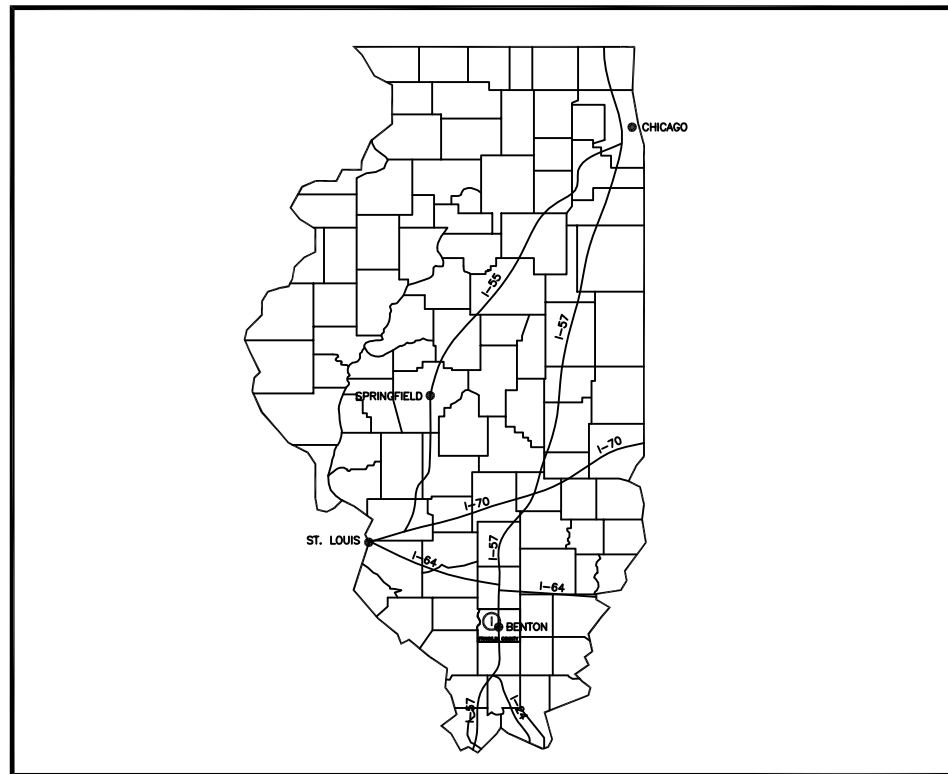


LETTING ITEM NO. 09A
JANUARY 15, 2021 LETTING

BN018
TOTAL SHEETS: 5

CONSTRUCTION PLANS FOR BENTON MUNICIPAL AIRPORT

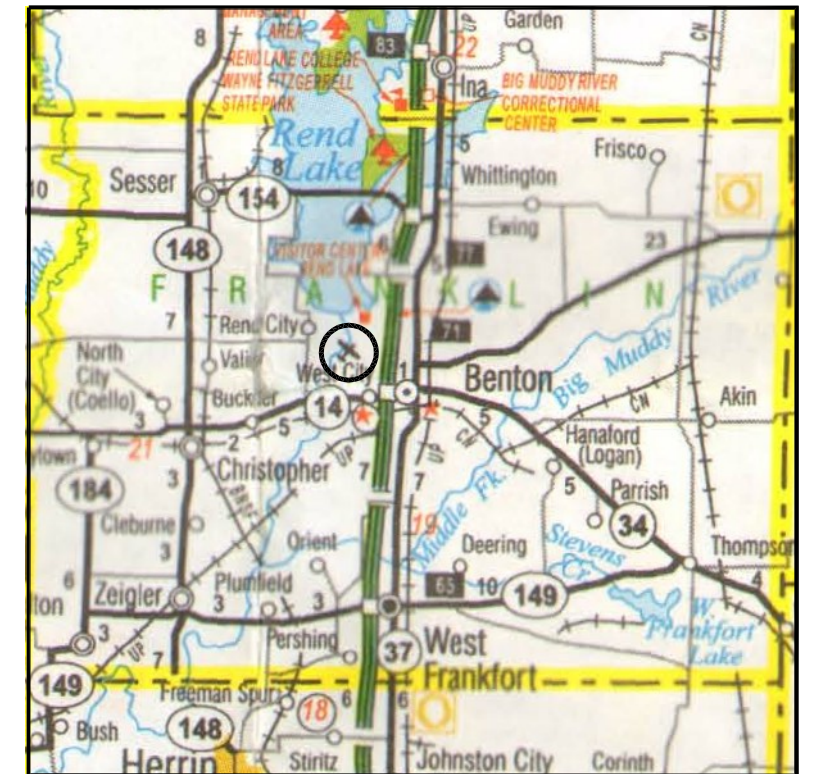
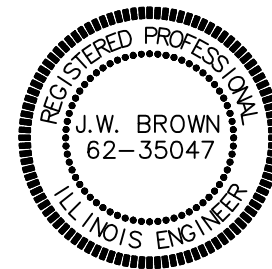
REMARK RUNWAY 18-36



