



Washington County, MD

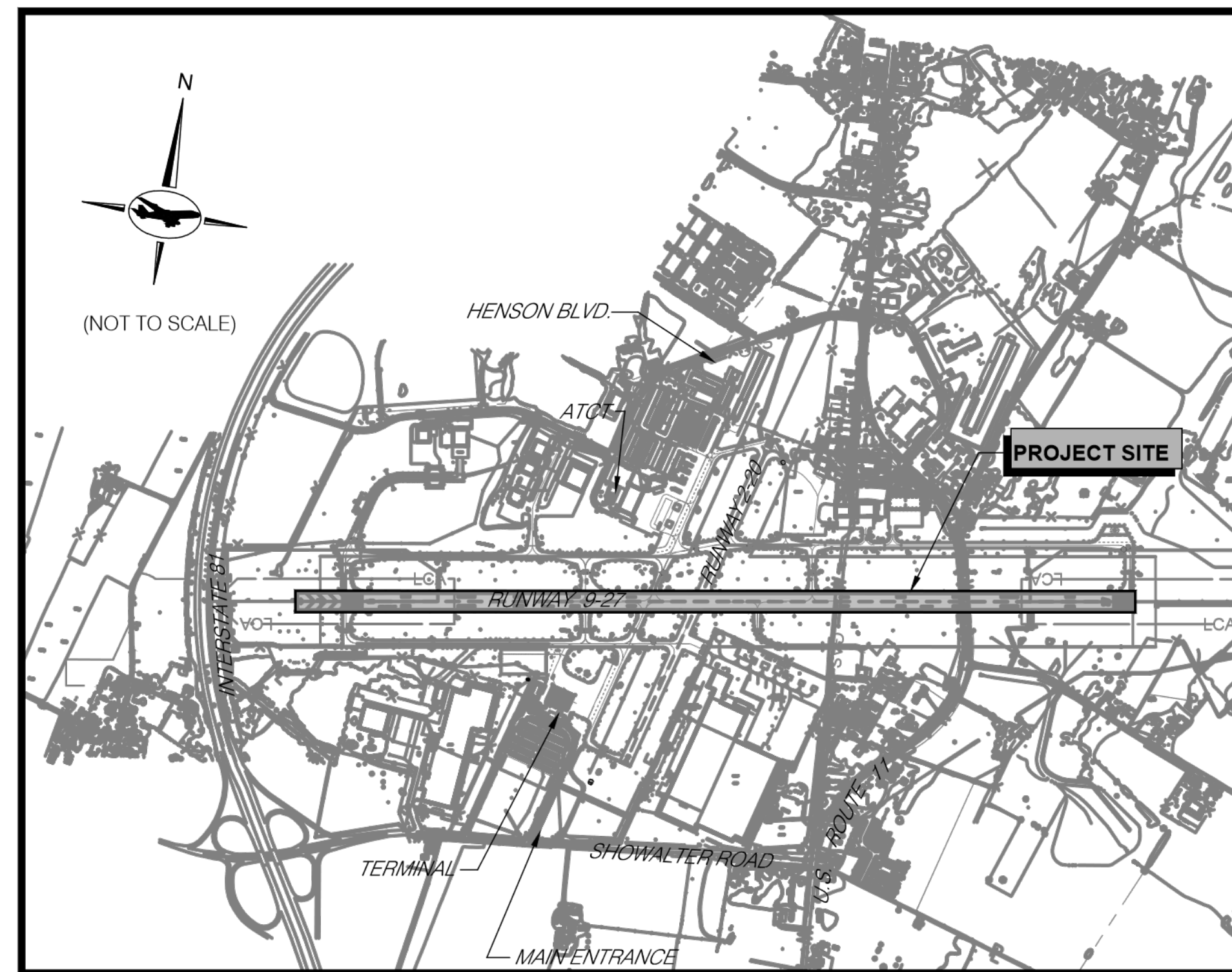
HAGERSTOWN REGIONAL AIRPORT

RUNWAY 9-27 EDGE LIGHTING & SIGNAGE REPLACEMENT A.I.P. No. 3-24-0019-071-2023 (DESIGN/CONSTRUCTION)

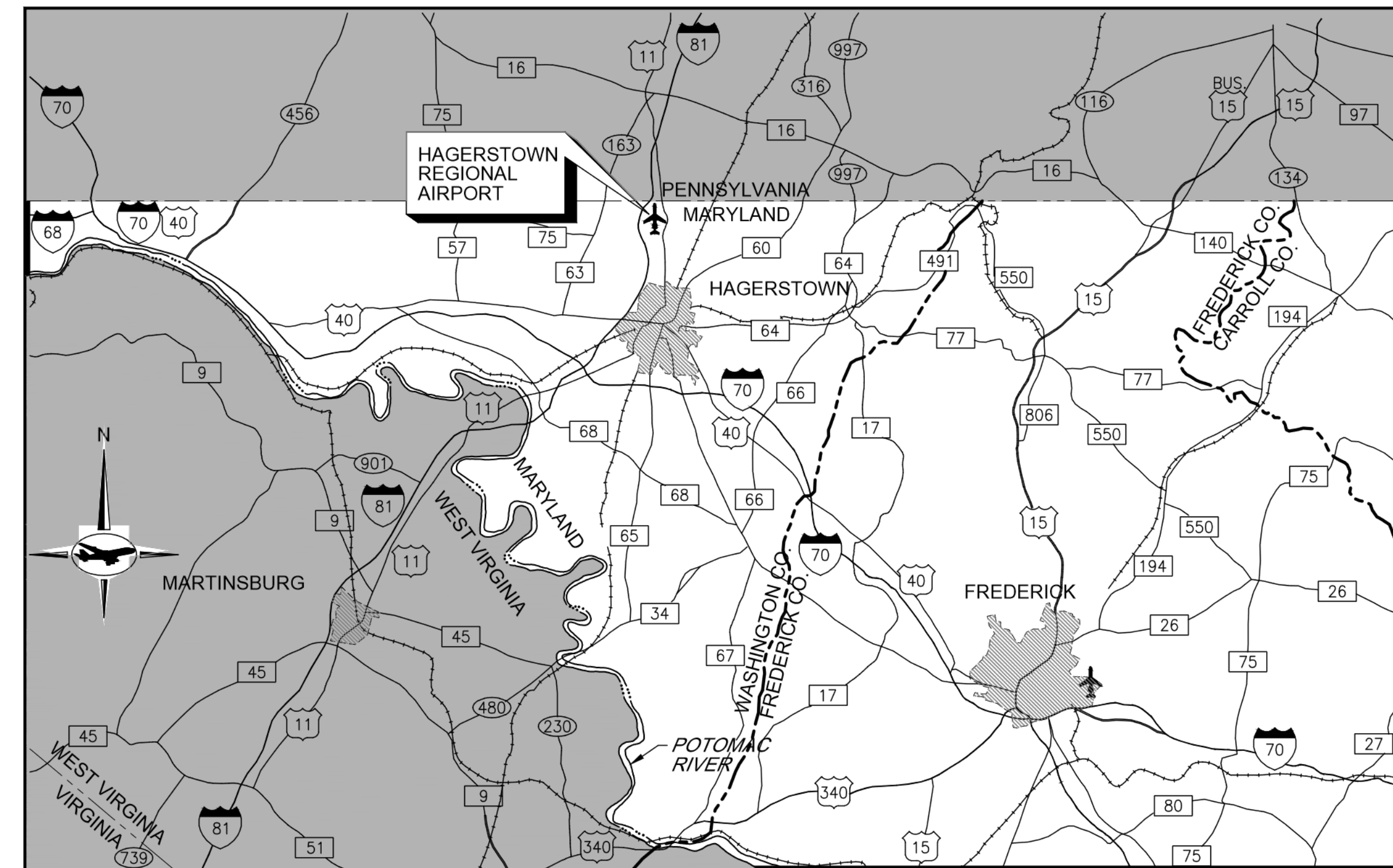
BID DOCUMENTS
SEPTEMBER 2023

BID No. PUR-1635

VICINITY MAP



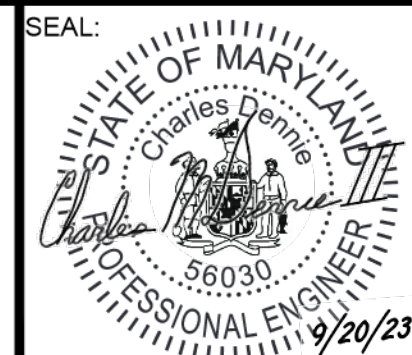
LOCATION MAP



SCALE IN MILES



6031 UNIVERSITY BLVD.
SUITE 330
ELLCOTT CITY, MD 21043
PHONE: 410-465-9600
FAX: 410-465-9602



PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."
LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

APPROVED:
WASHINGTON COUNTY DIVISION OF PLAN REVIEW & PERMITTING

SIGNATURE _____ DATE: _____



HAGERSTOWN REGIONAL AIRPORT

APPROVED _____ DATE _____

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635


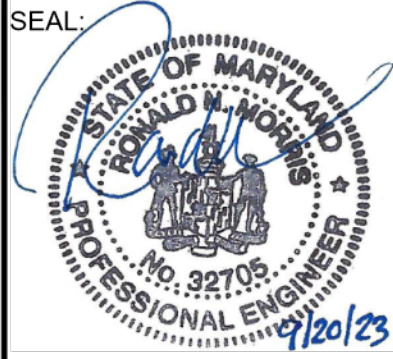

SHEET NO.:

G100

1 OF 39

DRAWING INDEX		
NO.	DRAWING NO.	DRAWING TITLE
GENERAL		
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2	G101	DRAWING INDEX AND SCHEDULE OF QUANTITIES
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4	G201	GENERAL CONSTRUCTION AND SAFETY NOTES 2
5	G202	GENERAL PROJECT LAYOUT
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15	E101	ELECTRICAL WORK PLAN 1
16	E102	ELECTRICAL WORK PLAN 2
17	E103	ELECTRICAL WORK PLAN 3
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23	E200	ELECTRICAL VAULT
24	E201	ELECTRICAL VAULT - ONE LINE DIAGRAM
25	E501	ELECTRICAL DETAILS
26	E511	ELECTRICAL SIGN DETAIL 1
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29	E602	SIGN PLAN 2
30	E603	SIGN PLAN 3
31	E604	SIGN PLAN 4
32	E605	SIGN PLAN 5
33	E606	SIGN PLAN 6
34	E607	SIGN PLAN 7
35	E611	SIGNAGE SCHEDULE 1
36	E612	SIGNAGE SCHEDULE 2
37	E613	SIGNAGE SCHEDULE 3
38	E614	SIGNAGE SCHEDULE 4
39	E615	SIGNAGE SCHEDULE 5

