

(NO SCALE)



SOURCE: GFK ASOS (2007-2016, HOURLY) FROM NATIONAL CLIMATIC DATA CENTER
91,416 TOTAL OBSERVATIONS

INSTRUMENT FLIGHT RULES (IFR) WIND COVERAGE	
	CROSSWIND COMPONENT
Category A	1.3 times the gross weight landing gear certified strength
Category B	1.5 times the gross weight landing gear certified strength
Category C	1.75 times the gross weight landing gear certified strength
Category D	2.0 times the gross weight landing gear certified strength

	10.5 KNOTS	13 KNOTS	16 KNOTS	20 KNOTS
INWAY 17-35	91.88%	95.51%	98.07%	99.19%

NEWAY 9-21	99.68%	69.46%	81.13%	90.02%
COMBINED	96.32%	98.58%	99.60%	99.94%

9,342 TOTAL OBSERVATIONS
IFR = VISIBILITY LOWER THAN 3 MILES OR CEILING LOWER THAN 1,000 FEET

VISUAL FLIGHT RULES (VFR) WIND COVERAGE	
	CROSSWIND COMPONENT

	10.5 KNOTS	13 KNOTS	16 KNOTS	20 KNOTS
INWAY 17-35	90.88%	94.89%	98.04%	99.45%

HWAY 9-27	77.55%	85.13%	93.42%	97.81%
COMBINED	97.74%	99.28%	99.84%	99.99%

82,704 TOTAL OBSERVATIONS
VFR = VISIBILITY GREATER THAN 3 MILES AND CEILING GREATER THAN 1,000 FEET

GRAND FORKS REGIONAL AIRPORT AUTHORITY (OWNER)



ON BEHALF OF THE GRAND FORKS INTERNATIONAL AIRPORT AUTHORITY, THIS AIRPORT LAYOUT PLAN (ALP) WAS PREPARED BY KIJ ACCORDING TO THE APPLICABLE ADVISORY CIRCULARS AT THE TIME OF SCOPING THE PROJECT, THE CURRENT VERSION OF THE FAA ARP SOP 2.00 & 3.00 CHECKLISTS, AND ACCURATELY DEPICTS THE PROPOSED USE OF AIRSPACE AT THE TIME OF DATA COLLECTION. THE ALP CONFORMS WITH FAA DESIGN STANDARDS, EXCEPT AS NOTED.



1. TITLE SHEET
2. AIRPORT DATA SHEET
3. AIRPORT LAYOUT PLAN (E)
4. AIRPORT LAYOUT PLAN (F & U)
5. TERMINAL AREA (E)
6. TERMINAL AREA (U)
7. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 17R END (E, F & U)
8. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 17R-35L (E, F & U)
9. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 35L END (E & U)
10. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 9L END (E)
11. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 9L END (F & U)
12. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 27R END (E, F & U)
13. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 17L END (E, F & U)
14. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 35R END (E, F & U)
15. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 9R END (E, F & U)
16. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 27L END (E, F & U)
17. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 18 END (U)
18. INNER PORTION OF THE APPROACH SURFACE - RUNWAY 36 END (U)
19. AIRPORT AIRSPACE - 17R-35L & 9L-27R (U)
20. AIRPORT AIRSPACE - 17L-35R & 9R-27L (U)
21. AIRPORT AIRSPACE - 18-36 (U)
22. EXTENDED AIRPORT AIRSPACE - 35L END
23. RUNWAY DEPARTURE SURFACE
24. LAND USE PLAN
- EX-A1. EXHIBIT "A" PARCEL INVENTORY MAP
- EX-A2. EXHIBIT "A" PARCEL ENCUMBRANCE MAP





GRAND FORKS INTERNATIONAL AIRPORT
GRAND FORKS REGIONAL AIRPORT AUTHORITY (OWNER)
GRAND FORKS, NORTH DAKOTA

TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

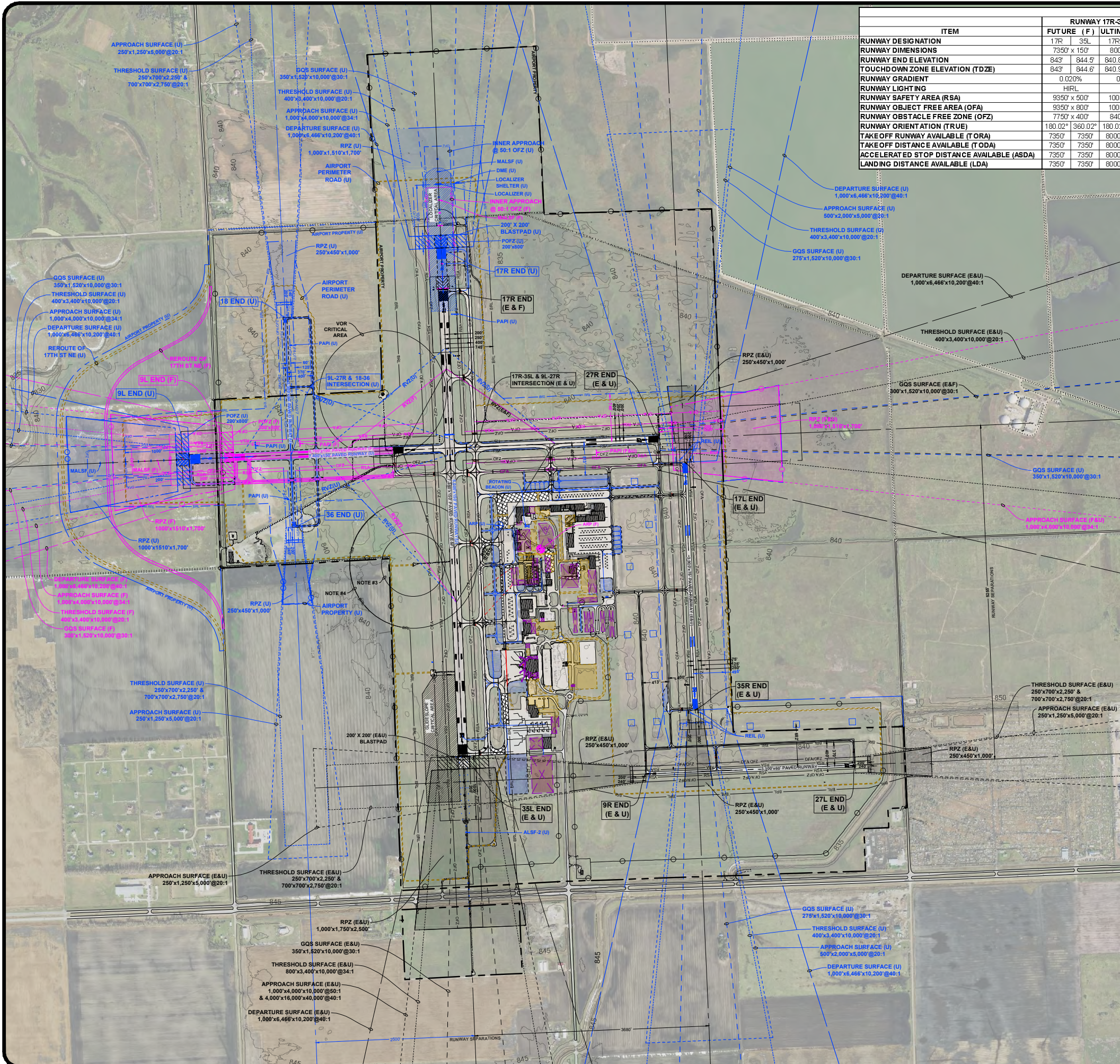
AIRPORT DATA SHEET

DRAFTED
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ARTZ
PROJECT NUMBER
14515100

SHEET
2

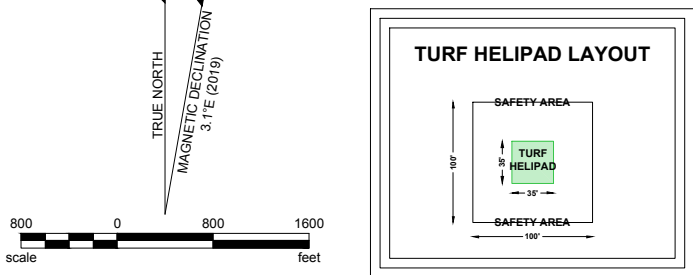
RUNWAY DATA TABLE

ITEM	RUNWAY 17R/35L				RUNWAY 17L/35R				RUNWAY 9L/27R				RUNWAY 9R/27L		RUNWAY 18/36			
	EXISTING (E)		ULTIMATE (U)		EXISTING (E)		ULTIMATE (U)		EXISTING (E)		FUTURE (F)		ULTIMATE (U)		EXISTING (E & U)		ULTIMATE (U)	
RUNWAY DESIGNATION *	17R	35L	17R	35L	17L	35R	17L	35R	9L	27R	9L	27R	9L	27R	9R	27L	18	36
RUNWAY DESIGN CODE (RDC)	D-IV-4000	D-IV-2400	C-III-4000	C-III-1600	B-II(S)-VS	B-II(S)-VS	B-II(S)-5000	B-II(S)-5000	B-II-5000	B-II-5000	C-III-4000	C-II-4000	C-II-4000	C-III-4000	B-II(S)-VIS	B-II(S)-VS	B-II(S)-VS	B-II(S)-VIS
APPROACH REFERENCE CODE (APRC)	D-IV-4000	D-IV-2400	D-IV-4000	D-IV-1600	D-IV-MS	D-IV-MS	D-IV-5000	D-IV-5000	D-IV-5000	D-IV-5000	D-IV-4000	D-IV-4000	D-IV-4000	D-IV-4000	D-IV-VIS	D-IV-VIS	D-IV-VIS	D-IV-VIS
	D-V-4000	D-V-2400	D-V-4000	D-V-2400	D-V-VIS	D-V-VIS	D-V-5000	D-V-5000	D-V-5000	D-V-5000	D-V-4000	D-V-4000	D-V-4000	D-V-4000	D-V-VIS	D-V-VIS	D-V-VIS	D-V-VIS
DEPARTURE REFERENCE CODE (DPRC)	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV	D-IV
	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V	D-V
RUNWAY DIMENSIONS	7350' x 150'		8000' x 150'		3900' x 75'		3900' x 75'		4205' x 100'		6700' x 100'		7400' x 150'		3300' x 60'		3300' x 60'	
RUNWAY LENGTH CRITERIA	SPECIFIC AIRCRAFT		Large, <60,000 lbs (100% Fleet & 90% Useful)		SMALL, <10 PX (100% FLEET)		SMALL, <10 PX (100% FLEET)		SPECIFIC AIRCRAFT		SPECIFIC AIRCRAFT		SPECIFIC AIRCRAFT		SMALL, <10 PX (95% FLEET)		SMALL, <10 PX (95% FLEET)	
CRITICAL AIRCRAFT (TYPE)	BOEING MD-83		BOEING 737-800		KING-AIR B200		KING-AIR B200		FAIRCHILD METROLINER III		CRJ-900		BOEING 737-800		PIPER SEMINOLE		PIPER SEMINOLE	
CRITICAL AIRCRAFT (WINGSPAN)	108'		112'		54'		54'		57'		81'		112'		38'		38'	
CRITICAL AIRCRAFT (TAIL HEIGHT)	30'		41'		15'		15'		17'		24'		41'		8'		8'	
CRITICAL AIRCRAFT (APPROACH SPEED)	144 (Kts.)		142 (Kts.)		103 (Kts.)		103 (Kts.)		117 (Kts.)		142 (Kts.)		142 (Kts.)		72 (Kts.)		72 (Kts.)	
MAXIMUM TAKEOFF WEIGHT (MTOW)	160000 (LBS.)		174200 LBS.		12500 LBS.		12500 LBS.		16000 LBS.		84500 LBS.		174200 LBS.		3925 LBS.		3925 LBS.	
RUNWAY END ELEVATION	843'	844.5'	840.8'	844.5'	841.9'	843.4'	841.9'	843.4'	841.4'	842.7'	843.5'	842.7'	844.1'	842.7'	843.7'	843.6'	842'	843'
TOUCHDOWN ZONE ELEVATION (TDZE)	843'	844.6'	840.9'	844.6'	843.3'	843.6'	843.3'	843.6'	842.8'	842.8'	843.5'	842.8'	844.1'	842.8'	843.7'	843.7'	842.9'	843'
RUNWAY GRADIENT	0.020%		0.046%		0.038%		0.038%		0.031%		0.012%		0.019%		0.003%		0.030%	
MAX GRADE WITHIN RUNWAY LENGTH (%)	1.500%		1.500%		2.000%		2.000%		2.000%		2.000%		2.000%		2.000%		2.000%	
RUNWAY MEETS LINE OF SIGHT REQUIREMENTS	YES		YES		YES		YES		YES		YES		YES		YES		YES	
RUNWAY LIGHTING	HIRL		HIRL		MRL		MRL		MIRL		MRL		MRL		MIRL		MIRL	
PAVEMENT TYPE	BITUMINOUS		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE	
RUNWAY CATEGORY	OTHER-THAN-UTILITY		OTHER-THAN-UTILITY		UTILITY		UTILITY		OTHER-THAN-UTILITY		OTHER-THAN-UTILITY		OTHER-THAN-UTILITY		UTILITY		UTILITY	
PAVEMENT STRENGTH (WHEEL-LOAD)	270000 LBS (DTW)		172000 LBS (DW)		12500 LBS (SW)		12500 LBS (SW)		115000 LBS (DTW)		172000 LBS (DW)		172000 LBS (DW)		12500 LBS (SW)		12500 LBS (SW)	
PAVEMENT CLASSIFICATION NUMBER (PCN)	35R/C/W/T		51R/C/W/T		9R/C/W/T		N/A		24R/B/W/T		51R/B/W/T		51R/B/W/T		10R/C/W/T		N/A	
PAVEMENT MARKINGS	PRECISION	PRECISION	PRECISION	PRECISION	VISUAL	VISUAL	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	VISUAL	VISUAL	VISUAL	VISUAL
SURFACE TREATMENT	GROOVED		GROOVED		NONE		NONE		GROOVED		GROOVED		GROOVED		NONE		NONE	
RUNWAY SAFETY AREA (RSA)	9350' x 500'		10000' x 500'		4500' x 150'		4500' x 150'		4805' x 150'		6700' x 500'		9400' x 500'		3780' x 120'		3780' x 120'	
RUNWAY OBJECT FREE AREA (OFA)	9350' x 800'		10000' x 800'		4500' x 500'		4500' x 500'		4805' x 500'		6700' x 800'		9400' x 800'		3780' x 250'		3780' x 250'	
RUNWAY OBSTACLE FREE ZONE (OFZ)	7750' x 400'		8400' x 400'		4300' x 250'		4300' x 250'		4605' x 400'		7100' x 400'		7800' x 400'		3700' x 250'		3700' x 250'	
14 CFR PART 77 APPROACH TYPE	NON-PRECISION	PRECISION	NON-PRECISION	PRECISION	VISUAL	VISUAL	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	NON-PRECISION	VISUAL	VISUAL	VISUAL	VISUAL
14 CFR PART 77 APPROACH SLOPE	34:1	50:1/40:1	34:1	50:1/40:1	20:1	20:1	20:1	20:1	34:1	34:1	34:1	34:1	34:1	34:1	20:1	20:1	20:1	20:1
14 CFR PART 77 APPROACH DIMENSIONS	1000 X 4000 X 10000	1000 X 16000 X 50000	1000 X 4000 X 10000	1000 X 16000 X 50000	250 X 1250 X 5000	250 X 1250 X 5000	500 X 2000 X 5000	500 X 2000 X 5000	500 X 3500 X 10000	500 X 3500 X 10000	1000 X 4000 X 10000	1000 X 4000 X 10000	1000 X 4000 X 10000	1000 X 4000 X 10000	250 X 1250 X 5000	250 X 1250 X 5000	250 X 1250 X 5000	250 X 1250 X 5000
VISIBILITY MINIMUMS	3/4 MILE	1/2 MILE	3/4 MILE	1/4 MILE	VISUAL	VISUAL	1 MILE	1 MILE	1 MILE	1 MILE	3/4 MILE	3/4 MILE	3/4 MILE	3/4 MILE	VISUAL	VISUAL	VISUAL	VISUAL
THRESHOLD SITING SURFACE (TSS) CATEGORY	4	5	4	5	2	2	4	4	4	4	4	4	4	4	2	2	2	2
THRESHOLD SITING SURFACE (TSS) SLOPE	20:1	34:1	20:1	34:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1
THRESHOLD SITING SURFACE (TSS) DIMENSIONS	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 800' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 800' X 3400' X 10000'	STARTS AT THRESHOLD, 250' X 700' X 2250' X 2750'	STARTS AT THRESHOLD, 250' X 700' X 2250' X 2750'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS AT THRESHOLD, 250' X 700' X 2250' X 2750'	STARTS AT THRESHOLD, 250' X 700' X 2250' X 2750'	STARTS AT THRESHOLD, 250' X 700' X 2250' X 2750'	STARTS AT THRESHOLD, 250' X 700' X 2250' X 2750'
GLIDEPATH QUALIFICATION SURFACE (GQS)	30:1	30:1	30:1	30:1	NONE	NONE	30:1	30:1	30:1	30:1	30:1	30:1	30:1	30:1	NONE	NONE	NONE	NONE
GLIDEPATH QUALIFICATION SURFACE (GQS) DIMENSIONS	350' X 1520' X 10000'	350' X 1520' X 10000'	350' X 1520' X 10000'	350' X 1520' X 10000'	NONE	NONE	275' X 1520' X 10000'	275' X 1520' X 10000'	300' X 1520' X 10000'	300' X 1520' X 10000'	300' X 1520' X 10000'	300' X 1520' X 10000'	350' X 1520' X 10000'	350' X 1520' X 10000'	NONE	NONE	NONE	NONE
DEPARTURE SURFACE	40:1	40:1	40:1	40:1	NONE	NONE	40:1	40:1	40:1	40:1	40:1	40:1	40:1	40:1	NONE	NONE	NONE	NONE
DEPARTURE SURFACE DIMENSIONS	1000' X 6466' X 10200'	1000' X 6466' X 10200'	1000' X 6466' X 10200'	1000' X 6466' X 10200'	NONE	NONE	1000' X 6466' X 10200'	1000' X 6466' X 10200'	1000' X 6466' X 10200'	1000' X 6466' X 10200'	1000' X 6466' X 10200'	1000' X 6466' X 10200'	1000' X 6466' X 10200'	1000' X 6466' X 10200'	NONE	NONE	NONE	NONE
AERONAUTICAL SURVEY-TYPE REQUIRED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	NON-VERT. GUIDED	NON-VERT. GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	NON-VERT. GUIDED	NON-VERT. GUIDED	NON-VERT. GUIDED	NON-VERT. GUIDED
RUNWAY ORIENTATION (TRUE)	180.02°	360.02°	180.02°	360.02°	180.04°	360.04°	180.04°	360.04°	90°	270°	90°	270°	90°	270°	90.04°	270.04°	180.02°	360.02°
MAGNETIC DECLINATION (04/16/2019)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)	3.1° (E)
RUNWAY ORIENTATION (MAGNETIC)	176.92°	356.92°	176.92°	356.92°	176.94°	356.94°	176.94°	356.94°	86.9°	266.9°	86.9°	266.9°	86.9°	266.9°	86.94°	266.94°	176.92°	356.92°
RUNWAY NAVAIDS	REIL, PAPI	MALSR, PAPI, ILS, RVR	MALSF, PAPI	ALSF-2, PAPI, ILS, RVR	PAPI	PAPI	PAPI, REIL	PAPI, REIL	PAPI	PAPI, REIL	MALSF, PAPI	REIL, PAPI	MALSF, PAPI	REIL, PAPI	PAPI	PAPI	PAPI	PAPI
DISPLACED THRESHOLD	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
TAKEOFF RUNWAY AVAILABLE (TORA)	7350'	7350'	8000'	8000'	3900'	3900'	3900'	3900'	4205'	4205'	6700'	6700'	7400'	7400'	3300'	3300'	3300'	3300'
TAKEOFF DISTANCE AVAILABLE (TODA)	7350'	7350'	8000'	8000'	3900'	3900'	3900'	3900'	4205'	4205'	6700'	6700'	7400'	7400'	3300'	3300'	3300'	3300'
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	7350'	7350'	8000'	8000'	3900'	3900'	3900'	3900'	4205'	4205'	6700'	6700'	7400'	7400'	3300'	3300'	3300'	3300'
LANDING DISTANCE AVAILABLE (LDA)	7350'	7350'	8000'	8000'	3900'	3900'	3900'	3900'	4205'	4205'	6700'	6700'	7400'	7400'	3300'	3300'	3300'	3300'
RPZ DIMENSIONS - APPROACH	1000' X 1510' X 1700'	1000' X 1750' X 2500'	1000' X 1510' X 1700'	1000' X 1750' X 2500'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	500' X 700' X 1000'	500' X 700' X 1000'	1000' X 1510' X 1700'	1000' X 1510' X 1700'	1000' X 1510' X 1700'	1000' X 1510' X 1700'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'
RPZ DIMENSIONS - DEPARTURE	500' X 1010' X 1700'	500' X 1010' X 1700'	500' X 1010' X 1700'	500' X 1010' X 1700'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	500' X 700' X 1000'	500' X 700' X 1000'	500' X 1010' X 1700'	500' X 1010' X 1700'	500' X 1010' X 1700'	500' X 1010' X 1700'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'



