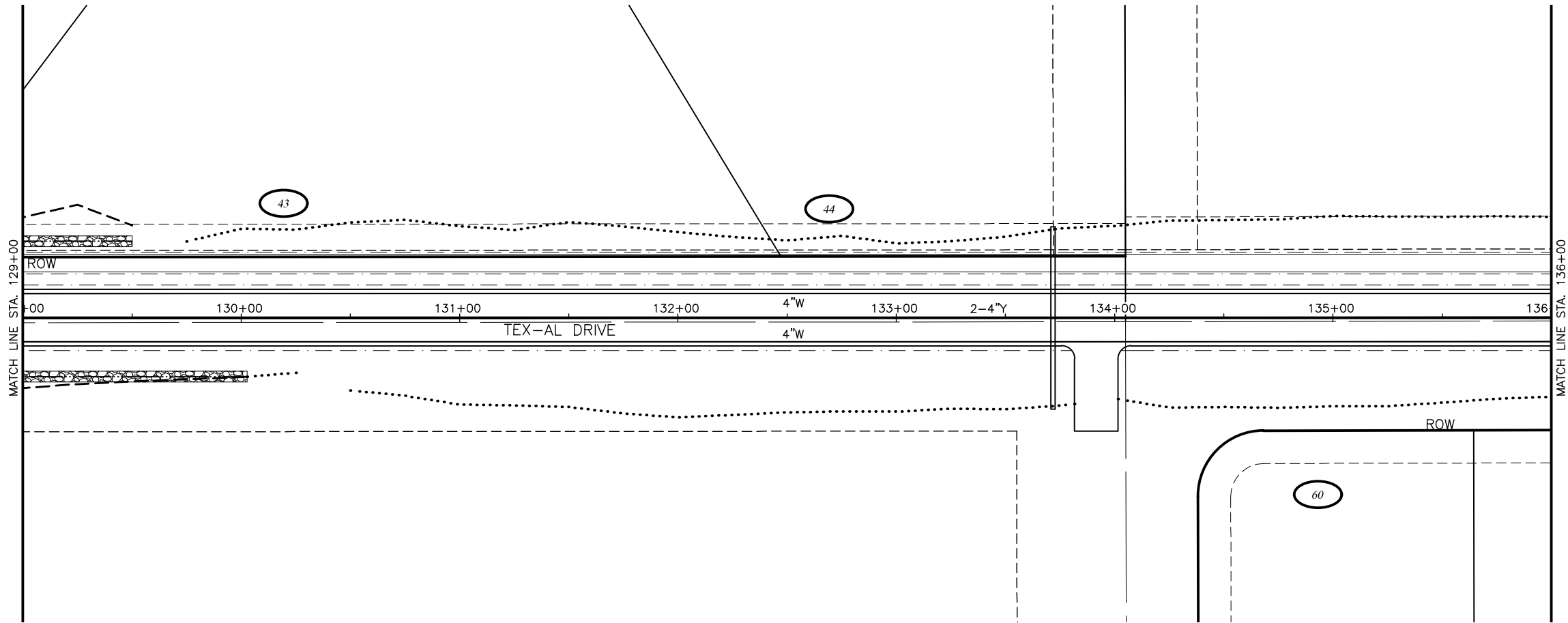
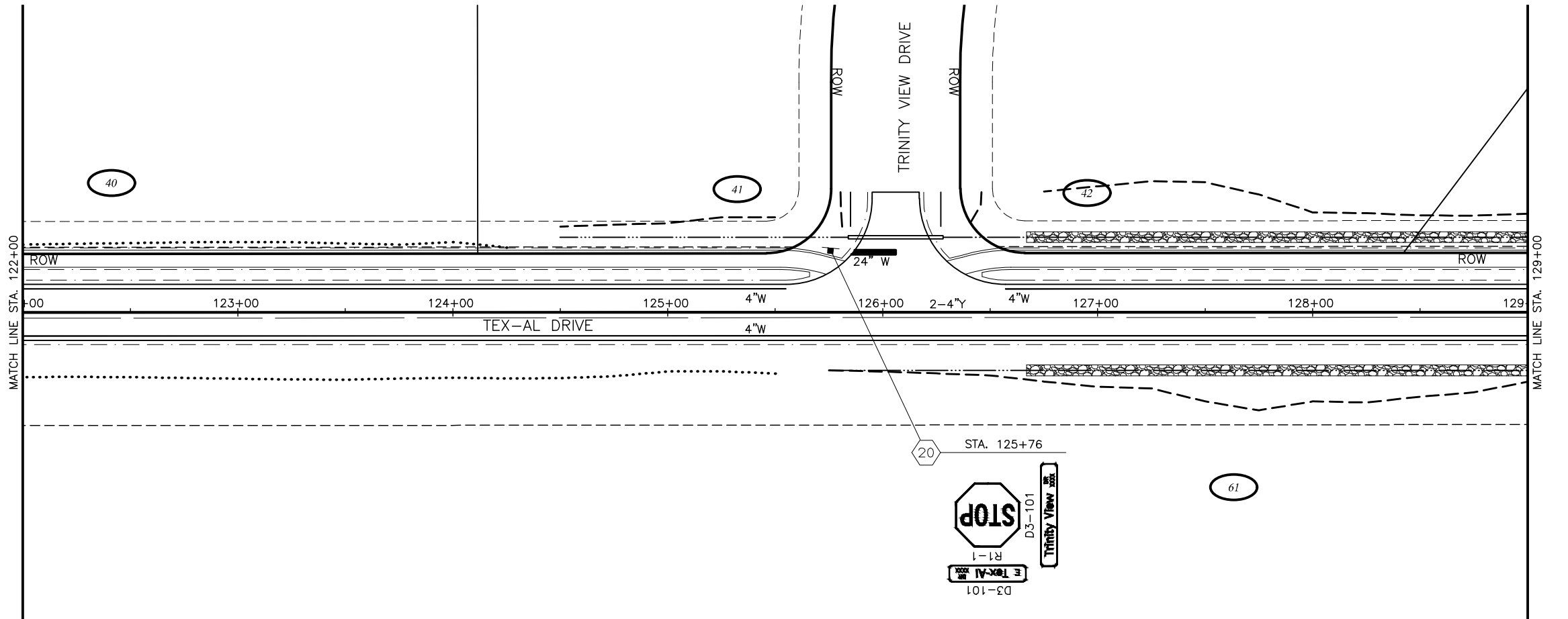
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 108+00 TO
STA 122+00