SCHEDULE OF QUANTITIES				
PAY ITEM	DESCRIPTION	UNIT	BID	QUANTITY
M-100-4.1	MAINTENANCE AND PROTECTION OF TRAFFIC AND CSPP	LS	1	
M-150-5.1	PROJECT SURVEY AND STAKEOUT	LS	1	
C-105-6.1	MOBILIZATION	LS	1	
L-100-5.1	SITE LOCATING AND DUCT TRACING	ALLOW	1	
L-108-5.1	1-1/C NO. 8 AWG, 5KV, L-824C CABLE IN CONDUIT, INSTALLED COMPLETE IN PLACE	LF	28,500	
L-108-5.2	DEMOLITION OF CABLE IN CONDUIT, CONDUIT TO REMAIN, PER CONDUIT LENGTH	LF	28,500	
L-109-7.1	REMOVE 30KW CONSTANT CURRENT REGULATOR AND ASSOCIATED EQUIPMENT AND INSTALL 20KW, 5-STEP, 240V, L-829 CONSTANT CURRENT REGULATOR AND ALL ASSOCIATED INCOMING POWER AND COMMUNICATION APPURTENANCES	EA	1	
L-125-5.1	L-862(L) RUNWAY ELEVATED EDGE LIGHT FIXTURE ON EXISTING LIGHT BASE, WITH TRANSFORMER AND ACCESSORIES, INSTALLED COMPLETE IN PLACE	EA	64	
L-125-5.2	L-862E(L) RUNWAY THRESHOLD/END LIGHT ON EXISTING LIGHT BASE, WITH TRANSFORMER AND ACCESSORIES, INSTALLED COMPLETE IN PLACE	EA	16	
L-125-5.3	L-850C(L) RUNWAY IN-PAVEMENT EDGE LIGHT FIXTURE ON EXISTING LIGHT BASE, WITH TRANSFORMER AND ACCESSORIES, INSTALLED COMPLETE IN PLACE	EA	5	
L-125-5.4	1 MODULE - SIZE 1, STYLE 3, CLASS 1, MODE 2, L-858(L) AIRFIELD GUIDANCE SIGN ON EXISTING FOUNDATION, WITH TRANSFORMER AND ACCESSORIES, INSTALLED, COMPLETE IN PLACE	EA	10	
L-125-5.5	2 MODULE - SIZE 1, STYLE 3, CLASS 1, MODE 2, L-858(L) AIRFIELD GUIDANCE SIGN ON EXISTING FOUNDATION, WITH TRANSFORMER AND ACCESSORIES, INSTALLED, COMPLETE IN PLACE	EA	15	
L-125-5.6	3 MODULE - SIZE 1, STYLE 3, CLASS 1, MODE 2, L-858(L) AIRFIELD GUIDANCE SIGN ON EXISTING FOUNDATION, WITH TRANSFORMER AND ACCESSORIES, INSTALLED, COMPLETE IN PLACE	EA	11	
L-125-5.7	4 MODULE - SIZE 1, STYLE 3, CLASS 1, MODE 2, L-858(L) AIRFIELD GUIDANCE SIGN ON EXISTING FOUNDATION, WITH TRANSFORMER AND ACCESSORIES, INSTALLED, COMPLETE IN PLACE	EA	2	
L-125-5.8	1 MODULE - SIZE 4, STYLE 3, CLASS 1, MODE 2, L-858(L) AIRFIELD GUIDANCE SIGN ON EXISTING FOUNDATION, WITH TRANSFORMER AND ACCESSORIES, INSTALLED, COMPLETE IN PLACE	EA	6	
L-125-5.9	RELOCATE 2 MODULE L-858(L) AIRFIELD GUIDANCE SIGN ON EXISTING FOUNDATION, FURNISH AND INSTALL TRANSFORMER AND ACCESSORIES, INSTALLED, COMPLETE IN PLACE	EA	2	
L-125-5.10	REMOVE AND REPLACE ALL EXISTING SIGN PANELS WITHIN EXISTING SIGN HOUSING	EA	4	
L-125-5.11	INSTALL 12" DIAMETER 36" DEEP REINFORCED CONCRETE PIER FOR SIGN FOUNDATION EXTENSION AND 6" DEEP WASHED STONE MAINTENANCE PAD, COMPLETE IN PLACE	EA	10	
L-125-5.12	REMOVE AIRFIELD GUIDANCE SIGN, DEMOLISH TRANSFORMER AND ACCESSORIES, FOUNDATION TO REMAIN	EA	46	
L-125-5.13	REMOVE LIGHT FIXTURE, DEMOLISH TRANSFORMER AND ACCESSORIES	EA	85	
L-125-5.14	TEMPORARY AIRFIELD LIGHTING DURING CONSTRUCTION	ALLOW	1	

CONSULTANT:  AIRPORT DESIGN CONSULTANTS 6031 UNIVERSITY BLVD, SUITE 330 ELLICOTT CITY, MD 21043 TEL: 410 465 9600 FAX: 410 465 9602	SEAL: 	PROFESSIONAL CERTIFICATION: "I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND" LICENSE NO. 32705 EXPIRATION DATE: 2/21/2024	DESIGNED: R.D.H. DRAWN: R.D.H. CHECKED: M.J.B. APPROVED: R.N.M.	REVISION NO. REVISION DATE 	DESCRIPTIONS <div style="text-align: center; font-size: 2em; font-weight: bold;"> BID DOCUMENTS </div>		PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	FAA AIP No.: 3-24-0019-071-2023 Bid No.: PUR-1635
		SHEET TITLE: DRAWING INDEX AND SCHEDULE OF QUANTITIES		SHEET NO.: <div style="text-align: right; font-size: 1.5em; font-weight: bold;"> G101 </div>	SCALE: N.A. DATE: SEPTEMBER 2023	2 OF 39		

F DEBRIS

1. DEBRIS, WASTE, AND LOOSE MATERIAL (INCLUDING DUST AND DIRT) CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR OR PROPELLERS, OR BEING INGESTED IN JET ENGINES, SHALL NOT BE ALLOWED ON ACTIVE AIRCRAFT MOVEMENT AREAS OR ADJACENT GRASSED AREAS. MATERIALS OBSERVED TO BE WITHIN THESE AREAS SHALL BE REMOVED IMMEDIATELY AND/OR CONTINUOUSLY BY THE CONTRACTOR. THE CONTRACTOR SHALL HAVE A SWEEPING MACHINE AND OPERATOR ON SITE AND READY AT ALL TIMES DURING CONSTRUCTION ACTIVITY WHERE TRAVEL ON OR ACROSS RUNWAYS, RAMP AREAS, TAXIWAYS, OR AIRCRAFT APRONS IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ADEQUATE PERSONNEL AND EQUIPMENT TO KEEP SUCH SURFACES CLEAR OF DEBRIS. THE CONTRACTOR SHALL ALSO MAINTAIN A WATER TRUCK ON SITE FOR DUST CONTROL PURPOSES.

G FLAGMEN

1. IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, FURNISH FLAGMEN AS NECESSARY TO CONTROL HIS TRAFFIC (UNLESS OTHERWISE DIRECTED BY THE RPR).

2. ALL CONTRACTOR VEHICLES THAT ARE REQUIRED TO CROSS ACTIVE RUNWAYS, TAXIWAYS AND APRONS SHALL DO SO UNDER THE DIRECT CONTROL OF A COMPETENT FLAGMAN WHO IS IN DIRECT RADIO CONTACT WITH GROUND CONTROL. ALL AIRCRAFT TRAFFIC ON RUNWAYS, TAXIWAYS, AND APRONS SHALL HAVE PRIORITY OVER CONTRACTOR'S TRAFFIC. AT NO TIME SHALL THE CONTRACTOR'S VEHICLES OR PERSONNEL BE ALLOWED TO ENTER OR CROSS ACTIVE RUNWAYS, TAXIWAYS, SAFETY AREAS, OBJECT FREE AREAS, OR RUNWAY PROTECTION ZONES WITHOUT PROPER AUTHORIZATION OBTAINED THROUGH GROUND CONTROL.

H MISCELLANEOUS

1. OPEN FLAME, WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN TAKEN AND THE PROCEDURE PREVIOUSLY APPROVED BY THE RPR.

2. EQUIPMENT AND STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT JET BLAST OR WIND CONDITIONS IN EXCESS OF 10 KNOTS.

3. THE CONTRACTOR SHALL PROVIDE POLYETHYLENE CONSTRUCTION BARRIERS WITH FLASHING RED LIGHTS AS SHOWN ON THE DRAWINGS TO DELINEATE THE WORK AREAS WHEN CLOSED TO AIRPORT TRAFFIC. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL LOCATED IN THE AOA SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED BY APPROVED LIGHT UNITS DURING HOURS OF LIMITED VISIBILITY AND DARKNESS.

4. ALL MATERIALS AND EQUIPMENT WHEN NOT IN USE SHALL BE PLACED IN APPROVED AREAS WHERE THEY WILL NOT CONSTITUTE A HAZARD TO AIRCRAFT OPERATIONS AND NOT PENETRATE CLEARANCE SURFACES DEFINED PREVIOUSLY AND SHOWN ON THE CONSTRUCTION SAFETY AND PHASING NOTES AND DETAILS SHEET. EQUIPMENT SHALL BE PARKED AT THE STAGING AREA WHEN NOT IN USE.

5. UPON COMPLETION OF ANY WORK AREA, THE RPR WILL ARRANGE A PHYSICAL INSPECTION OF THE AREA WITH AIRPORT OPERATIONS PERSONNEL PRIOR TO OPENING ANY PORTION OR WHOLE RUNWAY, TAXIWAY, OR RAMP AREA THAT HAS BEEN CLOSED FOR WORK OR USED FOR A CROSSING POINT OR HAUL ROUTE BY THE CONTRACTOR.

6. ENTRANCE TO THE AIRFIELD IS SUBJECT TO STRICT SECURITY REGULATIONS. ALL PERSONNEL ENTERING THE AIRFIELD MAY BE SUBJECT TO A BACKGROUND CHECK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL OF HIS EMPLOYEES WHO NEED TO HAVE ACCESS TO THE AIRFIELD, HAVE INFORMATION AVAILABLE FOR A BACKGROUND CHECK TO BE PERFORMED, DATING BACK TEN (10) YEARS VERIFYING REPRESENTATIONS MADE BY THE EMPLOYEE RELATING TO EMPLOYMENT.