ITEM	RUNWAY 17R-35L				RUNWAY 17L-35R				RUNWAY 9L-27R				RUNWAY 9R-27L				RUNWAY 18-36	
	FUTURE (F)	ULTIMATE (U)	FUTURE (F)	ULTIMATE (U)	FUTURE (F)	ULTIMATE (U)	FUTURE (F)	ULTIMATE (U)	FUTURE (F)	ULTIMATE (U)	FUTURE (F)	ULTIMATE (U)	FUTURE (F)	ULTIMATE (U)	FUTURE (F)	ULTIMATE (U)	FUTURE (F)	ULTIMATE (U)
RUNWAY DESIGNATION	17R	35L	17R	35L	17L	35R	17L	35R	9L	27R	9L	27R	9R	27L	9R	27L	18	36
RUNWAY DIMENSIONS	7350' x 150'	8000' x 150'	7350' x 150'	8000' x 150'	3900' x 75'	3900' x 75'	6700' x 100'	7400' x 100'	6700' x 100'	7400' x 100'	3300' x 60'	3300' x 60'	3300' x 60'	3300' x 60'	3300' x 60'	3300' x 60'	3300' x 60'	3300' x 60'
RUNWAY END ELEVATION	843'	844.6'	840.8'	844.6'	841.9'	843.4'	843.9'	843.4'	843.9'	842.7'	844.1'	842.8'	843.7'	843.7'	843.7'	843.7'	842.9'	843'
TOUCHDOWN ZONE ELEVATION (TDZE)	843'	844.6'	840.8'	844.6'	843.9'	843.6'	843.9'	843.6'	843.9'	842.8'	844.1'	842.8'	843.7'	843.7'	843.7'	843.7'	842.9'	843'
RUNWAY GRADIENT	0.020%		0.046%		0.038%		0.038%		0.012%		0.019%		0.003%		0.003%		0.030%	
RUNWAY LIGHTING	HIRL		HIRL		MIRL		MIRL		MIRL		MIRL		MIRL		MIRL		MIRL	
RUNWAY SAFETY AREA (RSA)	9350' x 500'	10000' x 500'	4500' x 150'	4500' x 150'	4500' x 150'	4500' x 150'	8700' x 500'	9400' x 500'	8700' x 500'	9400' x 500'	3780' x 120'	3780' x 120'	3780' x 120'	3780' x 120'	3780' x 120'	3780' x 120'	3780' x 120'	3780' x 120'
RUNWAY OBJECT FREE AREA (OFA)	9350' x 800'	10000' x 800'	4500' x 500'	4500' x 500'	4500' x 500'	4500' x 500'	8700' x 800'	9400' x 800'	8700' x 800'	9400' x 800'	3780' x 250'	3780' x 250'	3780' x 250'	3780' x 250'	3780' x 250'	3780' x 250'	3780' x 250'	3780' x 250'
RUNWAY OBSTACLE FREE ZONE (OFZ)	7750' x 400'	8400' x 400'	4300' x 250'	4300' x 250'	4300' x 250'	4300' x 250'	7100' x 400'	7800' x 400'	7100' x 400'	7800' x 400'	3300' x 300'	3300' x 300'	3300' x 300'	3300' x 300'	3300' x 300'	3300' x 300'	3300' x 300'	3300' x 300'
RUNWAY ORIENTATION (TRUE)	180.02°	360.02°	180.02°	360.02°	180.04°	360.04°	90°	270°	90°	270°	90.04°	270.04°	90.04°	270.04°	90.04°	270.04°	180.03°	360.03°
TAKEOFF RUNWAY AVAILABLE (TORA)	7350'	7350'	8000'	8000'	3900'	3900'	6700'	6700'	6700'	6700'	3300'	3300'	3300'	3300'	3300'	3300'	3300'	3300'
TAKEOFF DISTANCE AVAILABLE (TODA)	7350'	7350'	8000'	8000'	3900'	3900'	6700'	6700'	6700'	6700'	3300'	3300'	3300'	3300'	3300'	3300'	3300'	3300'
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	7350'	7350'	8000'	8000'	3900'	3900'	6700'	6700'	6700'	6700'	3300'	3300'	3300'	3300'	3300'	3300'	3300'	3300'
LANDING DISTANCE AVAILABLE (LDA)	7350'	7350'	8000'	8000'	3900'	3900'	6700'	6700'	6700'	6700'	3300'	3300'	3300'	3300'	3300'	3300'	3300'	3300'

- NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. SEE INNER APPROACH SHEETS FOR OBSTACLE DATA.
3. OBJECTS WITHIN 500' MUST REMAIN 15' BELOW WIND SENSOR.
4. OBJECTS 500'-1000' MUST REMAIN 10' BELOW WIND SENSOR.



LEGEND			
EXISTING (E)	ITEM	FUTURE (F)	ULTIMATE (U)
---	AIRSPACE EASEMENT	---	---
---	35' BUILDING RESTRICTION LINE (BRL)	---	---
---	RUNWAY OBJECT FREE AREA (OFA)	---	---
---	RUNWAY OBSTACLE FREE ZONE (OFZ)	---	---
---	RUNWAY SAFETY AREA (RSA)	---	---
---	BUILDING	NONE	NONE
---	BUILDING LOTS	NONE	NONE
---	AIRSIDE PAVED SURFACE	---	---
---	LANDSIDE ROAD/PARKING	NONE	NONE
---	DECIDUOUS/EVERGREEN TREE	NONE	NONE
---	TREE ROWS, BUSHES	NONE	NONE
---	CHAIN-LINK FENCE	NONE	NONE
---	AIRPLANE TIEDOWN	NONE	NONE
---	BUILDING/PAVEMENT TO BE REMOVED	---	---

COORDINATE SUMMARY TABLE			
Point	Elevation	Latitude (DD-MM-SS)	Longitude (DD-MM-SS)
ARP (F)	-	N 47° 56' 52.330"	W 97° 10' 32.470"
ARP (U)	-	N 47° 56' 56.260"	W 97° 10' 41.770"
Intersection of 17R-35L & 9L-27R (E & U)	840.7'	N 47° 57' 8.613"	W 97° 10' 52.426"
Intersection of 9L-27R & 18-36 (U)	842.5'	N 47° 57' 8.614"	W 97° 11' 29.154"
Rwy 17R End (U)	840.8'	N 47° 57' 39.697"	W 97° 10' 52.406"
Rwy 17R TDZE (U)	840.8'	N 47° 57' 25.881"	W 97° 10' 52.415"
Rwy 35L End (E & U)	844.5'	N 47° 56' 20.744"	W 97° 10' 52.457"
Rwy 35L TDZE (E & U)	844.6'	N 47° 56' 21.040"	W 97° 10' 52.457"
Rwy 9L End & TDZE (F)	843.5'	N 47° 57' 8.614"	W 97° 11' 42.369"
Rwy 9L End & TDZE (U)	844.1'	N 47° 57' 8.613"	W 97° 11' 52.653"
Rwy 27R End (E & U)	842.7'	N 47° 57' 8.606"	W 97° 10' 3.937"
Rwy 27R TDZE (E & U)	842.8'	N 47° 57' 8.606"	W 97° 10' 4.602"
Rwy 17L End (E & U)	841.9'	N 47° 57' 4.858"	W 97° 9' 58.361"
Rwy 17L TDZE (E & U)	843.3'	N 47° 56' 37.122"	W 97° 9' 58.389"
Rwy 35R End (E & U)	843.4'	N 47° 56' 26.364"	W 97° 9' 58.400"
Rwy 35R TDZE (E & U)	843.6'	N 47° 56' 27.746"	W 97° 9' 58.399"
Rwy 9R End & TDZE (E & U)	843.7'	N 47° 56' 16.774"	W 97° 10' 10.530"
Rwy 27L End (E & U)	843.6'	N 47° 56' 16.749"	W 97° 9' 22.063"
Rwy 27L TDZE (E & U)	843.7'	N 47° 56' 16.763"	W 97° 9' 46.737"
Rwy 18 End (U)	842.0'	N 47° 57' 29.952"	W 97° 11' 29.144"
Rwy 18 TDZE (U)	842.9'	N 47° 57' 0.345"	W 97° 11' 29.158"
Rwy 36 End & TDZE (U)	843.0'	N 47° 56' 57.384"	W 97° 11' 29.159"
RWY = Runway TDZE = Touchdown Zone Elevation ARP = Airport Reference Point			
GFK AIRPORT ELEVATION = 35L TDZE (E & U) = 844.6'			

TAXIWAY DATA TABLE		
	FUTURE (F)	ULTIMATE (U)
HIGHEST TAXIWAY DESIGN GROUP (TDG)	3	3
TAXIWAY WIDTH	50'	50'
TAXIWAY SAFETY AREA WIDTH	118'	118'
TAXIWAY OBJECT FREE AREA WIDTH	186'	186'
TAXIWAY EDGE SAFETY MARGIN	10'	10'
TAXIWAY SHOULDER WIDTH	20'	20'
TAXIWAY LIGHTING	HTL	HTL
HIGHEST TAXILANE DESIGN GROUP (TDG)	3	3
TAXILANE WIDTH	50'	50'
TAXILANE OBJECT FREE AREA WIDTH	162'	162'
TAXILANE LIGHTING	MTL	MTL

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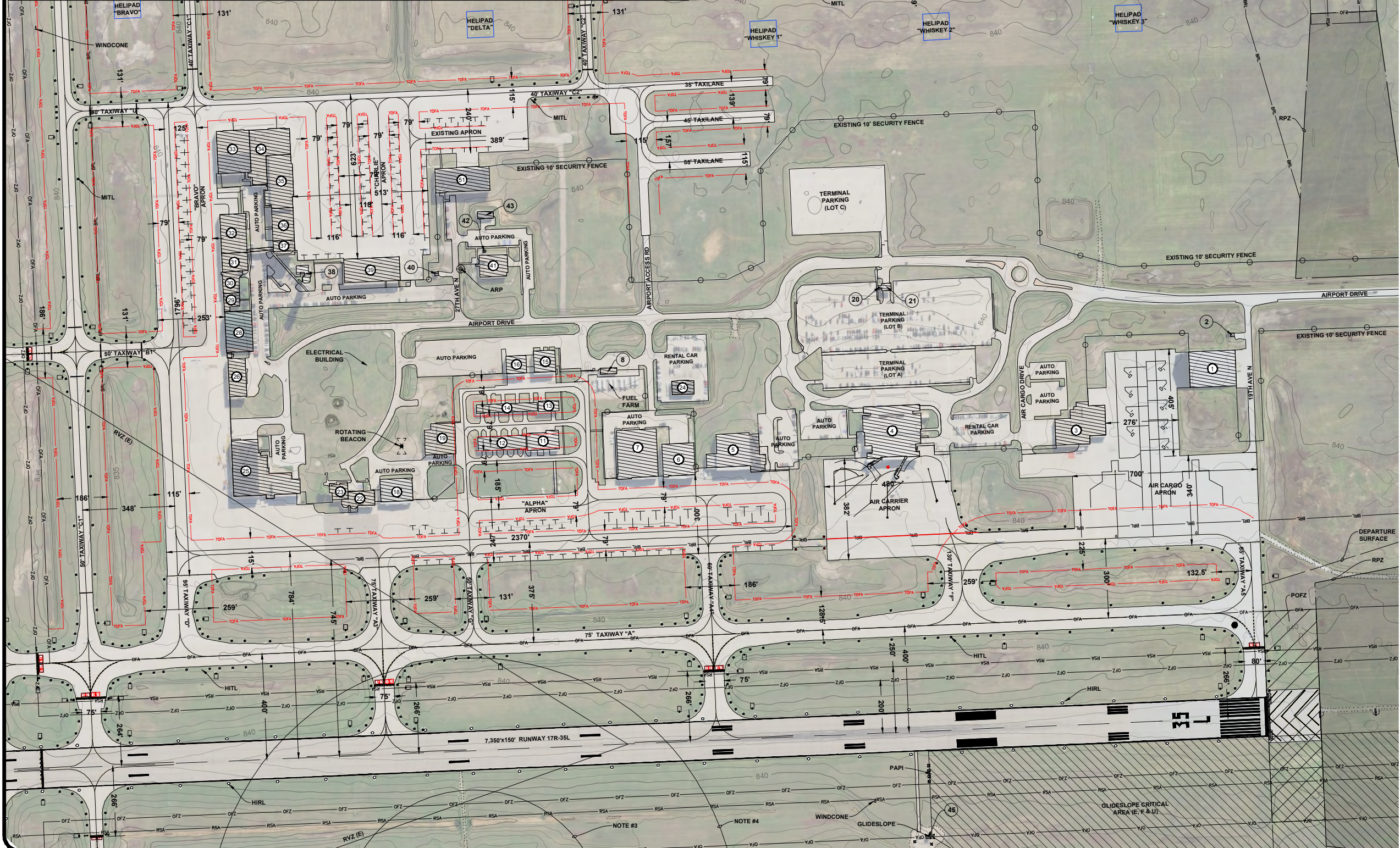
AIRPORT LAYOUT PLAN
(FUTURE & ULTIMATE)

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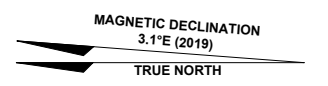
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BUILDING IDENTIFICATION TABLE									
ID	DESCRIPTION	PEAK ELEVATION	OBSTRUCTION LIGHTING	DISPOSITION	ADDRESS	ID	DESCRIPTION	PEAK ELEVATION	OBSTRUCTION LIGHTING
1	HANGAR	852.9	NONE	TO REMAIN	1922 AIRPORT DRIVE	27	UNID HANGAR	871.4	NONE
2	LIFT STATION	857.9	NONE	TO REMAIN	NONE	28	UNID OFFICES	853.4	NONE
3	CARGO SORTING FACILITY	864.1	NONE	TO REMAIN	2133 AIR CARGO DRIVE	29	UNID OFFICES	863.2	NONE
4	TERMINAL BUILDING	863.8	NONE	TO REMAIN	2301 AIRPORT DRIVE	30	UNID HANGAR	867.9	NONE
5	FLIGHT SUPPORT (FBS)	878.5	NONE	TO REMAIN	2403 AIRPORT DRIVE	31	UNID HANGAR	867.7	NONE
6	SURVEY PATROL BUILDING	878.3	NONE	TO REMAIN	2485 AIRPORT DRIVE	32	UNID HANGAR	869.2	NONE
7	VALLEY MEET FLIGHT	865.1	NONE	TO REMAIN	2487 AIRPORT DRIVE	33	UNID HANGAR	869.2	NONE
8	FUEL TANK BUILDING	855.5	NONE	TO REMAIN	NONE	34	UNID HANGAR	869.3	NONE
9						35	UNID HANGAR	871.5	NONE
10						36	UNID HANGAR	872.8	NONE
11						37	UNID OFFICES	872.8	NONE
12	HANGAR	855.9	NONE	TO BE RELOCATED	2547 AIRPORT DRIVE	38	AIR TRAFFIC CONTROL TOWER	849.3	NONE
13	HANGAR	857.8	NONE	TO BE REMOVED	2548 AIRPORT DRIVE	39	UNID HANGAR	871.7	NONE
14	HANGAR	859.6	NONE	TO BE RELOCATED	2521 AIRPORT DRIVE	40	LIFT STATION	858.0	NONE
15	HANGAR	855.8	NONE	TO BE REMOVED	2525 AIRPORT DRIVE	41	FAA TECH OPS	858.0	NONE
16	HANGAR	867.6	NONE	TO BE REMOVED	2531 AIRPORT DRIVE	42	GENIEA TOR FUEL TANK	849.1	NONE
17	HANGAR	867.5	NONE	TO REMAIN	2533 AIRPORT DRIVE	43	FAA TECH OPS/GARAGE	853.7	NONE
18						44	MAJOR ELEC REPAIR SHED	851.2	NONE
19	HANGAR (MASS 2)	867.1	NONE	TO BE RELOCATED	2711 AIRPORT DRIVE	45	GUIDESCOPE SHELTER	852.5	NONE
20	ELECTRICAL BUILDING	869.9	NONE	TO BE REMOVED	2841 AIRPORT DRIVE	46	STORAGE BUILDING	875.5	NONE
21	TICKETSCOOTER	849.2	NONE	TO REMAIN	NONE	47	LOCAL SET SHELTER	849.7	NONE
22	ROCK TOWER	859.9	NONE	TO REMAIN	NONE	48	EAST ELEC REPAIR BUILDING	869.3	NONE
23	CUSTOMER BUILDING	864.8	NONE	TO BE REMOVED	2725 AIRPORT DRIVE	49	WATER UTILITY BUILDING	861.4	NONE
24	OLD ADMIN OFFICES	869.5	NONE	TO BE REMOVED	2725 AIRPORT DRIVE	50	MILITARY MARKER SHELTER	852.7	NONE
25	CAR RENTAL FACILITY	855.3	NONE	TO REMAIN	2451 AIRPORT DRIVE	51	UNID HANGAR	853.7	NONE
26	ARRIVAL STAGE	872.5	NONE	TO REMAIN	TO BE DETERMINED				
28	MAINTENANCE & STORAGE	870.9	NONE	TO REMAIN	2874 AIRPORT DRIVE				



NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. SEE INNER APPROACH SHEETS FOR OBSTACLE DATA.
3. OBJECTS WITHIN 500' MUST REMAIN 15' BELOW WIND SENSOR.
4. OBJECTS 500'-1000' MUST REMAIN 10' BELOW WIND SENSOR.



LEGEND	
EXISTING (E)	ITEM
— BRL —	35' BUILDING RESTRICTION LINE (BRL)
— OFA —	RUNWAY OBJECT FREE AREA (OFA)
— OFZ —	RUNWAY OBSTACLE FREE ZONE (OFZ)
— RSA —	RUNWAY SAFETY AREA (RSA)
— TOFA —	TAXIWAY OBJECT FREE AREA (TOFA)
[Building symbol]	BUILDING
[Tree symbol]	DECIDUOUS/EVERGREEN TREE
[Bush symbol]	TREE ROWS, BUSHES
[Fence symbol]	CHAIN-LINK FENCE
[Light symbol]	POWER POLE/STREET LIGHT
[Tiedown symbol]	AIRPLANE TIEDOWN
[Runway symbol]	RUNWAY/THRESHOLD LIGHT
[Taxiway symbol]	TAXIWAY LIGHT/TAXIWAY REFLECTOR
[Sign symbol]	AIRPORT/DISTANCE TO GO SIGN

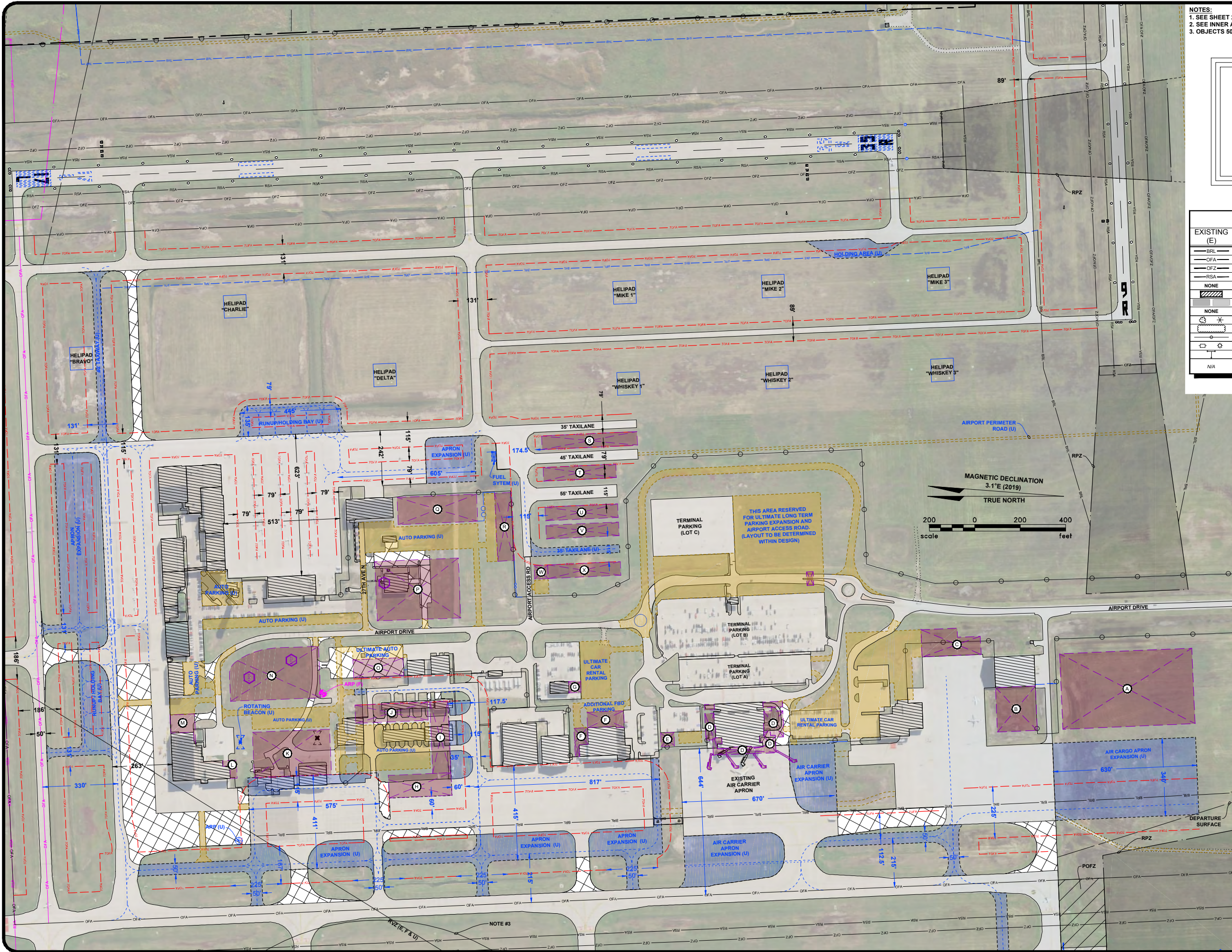
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TERMINAL AREA (EXISTING)

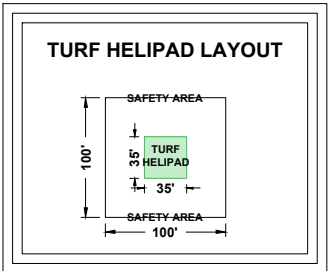
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NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. SEE INNER APPROACH SHEETS FOR OBSTACLE DATA.
3. OBJECTS 500'-1000' TO REMAIN 10' BELOW WIND SENSOR.



