

LETTING ITEM NO.: 10A
APRIL 26, 2024 LETTING

CONSTRUCTION PLANS

HA031
TOTAL SHEETS: 10

FOR

HARRISBURG-RALEIGH AIRPORT

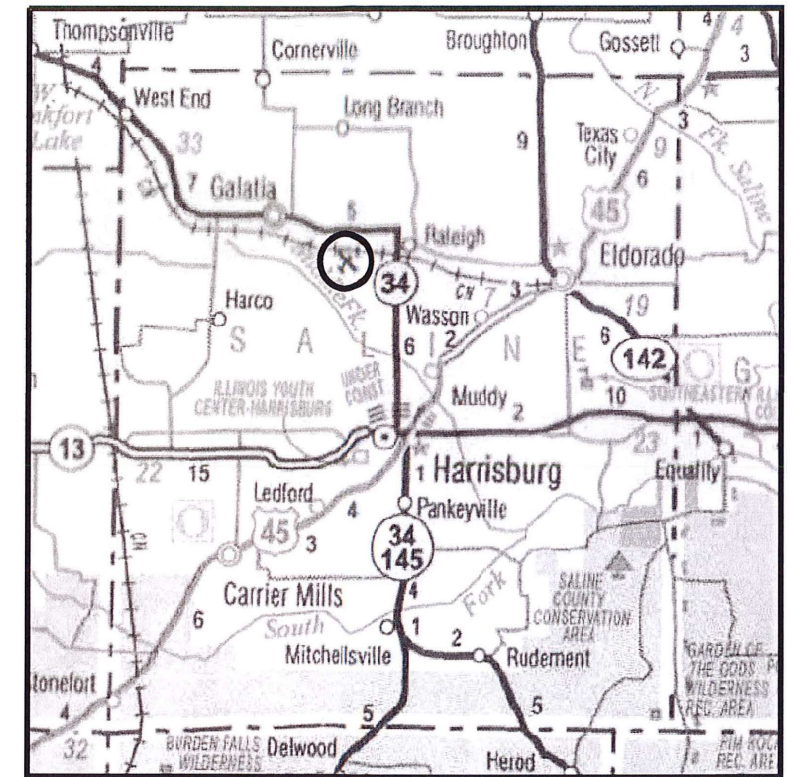
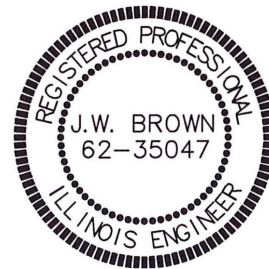
REMARK RUNWAY 6-24, RUNWAY 14-32, PARTIAL PARALLEL TAXIWAY AND TAXIWAY CONNECTORS



ILLINOIS PROJECT NUMBER: HSB-5094
SBG PROJECT NUMBER: 3-17-SBGP-162/171

HARRISBURG, ILLINOIS
SALINE COUNTY

100% SUBMITTAL
JANUARY 12, 2024



VICINITY MAP

BROWN AND ROBERTS, INC.
CONSULTING ENGINEER
PRESIDENT
SUBMITTED BY: *Jim W. Brown*
JIM W. BROWN, PRESIDENT
DATE SUBMITTED: 1/12/2024
LICENSE NUMBER: 062-035047
LICENSE EXPIRATION DATE: NOVEMBER 30, 2025

PLANS PREPARED BY:

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

HARRISBURG RALEIGH AIRPORT AUTHORITY
CHAIRMAN
APPROVED BY: *Mike Weirauch*
MIKE WEIRAUCH
DATE: 1/8/2024

SUMMARY OF QUANTITIES			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
AR150520	MOBILIZATION	L SUM	1
AR620520	PAVEMENT MARKING - WATERBORNE	SQ FT	67,250
AR620525	PAVEMENT MARKING - BLACK BORDER	SQ FT	22,500

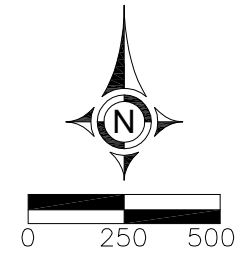
INDEX OF SHEETS	
SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, SUMMARY OF QUANTITIES AND MATERIAL SCHEDULES
3	CONSTRUCTION SAFETY AND PHASING PLAN
4	PLAN VIEW 1
5	PLAN VIEW 2
6	PLAN VIEW 3
7	PLAN VIEW 4
8	PLAN VIEW 5
9	PLAN VIEW 6
10	MARKINGS AND TYPICAL DETAILS

PAVEMENT MARKING - WATERBORNE SCHEDULE			
DESCRIPTION	UNIT AREA (SQ FT)	NO. REQ'D	TOTAL (SQ FT)
NUMERAL 6	712	1	712
NUMERAL 2	652	2	1,304
NUMERAL 4	602	2	1,204
NUMERAL 1	318	1	318
NUMERAL 3	634	1	634
6-24 CENTERLINE STRIPE - 145' x 3'	435	2	870
6-24 CENTERLINE STRIPE - 141' x 3'	423	1	423
6-24 CENTERLINE STRIPE - 120' x 3'	360	19	6,840
6-24 AIMING LINES - 150' x 15'	2,250	4	9,000
6-24 THRESHOLD LINES - 150' x 5.75'	863	12	10,356
14-32 CENTERLINE STRIPE - 120' x 3'	360	8	2,880
14-32 CENTERLINE STRIPE - 140' x 3'	420	1	420
14-32 CENTERLINE STRIPE - 150' x 3'	450	3	1,350
14-32 AIMING LINES - 150' x 15'	2,250	2	4,500
6-24 AND 14-32 EDGELINE	20,498	1	20,498
TOTAL WHITE			61,309
HOLD LINE - RUNWAY 6 TURNAROUND	345	1	345
HOLD LINE - 6-24 TAXILANE	183	1	183
HOLD LINE - TAXIWAY B-1	189	1	189
HOLD LINE - TAXIWAY B	147	1	147
HOLD LINE - 14-32 TAXILANE	148	1	148
6-24 TAXILANE CENTERLINE	1,256	1	1,256
TAXIWAY B CENTERLINE	1,787	1	1,787
TAXIWAY B-1 CENTERLINE	931	1	931
TAXIWAY B EDGELINE	122	1	122
14-32 TAXILANE CENTERLINE	833	1	833
TOTAL YELLOW			5,941