LOCATION MAP

100% SUBMITTAL NOVEMBER 13, 2020
ILLINOIS PROJECT NUMBER: H96-4774
SBG PROJECT NUMBER: 3-17-SBGP-144

BENTON, ILLINOIS
FRANKLIN COUNTY



VICINITY MAP

BROWN AND ROBERTS, INC.
CONSULTING ENGINEERS
PRESIDENT

SUBMITTED BY *J.W. Brown*
JIM W. BROWN, AS PRESIDENT

DATE SUBMITTED 11/13/2020

LISC. NUMBER 062-035047

LISC. EXP. DATE NOVEMBER 30, 2021

PLANS PREPARED BY:



BROWN AND ROBERTS, INC.
1 WEST RIDGE ROAD
HARRISBURG, IL. 62946
(618) 252-8111

CITY OF BENTON
MAYOR

APPROVED BY *Fred Kondritz* 11-17-20
FRED KONDRITZ DATE

CITY CLERK

ATTESTED BY *Brook Craig* 11-17-20
BROOK CRAIG DATE

INDEX OF SHEETS	
SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, SUMMARY OF QUANTITIES AND MATERIAL SCHEDULES
3	RUNWAY SAFETY PLAN
4	RUNWAY 18-36 PLAN VIEW 1
5	RUNWAY 18-36 PLAN VIEW 2 AND TYPICAL DETAILS

SUMMARY OF QUANTITIES			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
AR150520	MOBILIZATION	L.S.	1
AR620520	PAVEMENT MARKING - WATERBORNE	S.F.	27000
AR620525	PAVEMENT MARKING - BLACK BORDER	S.F.	7000
AR620900	PAVEMENT MARKING REMOVAL	S.F.	3500

PAVEMENT MARKING - WATERBORNE SCHEDULE			
DESCRIPTION	UNIT AREA (SQ FT)	NO. REQ'D	TOTAL (SQ FT)
NUMERAL 1	318	1	318
NUMERAL 8	876	1	876
NUMERAL 3	633	1	633
NUMERAL 6	712	1	712
CENTERLINE STRIPE - 120' x 3'	360	14	5040
CENTERLINE STRIPE - 110' x 3'	330	4	1320
AIMING LINES - 100' x 15'	1500	4	6000
THRESHOLD LINES - 150' x 5.75'	863	12	10356
TOTAL WHITE			25255
HOLD POSITION MARKING - SOUTH END	202	1	202
HOLD POSITION MARKING - TAXIWAY	122	1	122
TAXIWAY CENTERLINE	596	1	596
HOLD POSITION MARKING - NORTH END	202	1	202
TOTAL YELLOW			1122
TOTAL WATERBORNE			26377