LEGEND		
EXISTING (E)	ITEM	ULTIMATE (U)
---	35' BUILDING RESTRICTION LINE (BRL)	---
---	RUNWAY OBJECT FREE AREA (OFA)	---
---	RUNWAY OBSTACLE FREE ZONE (OFZ)	---
---	RUNWAY SAFETY AREA (RSA)	---
---	TAXIWAY OBJECT FREE AREA (TOFA)	---
NONE	BUILDING	N/A
---	BITUMINOUS/CONCRETE SURFACE	---
NONE	ULTIMATE LANDSIDE PAVEMENT	---
---	DECIDUOUS/EVERGREEN TREE	NONE
---	TREE ROWS, BUSHES	NONE
---	CHAIN-LINK FENCE	---
---	POWER POLE/STREET LIGHT	NONE
---	AIRPLANE TIEDOWN	---
N/A	TO BE REMOVED/RELOCATED	---

LOT IDENTIFICATION TABLE (U)	
ID	DESCRIPTION
A	582'X332' CARGO HANGAR
B	175'X195' CARGO HANGAR
C	260'X120' CARGO HANGAR
D	TERMINAL EXPANSION
E	60'X60' US CUSTOMS BUILDING LOT
F	320'X80' BUILDING EXPANSION
G	CAR RENTAL EXPANSION
H	276'X100' HANGAR LOT
I	315'X80' HANGAR LOT
J	320'X80' HANGAR LOT
K	340'X200' COMMERCIAL HANGAR LOT
L	ARFF EXPANSION
M	SRE EXPANSION
N	POTENTIAL ATCT RELOCATION SITE
O	220'X80' HANGAR LOT
P	POTENTIAL ATCT RELOCATION SITE
Q	350'X120' HANGAR LOT
R	300'X74' HANGAR LOT
S	420'X60' T-HANGAR LOT
T	320'X60' T-HANGAR LOT
U	320'X60' T-HANGAR LOT
V	320'X60' T-HANGAR LOT
W	60'X60' GATE TERMINAL
N	320'X60' T-HANGAR LOT



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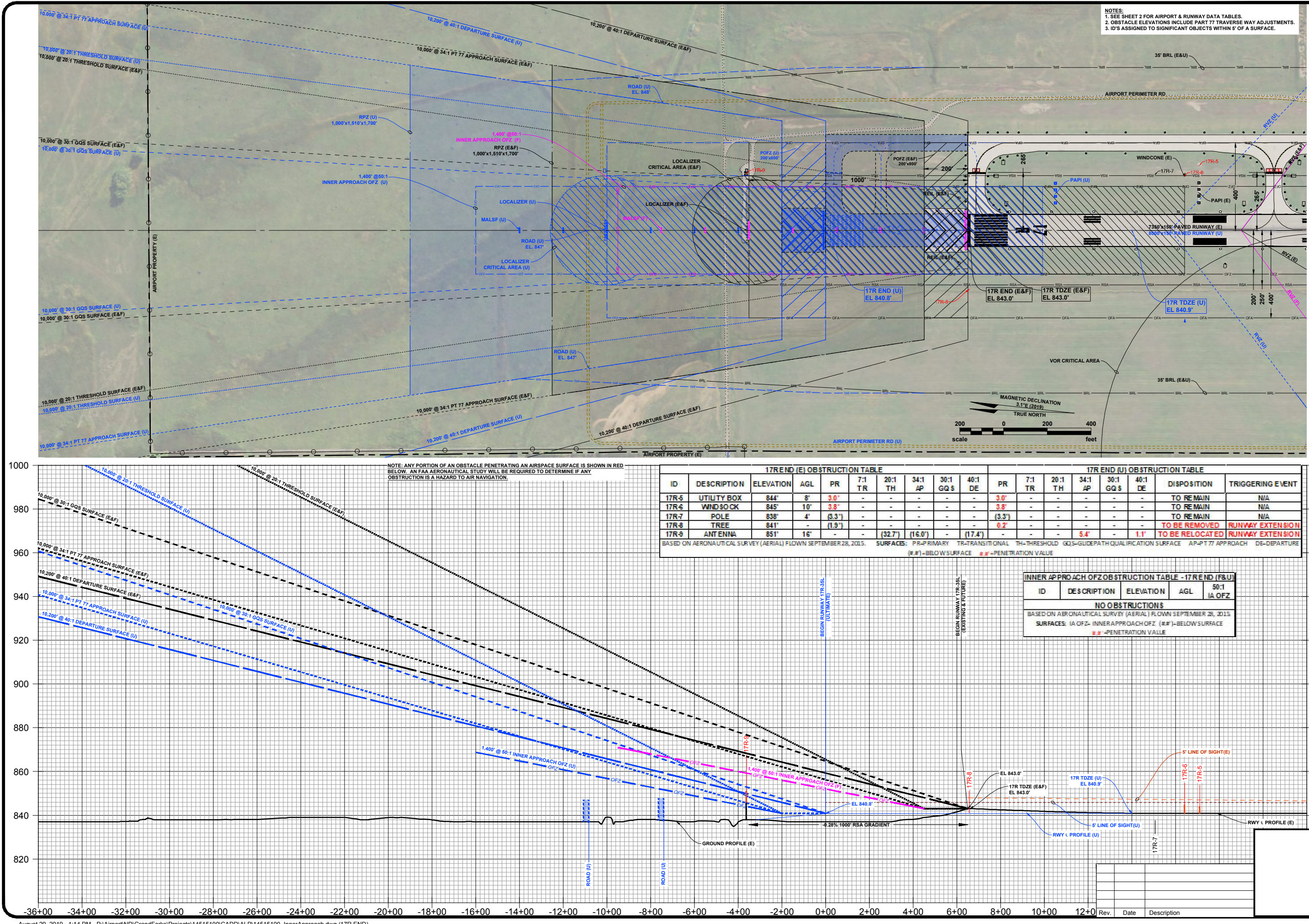
**TERMINAL AREA
(ULTIMATE)**

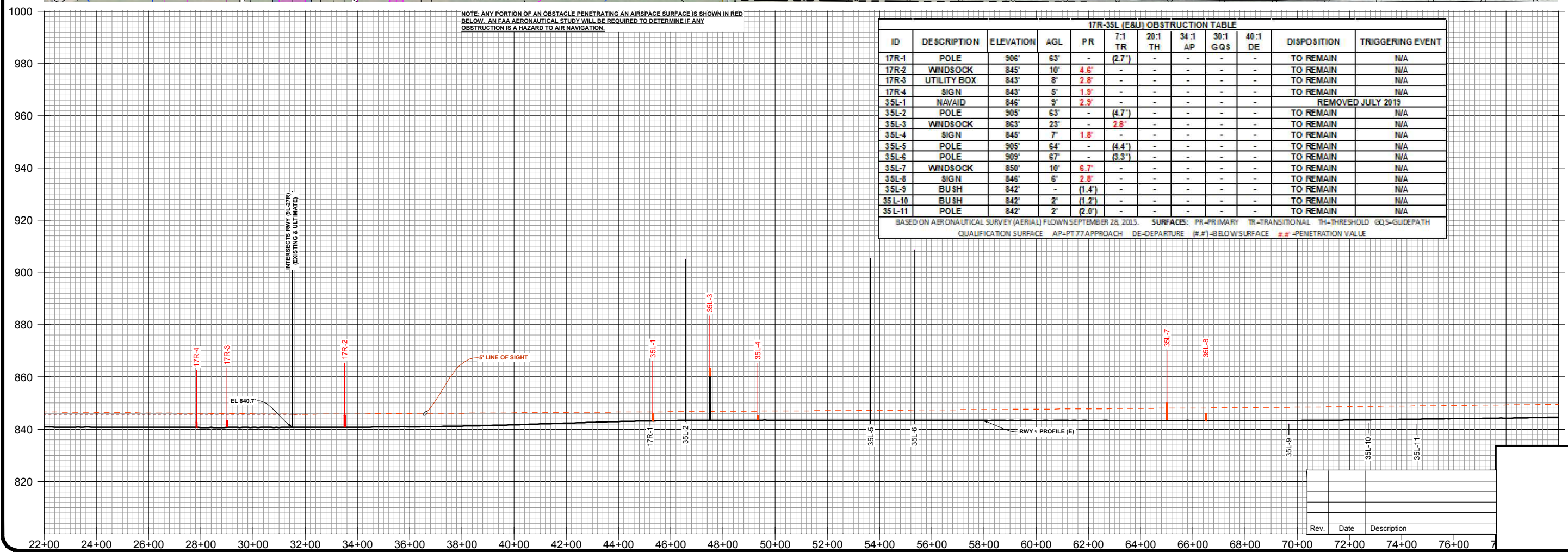
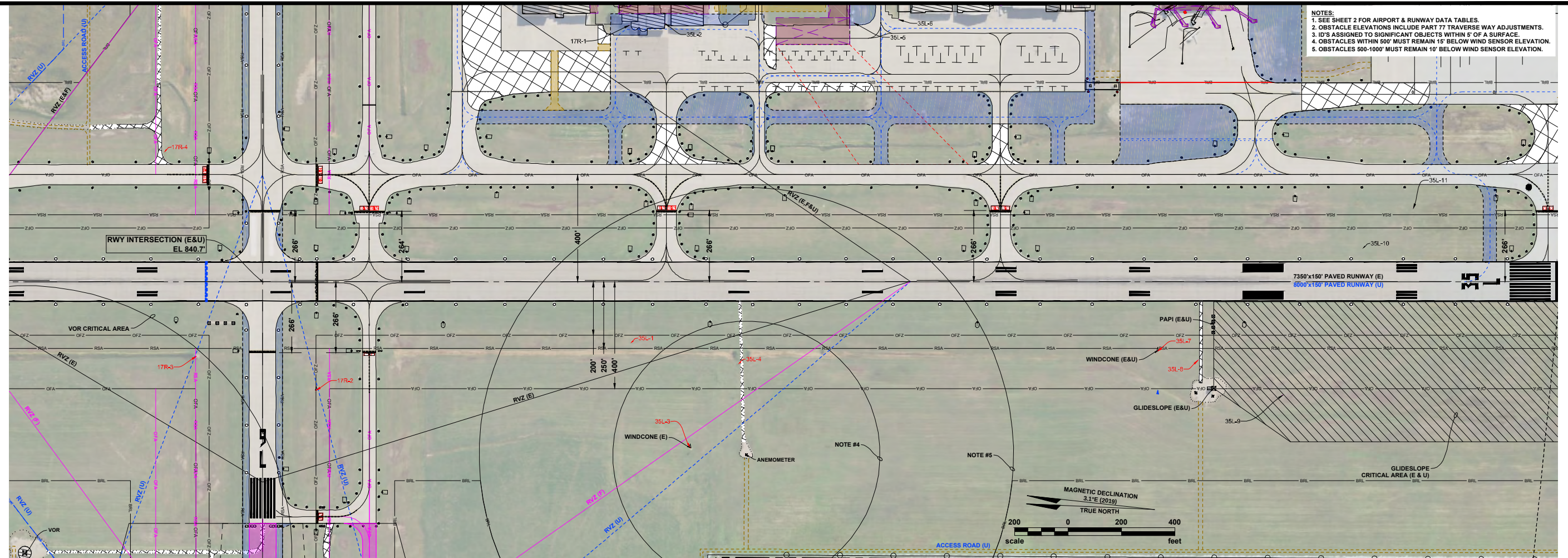
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- NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
 2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
 3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.



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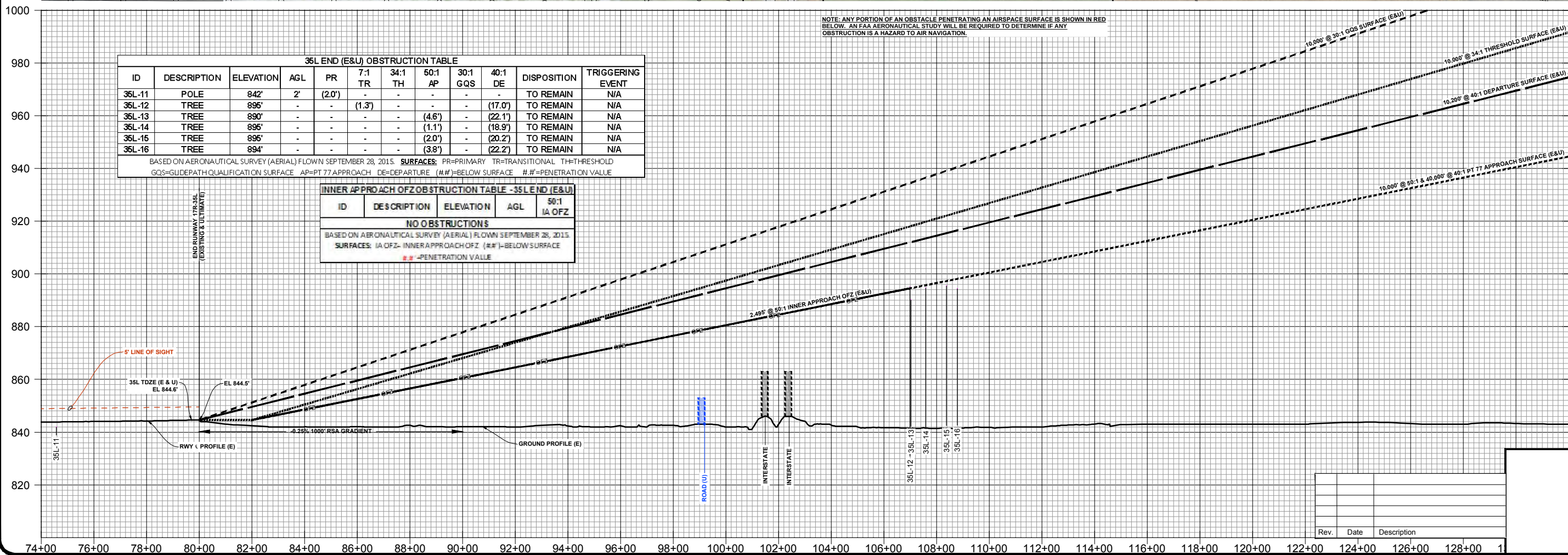
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35L END (E&U) OBSTRUCTION TABLE											
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	34:1 TH	50:1 AP	30:1 GQS	40:1 DE	DISPOSITION	TRIGGERING EVENT
35L-11	POLE	842'	2'	(2.0')	-	-	-	-	-	TO REMAIN	N/A
35L-12	TREE	895'	-	-	(1.3')	-	-	-	(17.0')	TO REMAIN	N/A
35L-13	TREE	890'	-	-	-	-	(4.6')	-	(22.1')	TO REMAIN	N/A
35L-14	TREE	895'	-	-	-	-	(1.1')	-	(18.9')	TO REMAIN	N/A
35L-15	TREE	895'	-	-	-	-	(2.0')	-	(20.2')	TO REMAIN	N/A
35L-16	TREE	894'	-	-	-	-	(3.8')	-	(22.2')	TO REMAIN	N/A

BASED ON AERONAUTICAL SURVEY (AERIAL) FLOWN SEPTEMBER 28, 2015
SURFACES: PR=PRIMARY TR=TRANSITIONAL TH=THRESHOLD
GQS=GLIDE PATH QUALIFICATION SURFACE AP=PT 77 APPROACH DE=DEPARTURE (##)=BELOW SURFACE ##=PENETRATION VALUE

INNER APPROACH OFZ OBSTRUCTION TABLE - 35L END (E&U)				
ID	DESCRIPTION	ELEVATION	AGL	50:1 IA OFZ
NO OBSTRUCTIONS				

BASED ON AERONAUTICAL SURVEY (AERIAL) FLOWN SEPTEMBER 28, 2015
SURFACES: IA OFZ= INNER APPROACH OFZ (##)=BELOW SURFACE
##=PENETRATION VALUE

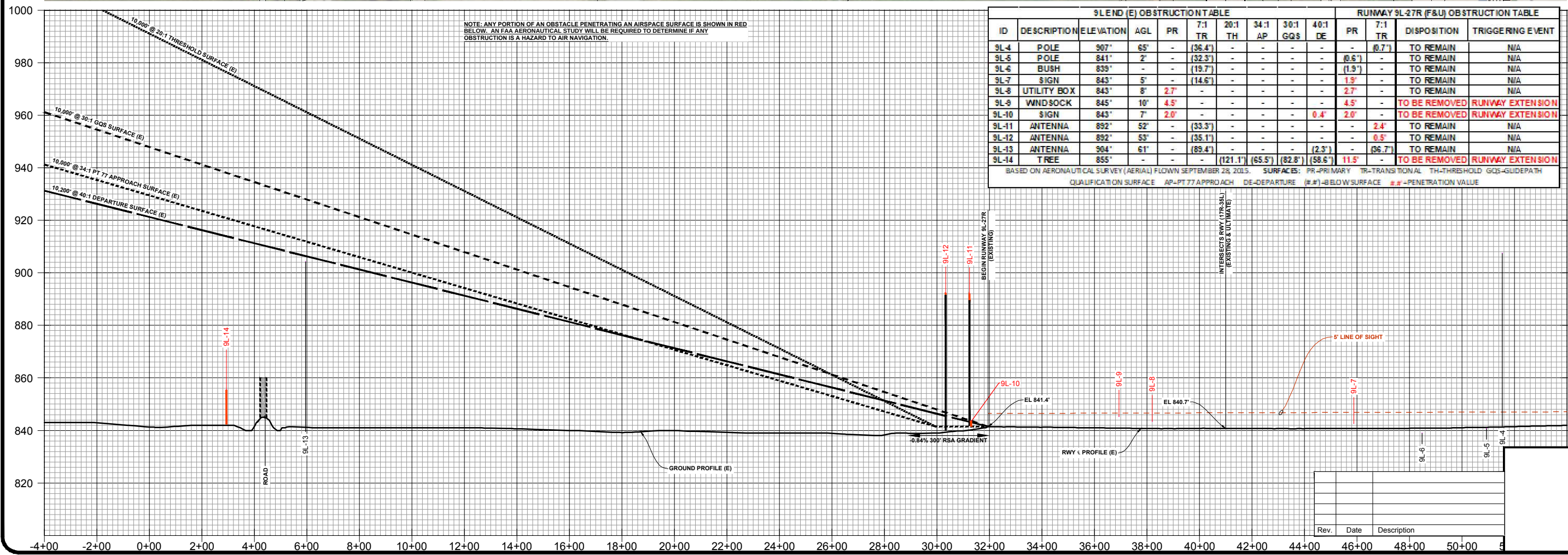
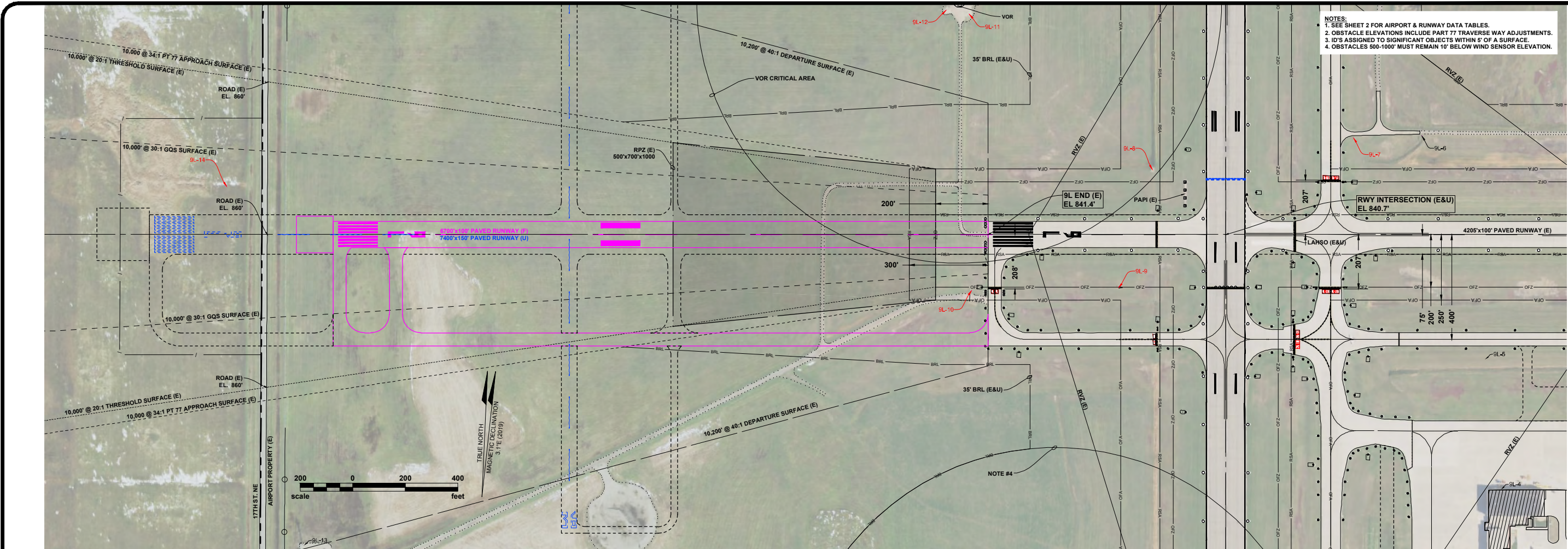


NOTE: ANY PORTION OF AN OBSTACLE PENETRATING AN AIRSPACE SURFACE IS SHOWN IN RED BELOW. AN FAA AERONAUTICAL STUDY WILL BE REQUIRED TO DETERMINE IF ANY OBSTRUCTION IS A HAZARD TO AIR NAVIGATION.