TOTAL WATERBORNE	67,250
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PAVEMENT MARKING - BLACK BORDER SCHEDULE			
DESCRIPTION	UNIT AREA (SQ FT)	NO. REQ'D	TOTAL (SQ FT)
NUMERAL 1 OUTLINE	68	1	68
NUMERAL 4 OUTLINE	107	2	214
NUMERAL 2 OUTLINE	106	2	212
NUMERAL 3 OUTLINE	103	1	103
NUMERAL 6 OUTLINE	113	1	113
6-24 CENTERLINE STRIPE 145' OUTLINE	149	2	298
6-24 CENTERLINE STRIPE 141' OUTLINE	145	1	145
6-24 CENTERLINE STRIPE 120' OUTLINE	124	19	2,356
6-24 AIMING LINE OUTLINE	166	4	664
6-24 THRESHOLD LINE OUTLINE	157	12	1,884
14-32 CENTERLINE STRIPE 120' OUTLINE	124	8	992
14-32 CENTERLINE STRIPE 140' OUTLINE	144	1	144
14-32 CENTERLINE STRIPE 150' OUTLINE	154	3	462
14-32 AIMING LINE OUTLINE	166	2	332
6-24 AND 14-32 EDGELINE BORDER	6,825	1	6,825
HOLD LINE - RUNWAY 6 TURNAROUND	940	1	940
HOLD LINE - 6-24 TAXILANE	483	1	483
HOLD LINE TAXIWAY B-1	495	1	495
HOLD LINE TAXIWAY B	385	1	385
HOLD LINE - 14-32 TAXILANE	395	1	395
6-24 TAXILANE CENTERLINE OUTLINE	1,256	1	1,256
TAXIWAY B CENTERLINE OUTLINE	1,787	1	1,787
TAXIWAY B-1 CENTERLINE OUTLINE	931	1	931
TAXIWAY B EDGELINE OUTLINE	183	1	183
14-32 TAXILANE CENTERLINE OUTLINE	833	1	833

TOTAL BLACK BORDER	22,500
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SCOPE OF WORK

THE PROJECT SCOPE CONSISTS OF THE REMARKING OF RUNWAY 6-24, RUNWAY 14-32, THE PARTIAL PARALLEL TAXIWAY AND THE TAXIWAY CONNECTORS.

PROPOSED SAFETY PLAN

GENERAL- THE HARRISBURG-RALEIGH AIRPORT AUTHORITY CURRENTLY HAS A PAVED RUNWAY 6-24 WHICH IS 5013 FT. x 75 FT. AND A PAVED RUNWAY 14-32 WHICH IS 2820 FT. x 75 FT.

THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) CONFIRMING COMPLIANCE WITH THE CONSTRUCTION SAFETY PHASING PLAN (CSPP) PRIOR TO THE ISSUANCE OF THE NOTICE TO PROCEED AS SPECIFIED IN FAA AC 150/5370-2G.

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 WILL BE LIGHTED WITH RED FLASHING LIGHTS. 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.

NONCOMPLIANCE WITH CONTRACTOR'S APPROVED SAFETY PLAN MAY RESULT IN FINES AS ALLOWED BY LAW.

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 75-FT BY 150-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 LOCATED WITHIN THE PROPOSED CONSTRUCTION LIMITS. THESE UTILITIES ARE TO BE LOCATED PRIOR TO THE START OF CONSTRUCTION.

J.U.L.I.E. INFORMATION

COUNTY.....SALINE
 CITY.....HARRISBURG (5 MI NORTH)
 TOWNSHIP.....RALEIGH
 SECTION NO.....21
 NEAREST MAJOR ROAD INTERSECTION...ILLINOIS RT. 34 & AIRPORT DRIVE
 AIRPORT ADDRESS...HARRISBURG-RALEIGH AIRPORT
 PO BOX 33
 HARRISBURG, IL 62946

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.

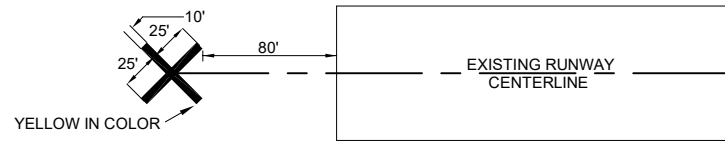
AIRPORT SECURITY

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.

CLOSURE OF RUNWAY 6/24 OR RUNWAY 14/32:

WHEN CONSTRUCTION OPERATIONS MAKE IT NECESSARY FOR THE CONTRACTOR TO BE WORKING CLOSER THAN 200 FEET OF THE CENTERLINE OF RUNWAY 6/24 OR 125 FEET OF THE CENTERLINE OF RUNWAY 14/32, THE RUNWAY SHALL BE CLOSED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES WITHIN THE SPECIFIED DISTANCE TO THE CENTERLINE OF THE RESPECTIVE RUNWAY. THE CONSTRUCTION ACTIVITIES SHALL BE STAGED TO MINIMIZE THE CLOSURE TIME OF RUNWAY 6/24.

RUNWAY SHALL REMAIN CLOSED IF THERE ARE ANY OPEN TRENCHES OR PITS EXCEEDING 3" DEPTH WITHIN THE ABOVE SPECIFIED DISTANCE TO THE CENTERLINE OF EITHER RUNWAY CAUSED BY EXCAVATING OR CONSTRUCTION ACTIVITIES. THE RUNWAY SHALL NOT BE REOPENED UNTIL THE TRENCHES OR PITS HAVE BEEN RESTORED TO ORIGINAL GRADES.