7. THE CONTRACTOR SHALL PROVIDE THE RPR AND AIRPORT DIRECTOR A CURRENT LIST OF ALL EMPLOYEES WORKING ON THE AIRPORT. THE LIST SHALL BE MAINTAINED CURRENT BY THE CONTRACTOR AND APPLIES TO BOTH THE CONTRACTOR AND SUBCONTRACTORS.

8. THE CONTRACTOR SHALL FAMILIARIZE HIS PERSONNEL WITH CLEARANCES NEEDED TO PROVIDE FOR THE SAFE OPERATION OF RUNWAYS AND TAXIWAYS AS SHOWN IN THE PLANS.

9. EXCEPT FOR EMERGENCIES, ALL CONTACT WITH AIRPORT PERSONNEL SHALL BE MADE THROUGH THE RPR. FOR EMERGENCIES INVOLVING SAFETY (INJURIES, FIRES, SECURITY BREACHES, ETC.) THE CONTRACTOR SHALL MAKE DIRECT CONTACT WITH AIRPORT OPERATIONS MANAGER FOLLOWED BY NOTIFICATION TO THE RPR AS SOON AS POSSIBLE.

10. THE CONTRACTOR SHALL PROVIDE THE PHONE NUMBERS OF THREE PERSONNEL, INCLUDING THE PROJECT SUPERINTENDENT, WHO MAY BE CONTACTED IN AN EMERGENCY. PERSONNEL SHALL BE ON CALL 24 HOURS PER DAY FOR MAINTAINING AIRPORT HAZARD LIGHTING AND BARRICADES.

11. IN ACCORDANCE WITH THE SPECIFICATIONS, FEDERAL WAGE RATES SHALL BE POSTED OUTSIDE THE SITE FIELD OFFICE(S) IN A WEATHERPROOF ENCLOSURE.

I UTILITIES

1. UNDERGROUND UTILITIES: THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE CONSIDERED TO BE ONLY APPROXIMATE LOCATIONS. ALL UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. IN THE EVENT ANY UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR INCURRED COSTS OF REPAIRS.

2. THE CONTRACTOR SHALL ALSO NOTIFY "MISS UTILITY" AT 1-800-257-7777. THE COST ASSOCIATED WITH CONTACTING MISS UTILITY SHALL BE BORNE BY THE CONTRACTOR. ANY COSTS ASSOCIATED WITH DAMAGE TO UTILITIES SHALL BE BORNE BY THE CONTRACTOR.

3. UTILITIES NOTIFICATION: AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE RPR AND THE OWNER OF EACH UNDERGROUND UTILITY FACILITY AFFECTED.

J SECURITY

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH THE VARIOUS ASPECTS OF TRANSPORTATION SECURITY ADMINISTRATION (TSA) SECTION 1542 "AIRPORT SECURITY". ANY VIOLATION OF TSA SECTION 1542 BY THE CONTRACTOR AND ANY SUBSEQUENT FINES IMPOSED DUE TO THE VIOLATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. ALL VEHICLES TO BE USED ON THE AIRPORT SHALL BE REGISTERED WITH THE AIRPORT OPERATIONS MANAGER. REGISTRATION CONSISTS OF LICENSE PLATE NUMBER AND OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT VEHICLES ARE REGISTERED IN A TIMELY MANNER SO AS NOT TO DELAY THE PROJECT. VISITING VEHICLES ARE EXEMPT FROM THE REGISTRATION REQUIREMENTS SO LONG AS THEY ARE ESCORTED BY A REGISTERED VEHICLE AT ALL TIMES WHEN ON THE AOA.

3. THE AIRPORT WILL NOT PROVIDE AIR OPERATIONS AREA (AOA) ESCORTS. THE CONTRACTOR MUST PROVIDE HIS OWN RADIO, ACQUAINT HIMSELF AND ANY OTHER PERSONNEL THAT ARE ANTICIPATED TO USE THE RADIO WITH THE PROPER PROCEDURES IN COMMUNICATING WITH AIR TRAFFIC CONTROL TOWER (ATCT) GROUND CONTROL ON FREQUENCY 120.8 MHz WHILE THE ATCT IS OPEN BETWEEN THE HOURS OF 0500-2200 AND ON THE COMMON TRAFFIC ADVISORY FREQUENCY (CTAF) ON 120.3 MHz WHEN THE ATCT IS CLOSED. THE CONTRACTOR WILL NEED TO ATTEND SECURITY/GROUND VEHICLE OPS TRAINING.

4. THE PROJECT SUPERVISORS SHALL HAVE WITH THEM AT ALL TIMES THE TELEPHONE NUMBERS FOR THE FOLLOWING PERSONS. IN THE EVENT OF AN EMERGENCY THESE PERSONNEL SHOULD BE CONTACTED IN DESCENDING ORDER:
 MR. NEIL DORAN, AIRPORT DIRECTOR
 MR. TERRY STOUFFER, AIRPORT MAINTENANCE SUPERVISOR
 MR. GENE BOLANOWSKI, OPERATIONS MANAGER
 MR. BOB HOOPENGARDNER, AIRPORT FIRE CHIEF

5. TELEPHONE NUMBERS WILL BE PROVIDED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. ADDITIONAL CONTACTS MAY BE PROVIDED TO THE CONTRACTOR AT THAT TIME.

5. WHEN CONSTRUCTION ACTIVITY IS CONDUCTED IN THE AOA, KEY PROJECT SITE SUPERVISORY PERSONNEL OF THE CONTRACTOR AND ITS SUBCONTRACTORS (INCLUDING CONSTRUCTION GATE GUARD PERSONNEL) SHALL BE ISSUED AIRPORT IDENTIFICATION (ID) BADGES. ALL INDIVIDUALS WHO RECEIVE AN AIRPORT BADGE ARE REQUIRED TO ATTEND A SECURITY TRAINING CLASS PROVIDED BY THE AIRPORT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPLICATIONS AND MAKE ALL NECESSARY ARRANGEMENTS TO ENABLE HIS/HER PERSONNEL TO OBTAIN ID BADGES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ENSURING THAT HE/SHE HAS SUFFICIENT SUPERVISORY AND CONSTRUCTION GATE PERSONNEL ON THE PROJECT SITE WHENEVER WORK IS OCCURRING TO FULFILL THE RESPONSIBILITIES.

6. PROJECT SITE SUPERVISORY PERSONNEL ARE SUBJECT TO FEDERAL CRIMINAL RECORDS CHECKS AND MUST PROVIDE EMPLOYMENT VERIFICATION FORMS THAT COVER THE LAST TEN (10) YEARS OF EMPLOYMENT AND EDUCATION. INFORMATION ON THESE FORMS WILL BE VERIFIED BY THE AIRPORT.

7. APPLICATIONS AND FORMS CAN BE OBTAINED FROM THE AIRPORT BY CALLING MR. GENE BOLANOWSKI. ALL APPLICATIONS AND FORMS ARE TO BE SUBMITTED TO THE AIRPORT AT LEAST TWO (2) WEEKS PRIOR TO THE PROJECT START DATE IN ORDER TO ALLOW TIME TO PERFORM THE EMPLOYMENT AND BACKGROUND CHECKS. THERE IS A REFUNDABLE DEPOSIT OF ONE HUNDRED DOLLARS (\$100.00) FOR EACH PHOTO ID BADGE ISSUED. PAYMENT MUST ACCOMPANY THE APPLICATION. APPLICATIONS, ACCESS INVESTIGATION FORMS AND EMPLOYMENT VERIFICATION FORMS MUST BE FILLED OUT COMPLETELY BEFORE AN APPLICATION WILL BE PROCESSED. NON-REFUNDABLE CONTRACTOR BADGE FEES WILL NOT BE RETURNED TO THE CONTRACTOR IF AN APPLICATION CANNOT BE PROCESSED BECAUSE IT IS INCOMPLETE. COST FOR SECURITY SHALL BE INCLUDED IN CONTRACTORS BID PRICE FOR MOBILIZATION /DEMobilIZATION.

8. PHOTO ID BADGES MUST BE RETURNED TO THE AIRPORT ID PROCESSING OFFICE NO LATER THAN FIVE (5) DAYS AFTER COMPLETION OF THE CONTRACT TO RECEIVE A REFUND OF THE DEPOSIT AND MUST BE RETURNED BEFORE THE FINAL PAY ESTIMATE WILL BE PROCESSED. IN ADDITION TO THE LOSS OF THE BADGE SECURITY DEPOSIT, HOLDERS OF BADGES WHICH ARE LOST WILL BE ASSESSED A BADGE REPLACEMENT FEE OF FIFTY DOLLARS (\$50.00). THE AIRPORT MUST BE NOTIFIED IMMEDIATELY IF A BADGE IS LOST OR STOLEN OR IF ITS HOLDER TERMINATES EMPLOYMENT OR IS REASSIGNED.

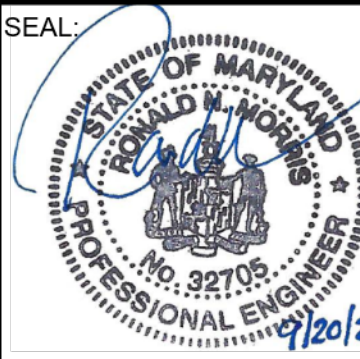
9. PHOTO ID BADGES SHALL BE DISPLAYED ON THE OUTERMOST GARMENT ABOVE THE WAIST SO THEY CAN BE SEEN BY FAA, POLICE AND OTHER AIRPORT PERSONNEL.