PAVEMENT MARKING - BLACK BORDER SCHEDULE			
DESCRIPTION	UNIT AREA (SQ FT)	NO. REQ'D	TOTAL (SQ FT)
NUMERAL 1 OUTLINE	68	1	68
NUMERAL 8 OUTLINE	132	1	132
NUMERAL 3 OUTLINE	103	1	103
NUMERAL 6 OUTLINE	114	1	114
CENTERLINE STRIPE 120' OUTLINE	124	14	1736
CENTERLINE STRIPE 110' OUTLINE	114	4	456
AIMING LINE OUTLINE	116	4	464
THRESHOLD LINE OUTLINE	157	12	1884
HOLD POSITION MARKING - SOUTH END	532	1	532
HOLD POSITION MARKING - TAXIWAY	325	1	325
TAXIWAY CENTERLINE - OUTLINE	596	1	596
HOLD POSITION MARKING - NORTH END	536	1	536
TOTAL BLACK BORDER			6946

PAVEMENT MARKING REMOVAL SCHEDULE			
DESCRIPTION	UNIT AREA (SQ FT)	NO. REQ'D	TOTAL (SQ FT)
PARTIAL NUMERAL 3 REMOVAL	20	1	20
R36 AIMING LINES STA 13+50	750	2	1500
RUNWAY CENTERLINE STA. 20+50	180	1	180
RUNWAY CENTERLINE STA. 22+00	180	1	180
RUNWAY CENTERLINE STA. 24+00	90	1	90
R18 AIMING LINES STA 45+50	750	2	1500
TOTAL REMOVAL			3470

SCOPE OF WORK

THE PROJECT SCOPE CONSISTS OF REMARKING ALL RUNWAY PAVEMENT MARKINGS, ALONG WITH OTHER NECESSARY AND RELATED WORK.

PROPOSED SAFETY PLAN

GENERAL- THE BENTON MUNICIPAL AIRPORT CURRENTLY HAS A PAVED NORTH-SOUTH RUNWAY (4000-FT BY 75-FT).

ONCE RUNWAY 18/36 IS CLOSED, IT SHALL REMAIN CLOSED UNTIL THE RUNWAY RE-MARKING OPERATIONS HAVE BEEN COMPLETED. THE RUNWAY SHALL REMAIN CLOSED AT NIGHT DURING CONSTRUCTION.

CONTRACTOR'S RESPONSIBILITIES

IDENTIFICATION - THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE PROPERLY MARKED WITH 3-FOOT SQUARE INTERNATIONAL ORANGE AND WHITE CHECKERED FLAGS ANYTIME THEY ARE ON AIRPORT PROPERTY.

THE CONTRACTOR AND HIS EMPLOYEES SHALL BE RESTRICTED TO THE WORK AREA.

EQUIPMENT PARKING AND STORAGE - THE CONTRACTOR'S EQUIPMENT PARKING, STORAGE, AND EMPLOYEE PARKING WILL BE AT THE LOCATION SHOWN ON THIS SHEET. ONLY CONTRACTOR VEHICLES AND EQUIPMENT REQUIRED FOR CONSTRUCTION WILL BE ALLOWED OUTSIDE THIS AREA.

BARRICADES AND TRAFFIC CONES - IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS REQUIRED AND AS DIRECTED BY THE RESIDENT ENGINEER. BARRICADES, THEIR MAINTENANCE, PLACEMENT, AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING PAVEMENTS CAUSED BY HIS PERSONNEL OR EQUIPMENT.

HAUL ROUTE AND EQUIPMENT PARKING

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND EQUIPMENT PARKING AREA SHOWN ON THIS SAFETY PLAN. THE PROPOSED EQUIPMENT PARKING AREA WILL BE APPROXIMATELY 100-FT BY 200-FT. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT, ALL AREAS DISTURBED WILL BE RESTORED AS NEEDED TO ITS ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE AND EQUIPMENT PARKING AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

UTILITY NOTE

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND ORGANIZATIONS THAT HAVE LINES OR CONDUITS IN THE PROPOSED WORK AREA. ALL LINES AND CONDUITS SHALL BE LOCATED AND IDENTIFIED FOR DEPTH BEFORE ANY EXCAVATION BEGINS. THE CONTRACTOR SHALL CALL JULIE (1-800-892-0123) TO ACCOMPLISH THESE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL NON-JULIE UTILITIES AND AIRPORT UTILITIES LOCATED WITHIN THE PROPOSED CONSTRUCTION LIMITS. THESE UTILITIES ARE TO BE LOCATED PRIOR TO THE START OF CONSTRUCTION.