DETAIL OF CROSS FOR CLOSED RUNWAY
 "NOT TO SCALE"

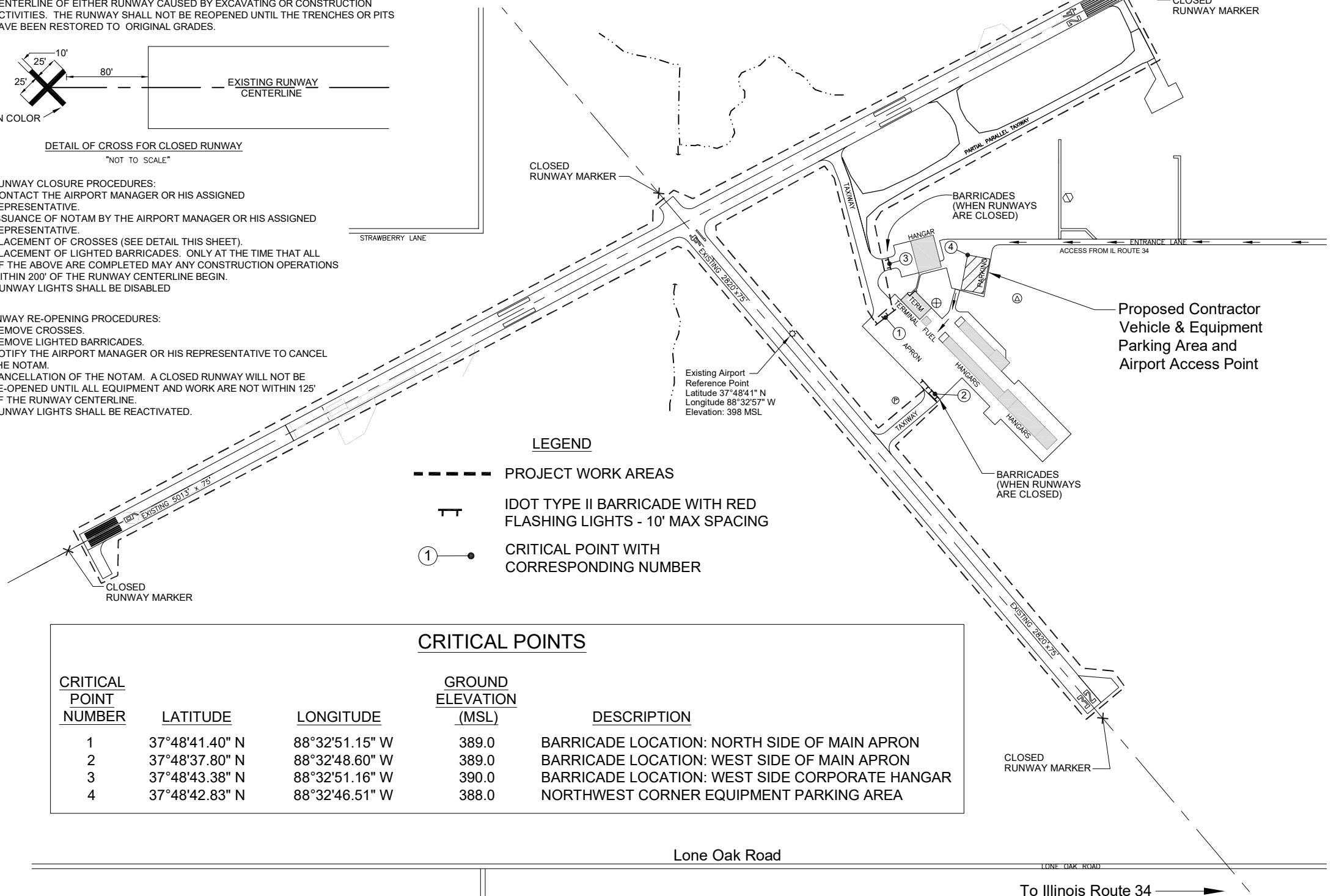
RUNWAY CLOSURE PROCEDURES:

- * 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' OF THE RUNWAY CENTERLINE 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 NOT WITHIN 125' OF THE RUNWAY CENTERLINE.
- * RUNWAY LIGHTS SHALL BE REACTIVATED.

- * WHEN RUNWAY 6/24 IS CLOSED, RUNWAY 14/32 SHALL ALSO BE CLOSED.
- * NO CONTRACTOR EQUIPMENT OR PERSONNEL WILL BE ALLOWED WITHIN 66' OF AN ACTIVE TAXIWAY OR TAXILANE CENTERLINE WITHOUT CLOSING THE TAXIWAY OR TAXILANE WITH THE USE OF BARRICADES.
- * NO EXIT TAXIWAYS OFF OF RUNWAY 6/24 SHALL BE CLOSED FOR A DURATION EXCEEDING 72 HOURS WHILE RUNWAY 6/24 IS OPEN.
- * THE CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET IS ONLY TO BE USED FOR THIS PROJECT, ACCESS TO THE PROJECT FOR ALL HAULING OF MATERIALS AND EQUIPMENT SHALL BE RESTRICTED TO THE DESIGNATED CONSTRUCTION ENTRANCE AND HAUL ROUTE. ACCESS TO THE WORK AREAS FROM THE STAGING AREA SHALL BE COORDINATED WITH THE RESIDENT ENGINEER AND AIRPORT MANAGEMENT.
- * THE CONTRACTOR SHALL PROVIDE AN ESCORT (WITH A RADIO) WHEN REQUESTED BY THE RESIDENT ENGINEER.
- * NO EQUIPMENT SHALL BE PERMITTED TO CROSS OR USE ANY EXISTING PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS, GENERAL PROJECT AREA OR ACCESS ROUTE.
- * THE CONTRACTOR SHALL PLACE BARRICADES WITH RED FLASHING LIGHTS AT TEN (10) FOOT SPACING TO PREVENT AIRCRAFT FROM ENTERING ANY AREA CLOSED FOR CONSTRUCTION.