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INNER PORTION OF THE APPROACH SURFACE RUNWAY 35L END (EXISTING & ULTIMATE)

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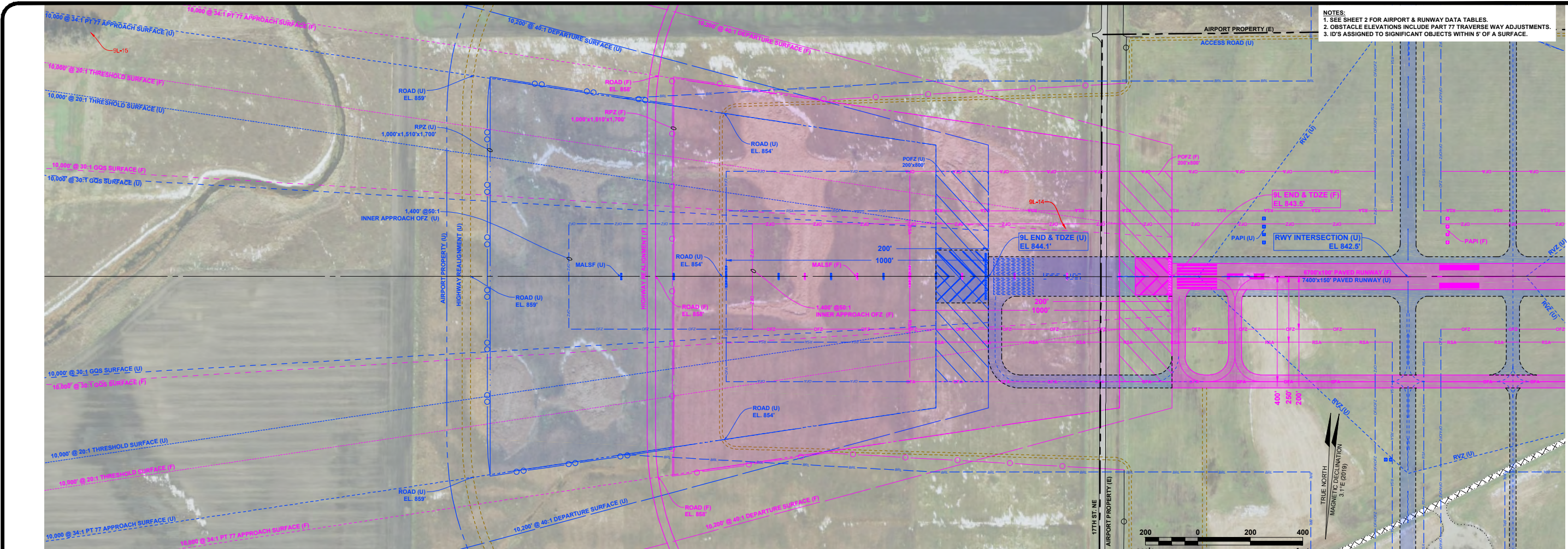
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INNER PORTION OF THE APPROACH SURFACE
RUNWAY 9L-27R (EXISTING)
RUNWAY 9L-27R (FUTURE & ULTIMATE)

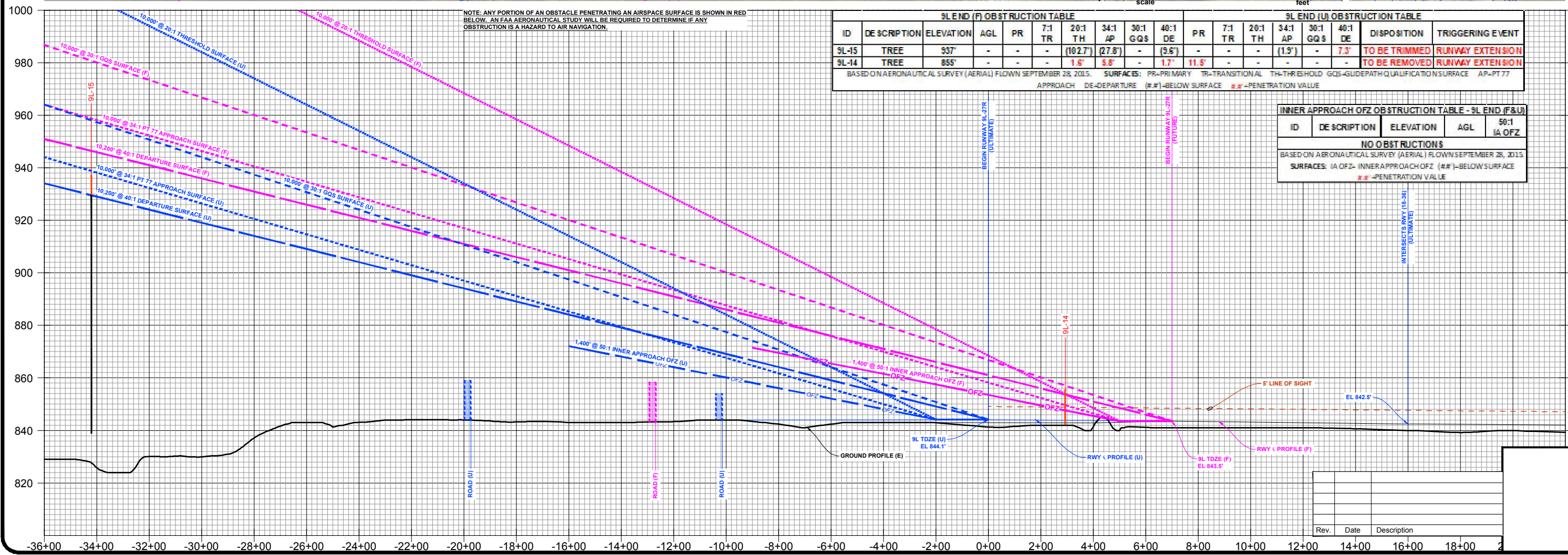
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NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.



NOTE: ANY PORTION OF AN OBSTACLE PENETRATING AN AIRSPACE SURFACE IS SHOWN IN RED BELOW. AN FAA AERONAUTICAL STUDY WILL BE REQUIRED TO DETERMINE IF ANY OBSTRUCTION IS A HAZARD TO AIR NAVIGATION.

9L END (F) OBSTRUCTION TABLE											
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	20:1 TH	34:1 AP	30:1 GQS	40:1 DE	PR	7:1 TR
9L-15	TREE	937'	-	-	-	(102.7')	(27.8')	-	(9.6')	-	-
9L-14	TREE	855'	-	-	-	1.6'	8.8'	-	1.7'	11.5'	-

BASED ON AERONAUTICAL SURVEY (AERIAL) FLOWN SEPTEMBER 28, 2015. SURFACES: PR-PRIMARY TR-TRANSITIONAL TH-THRESHOLD GQS-GLIDEPATH QUALIFICATION SURFACE AP-PT 77

APPROACH DE-DEPARTURE (#.#)-BELOW SURFACE ##-PENETRATION VALUE

INNER APPROACH OFZ OBSTRUCTION TABLE - 9L END (F&U)				
ID	DESCRIPTION	ELEVATION	AGL	50:1 IA OFZ
NO OBSTRUCTIONS				

BASED ON AERONAUTICAL SURVEY (AERIAL) FLOWN SEPTEMBER 28, 2015

SURFACES: IA OFZ-INNER APPROACH OFZ (##)-BELOW SURFACE ##-PENETRATION VALUE

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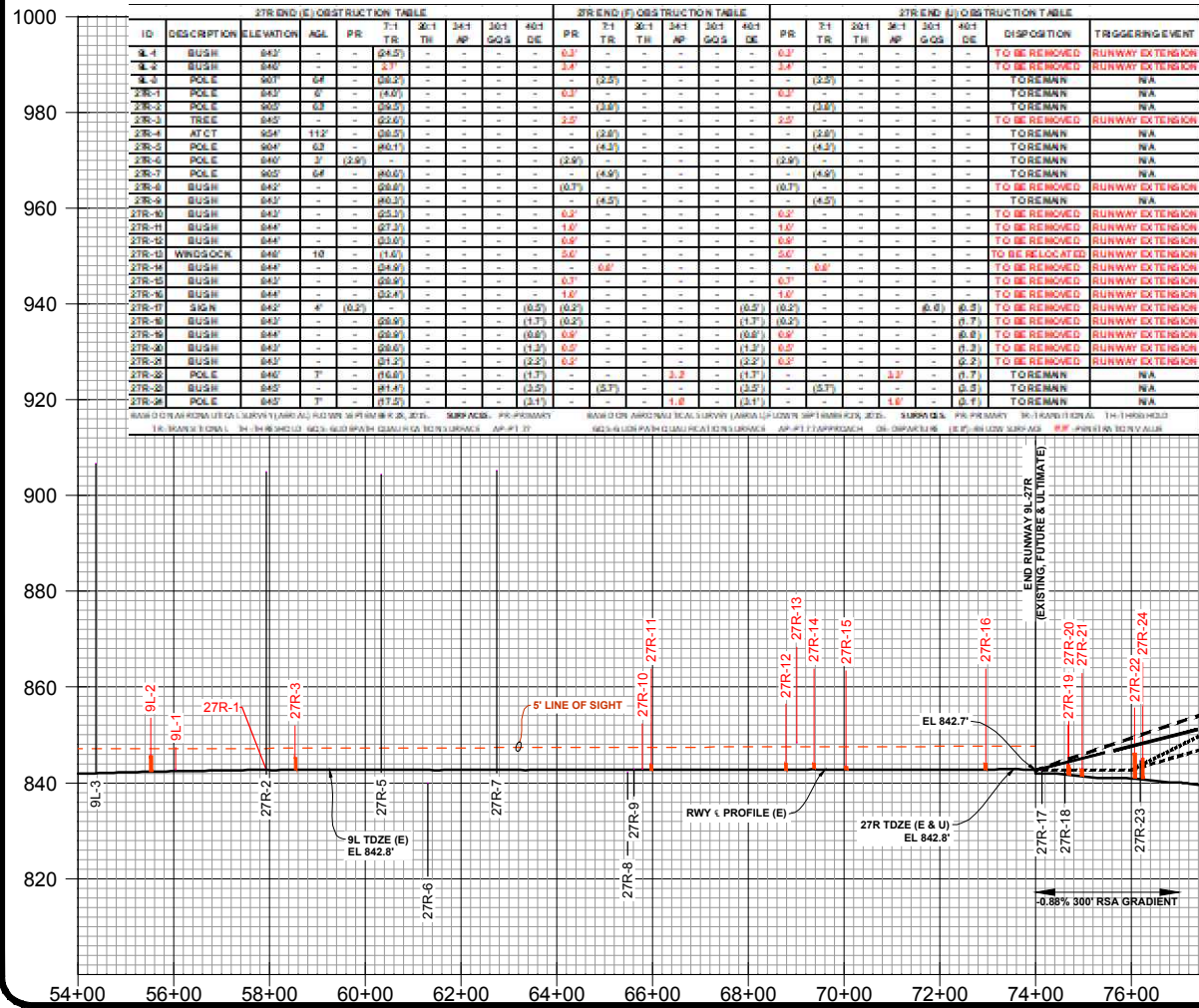
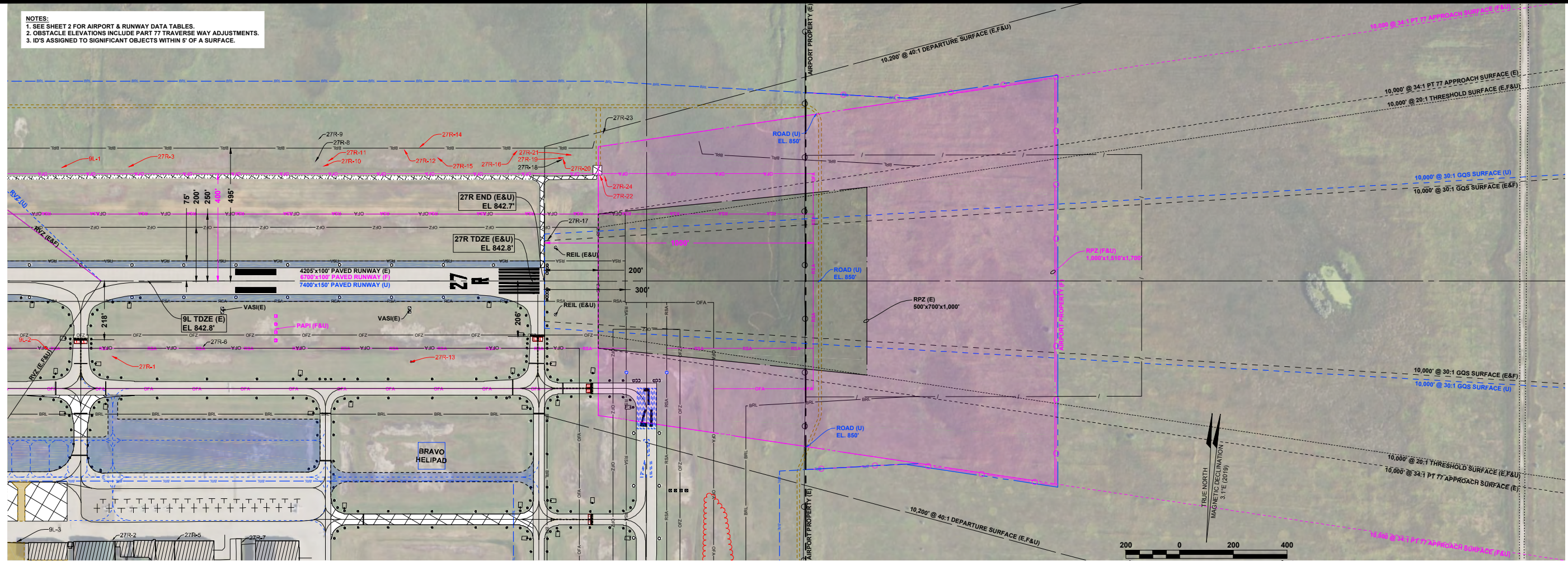
INNER PORTION OF THE APPROACH SURFACE
RUNWAY 9L END
(FUTURE & ULTIMATE)

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NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
3. IDS'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.



NOTE: ANY PORTION OF AN OBSTACLE PENETRATING AN AIRSPACE SURFACE IS SHOWN IN RED BELOW. AN FAA AERONAUTICAL STUDY WILL BE REQUIRED TO DETERMINE IF ANY OBSTRUCTION IS A HAZARD TO AIR NAVIGATION.

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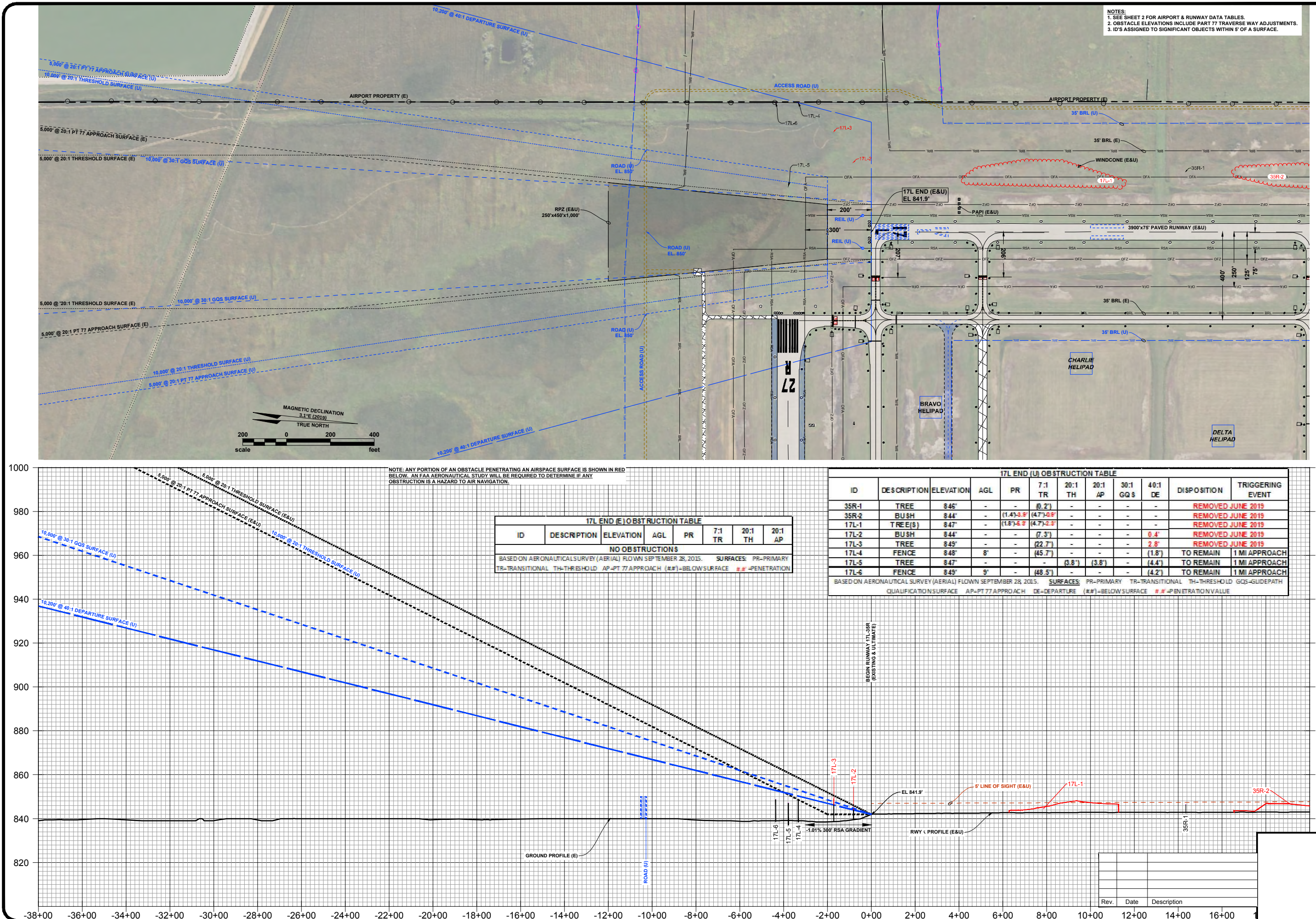


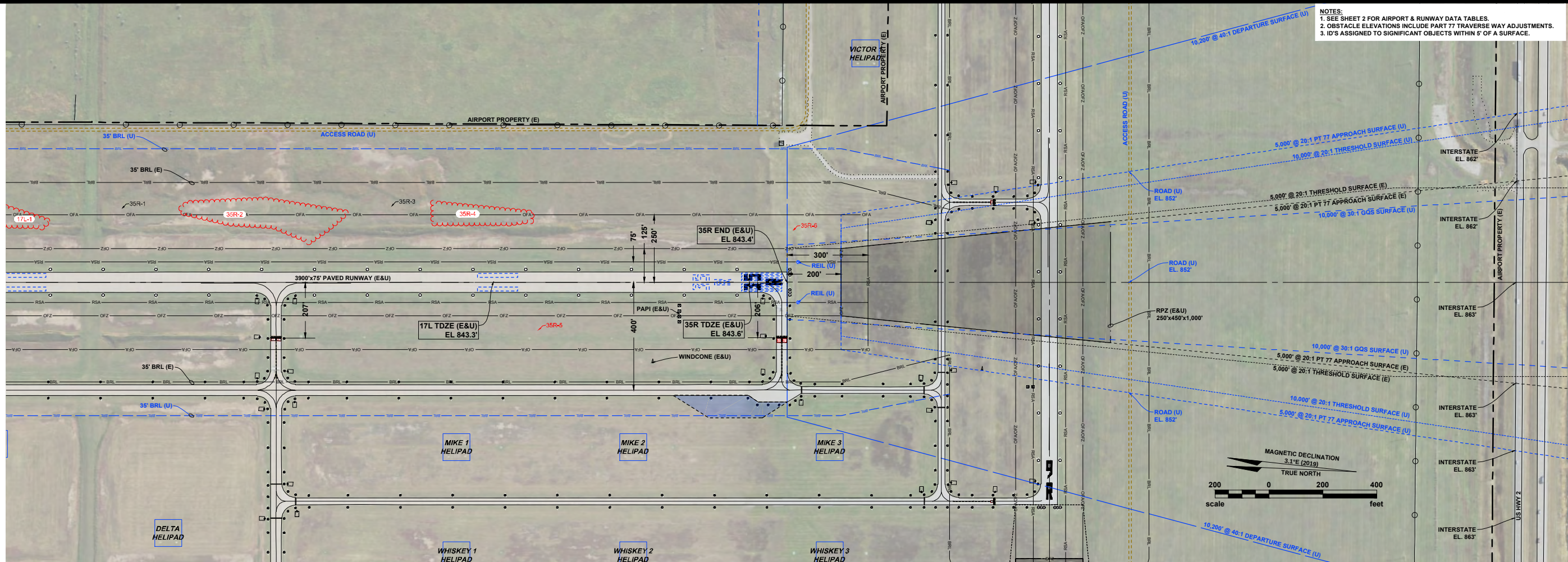
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INNER PORTION OF THE APPROACH SURFACE
RUNWAY 27R END
(EXISTING, FUTURE & ULTIMATE)

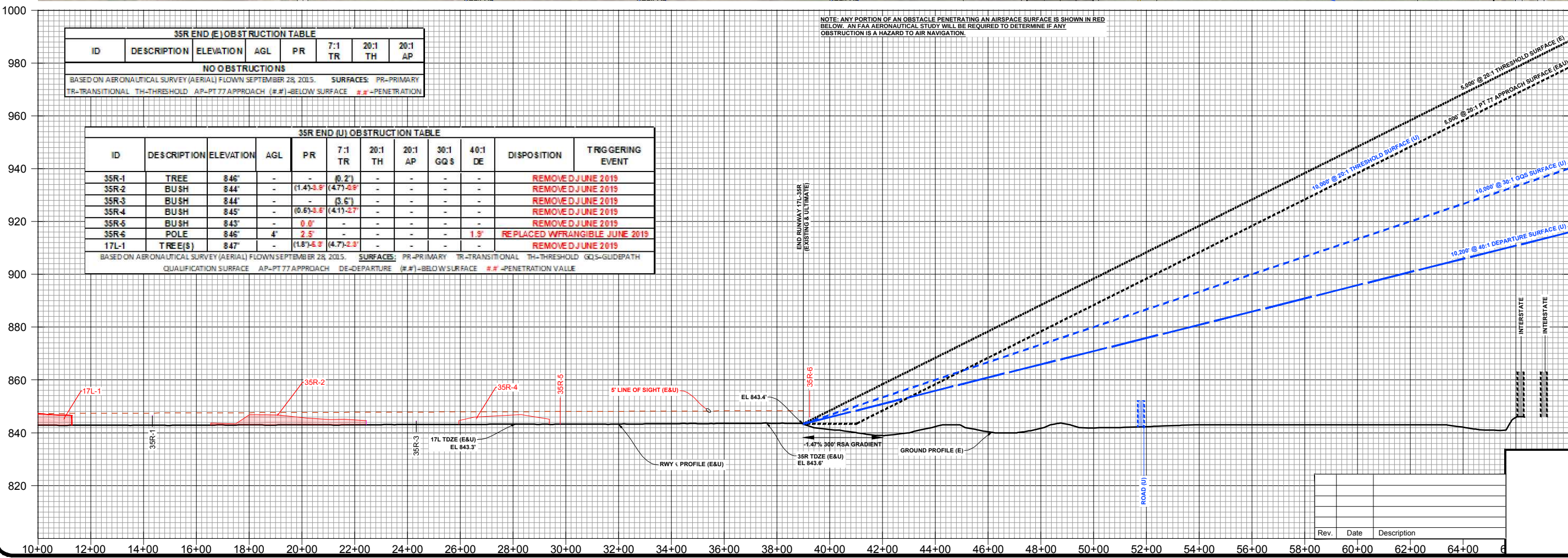
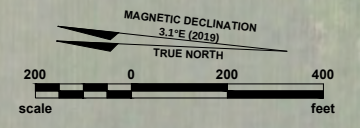
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NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.