SHEET NO.	TOTAL SHEETS
HS11	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

N PALMER-FISHHOOK RD

N KETTLE DR

E STRAWBERRY CIRCLE

E ALPINE MEADOW DR

N TRINITY VIEW DR

E WINDY WOODS LOOP

N COVINGTON ST

N ENGSTROM RD

N SUN CIRCLE

N STEEN RD

N SLATON STREET

N GROUSE LOOP

BACKROAD CIRCLE

FROZEN COURT

N WASILLA-FISHHOOK RD

CRW ENGINEERING GROUP, INC.

3940 ARCTIC BLVD, SUITE 300

ANCHORAGE, ALASKA 99503

(907) 562-3252

#AEL862-AK

MATANUSKA-SUSITNA BOROUGH

PUBLIC WORKS DEPARTMENT

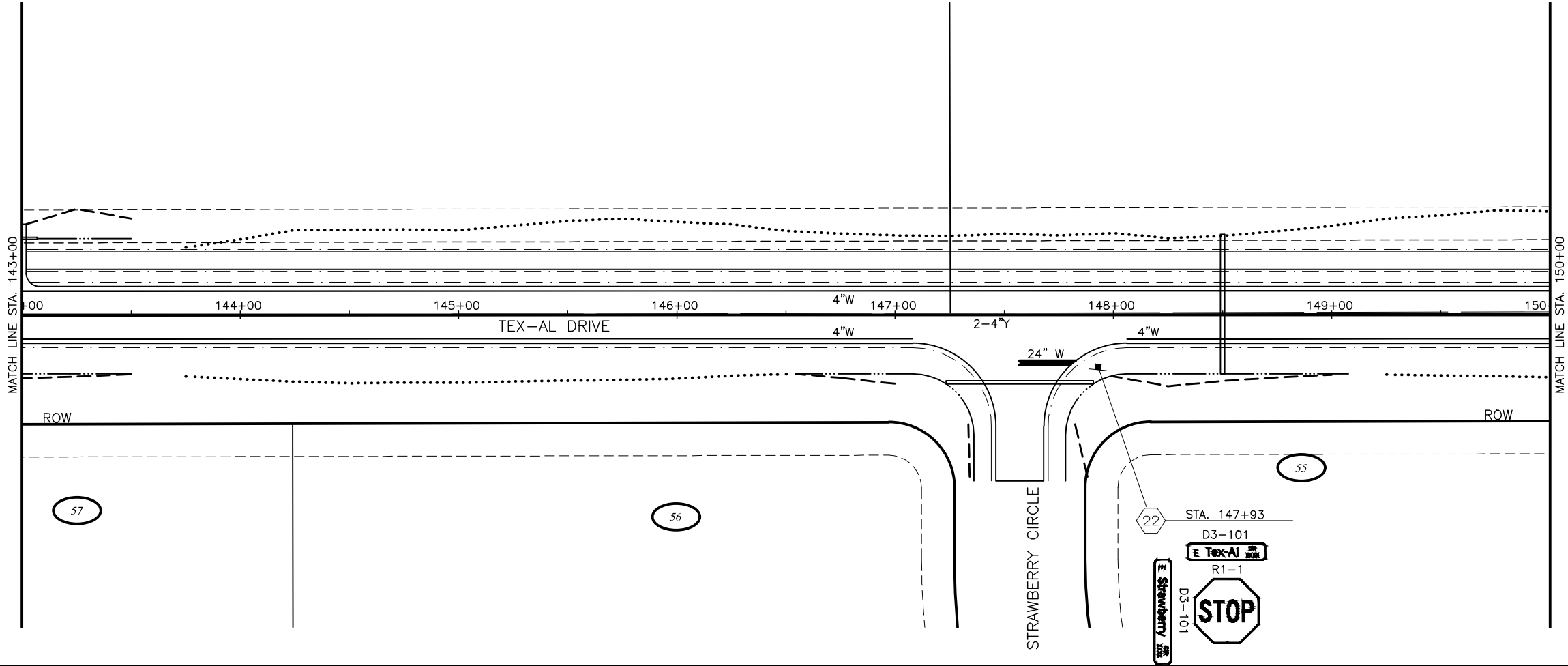
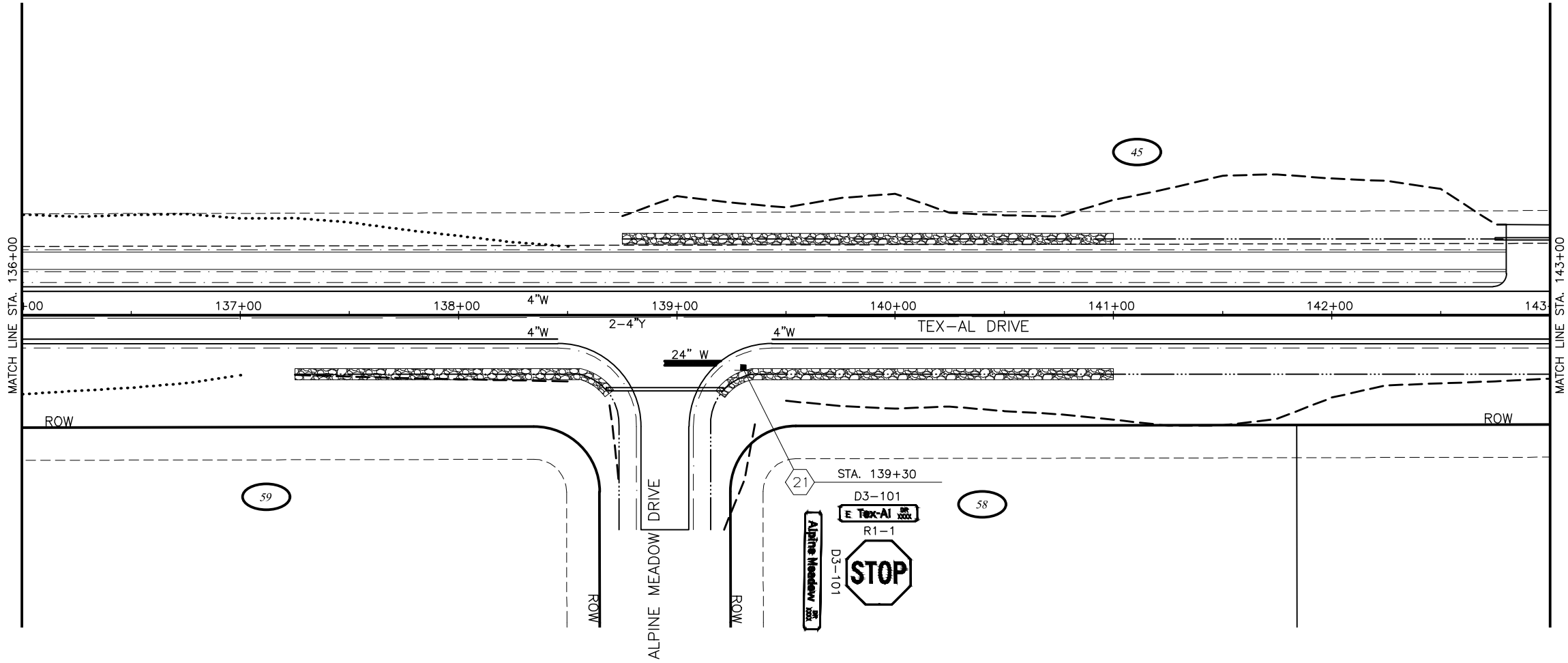
TEX-AL DRIVE EXTENSION,

UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 122+00 TO

STA 136+00



SHEET NO.	TOTAL SHEETS
HS12	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

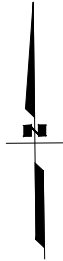
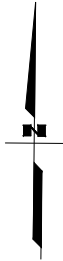
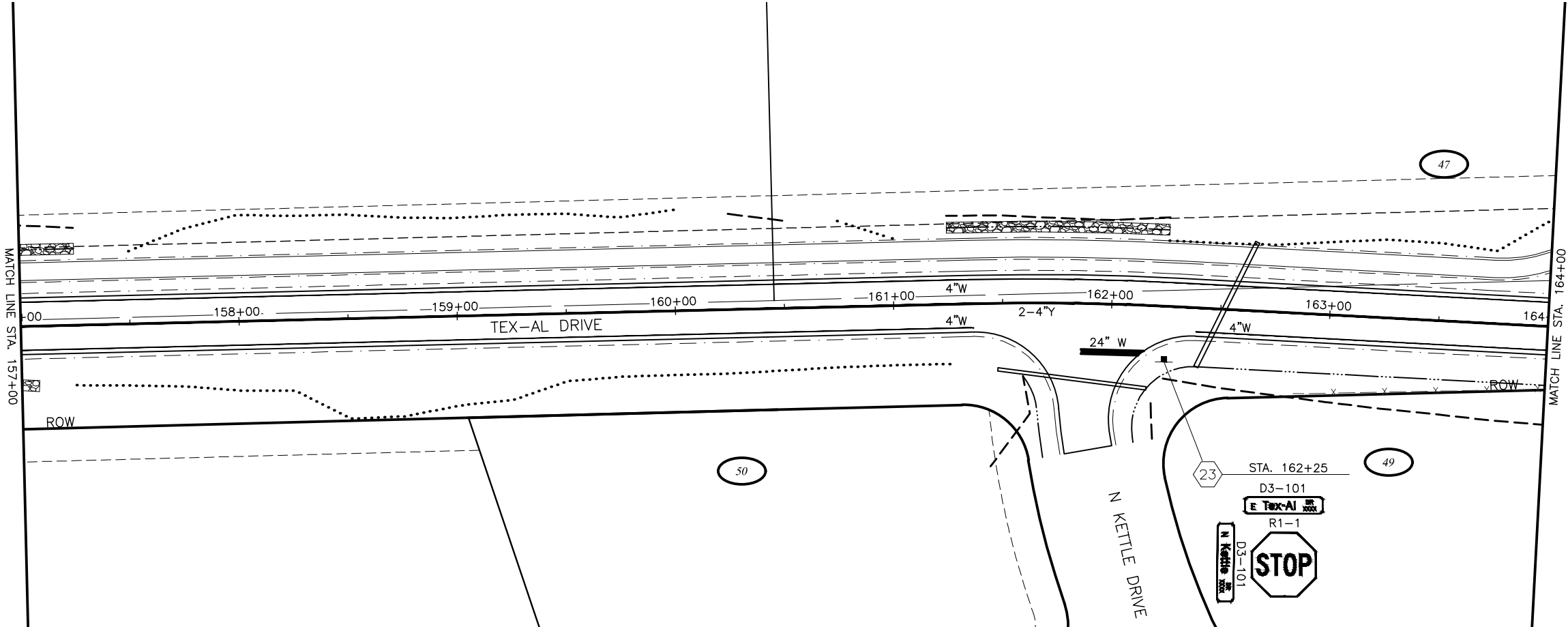