LEGEND

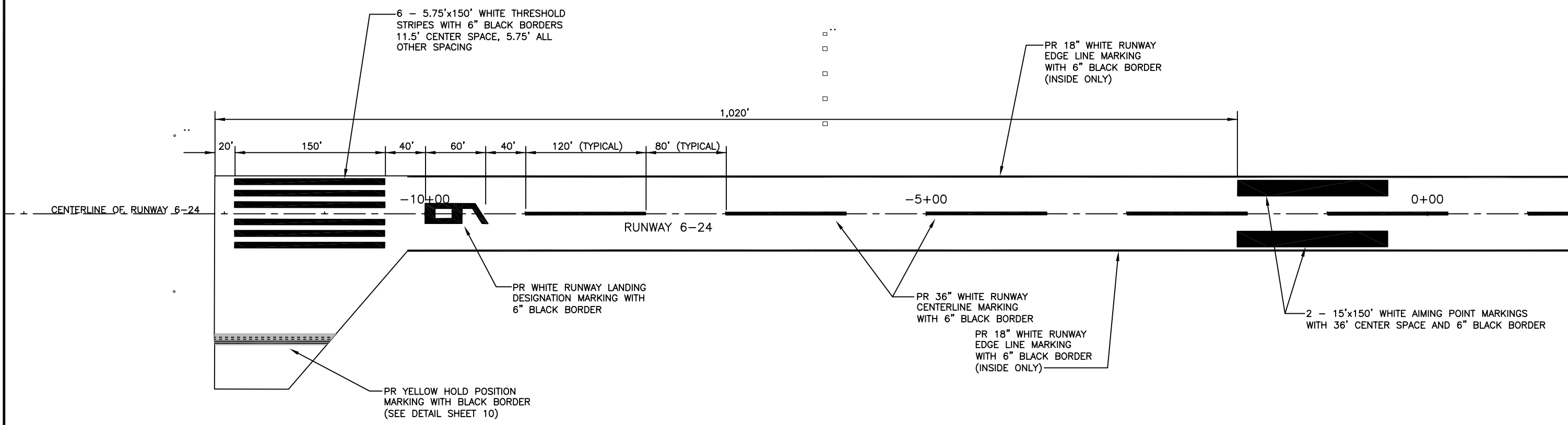
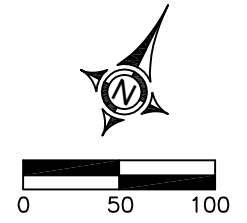
- PROJECT WORK AREAS
- TT IDOT TYPE II BARRICADE WITH RED FLASHING LIGHTS - 10' MAX SPACING
- ① CRITICAL POINT WITH CORRESPONDING NUMBER

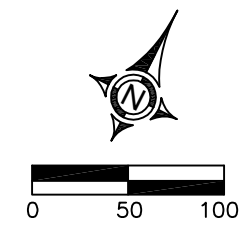
CRITICAL POINTS

CRITICAL POINT NUMBER	LATITUDE	LONGITUDE	GROUND ELEVATION (MSL)	DESCRIPTION
1	37°48'41.40" N	88°32'51.15" W	389.0	BARRICADE LOCATION: NORTH SIDE OF MAIN APRON
2	37°48'37.80" N	88°32'48.60" W	389.0	BARRICADE LOCATION: WEST SIDE OF MAIN APRON
3	37°48'43.38" N	88°32'51.16" W	390.0	BARRICADE LOCATION: WEST SIDE CORPORATE HANGAR
4	37°48'42.83" N	88°32'46.51" W	388.0	NORTHWEST CORNER EQUIPMENT PARKING AREA

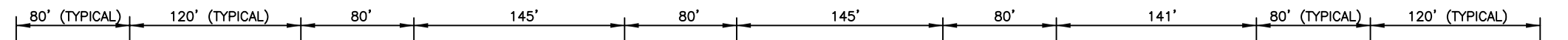
Lone Oak Road

To Illinois Route 34



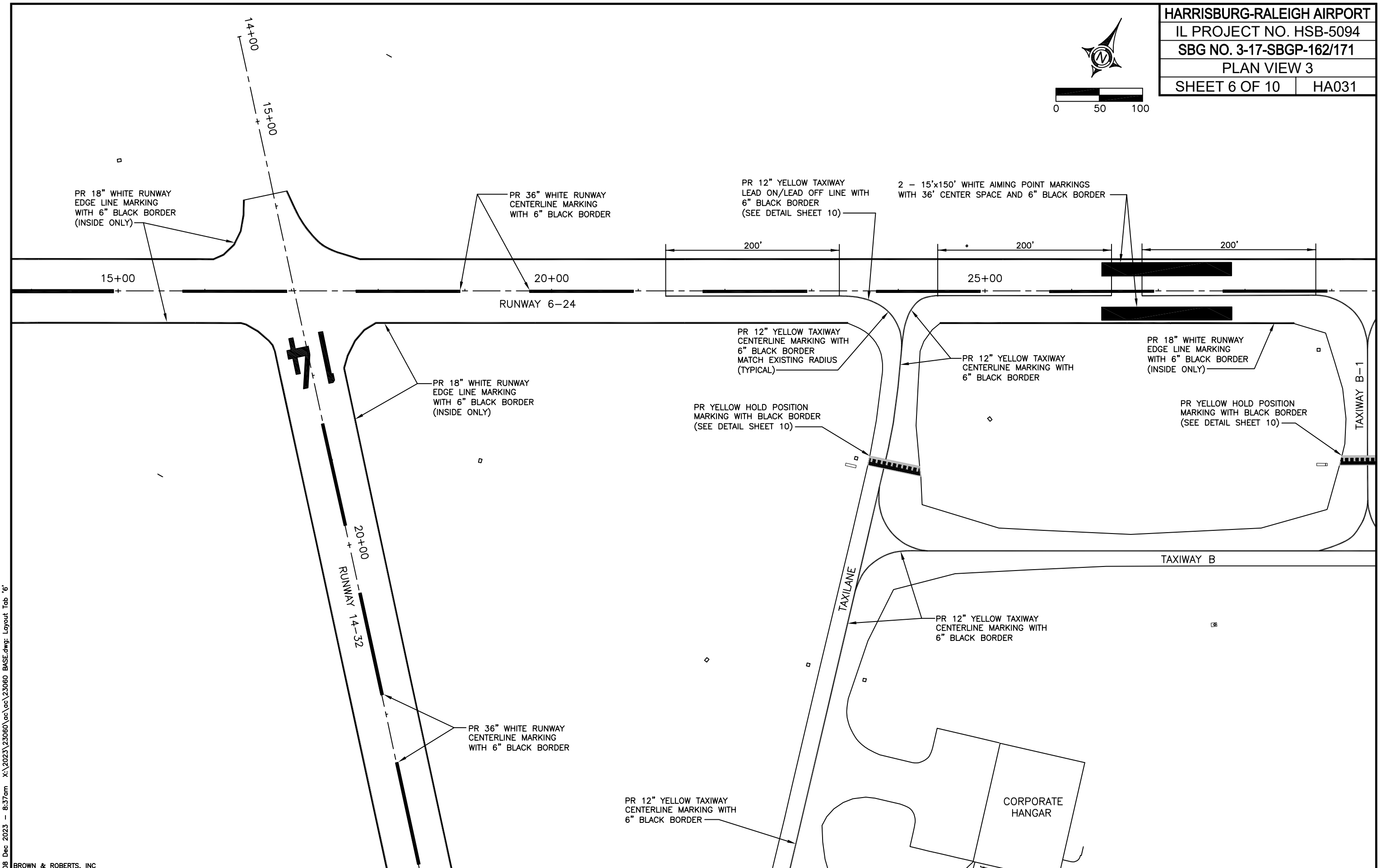
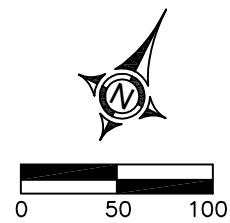