JULIE INFORMATION

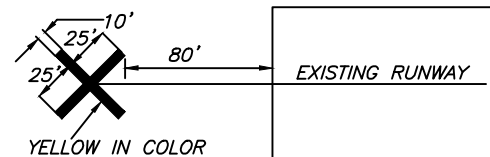
COUNTY.....FRANKLIN
 CITY.....BENTON
 TOWNSHIP.....BROWNING
 SECTION NO.....12 & 13
 NEAREST MAJOR ROAD INTERSECTION...RT 37 PETROFF RD.
 AIRPORT ADDRESS...BENTON MUNICIPAL AIRPORT
 P.O. BOX 158
 BENTON, IL. 62812

AIRPORT SECURITY

AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES. THE PROPOSED HAUL ROUTE SHOWN ON THIS SAFETY PLAN IS THE ONLY ACCESS. CONTRACTOR EQUIPMENT AND PERSONNEL WILL BE ALLOWED TO USE. THE CONTRACTOR SHALL PROVIDE BARRICADES AT THIS ACCESS AND ENSURE THE BARRICADES ARE IN PLACE AT THE END OF EACH WORKING DAY.

AIRCRAFT OPERATIONAL AREA

THE CONTRACTOR, HIS EMPLOYEES, OR ANY EQUIPMENT WILL NOT PROCEED WITH ANY WORK WITHIN THE AIRCRAFT OPERATIONAL AREA WITHOUT FIRST CLOSING THE RUNWAY.



DETAIL OF CROSS FOR CLOSED RUNWAY

"NOT TO SCALE"

NOTE:

THE COST OF CONSTRUCTING, PLACING, MAINTAINING, AND REMOVING CROSSES WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CROSSES WILL BE YELLOW IN COLOR AND SHALL BE MADE OF A SUITABLE MATERIAL AS APPROVED BY THE RESIDENT ENGINEER. THE CROSSES WILL BE PLACED AT THE ENDS OF THE RUNWAY AND SECURED IN A MANNER APPROVED BY THE RESIDENT ENGINEER. THE PROPOSED CROSSES WILL BE PLACED WHEN THE RUNWAY IS CLOSED AND REMOVED WHEN THE RUNWAY IS RE-OPENED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PLACEMENT AND REMOVAL OF THE CROSSES AT NO ADDITIONAL COST TO THE CONTRACT.

RUNWAY CLOSURE PROCEDURES:

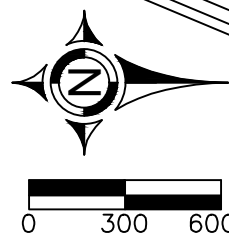
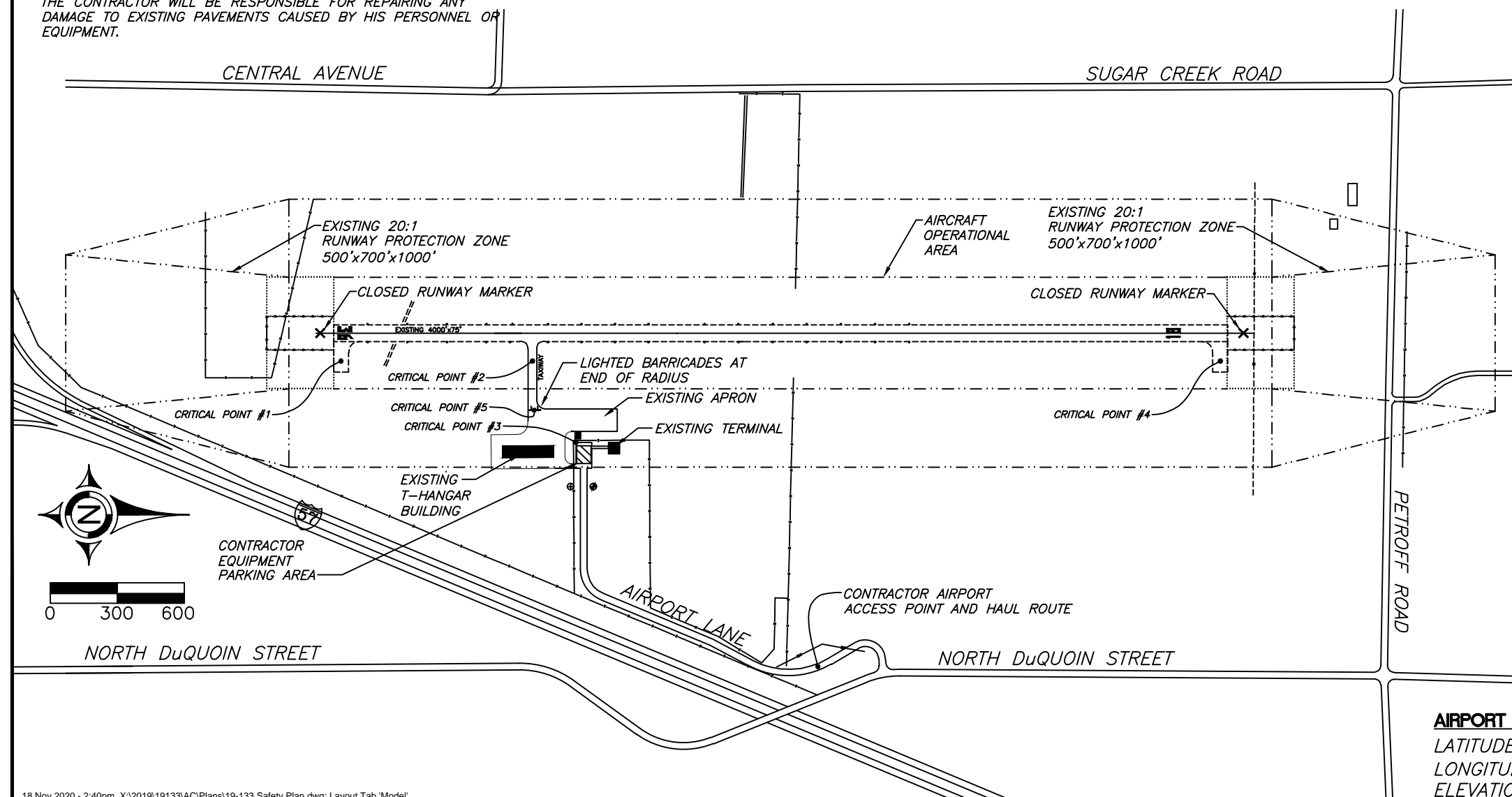
- * CONTACT THE AIRPORT MANAGER OR HIS ASSIGNED REPRESENTATIVE.
- * ISSUANCE OF NOTAM BY THE AIRPORT MANAGER OR HIS ASSIGNED REPRESENTATIVE.
- * PLACEMENT OF CROSSES (SEE DETAIL THIS SHEET).
- * PLACEMENT OF LIGHTED BARRICADES. ONLY AT THE TIME THAT ALL OF THE ABOVE ARE COMPLETED MAY ANY CONSTRUCTION OPERATIONS WITHIN 200-FT OF THE AFFECTED RUNWAY CENTERLINE AND WITHIN 600 FT OF THE RUNWAY END BEGIN.
- * RUNWAY LIGHTS SHALL BE DISABLED

RUNWAY RE-OPENING PROCEDURES:

- * REMOVE CROSSES.
- * REMOVE LIGHTED BARRICADES.
- * NOTIFY THE AIRPORT MANAGER OR HIS REPRESENTATIVE TO CANCEL THE NOTAM.
- * CANCELLATION OF THE NOTAM. A CLOSED RUNWAY WILL NOT BE RE-OPENED UNTIL ALL EQUIPMENT AND WORK ARE FURTHER THAN 200 FT. FROM THE AFFECTED RUNWAY CENTERLINE
- * RUNWAY LIGHTS SHALL BE REACTIVATED.