35R END (E) OBSTRUCTION TABLE						
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	20:1 TH
NO OBSTRUCTIONS						
BASED ON AERONAUTICAL SURVEY (AERIAL) FLOWN SEPTEMBER 28, 2015. SURFACES: PR-PRIMARY TR-TRANSITIONAL TH-THRESHOLD AP-PT 77 APPROACH (#) -BELOW SURFACE # -PENETRATION						

35R END (U) OBSTRUCTION TABLE										
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	20:1 TH	20:1 AP	30:1 GQ	40:1 DE	DISPOSITION
35R-1	TREE	846'	-	-	(0.2')	-	-	-	-	REMOVED JUNE 2019
35R-2	BUSH	844'	-	(1.4)-3.9'	(4.7)-9.8'	-	-	-	-	REMOVED JUNE 2019
35R-3	BUSH	844'	-	-	(3.6')	-	-	-	-	REMOVED JUNE 2019
35R-4	BUSH	845'	-	(0.6)-3.6'	(4.1)-2.7'	-	-	-	-	REMOVED JUNE 2019
35R-5	BUSH	843'	-	0.0'	-	-	-	-	-	REMOVED JUNE 2019
35R-6	POLE	846'	4'	2.5'	-	-	-	-	1.3'	REPLACED W/FRANGIBLE JUNE 2019
17L-1	TREE(S)	847'	-	(1.8)-5.3'	(4.7)-2.3'	-	-	-	-	REMOVED JUNE 2019
BASED ON AERONAUTICAL SURVEY (AERIAL) FLOWN SEPTEMBER 28, 2015. SURFACES: PR-PRIMARY TR-TRANSITIONAL TH-THRESHOLD GQS-GUIDEPATH QUALIFICATION SURFACE AP-PT 77 APPROACH DE-DEPARTURE (#) -BELOW SURFACE # -PENETRATION VALUE										

NOTE: ANY PORTION OF AN OBSTACLE PENETRATING AN AIRSPACE SURFACE IS SHOWN IN RED BELOW. AN FAA AERONAUTICAL STUDY WILL BE REQUIRED TO DETERMINE IF ANY OBSTRUCTION IS A HAZARD TO AIR NAVIGATION.

Rev.	Date	Description

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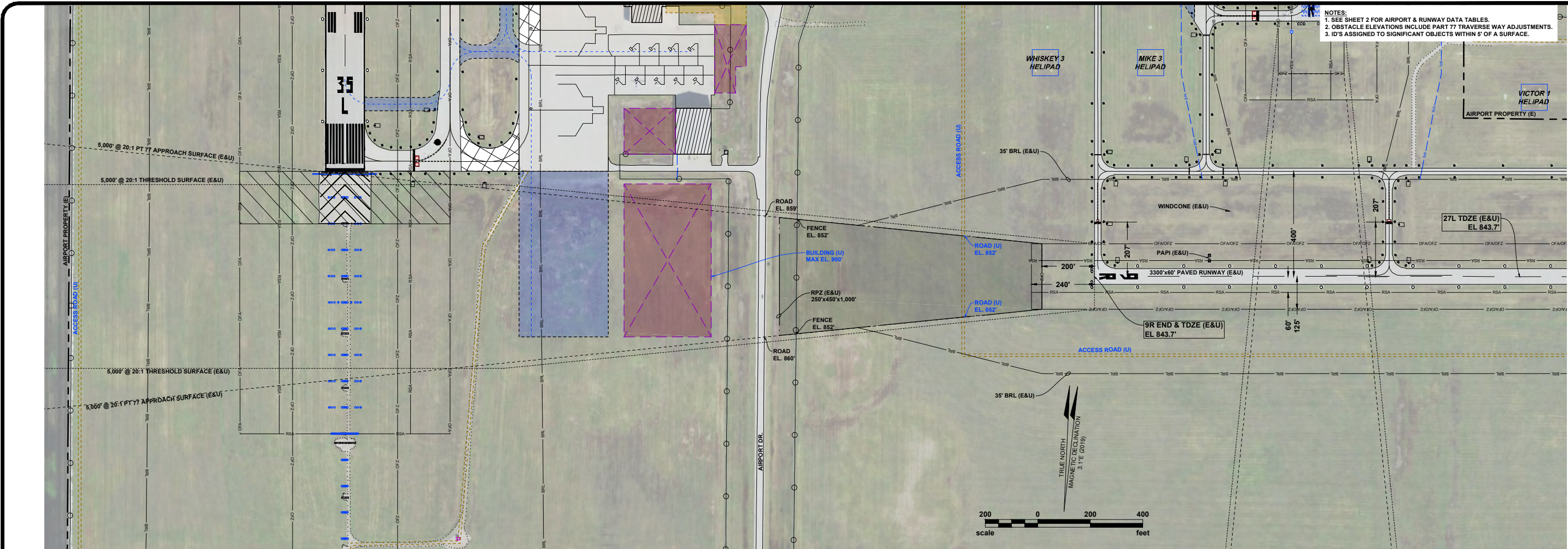
GRAND FORKS REGIONAL AIRPORT AUTHORITY (OWNER)
GRAND FORKS, NORTH DAKOTA

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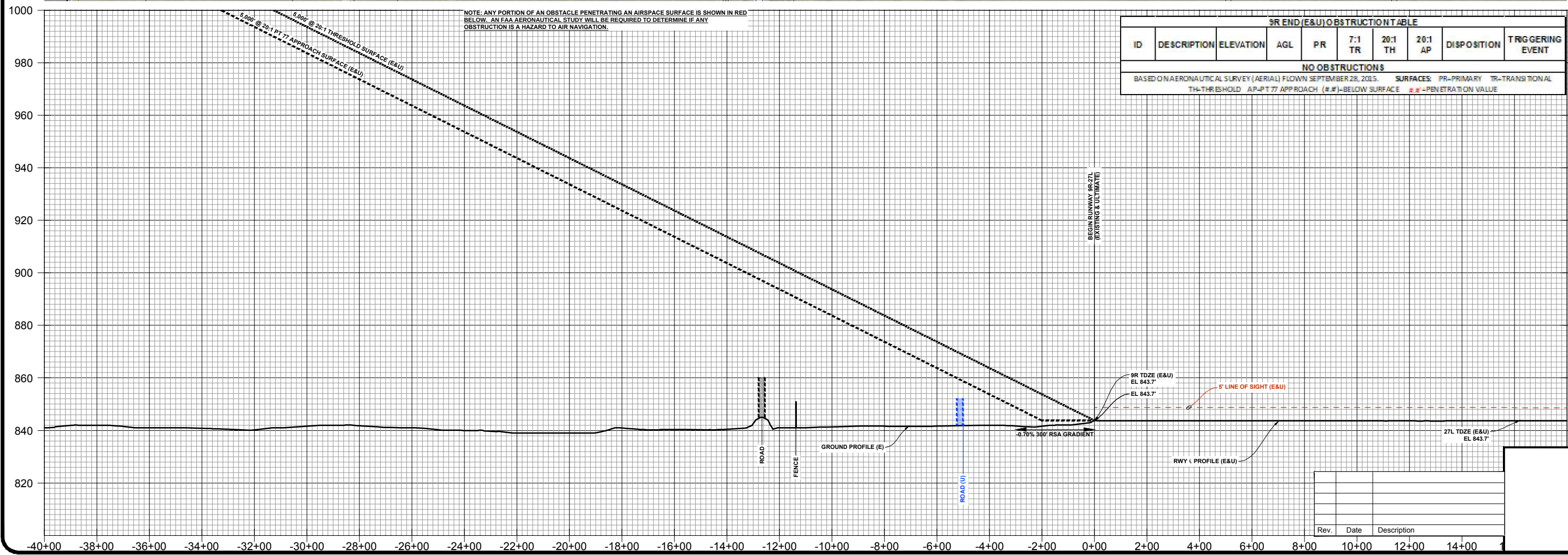
INNER PORTION OF THE APPROACH SURFACE RUNWAY 35R END (EXISTING, FUTURE & ULTIMATE)

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ARTZ
PROJECT NUMBER
14515100

SHEET
14



NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.



GRAND FORKS INTERNATIONAL AIRPORT

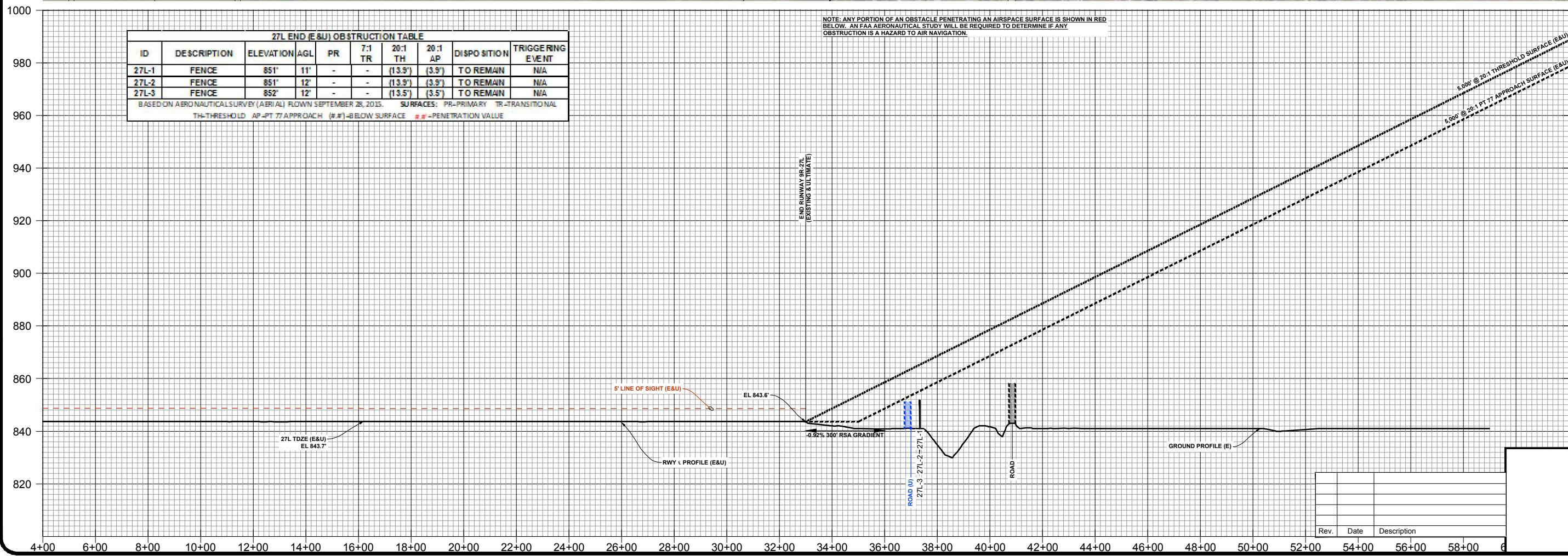
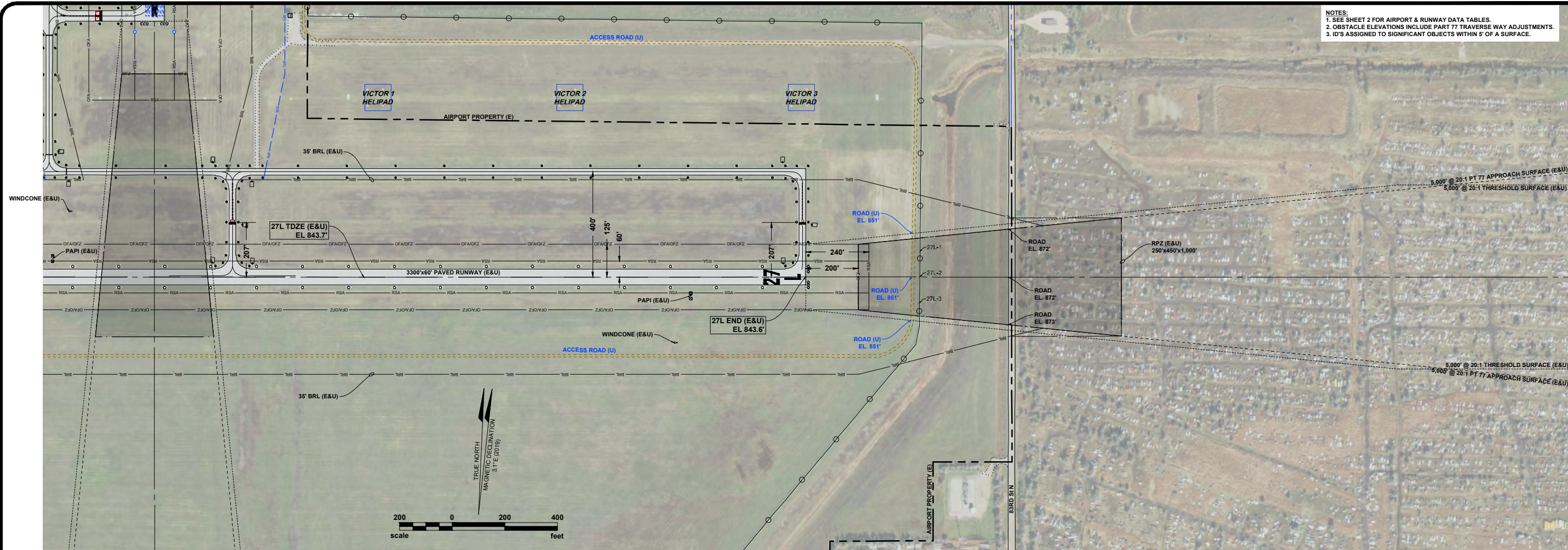
GRAND FORKS REGIONAL AIRPORT AUTHORITY (OWNER)
GRAND FORKS, NORTH DAKOTA

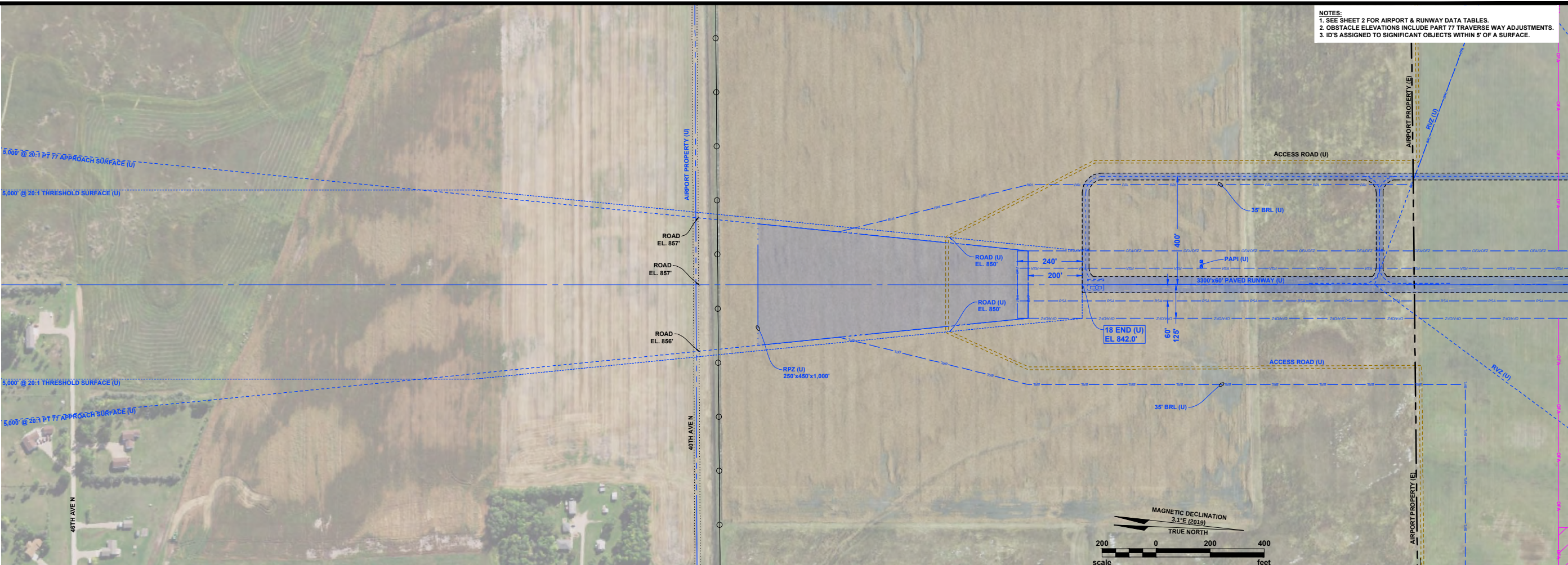
TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

INNER PORTION OF THE APPROACH SURFACE
RUNWAY 9R END
(EXISTING, FUTURE & ULTIMATE)

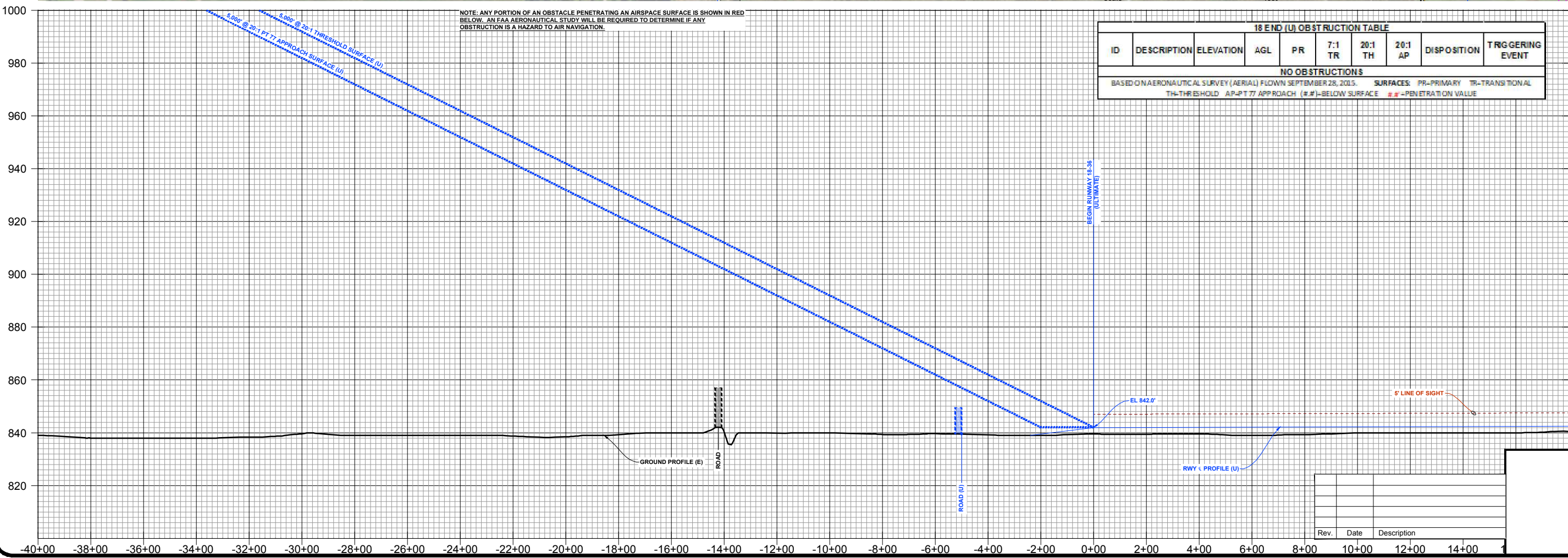
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PROJECT NUMBER
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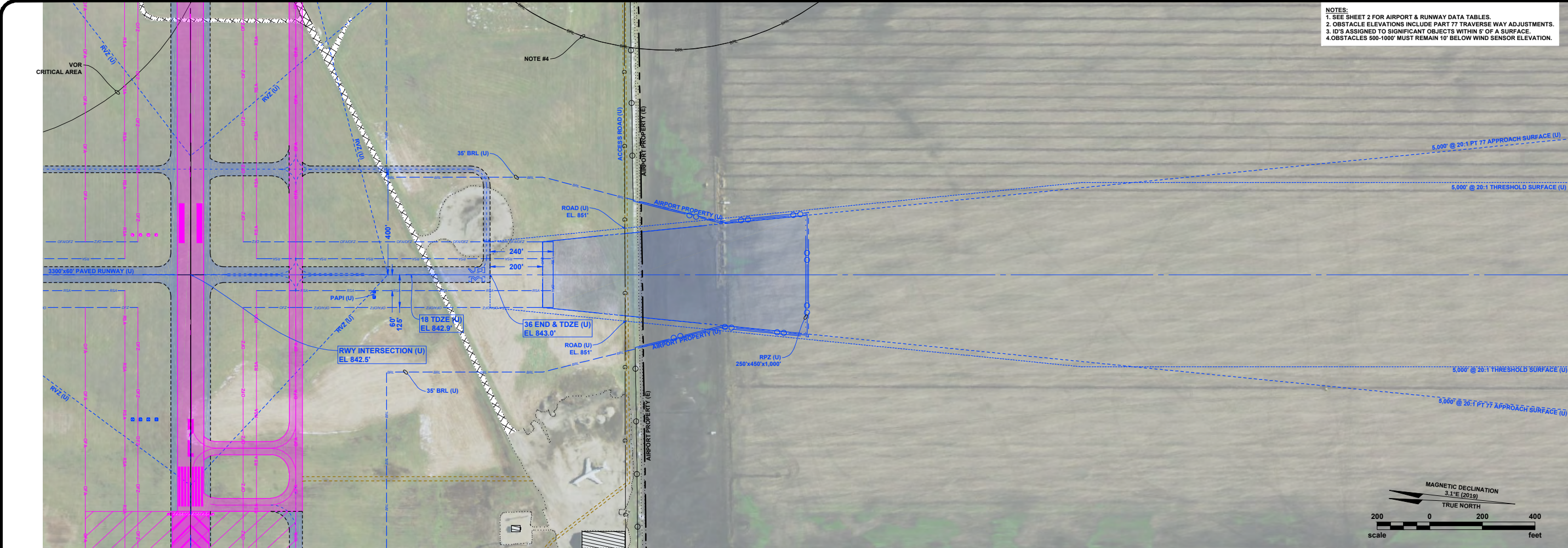
SHEET
15



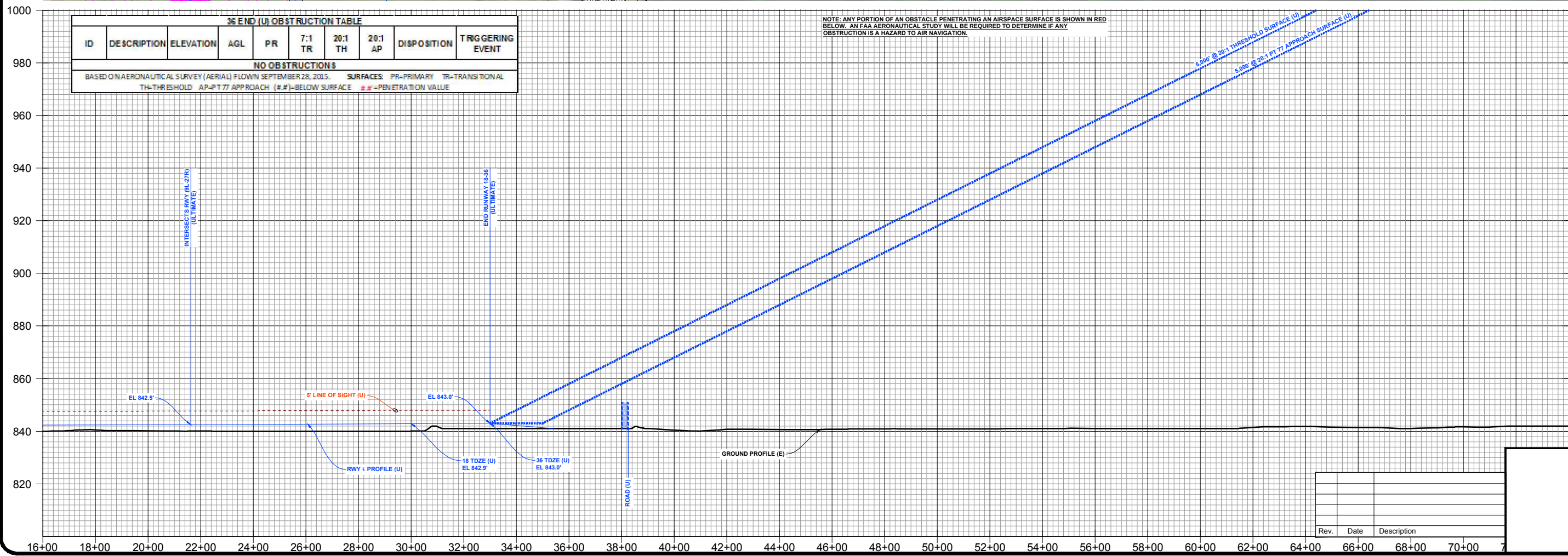


NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.





NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.
4. OBSTACLES 500-1000' MUST REMAIN 10' BELOW WIND SENSOR ELEVATION.



GRAND FORKS INTERNATIONAL AIRPORT

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GRAND FORKS, NORTH DAKOTA

INNER PORTION OF THE APPROACH SURFACE
RUNWAY 36 END
(ULTIMATE)

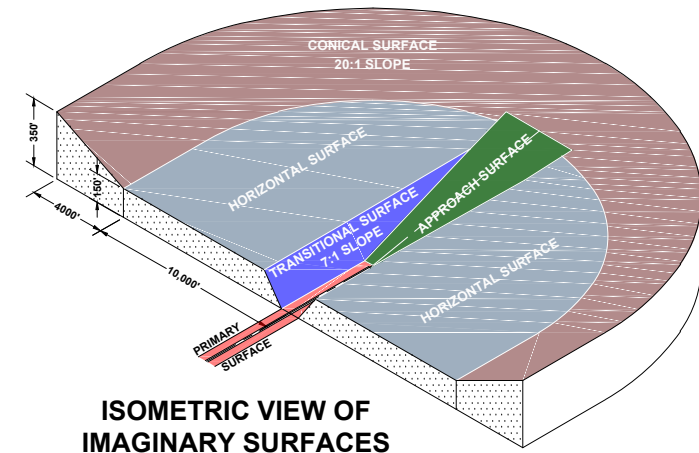
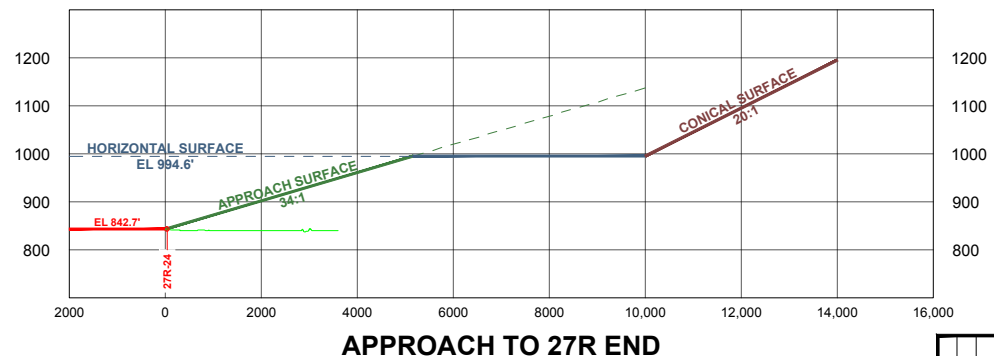
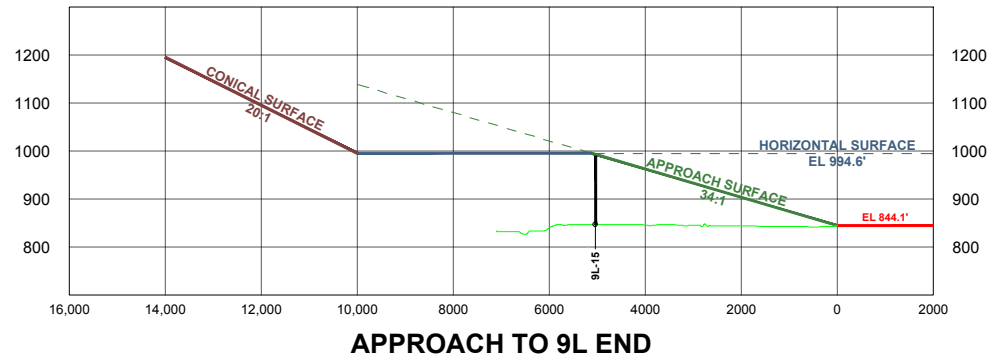
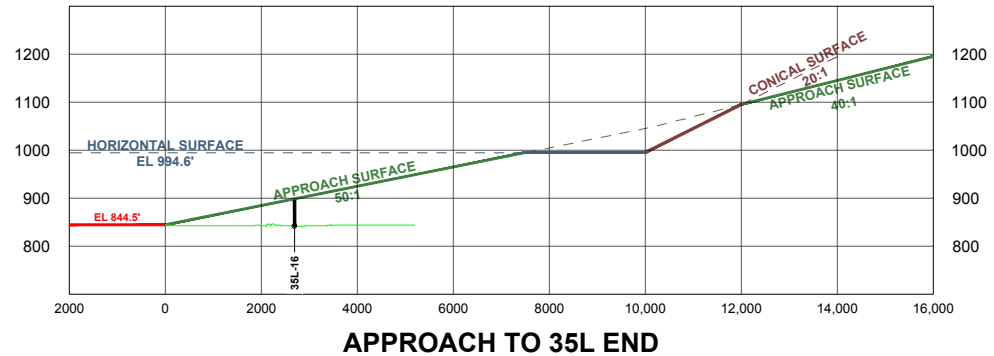
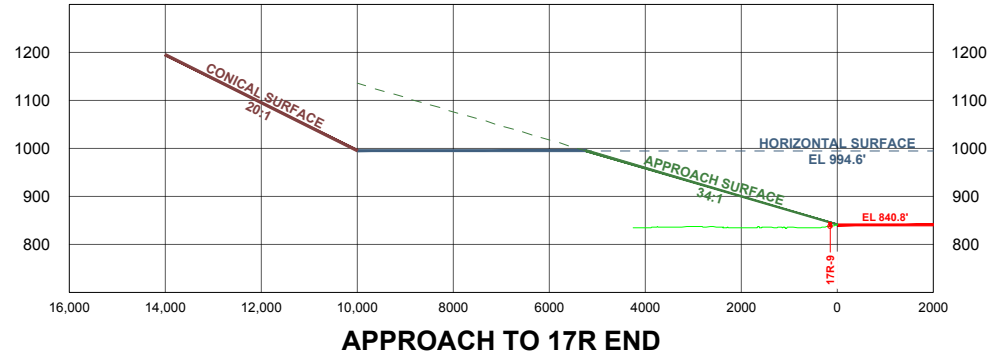
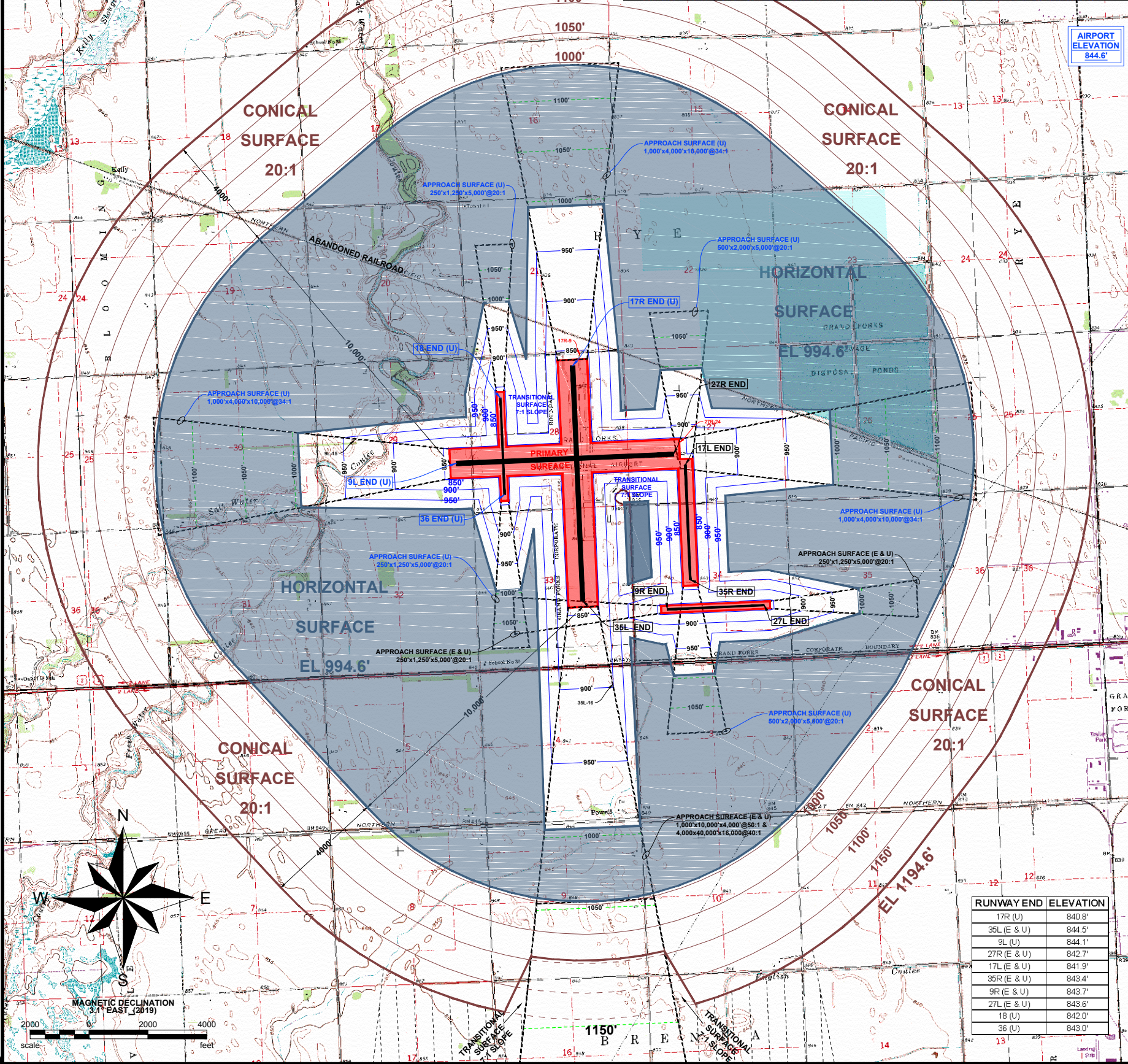
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PROJECT NUMBER
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18

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NOTES:
1. DATA USED WITHIN THIS AIRPORT LAYOUT PLAN SET IS BASED ON:
-AERONAUTICAL SURVEY (TOPOGRAPHIC) COMPLETED MARCH 3, 2016 BY KLJ AND AE2S.
-AERONAUTICAL SURVEY (AERIAL) FLOWN SEPTEMBER 28, 2015 (INCLUDES CONTOUR DATA).
-USGS NATIONAL ELEVATION DATASET AT 1/9 ARC SECOND.
-QUADRANGLE MAPS FROM USGS.
(DATA IS ONLY AS ACCURATE AS THE SOURCES LISTED. ANY TOWERS, STRUCTURES, OR OBJECTS
CONSTRUCTED AFTER THESE DATES ARE NOT REPRESENTED IN THIS AIRPORT LAYOUT PLAN SET.)
2. HORIZONTAL DATUM = (GRID) STATE PLANE, NAD 83, ND NORTH - FIPS 3301, INTERNATIONAL FEET.
3. VERTICAL DATUM = NAVD 88, U.S. SURVEY FEET.
4. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
5. SEE INNER APPROACH SURFACE SHEETS FOR CLOSE-IN RUNWAY AIRSPACE OBSTACLES.
6. AIRSPACE APPLIED TO THIS DRAWING IS BASED ON PART 77 OF THE F.A.R.'s.
7. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.
8. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.

PART 77 AIRSPACE OBSTRUCTION TABLE - 17R & 35L END (E&U)							
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	34:1 AP	DISPOSITION
17R-9	ANTENNA	851'	16'	-	-	54'	TO BE RELOCATED
35L-16	TREE	854'	-	-	-	38.8'	TO REMAIN
SURFACES: PR-PRIMARY TR-TRANSITIONAL AP-PT 77 APPROACH (#1)-BELOW SURFACE ##-PENETRATION VALUE							
PART 77 AIRSPACE OBSTRUCTION TABLE - 9L & 27R END (E&U)							
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	34:1 AP	DISPOSITION
9L-15	TREE	937'	-	-	-	11.9'	TO BE TRIMMED
27R-24	POLE	845'	7'	-	-	18'	TO REMAIN
SURFACES: PR-PRIMARY TR-TRANSITIONAL AP-PT 77 APPROACH (#1)-BELOW SURFACE ##-PENETRATION VALUE							



RUNWAY END	ELEVATION
17R (U)	840.8'
35L (E & U)	844.5'
9L (U)	844.1'
27R (E & U)	842.7'
17L (E & U)	841.9'
35R (E & U)	843.4'
9R (E & U)	843.7'
27L (E & U)	843.6'
18 (U)	842.0'
36 (U)	843.0'



GRAND FORKS INTERNATIONAL AIRPORT
GRAND FORKS REGIONAL AIRPORT AUTHORITY (OWNER)
GRAND FORKS, NORTH DAKOTA

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AIRPORT AIRSPACE
17R-35L & 9L-27R (ULTIMATE)

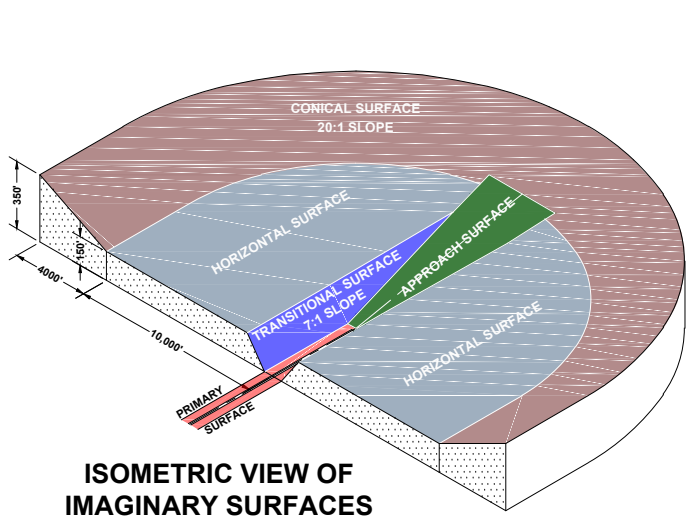
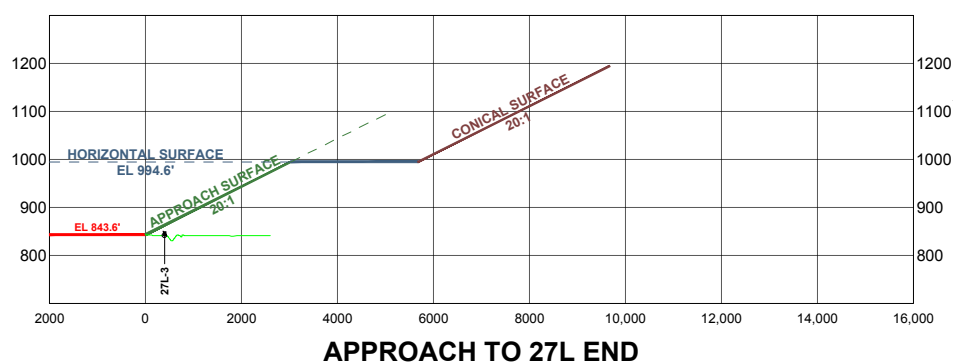
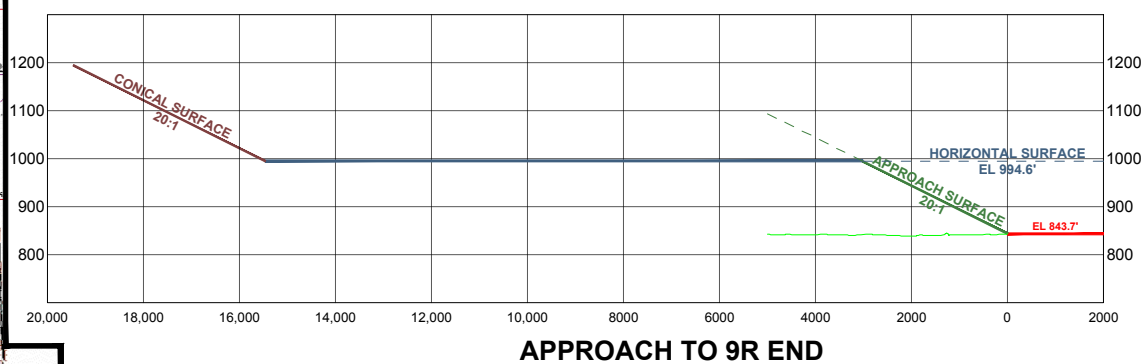
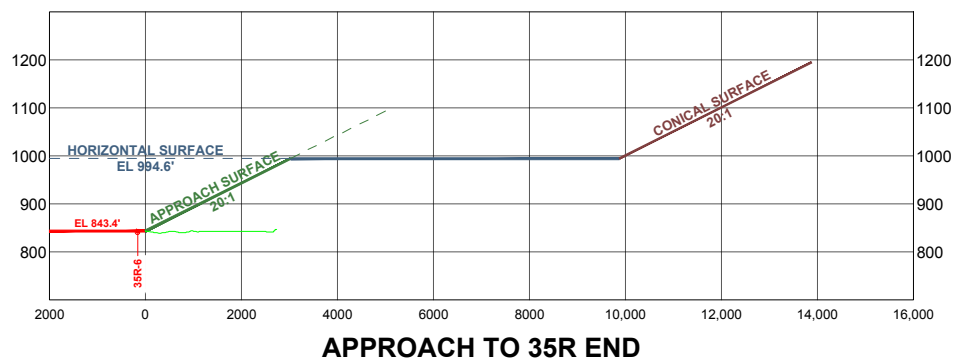
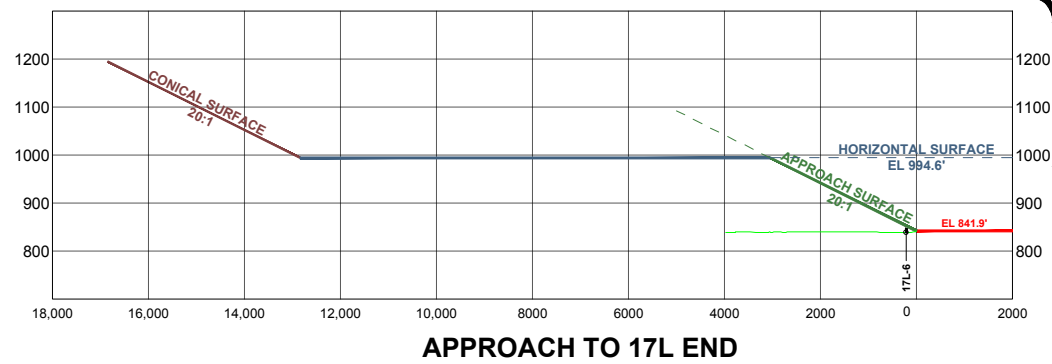
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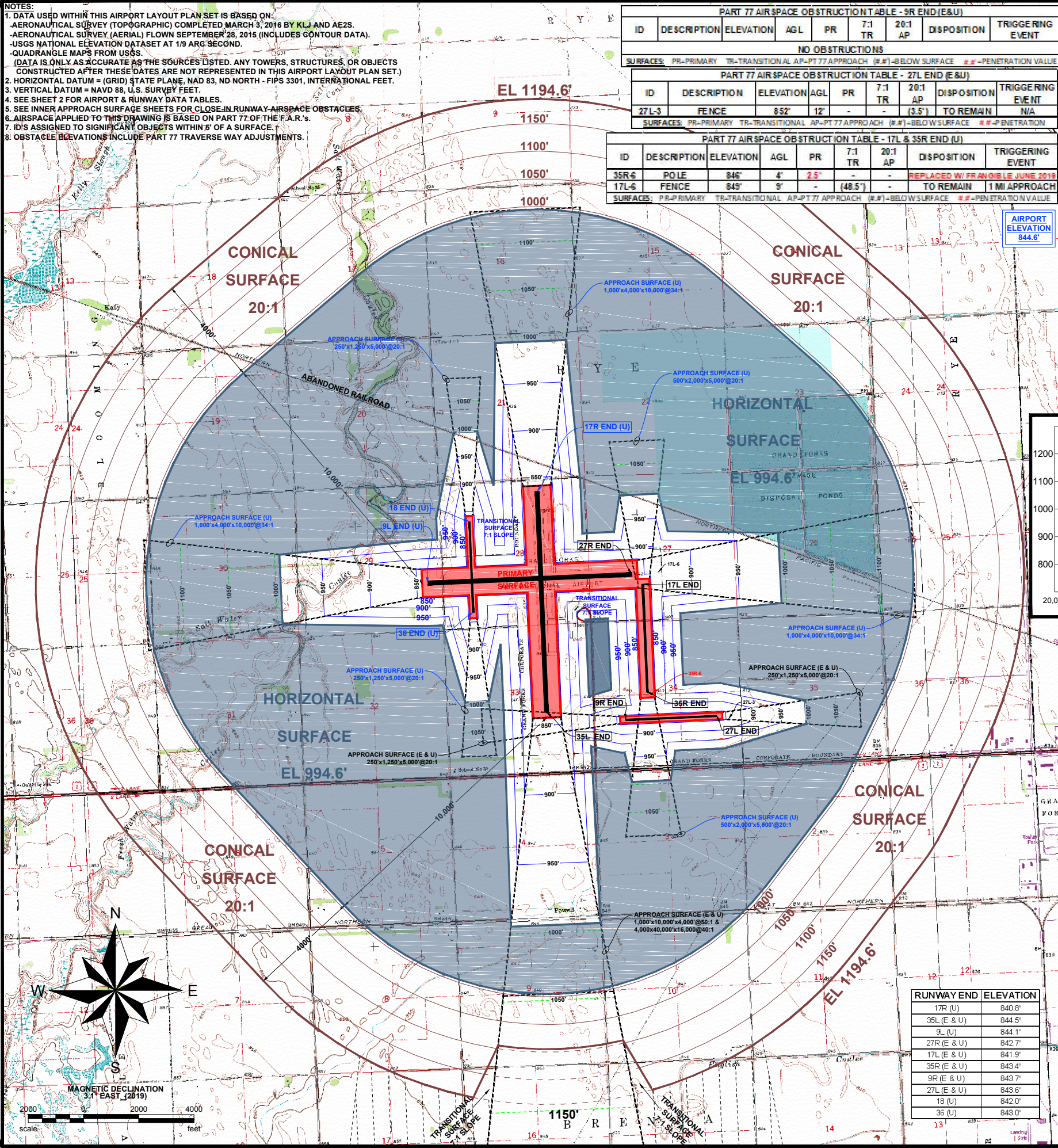
- NOTES:
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-QUADRANGLE MAPS FROM USGS.
(DATA IS ONLY AS ACCURATE AS THE SOURCES LISTED. ANY TOWERS, STRUCTURES, OR OBJECTS CONSTRUCTED AFTER THESE DATES ARE NOT REPRESENTED IN THIS AIRPORT LAYOUT PLAN SET.)
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 5. SEE INNER APPROACH SURFACE SHEETS FOR CLOSE-IN RUNWAY AIRSPACE OBSTACLES.
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 7. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.
 8. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.