CONSULTANT:



ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410.465.9600
 FAX: 410.465.9602

SEAL:



STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 No. 32705
 9/20/23

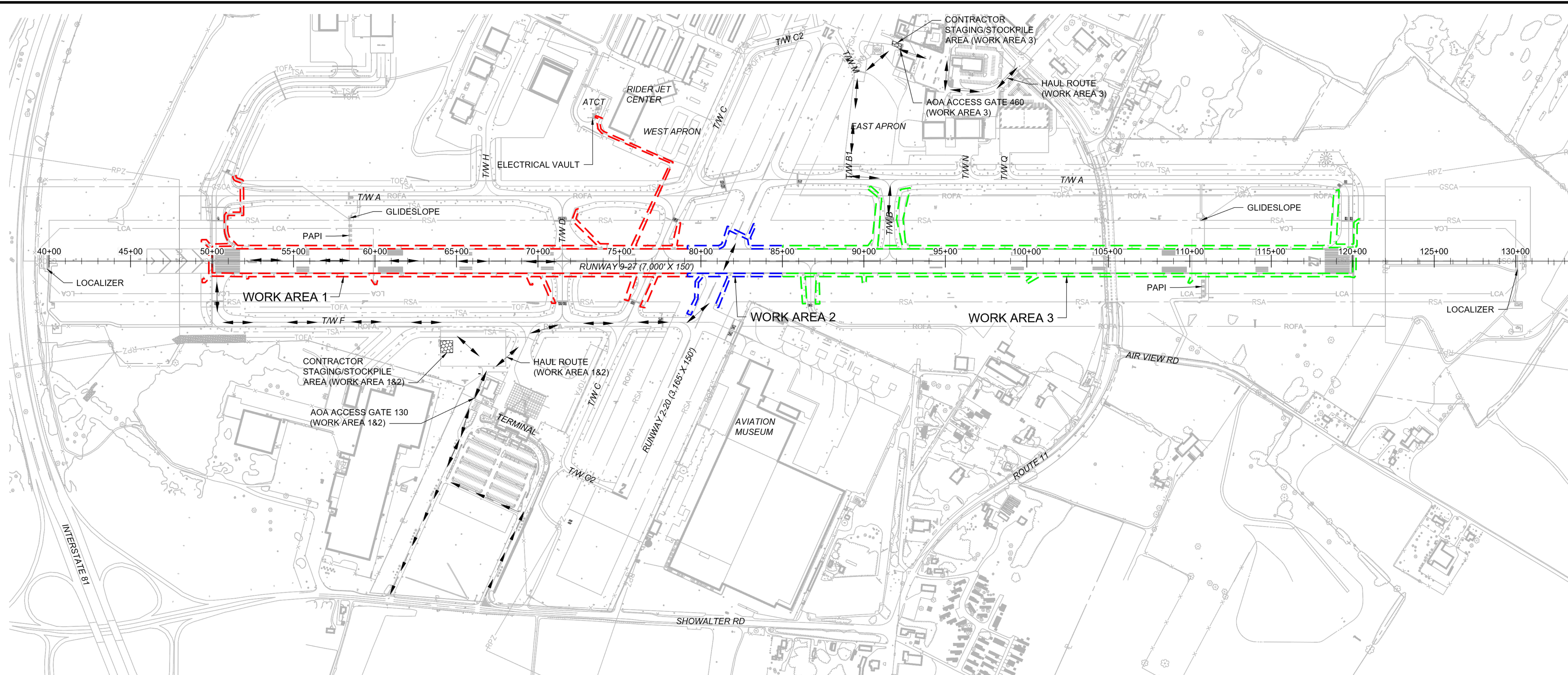
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 LICENSE NO. 32705
 EXPIRATION DATE: 2/21/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
R.D.H.			
DRAWN:			
R.D.H.			
CHECKED:			
M.J.B.			
APPROVED:			
R.N.M.			



Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	FAA AIP No.: 3-24-0019-071-2023 Bid No.: PUR-1635
SHEET TITLE:	GENERAL CONSTRUCTION AND SAFETY NOTES 2	SHEET NO.: G201
SCALE:	N.T.S.	DATE: SEPTEMBER 2023



NOTES:

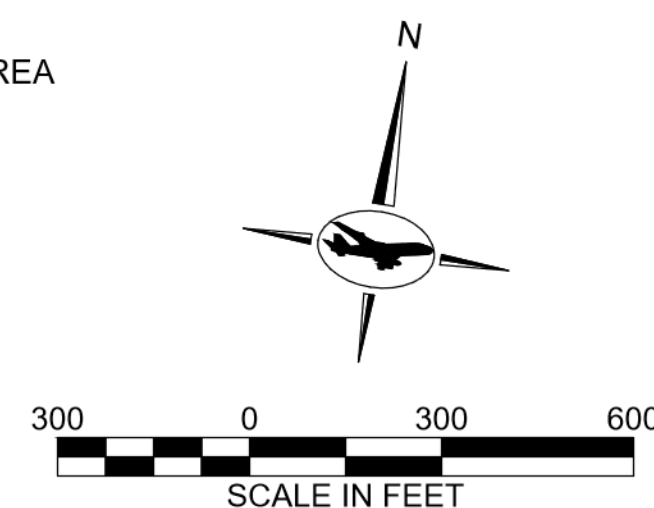
- CONTRACTOR IS REQUIRED TO WORK IN THE SECURE AREA OF THE AIRPORT IN SIDE THE AIRCRAFT OPERATIONS AREA (AOA). THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACTORS SAFETY REQUIREMENTS DURING CONSTRUCTION OUTLINED ON SHEETS G200 AND G201.
- GENERAL STAGING AREA LOCATION SHOWN. CONTRACTOR TO COORDINATE WITH RPR TO ACCESS THE AREA. A BUDDY LOCK SYSTEM IS UTILIZED AT THE GATE 460 ACCESS AREA AND NEEDS TO BE COORDINATED WITH THE RESIDENT PROJECT REPRESENTATIVE (RPR) DURING CONSTRUCTION.

EXISTING LEGEND:

- x-x-x-x- EXISTING FENCE
- RPZ- RUNWAY PROTECTION ZONE
- RSA- RUNWAY SAFETY AREA
- ROFA- RUNWAY OBJECT FREE AREA
- TOFA- TAXIWAY OBJECT FREE AREA
- GSCA- GLIDESLOPE CRITICAL AREA
- LCA- LOCALIZER CRITICAL AREA

PROPOSED LEGEND:

- >->- HAUL ROUTE
- - - - - WORK AREA 1
- - - - - WORK AREA 2
- - - - - WORK AREA 3
- [Pattern Box] CONTRACTOR STAGING/STOCKPILE AREA



CONSULTANT:

 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
 FAX: 410 465 9602

SEAL:

 STATE OF MARYLAND
 RONALD W. HAGER
 PROFESSIONAL ENGINEER
 No. 32705
 9/20/23

PROFESSIONAL CERTIFICATION:
 'I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.'
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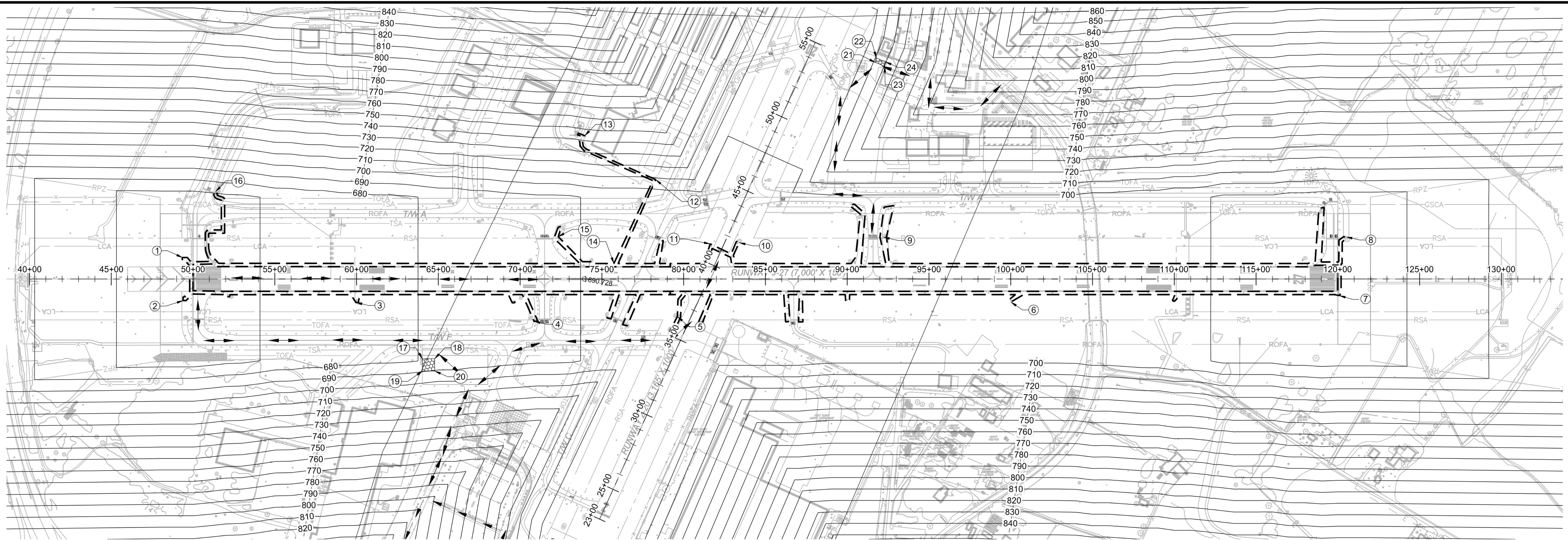
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R.D.H.			<h1>BID DOCUMENTS</h1>
DRAWN:			
R.D.H.			
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M.J.B.			
APPROVED:			
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Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE: GENERAL PROJECT LAYOUT	
SCALE: AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635
SHEET NO.:
 G202
 5 OF 39

FILE NAME: O:\HGR\Projects\2023-1302 RW927\CAD\SHEETS\0005_G202_GENERAL PROJECT LAYOUT.dwg LAYOUT NAME: G202 USER: MBishop PLOTTED: Friday, September 08, 2023 - 12:00pm