HEIGHT OF CONSTRUCTION EQUIPMENT

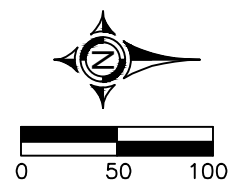
THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT IS 12 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A PAVEMENT MARKING SERVICE TRUCK.



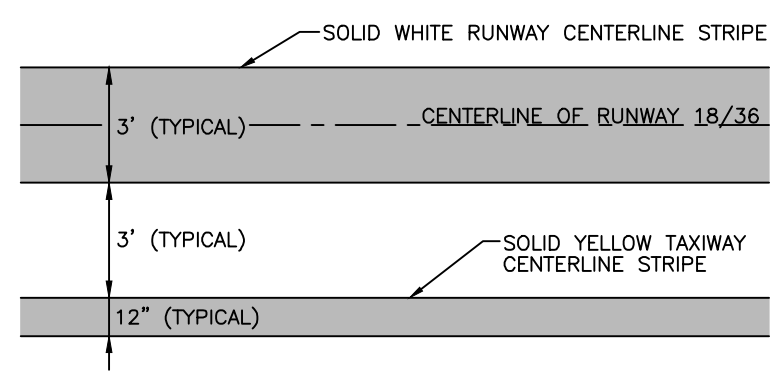
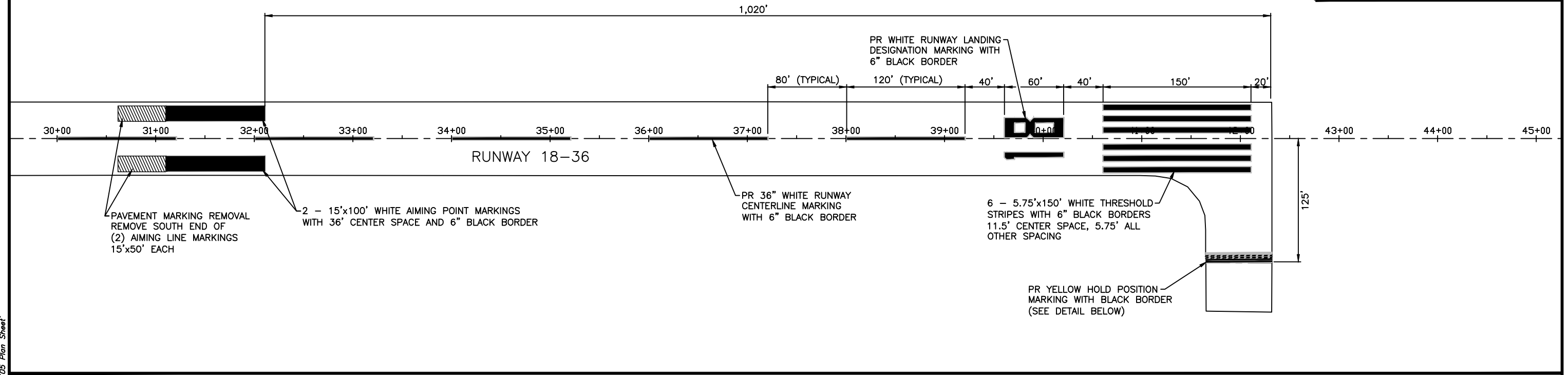
CRITICAL POINT LIST			
CRITICAL PT. NO.	LATITUDE	LONGITUDE	ELEVATION (MSL)
1	38° 00' 11.21"N	88° 56' 02.08"W	442.0
2	38° 00' 19.66"N	88° 56' 02.23"W	439.5
3	38° 00' 21.65"N	88° 55' 57.71"W	443.5
4	38° 00' 50.11"N	88° 56' 02.72"W	438.0
5	38° 00' 19.72"N	88° 55' 59.56"W	442.0