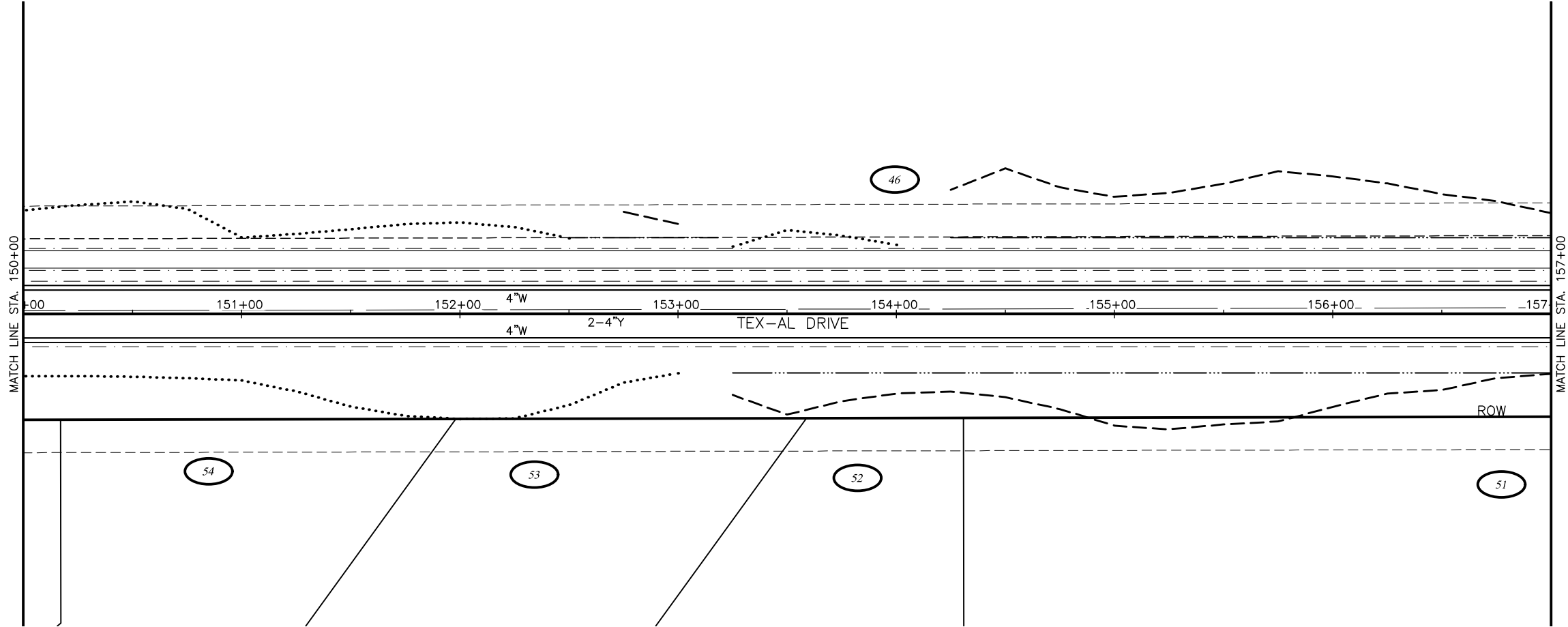
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 136+00 TO
STA 150+00



SHEET NO. HS13		TOTAL SHEETS HS15	
STATE ALASKA		YEAR 2024	
PROJECT DESIGNATION 35472-1809			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