MAXIMUM EQUIPMENT HEIGHT

POINT #	NORTHING	EASTING	LATITUDE (N)	LONGITUDE (W)	SITE ELEV. (MSL)	CONTROLLING RUNWAY	PART 77 ELEV. (MSL)	OFZ ELEV. (MSL)	MAX. ALLOWABLE HEIGHT (AGL)
1*	744048.56	1104492.52	39° 42' 26.24"	77° 44' 19.25"	663.1	RW 2-20	664.6	853.1	190.0
2*	743789.50	1104537.50	39° 42' 23.68"	77° 44' 18.64"	661.3	RW 2-20	664.6	853.1	191.8
3*	743944.00	1105583.00	39° 42' 25.29"	77° 44' 05.28"	675.4	RW 2-20	676.2	853.1	177.7
4	744001.50	1106677.00	39° 42' 25.94"	77° 43' 51.29"	686.6	RW 9-27	687.8	745.9	59.4
5**	744168.57	1107537.74	39° 42' 27.66"	77° 43' 40.30"	694.7	RW 2-20	694.0	853.1	158.4
6*	744576.33	1109537.40	39° 42' 31.85"	77° 43' 14.75"	697.3	RW 2-20	698.0	853.1	155.8
7*	744930.59	1111514.97	39° 42' 35.50"	77° 42' 49.49"	683.7	RW 2-20	685.6	853.1	169.4
8	745291.65	1111499.82	39° 42' 39.07"	77° 42' 49.72"	680.8	RW 9-27	685.6	741.7	60.9
9	744845.17	1108705.21	39° 42' 34.44"	77° 43' 25.43"	697.1	RW 9-27	698.0	757.4	60.3
10**	744673.45	1107840.14	39° 42' 32.68"	77° 43' 36.48"	696.9	RW 2-20	696.0	853.1	156.2
11**	744638.17	1107666.31	39° 42' 32.31"	77° 43' 38.70"	696.4	RW 2-20	695.7	853.1	156.7
12*	744974.05	1107275.59	39° 42' 35.60"	77° 43' 43.73"	694.2	RW 9-27	708.4	810.6	116.4
13	745170.76	1106804.85	39° 42' 37.51"	77° 43' 49.78"	690.7	RW 9-27	744.3	851.8	161.1
14*	744427.23	1107103.46	39° 42' 30.18"	77° 43' 45.88"	691.2	RW 2-20	692.0	853.1	161.9
15	744536.00	1106741.50	39° 42' 31.23"	77° 43' 50.52"	686.6	RW 9-27	688.2	747.5	60.9
16	744477.25	1104629.00	39° 42' 30.48"	77° 44' 17.54"	666.4	RW 9-27	671.2	770.4	104.0

MAXIMUM EQUIPMENT HEIGHT

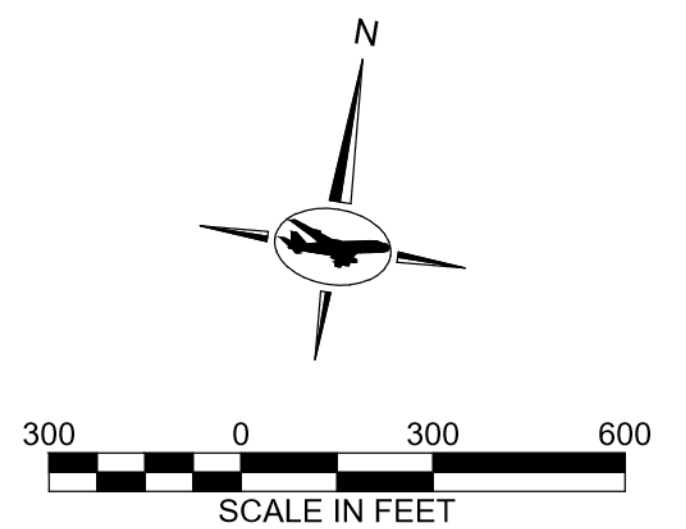
POINT #	NORTHING	EASTING	LATITUDE (N)	LONGITUDE (W)	SITE ELEV. (MSL)	CONTROLLING RUNWAY	PART 77 ELEV. (MSL)	OFZ ELEV. (MSL)	MAX. ALLOWABLE HEIGHT (AGL)
17	743668.17	1106038.59	39° 42' 22.60"	77° 43' 59.43"	680.0	RW 9-27	680.4	777.6	97.7
18	743679.96	1106112.66	39° 42' 22.72"	77° 43' 58.48"	680.9	RW 9-27	681.6	778.3	97.5
19	743594.10	1106050.38	39° 42' 21.87"	77° 43' 59.27"	680.7	RW 9-27	689.4	790.1	109.4
20	743605.89	1106124.44	39° 42' 21.99"	77° 43' 58.32"	681.5	RW 9-27	690.6	790.8	109.3
21	745892.22	1108489.65	39° 42' 44.77"	77° 43' 28.29"	695.8	RW 2-20	721.7	853.1	157.3
22	745920.26	1108491.25	39° 42' 45.05"	77° 43' 28.28"	695.8	RW 2-20	720.9	853.1	157.3
23	745878.75	1108549.22	39° 42' 44.64"	77° 43' 27.53"	695.2	RW 2-20	730.4	853.1	157.9
24	745905.81	1108548.92	39° 42' 44.91"	77° 43' 27.54"	695.0	RW 2-20	729.4	853.1	158.1

* RUNWAY 9-27 WILL BE CLOSED WHEN WORK IS PERFORMED IN THIS LOCATION

** RUNWAY 9-27 AND RUNWAY 2-20 WILL BE CLOSED WHEN WORK IS PERFORMED IN THIS LOCATION

NOTES:

- EQUIPMENT (WITHOUT OPERATORS), MATERIALS, AND TEMPORARY STOCKPILES MUST NOT PENETRATE THE FAR PART 77 HEIGHT RESTRICTIONS. NO EQUIPMENT SHALL PENETRATE OFZ ELEVATIONS.
- ALL ELEVATIONS ARE PROVIDED IN NAVD88 DATUM ABOVE MEAN SEA LEVEL (MSL).
- ALL HEIGHTS SHOWN ON THIS PLAN ARE AGL (ABOVE GROUND LEVEL) WITH RESPECT TO THE MAXIMUM EQUIPMENT HEIGHT TABLE.
- THE WORK LIMITS SHOWN ON THIS PLAN ARE FOR AIRSPACE REVIEW BY THE FAA.
- ONLY FAR PART 77 SURFACE CONTOURS DISPLAYED FOR CLARITY.



LEGEND:

- PROJECT LIMITS
- EXISTING FENCE
- POINT #
- FAR PART 77 CONTOUR
- CONTRACTOR STAGING/STOCKPILE AREA
- HAUL ROUTE

CONSULTANT:

ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLCOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:

STATE OF MARYLAND
ROBERT W. HAGER
PROFESSIONAL ENGINEER
No. 32705
9/20/23

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"

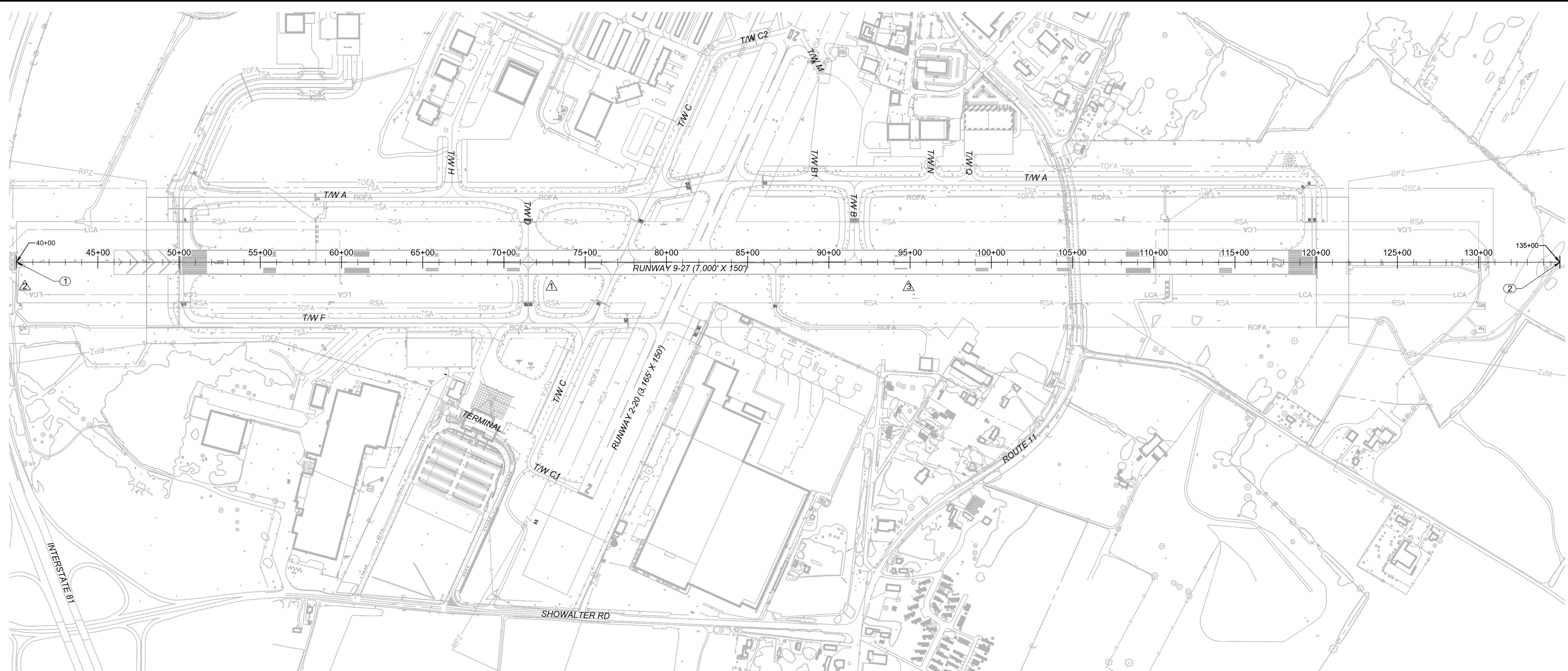
LICENSE NO. 32705
EXPIRATION DATE: 2/21/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
R.D.H.			
DRAWN:			
R.D.H.			
CHECKED:			
M.J.B.			
APPROVED:			
R.N.M.			