PR 18" WHITE RUNWAY
EDGE LINE MARKING
WITH 6" BLACK BORDER
(INSIDE ONLY)



PR 36" WHITE RUNWAY
CENTERLINE MARKING
WITH 6" BLACK BORDER

PR 18" WHITE RUNWAY
EDGE LINE MARKING
WITH 6" BLACK BORDER
(INSIDE ONLY)



PR 18" WHITE RUNWAY
 EDGE LINE MARKING
 WITH 6" BLACK BORDER
 (INSIDE ONLY)

PR 36" WHITE RUNWAY
 CENTERLINE MARKING
 WITH 6" BLACK BORDER

PR 12" YELLOW TAXIWAY
 LEAD ON/LEAD OFF LINE WITH
 6" BLACK BORDER
 (SEE DETAIL SHEET 10)

2 - 15'x150' WHITE AIMING POINT MARKINGS
 WITH 36' CENTER SPACE AND 6" BLACK BORDER

15+00

20+00

25+00

RUNWAY 6-24

PR 12" YELLOW TAXIWAY
 CENTERLINE MARKING WITH
 6" BLACK BORDER
 MATCH EXISTING RADIUS
 (TYPICAL)

PR 12" YELLOW TAXIWAY
 CENTERLINE MARKING WITH
 6" BLACK BORDER

PR 18" WHITE RUNWAY
 EDGE LINE MARKING
 WITH 6" BLACK BORDER
 (INSIDE ONLY)

PR 18" WHITE RUNWAY
 EDGE LINE MARKING
 WITH 6" BLACK BORDER
 (INSIDE ONLY)

PR YELLOW HOLD POSITION
 MARKING WITH BLACK BORDER
 (SEE DETAIL SHEET 10)

PR YELLOW HOLD POSITION
 MARKING WITH BLACK BORDER
 (SEE DETAIL SHEET 10)

20+00
 RUNWAY 14-32

PR 36" WHITE RUNWAY
 CENTERLINE MARKING
 WITH 6" BLACK BORDER

PR 12" YELLOW TAXIWAY
 CENTERLINE MARKING WITH
 6" BLACK BORDER

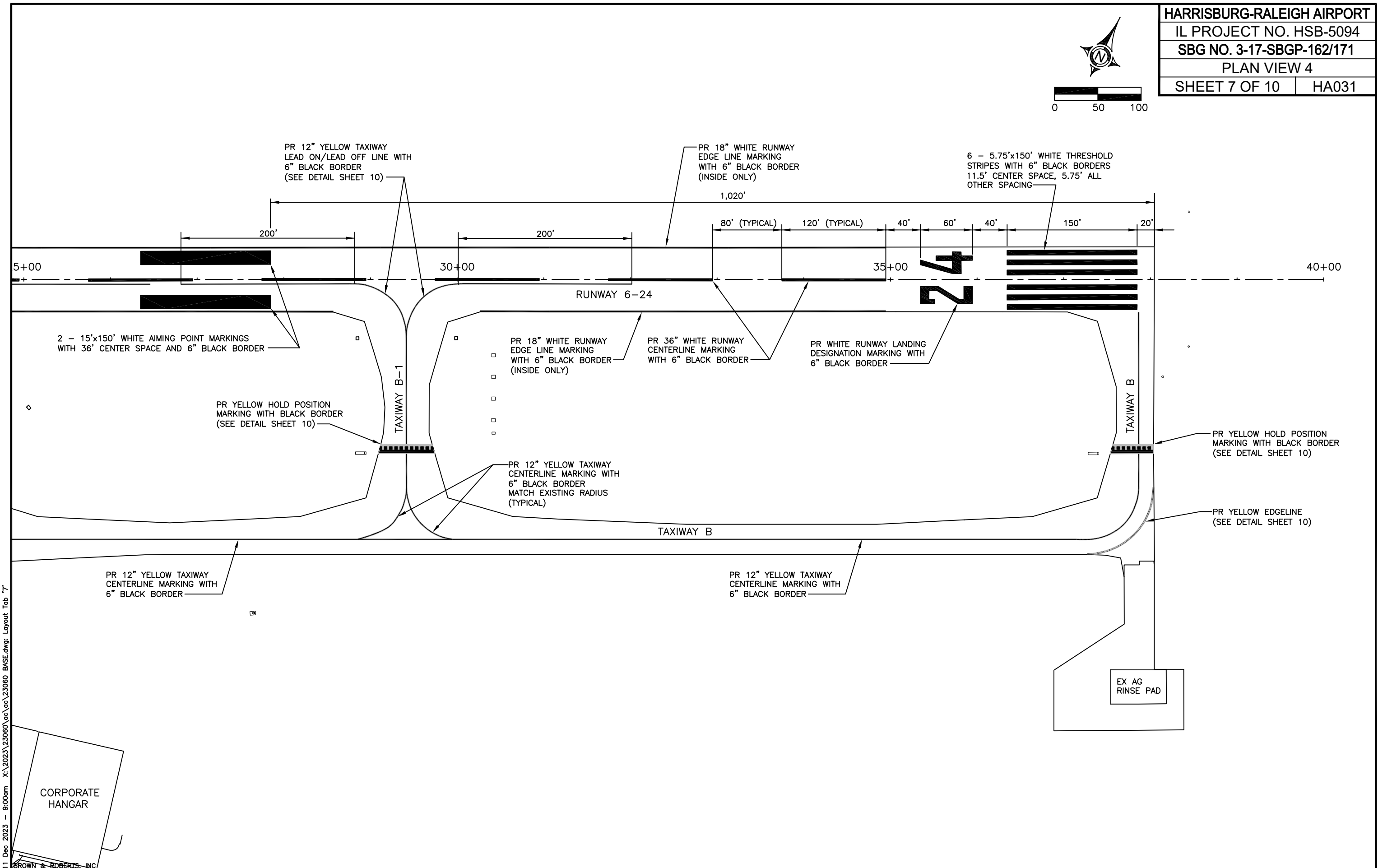
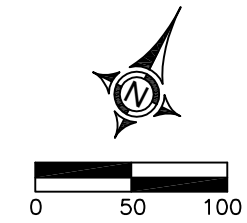
PR 12" YELLOW TAXIWAY
 CENTERLINE MARKING WITH
 6" BLACK BORDER