PART 77 AIRSPACE OBSTRUCTION TABLE - 9R END (E&U)								
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	20:1 AP	DISPOSITION	TRIGGERING EVENT
NO OBSTRUCTIONS								
SURFACES: PR-PRIMARY TR-TRANSITIONAL AP-PT 77 APPROACH (#.#)-BELOW SURFACE ##-PENETRATION VALUE								
PART 77 AIRSPACE OBSTRUCTION TABLE - 27L END (E&U)								
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	20:1 AP	DISPOSITION	TRIGGERING EVENT
27L-3	FENCE	852'	12'	-	-	(3.5')	TO REMAIN	N/A
SURFACES: PR-PRIMARY TR-TRANSITIONAL AP-PT 77 APPROACH (#.#)-BELOW SURFACE ##-PENETRATION VALUE								
PART 77 AIRSPACE OBSTRUCTION TABLE - 17L & 35R END (U)								
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	20:1 AP	DISPOSITION	TRIGGERING EVENT
35R-6	POLE	846'	4'	2.5'	-	-	REPLACED W/ FRANGIBLE JUNE 2018	
17L-6	FENCE	849'	9'	-	(48.5')	-	TO REMAIN	1 MI APPROACH
SURFACES: PR-PRIMARY TR-TRANSITIONAL AP-PT 77 APPROACH (#.#)-BELOW SURFACE ##-PENETRATION VALUE								

AIRPORT ELEVATION 844.6'



RUNWAY END	ELEVATION
17R (U)	840.8'
35L (E & U)	844.5'
9L (U)	844.1'
27R (E & U)	842.7'
17L (E & U)	841.9'
35R (E & U)	843.4'
9R (E & U)	843.7'
27L (E & U)	843.6'
18 (U)	842.0'
36 (U)	843.0'



GRAND FORKS INTERNATIONAL AIRPORT
GRAND FORKS REGIONAL AIRPORT AUTHORITY (OWNER)
GRAND FORKS, NORTH DAKOTA

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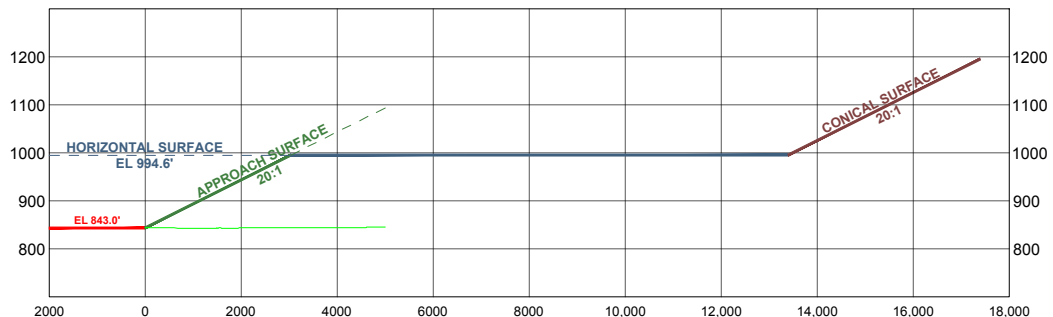
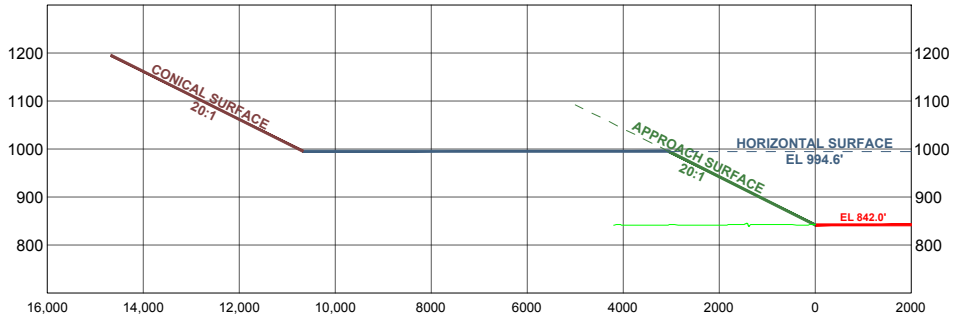
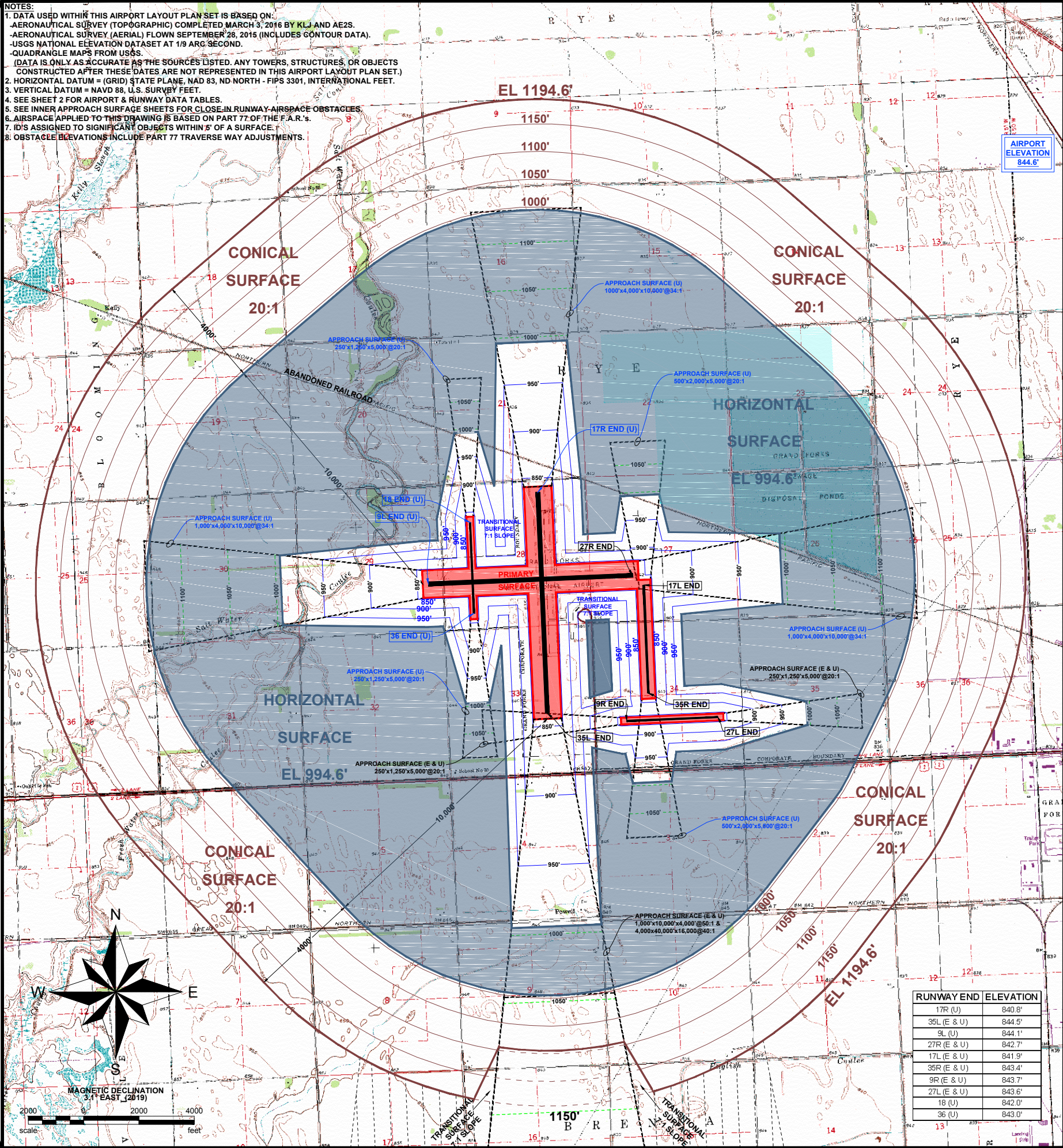
AIRPORT AIRSPACE
17L-35R & 9R-27L (ULTIMATE)

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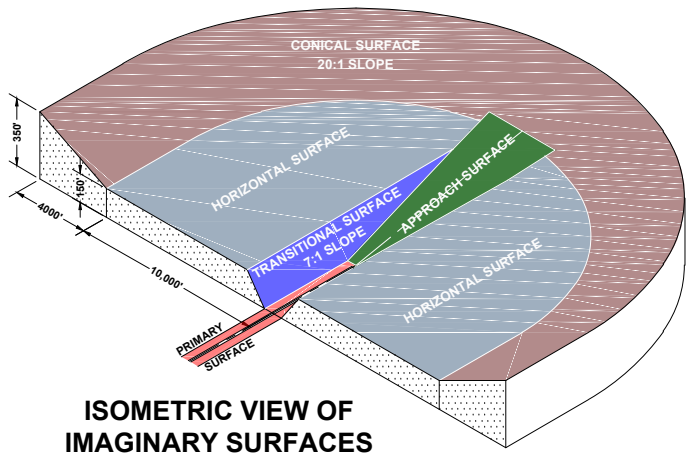
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- NOTES:
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-AERONAUTICAL SURVEY (TOPOGRAPHIC) COMPLETED MARCH 3, 2016 BY KLJ AND AE2S.
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 6. AIRSPACE APPLIED TO THIS DRAWING IS BASED ON PART 77 OF THE F.A.R.'s.
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 8. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.



PART 77 AIRSPACE OBSTRUCTION TABLE - 18 END (U)								
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	20:1 AP	DISPOSITION	TRIGGERING EVENT
NO OBSTRUCTIONS								
SURFACES: PR-PRIMARY TR-TRANSITIONAL AP-PART 77 APPROACH (#1-BELOW SURFACE #2-PENETRATION								

PART 77 AIRSPACE OBSTRUCTION TABLE - 36 END (U)								
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	20:1 AP	DISPOSITION	TRIGGERING EVENT
NO OBSTRUCTIONS								
SURFACES: PR-PRIMARY TR-TRANSITIONAL AP-PART 77 APPROACH (#1-BELOW SURFACE #2-PENETRATION								



GRAND FORKS INTERNATIONAL AIRPORT

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GRAND FORKS, NORTH DAKOTA

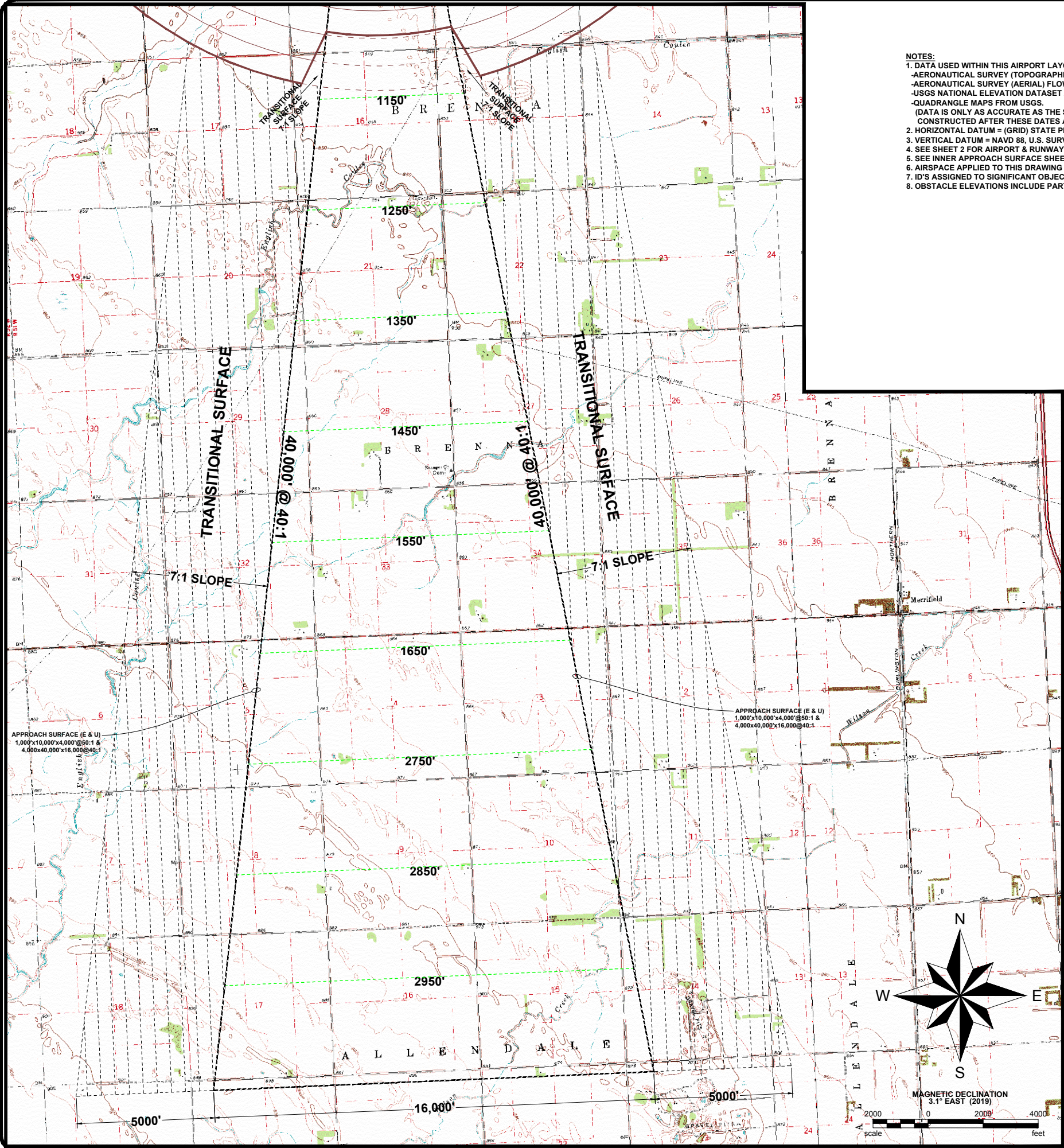
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AIRPORT AIRSPACE
18-36 (ULTIMATE)

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NOTES:
1. DATA USED WITHIN THIS AIRPORT LAYOUT PLAN SET IS BASED ON:
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3. VERTICAL DATUM = NAVD 88, U.S. SURVEY FEET.
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8. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.

PART 77 AIRSPACE OBSTRUCTION TABLE - 35L END (E&U)						
ID	DESCRIPTION	ELEVATION	AGL	PR	7:1 TR	50:1 AP
NO OBSTRUCTIONS						
BASED ON AERONAUTICAL SURVEY (AERIAL) FLOWN SEPTEMBER 28, 2015. SURFACES: PR-PRIMARY TR-TRANSITIONAL AP-PT 77 APPROACH (# #)-BELOW SURFACE # #)-PENETRATION						



GRAND FORKS INTERNATIONAL AIRPORT
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GRAND FORKS, NORTH DAKOTA

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EXTENDED AIRPORT AIRSPACE
35L END

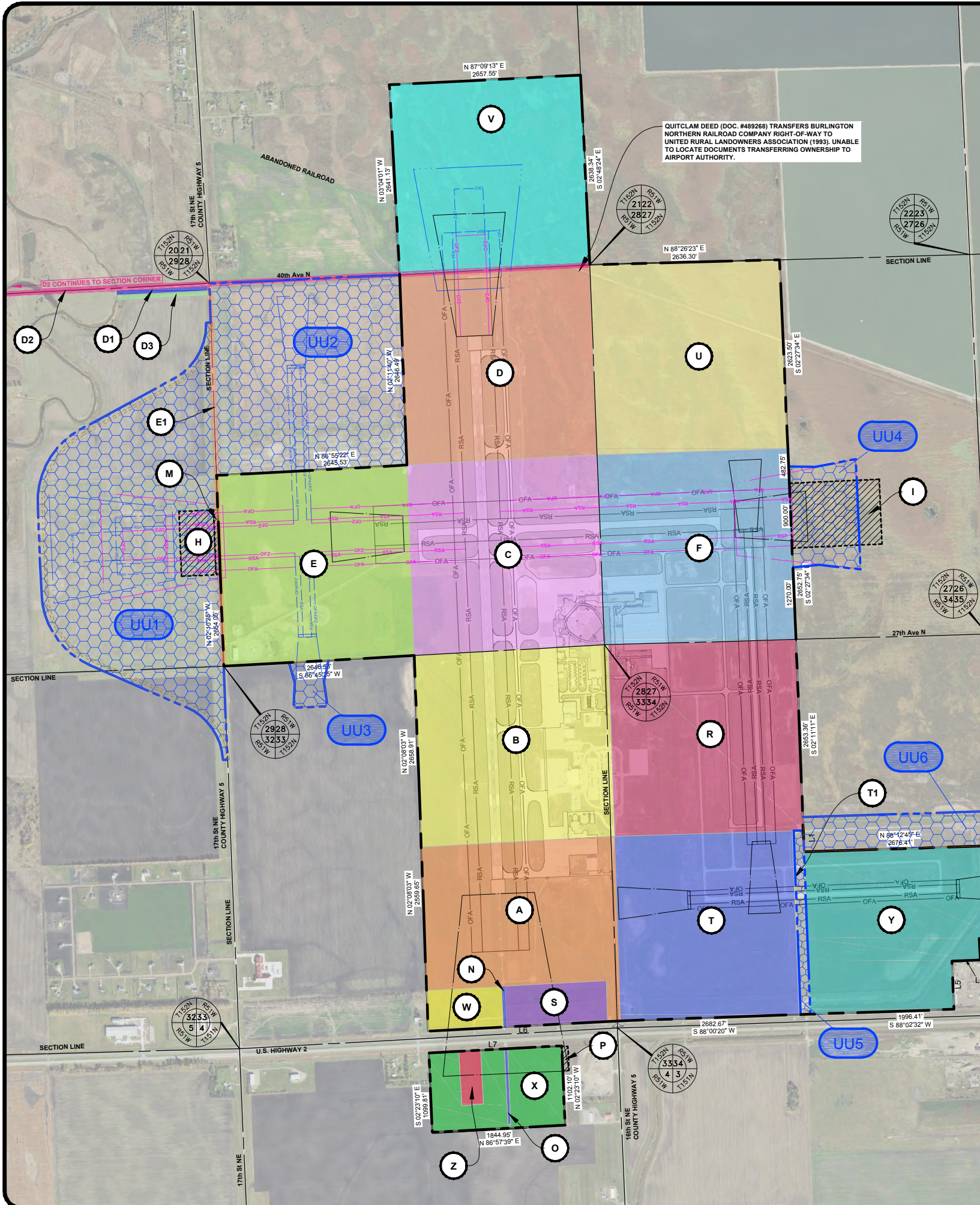
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DEPARTURE OFF 17R END OBSTACLES (E)