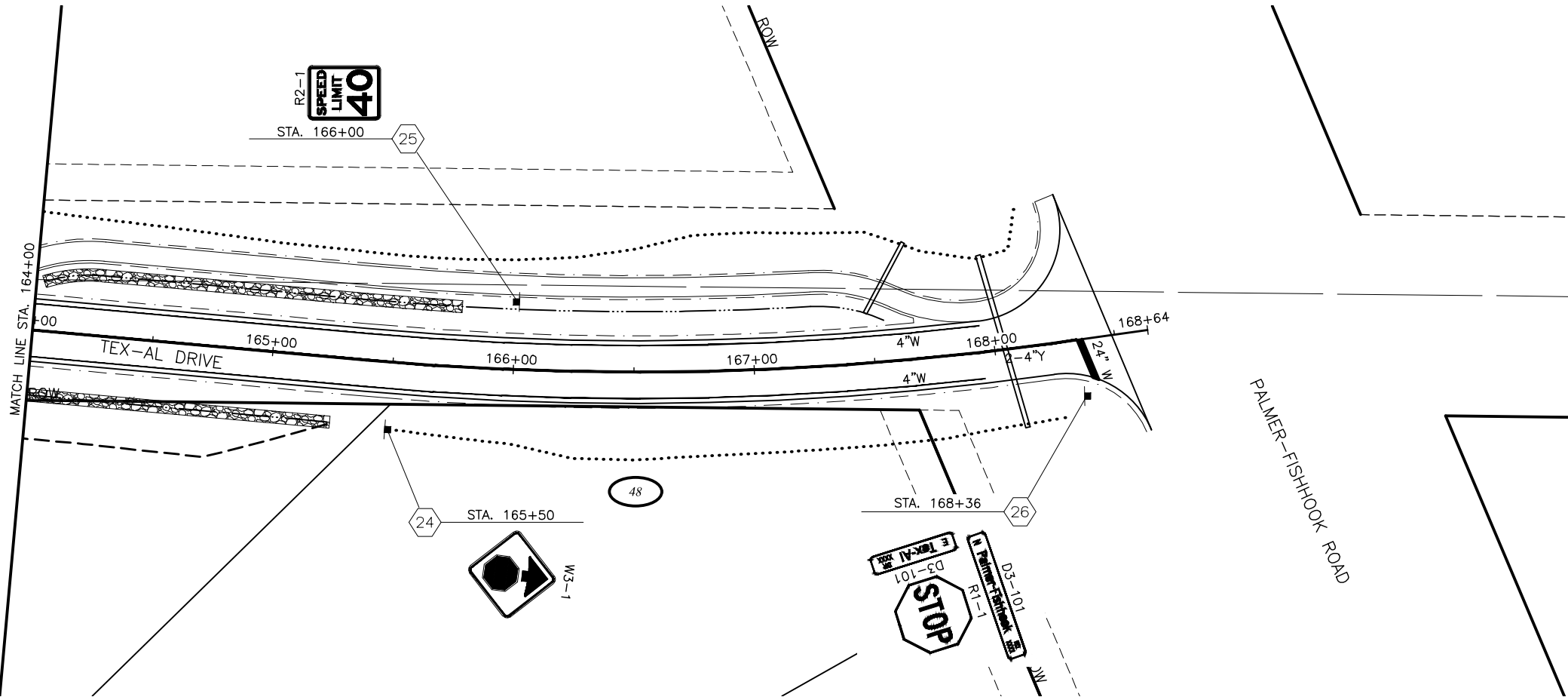
CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSUITNA BOROUGH
PUBLIC WORKS DEPARTMENT

**TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY**

SIGNING AND STRIPING

**STA 150+00 TO STA
164+00**



SHEET NO.	TOTAL SHEETS
HS14	HS15
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
35472-1809	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL862-AK

MATANUSKA-SUSUITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION,
UPGRADE, AND PATHWAY

SIGNING AND STRIPING

STA 164+00 TO EOP

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	35472-1809	2024	HS15	HS15

615.0001.0000

SIGN SUMMARY

[illegible]

TO BE COMPLETED AT NEXT SUBMITTAL

MATANUSKA-SUSITNA BOROUGH
PUBLIC WORKS DEPARTMENT

TEX-AL DRIVE EXTENSION, UPGRADE, AND PATHWAY

SIGNING AND STRIPING

CRW ENGINEERING GROUP, INC.
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL882-AK

DRAWING LOCATION	DATE	TIME	DESIGNED BY
J:\JOBS\DATA 20820.00 MSB TEX-AL DRIVE\00 CADD 2019\01 WORKING SET\01 CIVIL\02 DESIGN\20820.00_H01-H11_SIGNING AND STRIPING.DWG	8/11/2024	4:15 PM	SCALE
			N/A
			CHECKED BY
			DRAFTED BY