CORPORATE
 HANGAR

TAXIWAY B-1

TAXIWAY B

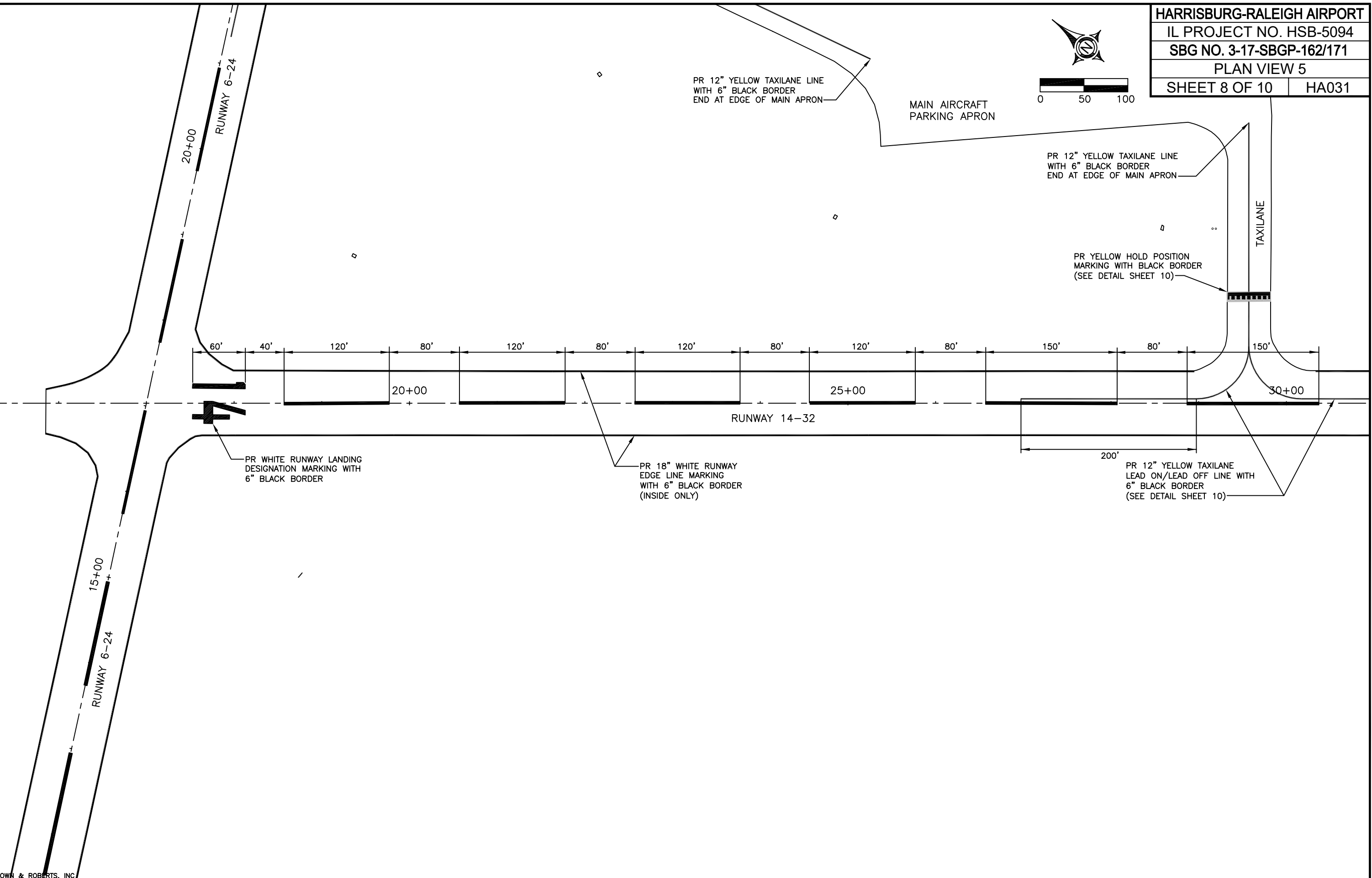
TAXILANE

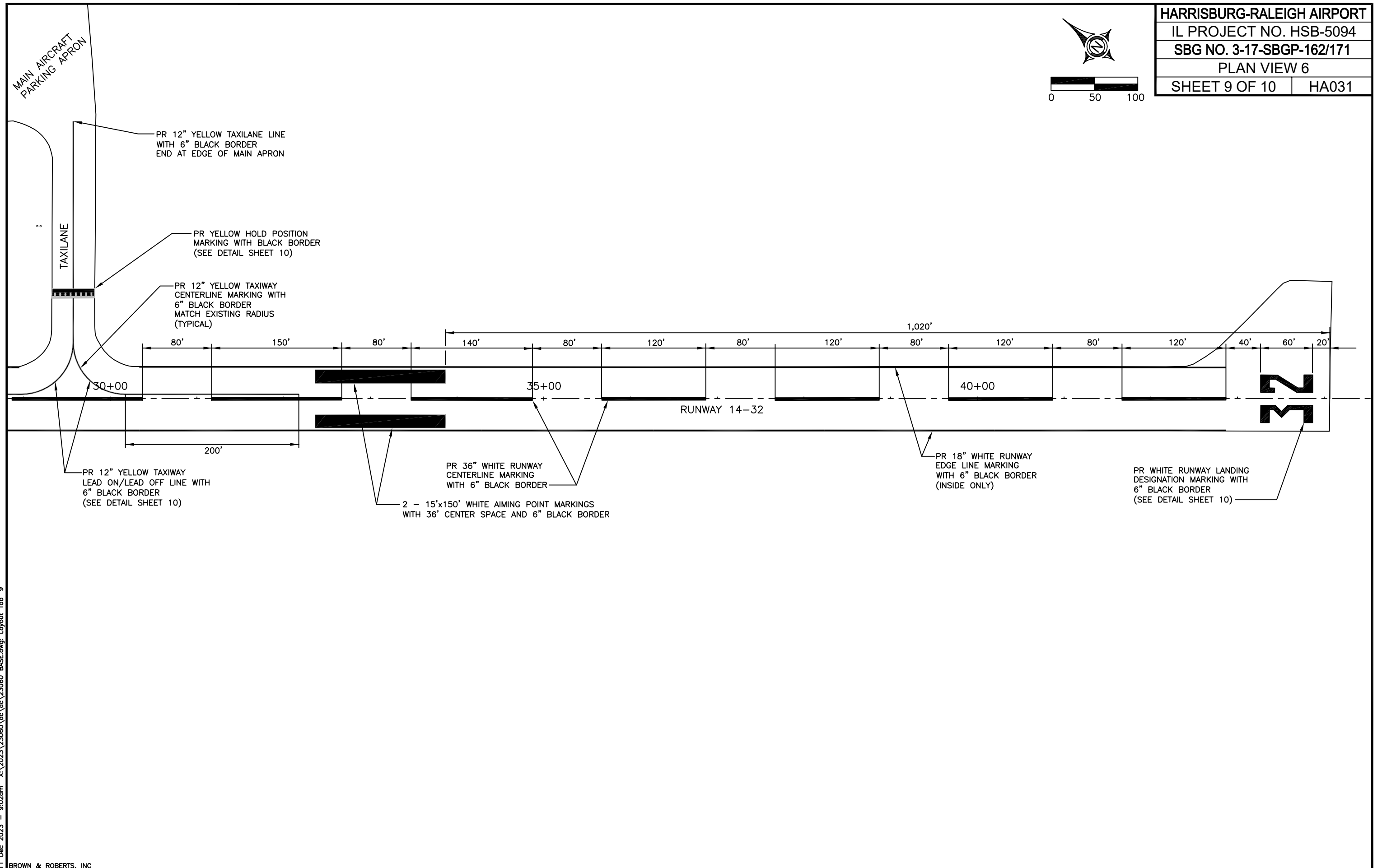