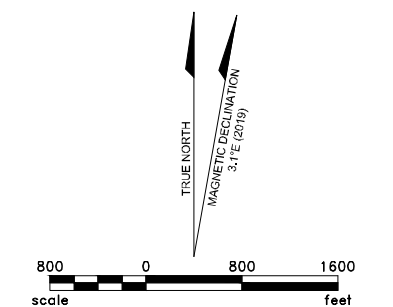
EXISTING AIRPORT PROPERTY INTERESTS TABLE											
Parcel ID	Acreage	Purpose of Acquisition	Grantor (Seller)	Grantee (Buyer)	Type of Conveyance Instrument	Date of Conveyance Document	Interest Acquired	Federal Grant Number	Grand Forks County Recorded Document Number	Date of Title Research	Notes
A	125.32	Original Airport	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 6/17/1988	Fee Simple	FAAP 9-32-057-C301	28057 & 440410	11/13/2015	Note 1
B	164.41	Original Airport	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 6/17/1988	Fee Simple	FAAP 9-32-057-C301	28057 & 440410	11/13/2015	Note 1
C	160.52	Original Airport	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 6/17/1988	Fee Simple	FAAP 9-32-057-C301	28057 & 440410	11/13/2015	Note 1
D	160.49	Original Airport	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 6/17/1988; 5/27/1983	Fee Simple	FAAP 9-32-057-C301	28057, 440410, 489268, 282022 & 440412	11/13/2015	Note 1; Note 2; Includes Drainage Easement
D1	2.00	Drainage	George H. Saumur & Marie O. Saumur	City of Grand Forks	Warranty Deed	5/8/1963; 6/17/1988	Fee Simple		282023 & 440410	8/23/2017	Note 1; No record was found of the property being acquired with Federal Funds
D2	-	Drainage Easement	Rye Township	City of Grand Forks	Drainage Agreement	4/11/1963; 6/17/1988	Drainage Easement		282022, 440412	8/23/2017	Note 2; No record was found of the property being acquired with Federal Funds; Easement width is not defined
D3	2.00	Drainage	George H. Saumur & Marie O. Saumur	City of Grand Forks	Warranty Deed	7/21/1966; 6/17/1988	Fee Simple		287730 & 440410	8/23/2017	Note 1; No record was found of the property being acquired with Federal Funds
E	160.96	Original Airport	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 6/17/1988	Fee Simple	FAAP 9-32-057-C301	28057, 440410, 282021 & 440412	11/13/2015	Note 1; Note 2; Includes Drainage Easement
E1	-	Drainage Easement	Grand Forks County	City of Grand Forks	Drainage Agreement	3/5/1963; 6/17/1988	Drainage Easement		282021, 440412	8/23/2017	Note 2; No record was found of the property being acquired with Federal Funds; Easement width is not defined
F	161.17	Original Airport	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 8/4/1981; 6/17/1988	Fee Simple	FAAP 9-32-057-C301	28057, 391461 & 440410	11/13/2015	Note 1
G	-	Allegation Easement (N of NS Runway)	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 6/17/1988; 5/27/1983	Air Rights Easement	FAAP 9-32-057-C301	28057, 440410 & 489268	11/13/2015	Note 1; Fee Simple Interest Acquired with Parcel V
H	9.94	Allegation Easement (W of EW Runway)	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 6/17/1988; 5/27/1983	Air Rights Easement	FAAP 9-32-057-C301	28057, 281962 & 440410	11/13/2015	Note 1
I	25.93	Allegation Easement (E of EW Runway)	Western Investment Company	City of Grand Forks	Clear Zone Easement	8/27/1962; 6/17/1988	Clear Zone Easement	FAAP 9-32-057-C301	281303 & 440411	11/13/2015	Note 2
J	-	Allegation Easement (S of NS Runway - N of Hwy 2)	Arnold P. & Lavigne V. Prekel, et al.	City of Grand Forks	Condemnation	2/20/1963; 6/17/1981; 6/17/1988; 6/17/1988	Air Rights Easement	FAAP 9-32-057-C301	28057, 317666, 440410 & 440413	11/13/2015	Note 1 and 4; Fee Simple Interest Acquired with Parcels N, S & W
K	-	Allegation Easement (Rt portion of N of NS Runway)	Northern Pacific Railway Company	City of Grand Forks	Clear Zone Easement	2/20/1963; 6/17/1988; 5/27/1983	Clear Zone Easement	FAAP 9-32-057-C301	281304, 440411 & 489268	11/13/2015	Note 3; Fee Simple Interest Acquired with Parcel V
L	-	Allegation Easement (N of NS Runway)	Rye Township	City of Grand Forks	Clear Zone Easement	8/22/1963; 6/17/1988	Clear Zone Easement	FAAP 9-32-057-C301	281392 & 440411	11/13/2015	Note 3; Fee Simple Interest Acquired with Parcel V
M	1.22	Allegation Easement (W of EW Runway)	County of Grand Forks	City of Grand Forks	Clear Zone Easement	8/4/1962; 6/17/1988	Clear Zone Easement	FAAP 9-32-057-C301	281391 & 440411	11/13/2015	Note 2
N	0.54	MALSR (S of Hwy 2)	Albert L. Lahee & Monica E. Lahee	City of Grand Forks	Warranty Deed	4/10/1970; 6/17/1988	Fee Simple	FAAP 9-32-057-7004	313999 & 440410	8/23/2017	Note 1
O	0.96	MALSR (S of Hwy 2)	Albert L. Lahee & Monica E. Lahee	City of Grand Forks	Warranty Deed	7/20/1970; 6/17/1988	Fee Simple	FAAP 9-32-057-7005	315221 & 440410	11/13/2015	Note 1
P	0.86	Allegation Easement (S of NS Runway - S of Hwy 2)	Ralph Dubuque, Evelyn Dubuque, Ray Dubuque & Rhine Dubuque	City of Grand Forks	Aircraft Easement Over Land	7/20/1970; 11/23/1970; 6/17/1988	Aircraft Easement Over Land	FAAP 9-32-057-7005	315222, 316795 & 440413	11/13/2015	Note 4; Modified by Unrecorded Agreement dated 11/12/1980; Majority of Property acquired Fee Simple with Parcels O, X & Z
Q	-	Allegation Easement (S of NS Runway - S of Hwy 2)	Ray Dubuque & Rhine Dubuque	City of Grand Forks	Aircraft Easement Over Land	7/20/1970; 6/17/1988	Aircraft Easement Over Land	FAAP 9-32-057-7005	315223 & 440413	11/13/2015	Note 4; Fee Simple Interest Acquired with Parcels X & Z
R	159.59	Airport Development	Nodak Rural Electric Cooperative Inc.	City of Grand Forks	Warranty Deed	10/29/1973; 8/4/1981; 6/17/1988	Fee Simple	ADAP 9-38-0022-02	325574, 391461 & 440410	8/23/2017	Note 1
S	18.25	RPZ	Albert L. Lahee & Monica E. Lahee	City of Grand Forks	Warranty Deed	6/19/1984; 6/17/1988	Fee Simple	ADAP 9-38-0022-01	407429 & 440410	11/13/2015	Note 1; Deed for property indicated 19.30 acres but description appears to be in error on the north side which included property that was already acquired with Parcel A.
T	145.16	Airport Development	Albert L. Lahee & Monica E. Lahee	City of Grand Forks	Warranty Deed	7/10/1984; 6/17/1988	Fee Simple	ADAP 9-38-0022-01	408355 & 440410	8/23/2017	Note 1
T1	1.17	Airport Development	Albert L. Lahee & Monica E. Lahee	City of Grand Forks	Warranty Deed	6/19/1984; 1/20/1987; 6/17/1988	Fee Simple	ADAP 9-38-0022-01	407428, 420681 & 440410	8/23/2017	Note 1; Purchased by City then paid sold to GF Water Resources Inc. 420681
U	159.57	Approach	Enoch Thorngard & Madeline Thorngard	Grand Forks Regional Airport Authority	Warranty Deed	12/19/1988; 5/27/1993	Fee Simple	ADAP 9-38-0022-05	444810 & 489268	11/13/2015	
V	160.68	RPZ & Approach	Enoch Thorngard & Madeline Thorngard	Grand Forks Regional Airport Authority	Warranty Deed	12/19/1988; 5/27/1993	Fee Simple	ADAP 9-38-0022-05	444810 & 489268	11/13/2015	
W	13.59	RPZ	Albert L. Lahee & Monica E. Lahee	Grand Forks Regional Airport Authority	Warranty Deed	12/14/1995	Fee Simple	ADAP 9-38-0022-18	517508	11/13/2015	
X	40.50	RPZ & Approach	Gary R. Dubuque & Patty S. Dubuque	Grand Forks Regional Airport Authority	Quit Claim Deed	8/12/2003	Fee Simple	ADAP 9-38-0022-26	614907	11/13/2015	
Y	128.06	Airport Development	Albert L. Lahee & Monica E. Lahee	Grand Forks Regional Airport Authority	Warranty Deed	10/24/2007	Fee Simple	ADAP 9-38-0022-431-3007	688677	11/13/2015	
Y1	57.81	Allegation Easement (E of EW Parallel Runway)	Weekley Auto Parts	Grand Forks Regional Airport Authority	Allegation Easement	8/28/2009	Air Rights Easement		688657	8/28/2019	
Z	5.17	RPZ & Approach	Gary R. Dubuque & Patty S. Dubuque	Grand Forks Regional Airport Authority	Warranty Deed	3/18/2008	Fee Simple	ADAP 9-38-0022-033-3008	672337	11/13/2015	
Note 1 - Fee and Easement property transferred from the City of Grand Forks to the Grand Forks Regional Airport Authority on June 17, 1988 by Warranty Deed Doc. Number 48410 Note 2 - Easement property transferred from the City of Grand Forks to the Grand Forks Regional Airport Authority on June 17, 1988 by Warranty Deed Doc. Number 48412 Note 3 - Easement property transferred from the City of Grand Forks to the Grand Forks Regional Airport Authority on June 17, 1988 by Warranty Deed Doc. Number 440411 Note 4 - Easement property transferred from the City of Grand Forks to the Grand Forks Regional Airport Authority on June 17, 1988 by Warranty Deed Doc. Number 440413											

RELEASED AIRPORT PROPERTY TABLE									
Parcel ID	Acreage	Type of Release	FAA Approval Date	Purpose of Release	Grantor (Seller)	Grantee (Buyer)	Type of Conveyance Instrument	Date of Conveyance Document	Notes
T1	8	Fee Simple	NA	Surface Drainage	City of Grand Forks	Grand Forks County Water Resources District	Warranty Deed	1/20/1997	

ULTIMATE AIRPORT PROPERTY INTERESTS TABLE			
Parcel ID	Acreage	Purpose of Acquisition	Type of Interest to be Acquired
UU1	± 223	East-West Runway extension	Fee
UU2	± 100	New North-South Runway	Fee
UU3	± 7	RPZ Ownership	Fee
UU4	± 31	RPZ Ownership	Fee
UU5	± 8	Parallel East-West Runway	Fee
UU6	± 29	Parallel East-West Runway	Fee

- PROPERTY BOUNDARY (E)
- PROPERTY BOUNDARY (U)
- EASEMENT BOUNDARY (E)
- RUNWAY SAFETY AREA (E)
- RUNWAY SAFETY AREA (F)
- RUNWAY SAFETY AREA (U)
- RUNWAY OBJECT FREE AREA (E)
- RUNWAY OBJECT FREE AREA (F)
- RUNWAY OBJECT FREE AREA (U)
- RUNWAY PROTECTION ZONE (E)
- RUNWAY PROTECTION ZONE (F)
- RUNWAY PROTECTION ZONE (U)

- SECTION LINES ARE BASED ON CITY OF LOCAL GIS DATA. NO FIELD SURVEY DATA COLLECTED.
- BEARINGS AND DISTANCES MAY VARY FROM PREVIOUS PLATS DUE TO DIFFERENT METHODS OF MEASUREMENT.



PARCEL LINE DATA		
SEGMENT	BEARING	LENGTH
L1	S 02°11'11" E	295.00'
L2	S 87°14'03" W	299.50'
L3	S 02°31'17" E	296.27'
L4	S 88°02'32" W	393.49'
L5	S 02°30'42" E	673.50'
L6	S 86°53'24" W	2628.33'
L7	S 86°53'24" W	1844.98'

Rev.	Date	Description

GRAND FORKS INTERNATIONAL AIRPORT
GRAND FORKS REGIONAL AIRPORT AUTHORITY (OWNER)
GRAND FORKS, NORTH DAKOTA

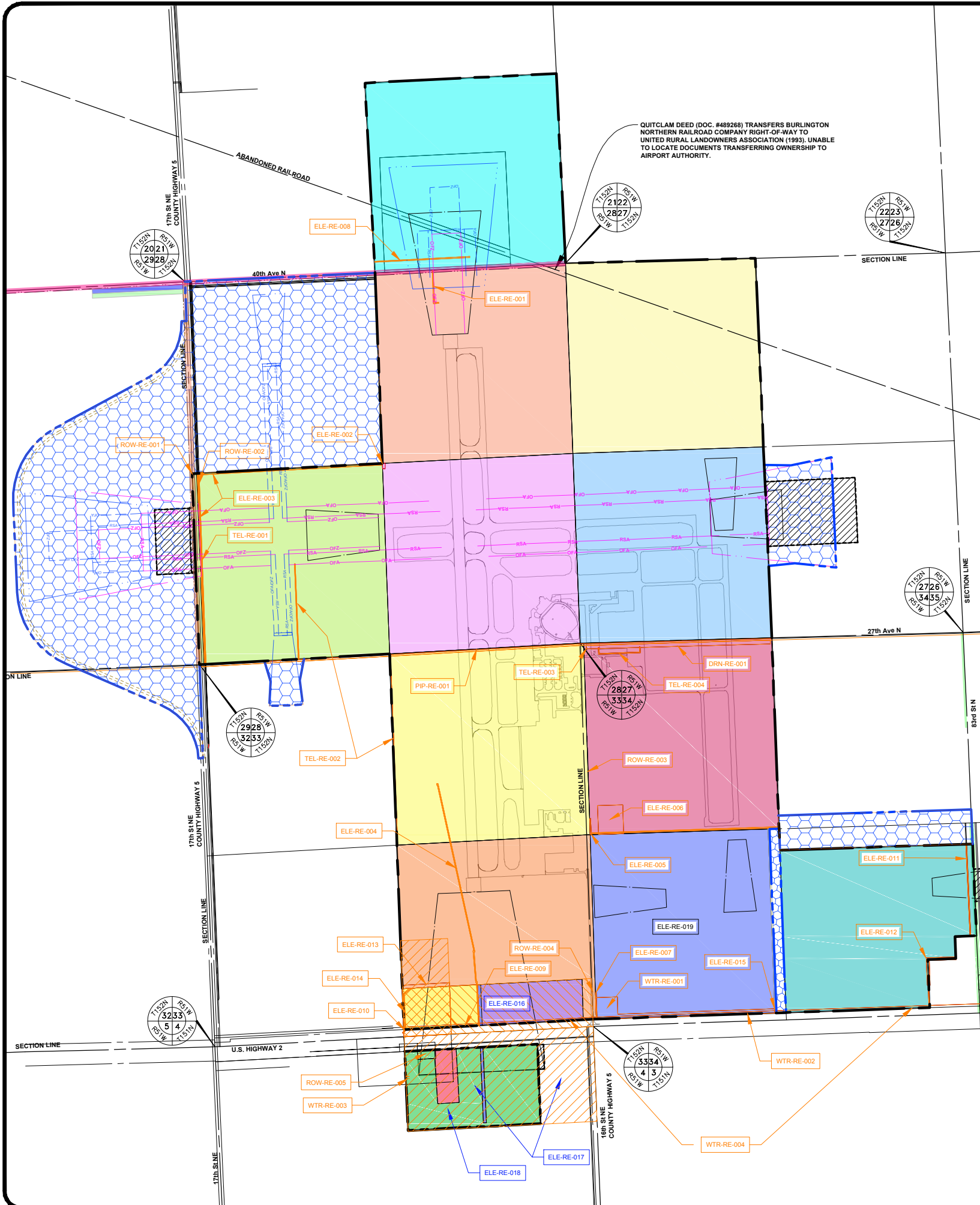
TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

EXHIBIT "A"
PARCEL INVENTORY MAP

DRAFTED
APT/CAS/AES
REVIEWED
KLP
PROJECT NUMBER
14515100

SHEET
EX-A1

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RECORDED ENCUMBRANCES TABLE							
Encumbrance ID	Airport Parcel(s) Impacted	Description of Use & Dimensions	Grantor (Authorizer of Use)	Grantee (Encumbrance Holder)	Type of Conveyance Instrument	Date of Conveyance Document	Grand Forks County Recorded Document Number
DRN-RE-001	R	49.5' easement for Drain Purposes	Nodak Rural Electric Cooperative Inc.	Grand Forks county	Drainage Easement R.O.W. Easement	8/16/1971	320388
ELE-RE-001	D	14' wide easement for purpose of constructing, inspecting, maintaining or operating its facilities	City of Grand Forks	Nodak Rural Electric Cooperative Inc.	Easement	3/8/1972	325589
ELE-RE-002	C	Purpose to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	City of Grand Forks	Nodak Rural Electric Cooperative Inc.	Easement	11/23/1977	363506
ELE-RE-003	E	20' wide easement for purpose to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	City of Grand Forks	Nodak Rural Electric Cooperative Inc.	Easement	11/23/1977	363507
ELE-RE-004	A, B, N	14' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	City of Grand Forks	Nodak Rural Electric Cooperative Inc.	Easement	3/8/1972	BK. 110 AISC P. 19
ELE-RE-005	R	14' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	City of Grand Forks	Nodak Rural Electric Cooperative Inc.	Easement	11/19/1979	395851
ELE-RE-006	R	Purpose of constructing, inspecting, maintaining or operating its facilities	City of Grand Forks	Nodak Rural Electric Cooperative Inc.	Easement	12/2/1965	420714
ELE-RE-007	T	10' wide easement for purpose of constructing, inspecting, maintaining or operating its facilities	Bert L. & Monica E. Larivee	Nodak Rural Electric Cooperative Inc.	Easement	12/3/1979	379938
ELE-RE-008	V	14' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Lillian Bolack	Nodak Rural Electric Cooperative Inc.	Easement	10/13/1971	325587
ELE-RE-009	W	10' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Bert Larivee	Nodak Rural Electric Cooperative Inc.	Easement	2/21/1971	BK. 110 AISC, PG. 17
ELE-RE-010	W	10' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Bert Larivee	Nodak Rural Electric Cooperative Inc.	Easement	9/1/1970	318922
ELE-RE-011	Y	10' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Bert L. & Monica E. Larivee	Nodak Rural Electric Cooperative Inc.	Easement	12/3/1979	379936
ELE-RE-012	Y	40' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Albert Larivee & Monica Larivee	Minikota Power Cooperative Inc.	Easement	8/28/1979	379795
ELE-RE-013	W	Purpose to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Albert Larivee	Nodak Rural Electric Cooperative Inc.	Blanket Easement	6/14/1978	388357
ELE-RE-014	A, W	14' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Albert L. or Monica E. Larivee	Nodak Rural Electric Cooperative Inc.	Easement	9/20/1990	471265
ELE-RE-015	T, T1, Y	Right of Ingress and Egress for purpose of maintenance, operate, maintain, repair and reconstruct Transmission Line		Minikota Power Cooperative Inc.	Notice of Easement	9/7/1977; 7/16/2006	361437 & 653124
ELE-RE-016	A, N, S, W	14' wide easement to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Grand Forks Regional Airport Authority	Nodak Rural Electric Cooperative Inc.	Easement	9/20/1990	471370
ELE-RE-017	O, X, Z	Purpose to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Ralph Dubuque and Ray Dubuque	Nodak Rural Electric Cooperative Inc.	Easement	2/14/1978	388356
ELE-RE-018	O, X, Z	Purpose to place, construct, operate, repair, maintain, relocate and replace Underground Electric Distribution Line	Gary Dubuque	Nodak Rural Electric Cooperative Inc.	Easement	7/7/1977	388355
ELE-RE-019	A, S	14' wide easement to install, place, construct, excavate, operate, repair, mark, maintain, relocate and replace	Grand Forks Regional Airport Authority	Nodak Electric Cooperative Inc.	Easement	5/18/2010	732247
PIP-RE-001	B, R	20' wide easement to permit construction of above ground structures, pipeline relocation and liability	Rye Township	United States of America	Amendment to Pipeline Easement	5/21/1991; 9/25/1979; 8/2/1988	265323, 378937 & 440336
ROW-RE-001	E	27' wide Right of Way	Albert Campbell & Blanch A. Campbell	Grand Forks County	Road R.O.W. Easement	2/2/1953	233275
ROW-RE-002	E	15' wide Right of Way for Highway Purposes	City of Grand Forks	Grand Forks County	Road R.O.W. Easement	5/16/1972	325947
ROW-RE-003	R	50' wide Approach Road	City of Grand Forks	Nodak Rural Electric Cooperative Inc.	Access Road Easement	6/2/1972	324807 & 325450
ROW-RE-004	A	Right to construct, maintain and operate a public highway	Grand Forks Regional Airport Authority	North Dakota Department of Transportation	Easement	6/8/1992	476413
ROW-RE-005	X, Z	Maintain, repair and replace a road for ingress and egress to Residence	Grand Forks Regional Airport Authority	Gary R. Dubuque & Patty S. Dubuque	Roadway Easement	8/12/2003	614998
TEL-RE-001	E	16.5' wide Right of Way and Easement to construct, operate, maintain, replace, enlarge and remove Communications Systems	City of Grand Forks	Northwestern Bell Telephone Company	R.O.W. Easement	2/17/1988	438138
TEL-RE-002	B, E	10' wide Right of Way and Easement to construct, operate, maintain, replace, enlarge and remove Communications Systems	City of Grand Forks	Northwestern Bell Telephone Company	R.O.W. Easement	11/6/1984	411284
TEL-RE-003	R	14' wide Right of Way and Easement to construct, operate, maintain, replace, enlarge and remove Communications Systems	City of Grand Forks	Northwestern Bell Telephone Company	R.O.W. Easement	5/23/1986	423218
TEL-RE-004	R	10' wide Right of Way and Easement to construct, operate, maintain, replace, enlarge and remove Communications Systems	City of Grand Forks	Northwestern Bell Telephone Company	R.O.W. Easement	8/21/1987	434043 & 434277
WTR-RE-001	T	Right to construct, lay, maintain, repair and operate a Booster Station and Water Main	Grand Forks Regional Airport Authority	City of Grand Forks	Easement	10/21/1996	527344
WTR-RE-002	A, S, T, T1	30' wide easement to construct, maintain and operate its Water Mains and Fittings	County of Grand Forks	Grand Forks Trail Water District	R.O.W. Easement	5/7/1971	328804
WTR-RE-003	X	30' wide easement to construct, maintain and operate its Water Mains and Fittings	County of Grand Forks	Grand Forks Trail Water District	R.O.W. Easement	10/20/1992	491615
WTR-RE-004	A, N, S, T, T1, Y, W	30' wide easement to construct, maintain and operate its Water Mains and Fittings	County of Grand Forks	Grand Forks Trail Water District	R.O.W. Easement	3/31/1971	328806

LEGEND

--- EXISTING PROPERTY BOUNDARY

--- SECTION LINE

ENCUMBRANCE BOUNDARY

SECTION LINES ARE BASED ON CITY OF LOCAL GIS DATA. NO FIELD SURVEY DATA COLLECTED.

BEARINGS AND DISTANCES MAY VARY FROM PREVIOUS PLATS DUE TO DIFFERENT METHODS OF MEASUREMENT.

TRUE NORTH

MAGNETIC DECLINATION 3.1°E (2019)

800 0 800 1600

scale feet

GRAND FORKS INTERNATIONAL AIRPORT

GRAND FORKS REGIONAL AIRPORT AUTHORITY (OWNER)

GRAND FORKS, NORTH DAKOTA

TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

EXHIBIT "A"

AIRPORT ENCUMBRANCE MAP

DRAFTED
APT/CAS/AES

REVIEWED
KLP

PROJECT NUMBER
14515100

SHEET
EX-A2

Rev.	Date	Description

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