AIRPORT REFERENCE POINT:

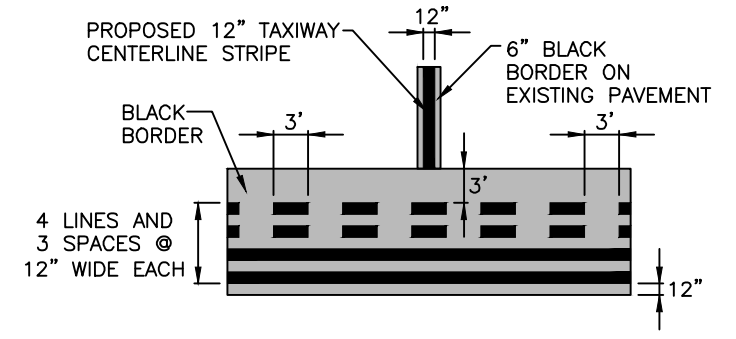
LATITUDE: 38° 00' 24.334"N
 LONGITUDE: 88° 56' 03.910"W
 ELEVATION: 444 MSL



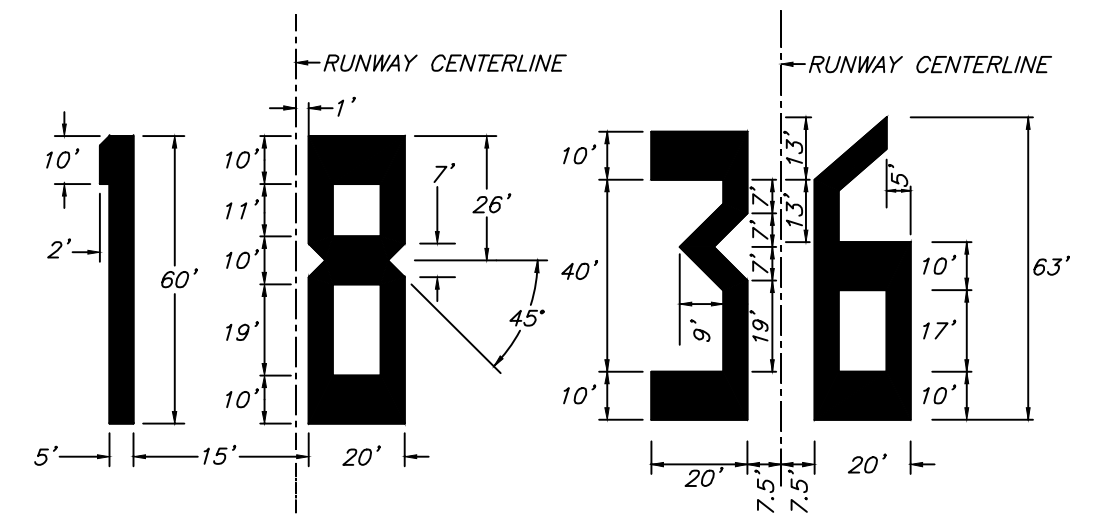
BENTON MUNICIPAL AIRPORT	
IL PROJECT NO. H96-4774	
SBG NO. 3-17-SBGP-144	
RUNWAY 18-36 PLAN VIEW 2 AND TYPICAL DETAILS	
SHEET 5 OF 5	BN018



LEAD ON/LEAD OFF TAXIWAY CENTERLINE DETAIL
N.T.S.



HOLD POSITION MARKING DETAIL
N.T.S.



RUNWAY DESIGNATION NUMERALS
N.T.S.

18 Nov 2020 - 10:33am X:\2019\19133\AC\Plans\19-133 Benton Muni Airport H96-4774 Sheets 3-7.dwg Layout Tab '05 Plan Sheet'