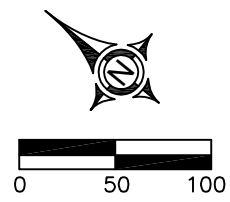


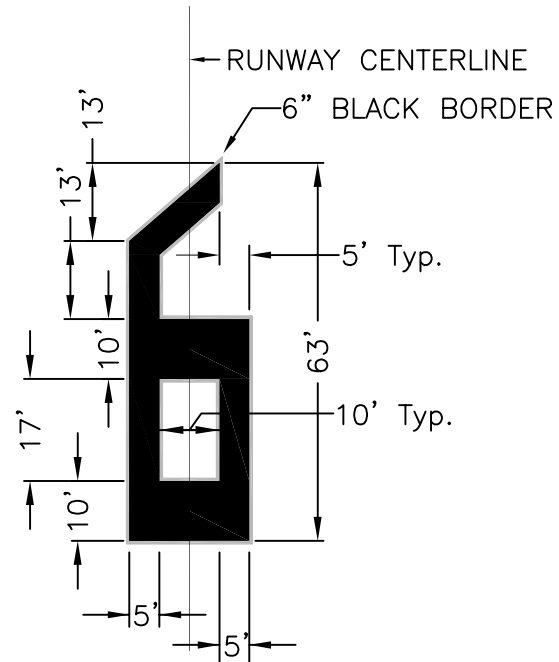
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CORPORATE HANGAR

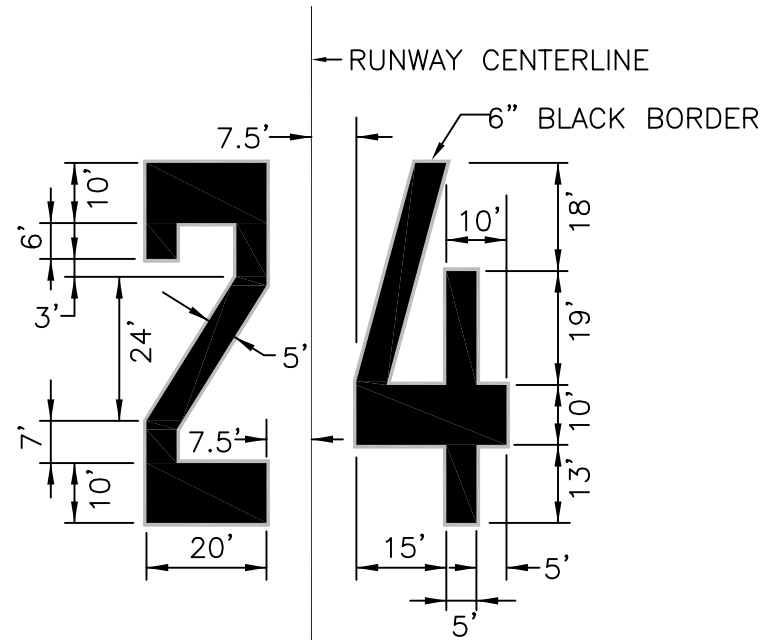
BROWN & ROBERTS, INC





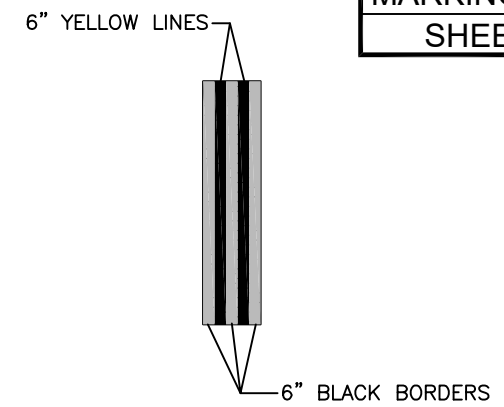


712 SQ.FT. WHITE
113 SQ.FT. BLACK

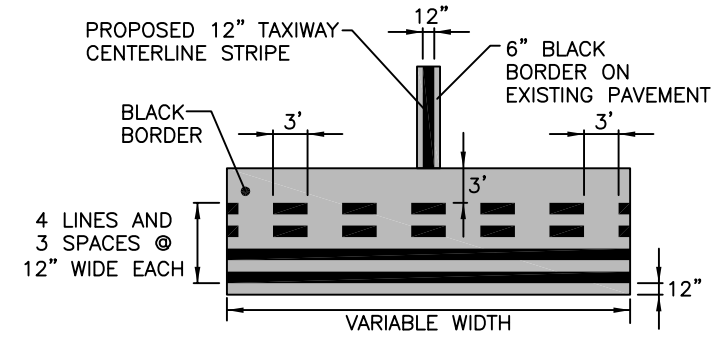


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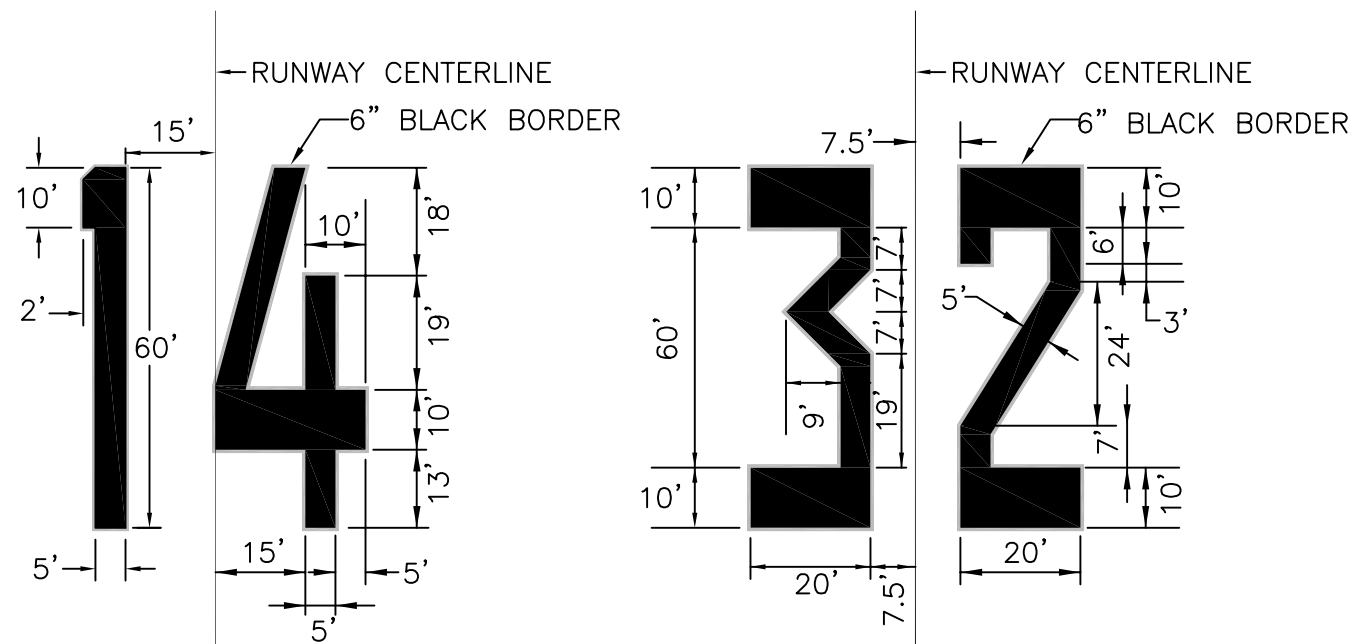
602 SQ.FT. WHITE
107 SQ.FT. BLACK



TAXIWAY B EDGELINE DETAIL
NO SCALE



HOLD POSITION MARKING DETAIL
NO SCALE



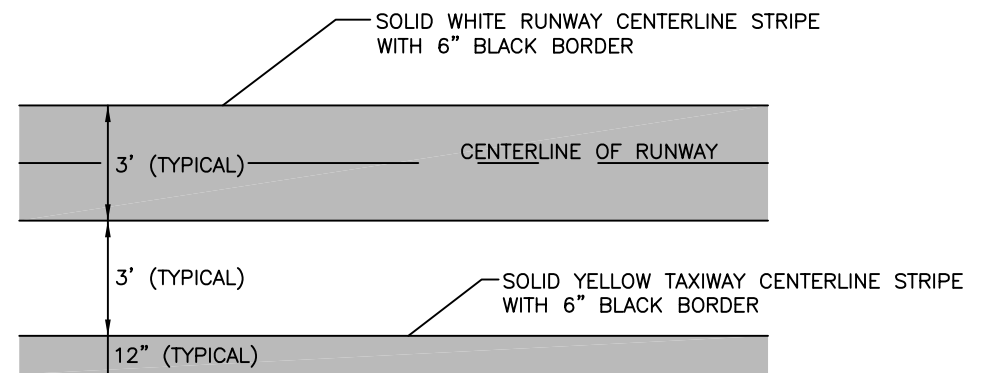
318 SQ.FT. WHITE
68 SQ.FT. BLACK

602 SQ.FT. WHITE
107 SQ.FT. BLACK

634 SQ.FT. WHITE
103 SQ.FT. BLACK

652 SQ.FT. WHITE
106 SQ.FT. BLACK

RUNWAY DESIGNATION MARKING DETAILS
NO SCALE



LEAD ON/LEAD OFF TAXIWAY/TAXILANE CENTERLINE DETAIL
NO SCALE