BID DOCUMENTS

Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT		FAA AIP No.: 3-24-0019-071-2023 Bid No.: PUR-1635
SHEET TITLE:	MAXIMUM EQUIPMENT HEIGHT PLAN		SHEET NO.: G203
SCALE:	AS SHOWN	DATE:	SEPTEMBER 2023
			6 OF 39



SURVEY CONTROL TABLE

POINT #	LATITUDE	LONGITUDE	NORTHING *	EASTING *	ELEVATION **	DESCRIPTION
①	N039° 42' 27.34"	W077° 43' 48.90"	744141.2190	1106864.9930	687.00	SECONDARY AIRPORT CONTROL STATION (SACS) HGR ARP (NGS PID JV7051)
②	N039° 42' 22.06"	W077° 44' 29.79"	743632.2986	1103664.8033	653.80	PRIMARY AIRPORT CONTROL STATION (PACS) HGR AP STA B (NGS PID JV7053)
③	N039° 42' 30.93"	W077° 43' 21.12"	744487.1713	1109039.2373	697.60	SECONDARY AIRPORT CONTROL STATION (SACS) HGR AP STA A (NGS PID AA9254)

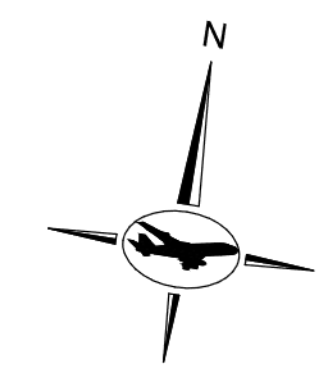
* HORIZONTAL DATUM: NAD83 MARYLAND STATE PLANE
COORDINATE SYSTEM, US FOOT
** VERTICAL DATUM: NAVD88

BASELINE LAYOUT

POINT #	BASELINE	STATION	DESCRIPTION	NORTHING	EASTING
1	RW 9-27	40+00.00	START	743772.25	1103589.33
2	RW 9-27	135+00.00	END	745264.63	1112971.38

LEGEND:

- ① SURVEY CONTROL POINT
- ② BASELINE LAYOUT POINT

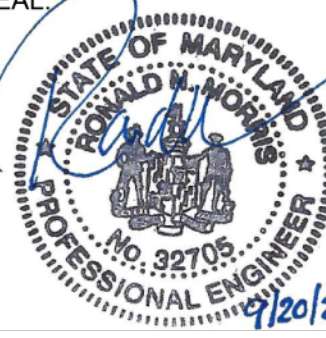


CONSULTANT:



ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLCOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:



STATE OF MARYLAND
PROFESSIONAL ENGINEER
No. 32705
2/21/2024

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M.J.B.			
APPROVED:			
R.N.M.			

BID DOCUMENTS



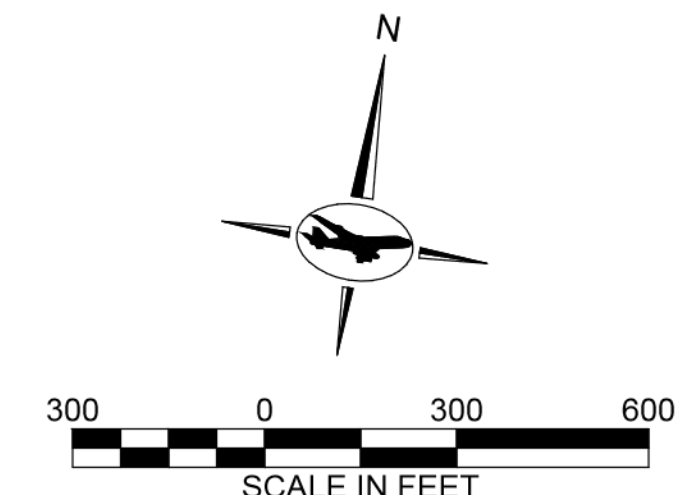
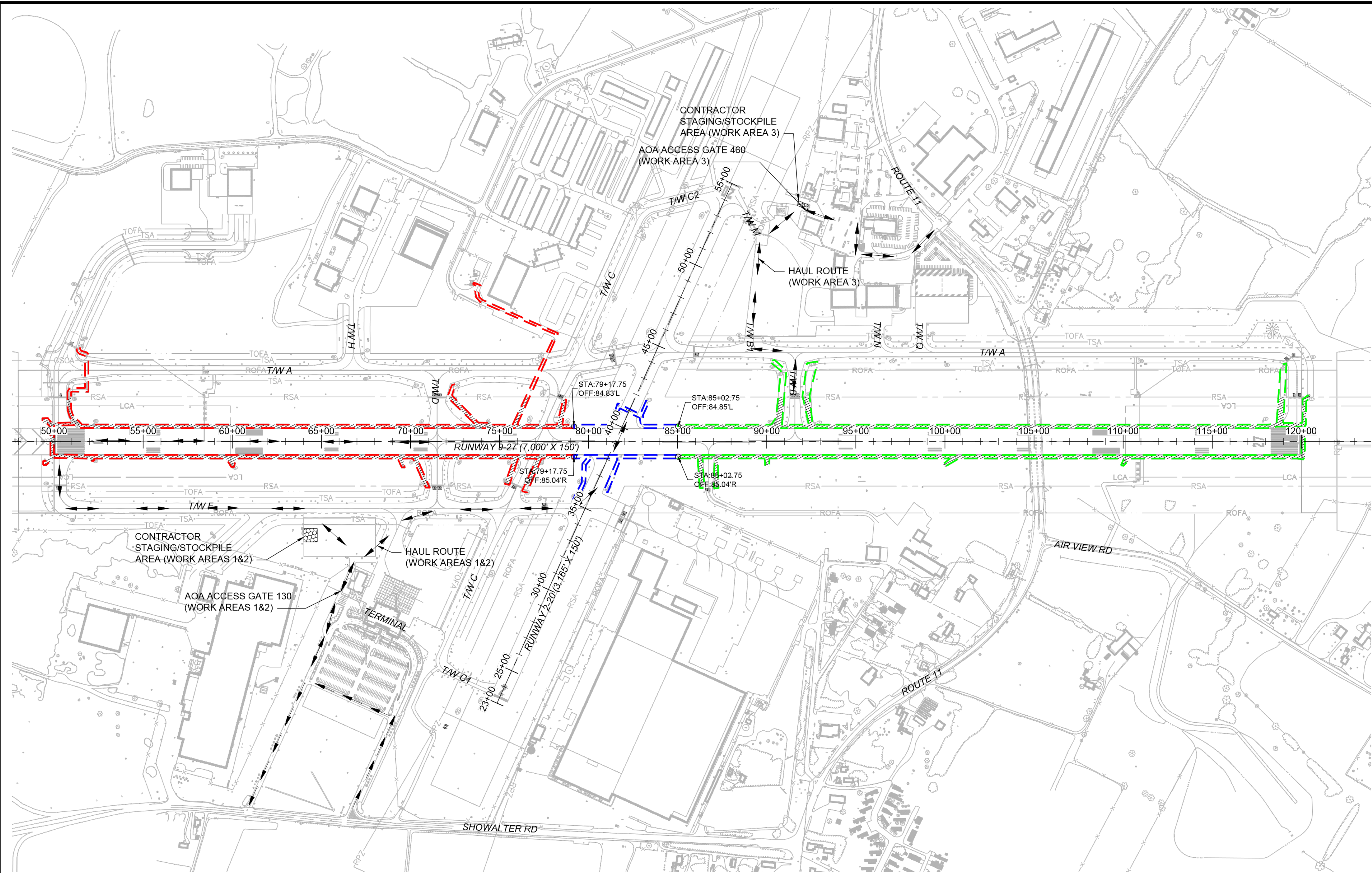
Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	SURVEY CONTROL AND BASELINE LAYOUT PLAN	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.: **G204**

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- NOTES:**
- SEE SHEETS G200 AND G201 FOR GENERAL CONSTRUCTION AND SAFETY NOTES AND SHEET G500 FOR CONSTRUCTION SAFETY PHASING NOTES AND DETAILS.
 - SEE SHEET G203 FOR MAXIMUM EQUIPMENT HEIGHT PLAN.
 - SEE SHEETS E101 TO E108 FOR ELECTRICAL WORK PLANS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GATE GUARDS, FLAGGERS AND ESCORTS.
 - DURING DAYS, WHEN DAYTIME WORK IS PLANNED, AND THE AIRPORT IS IN INSTRUMENT METEOROLOGICAL CONDITIONS (IMC) AND PILOTS MUST FLY UNDER INSTRUMENT FLIGHT RULES (IFR), RATHER THAN BY VISUAL FLIGHT RULES (VFR), RUNWAY 9-27 MUST REMAIN OPEN AND ALL LIGHTING, SIGNAGE AND NAVAIDS OPERATIONAL. THESE DAYS WILL NOT COUNT AGAINST CONTRACT TIME.

LIQUIDATED DAMAGES:
 \$2,500 PER DAY/PART OF DAY BEYOND PROJECT COMPLETION
 \$2,500 PER 15 MINUTES/PART OF 15 MINUTES BEYOND RUNWAY OPENING

CONSTRUCTION WORK HOURS:
 9:00PM - 6:00AM (EST) FOR WORK WITHIN RSA
 WORK HOURS MAY BE ADJUSTED AT OWNER'S DISCRETION TO ACCOMMODATE COMMERCIAL FLIGHT SERVICE
 WORK OUTSIDE RSA MAY BE COMPLETED AS DAY WORK

CONSTRUCTION DURATION:
 CONTRACT DURATION: 60 CONSECUTIVE CALENDAR DAYS FROM CONSTRUCTION NOTICE TO PROCEED
 RUNWAY 9-27 NIGHTLY CLOSURES SHALL BE RESTRICTED TO 10 NIGHTS
 RUNWAY 9-27 / RUNWAY 2-20 INTERSECTION NIGHTLY CLOSURE SHALL BE RESTRICTED TO 1 NIGHT

- EXISTING LEGEND:**
- EXISTING FENCE
 - RPZ RUNWAY PROTECTION ZONE
 - RSA RUNWAY SAFETY AREA
 - ROFA RUNWAY OBJECT FREE AREA
 - TOFA TAXIWAY OBJECT FREE AREA
 - GSCA GLIDESLOPE CRITICAL AREA
 - LCA LOCALIZER CRITICAL AREA

- PROPOSED LEGEND:**
- HAUL ROUTE
 - WORK AREA 1
 - WORK AREA 1A
 - WORK AREA 2
 - WORK AREA 3
 - WORK AREA 3A
 - CONTRACTOR STAGING/STOCKPILE AREA

CONSULTANT:

 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410.465.9600
 FAX: 410.465.9602

SEAL:

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 LICENSE NO. 32705
 EXPIRATION DATE: 2/21/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
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DRAWN:			
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CHECKED:			
M.J.B.			
APPROVED:			
R.N.M.			

HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT

SHEET TITLE: OVERALL CONSTRUCTION SAFETY AND PHASING PLAN

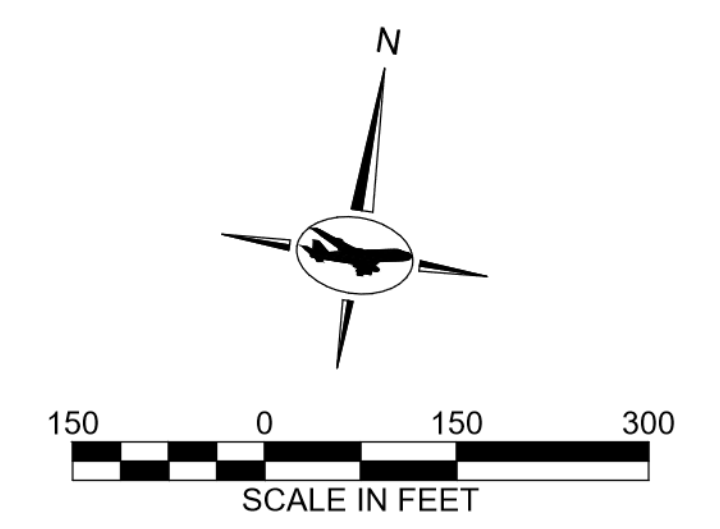
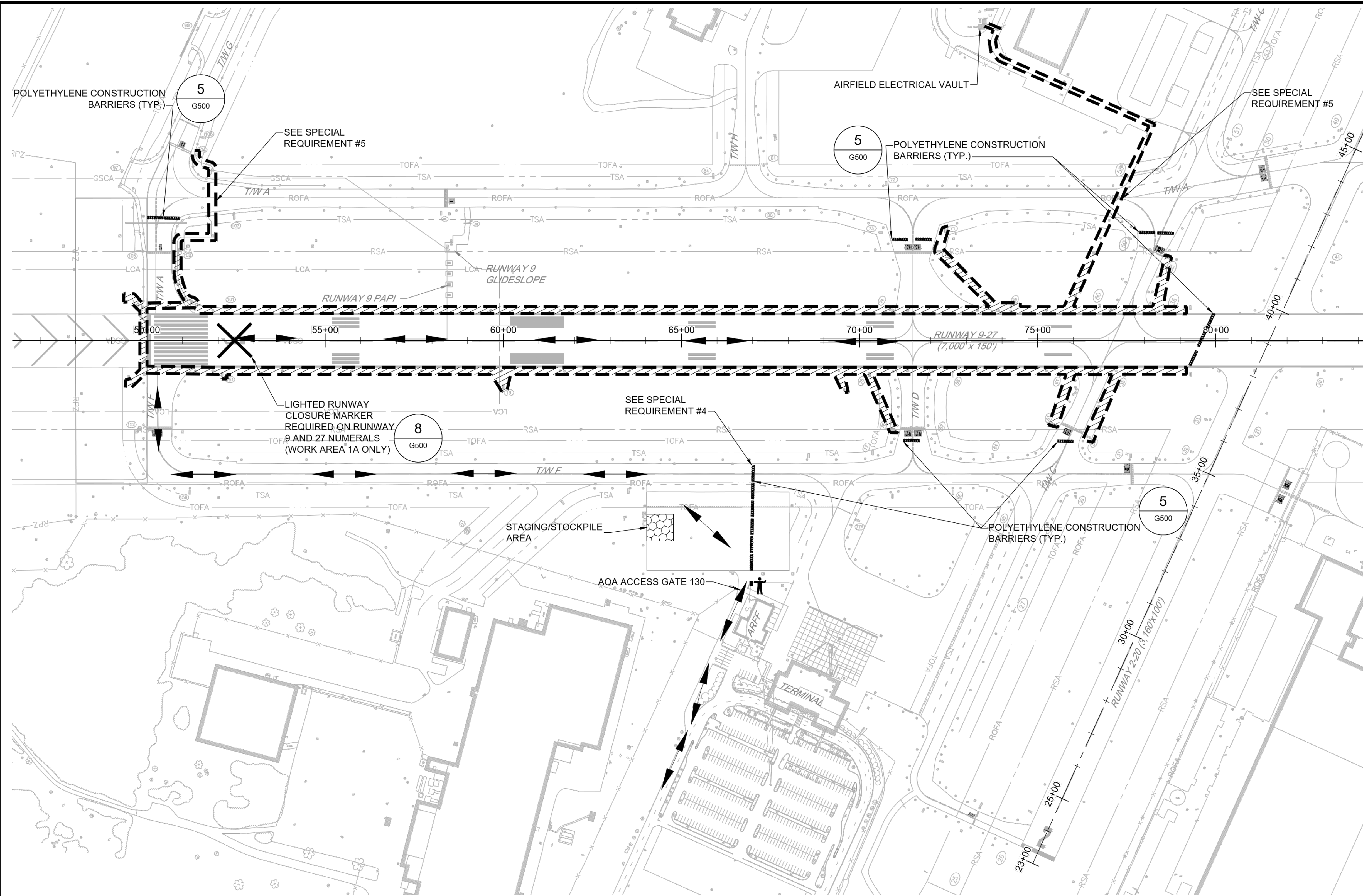
SCALE: AS SHOWN

DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.: G300

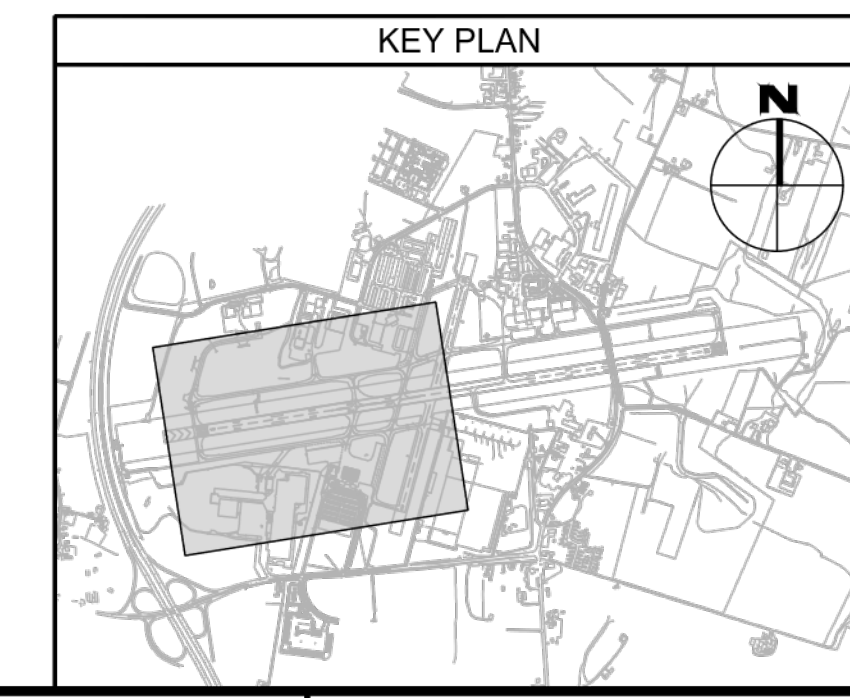
8 OF 39



- NOTES:**
- SEE SHEETS G200 AND G201 FOR GENERAL CONSTRUCTION AND SAFETY NOTES AND G500 FOR CONSTRUCTION SAFETY PHASING NOTES AND DETAILS.
 - SEE SHEET G203 FOR MAXIMUM EQUIPMENT HEIGHT PLAN.
 - SEE SHEETS E101 TO E108 FOR ELECTRICAL WORK PLANS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GATE GUARDS, FLAGGERS AND ESCORTS.
 - WORK AREA 1A INCLUDES ALL WORK IN WORK AREA 1 LOCATED IN RUNWAY 9-27 RSA.
 - DURING DAYS, WHEN DAYTIME WORK IS PLANNED, AND THE AIRPORT IS IN INSTRUMENT METEOROLOGICAL CONDITIONS (IMC) AND PILOTS MUST FLY UNDER INSTRUMENT FLIGHT RULES (IFR), RATHER THAN BY VISUAL FLIGHT RULES (VFR), RUNWAY 9-27 MUST REMAIN OPEN AND ALL LIGHTING, SIGNAGE AND NAVAIDS OPERATIONAL. THESE DAYS WILL NOT COUNT AGAINST CONTRACT TIME.

- EXISTING LEGEND:**
- EXISTING FENCE
 - RPZ RUNWAY PROTECTION ZONE
 - RSA RUNWAY SAFETY AREA
 - ROFA RUNWAY OBJECT FREE AREA
 - TOFA TAXIWAY OBJECT FREE AREA
 - GSCA GLIDESLOPE CRITICAL AREA
 - LCA LOCALIZER CRITICAL AREA

- LEGEND:**
- HAUL ROUTE
 - WORK AREA 1
 - WORK AREA 1A
 - CONTRACTOR STAGING/STOCKPILE AREA
 - POLYETHYLENE CONSTRUCTION BARRIERS
 - FLAGGER



WORK AREA 1 CONSTRUCTION WORK HOURS:

WORK AREA 1A: 9:00PM - 6:00AM EST
NO TIME RESTRICTIONS FOR WORK OUTSIDE RUNWAY 9-27 RSA.

WORK HOURS MAY BE ADJUSTED AT AIRPORT DISCRETION TO ACCOMMODATE COMMERCIAL FLIGHT SERVICE.

- WORK AREA 1 AIRFIELD IMPACTS:**
- RUNWAY 9-27 NIGHTLY CLOSURES (1A ONLY).
 - TAXIWAYS A, D, F, G NIGHTLY CLOSURES (1A ONLY).

- SPECIAL REQUIREMENTS:**
- RUNWAY 2-20 SHALL REMAIN OPEN AT ALL TIMES.
 - TAXIWAY A (OUTSIDE OF RUNWAY 9-27 RSA), TAXIWAY C, AND TAXIWAY F (EAST OF TAXIWAY D) SHALL REMAIN OPEN AT ALL TIMES.
 - FLAGGER SHALL BE PROVIDED TO COORDINATE HAUL ROUTE TRAFFIC NEAR THE TERMINAL/ARFF AREA.

- BARRICADES SHALL BE PLACED AND REMOVED AT THE START AND END OF EACH SHIFT (SEE SHEET G500 FOR SPACING REQUIREMENTS). CONTRACTOR SHALL PLACE BARRICADES A MINIMUM OF 85.5' FROM ACTIVE TAXIWAY CENTERLINE AND 250' FROM ACTIVE RUNWAY CENTERLINES.
- CONTRACTOR SHALL COORDINATE WORK WITHIN TSA WITH RPR AND AIRPORT OPERATIONS PRIOR TO COMMENCING. CONTRACTOR WILL BE REQUIRED TO WORK EITHER WITH ROLLING CLOSURES OR ON A PULL-BACK BASIS FOR TAXIING AIRCRAFT.

CONSULTANT:

ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLICOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:

STATE OF MARYLAND
ROBERT D. HAGER
No. 32705
PROFESSIONAL ENGINEER
9/20/23

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."
LICENSE NO. 32705
EXPIRATION DATE: 2/21/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
R.D.H.			
DRAWN:			
R.D.H.			
CHECKED:			
M.J.B.			
APPROVED:			
R.N.M.			

Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT

SHEET TITLE: CONSTRUCTION SAFETY AND PHASING PLAN - WORK AREA 1

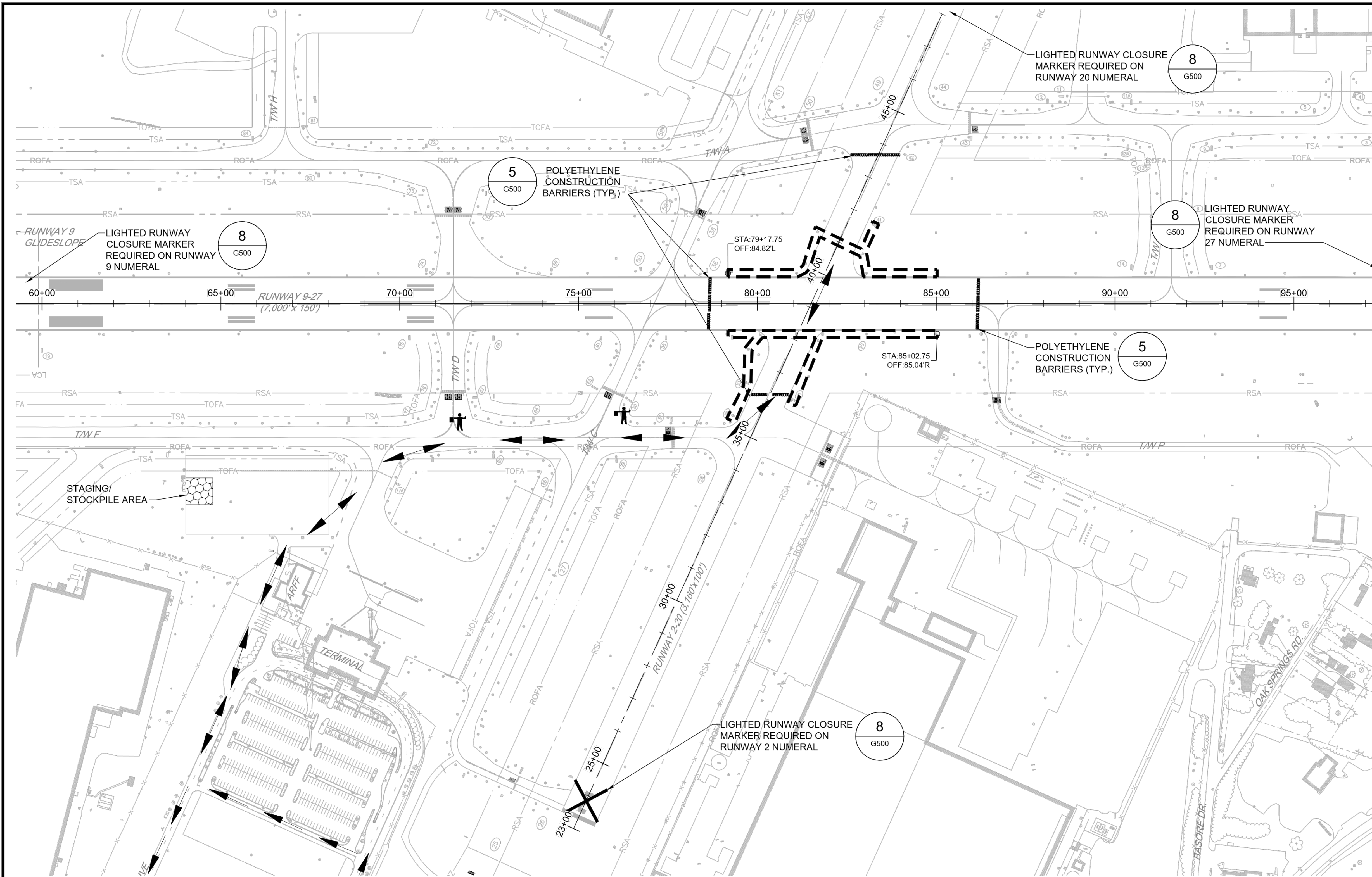
SCALE: AS SHOWN

DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.: **G301**

9 OF 39



NOTES:

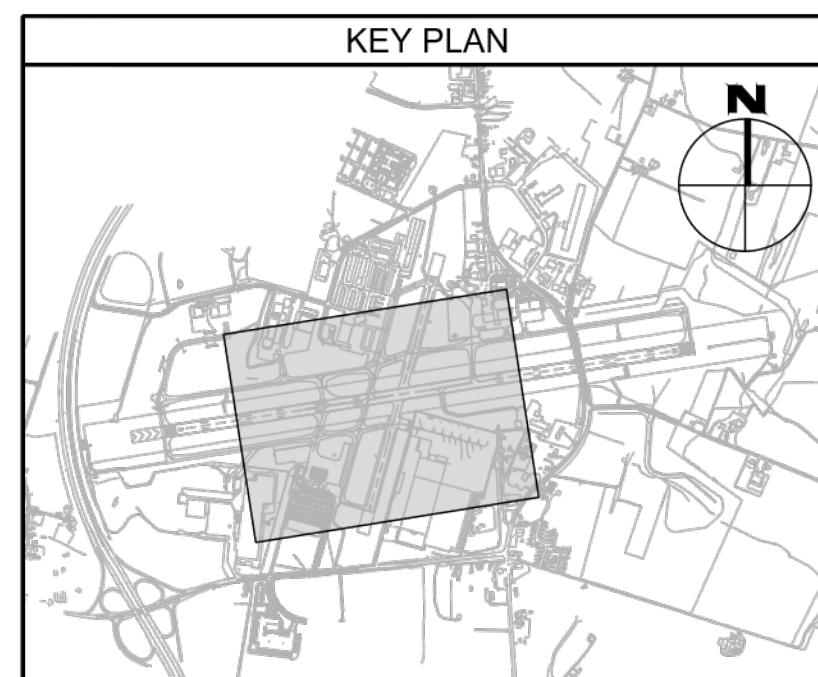
- SEE SHEETS G200 AND G201 FOR GENERAL CONSTRUCTION AND SAFETY NOTES AND G500 FOR CONSTRUCTION SAFETY PHASING NOTES AND DETAILS.
- SEE SHEET G203 FOR MAXIMUM EQUIPMENT HEIGHT PLAN.
- SEE SHEETS E101 TO E108 FOR ELECTRICAL WORK PLAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GATE GUARDS, FLAGGERS AND ESCORTS.

EXISTING LEGEND:

- EXISTING FENCE
- RPZ RUNWAY PROTECTION ZONE
- RSA RUNWAY SAFETY AREA
- ROFA RUNWAY OBJECT FREE AREA
- TOFA TAXIWAY OBJECT FREE AREA
- GSCA GLIDESLOPE CRITICAL AREA
- LCA LOCALIZER CRITICAL AREA

PROPOSED LEGEND:

- HAUL ROUTE
- WORK AREA 2
- CONTRACTOR STAGING/STOCKPILE AREA
- POLYETHYLENE CONSTRUCTION BARRIERS
- FLAGGER



WORK AREA 2 CONSTRUCTION DURATION:
1 NIGHT

WORK AREA 2 CONSTRUCTION WORK HOURS:
9:00PM - 6:00AM EST

WORK HOURS MAY BE ADJUSTED AT AIRPORT DISCRETION TO ACCOMMODATE COMMERCIAL FLIGHT SERVICE

WORK AREA 2 AIRFIELD IMPACTS:

- RUNWAY 9-27 AND RUNWAY 2-20 CLOSURE

SPECIAL REQUIREMENTS:

- FLAGGERS SHALL BE PROVIDED TO COORDINATE HAUL ROUTE TRAFFIC ACROSS TAXIWAYS C, D, AND F.
- BARRICADES SHALL BE PLACED AND REMOVED AT THE START AND END OF EACH SHIFT (SEE SHEET G500 FOR SPACING REQUIREMENTS). CONTRACTOR SHALL PLACE BARRICADES A MINIMUM OF 85.5' FROM ACTIVE TAXIWAY CENTERLINE AND 250' FROM ACTIVE RUNWAY CENTERLINES.
- EXACT CLOSURE DATE(S) SHALL BE COORDINATED WITH THE RPR/OWNER TO ENSURE MINIMAL IMPACTS TO SCHEDULED AIRLINE SERVICE TO THE AIRPORT.

CONSULTANT:

AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD., SUITE 330
ELLICOTT CITY, MD 21043
TEL: 410 465 9600
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SEAL:

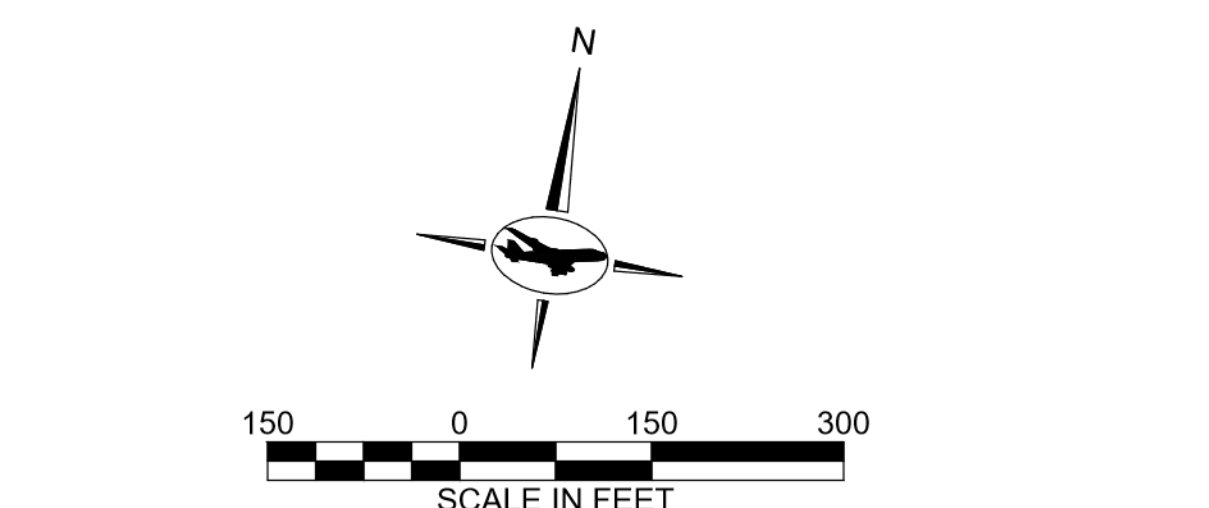
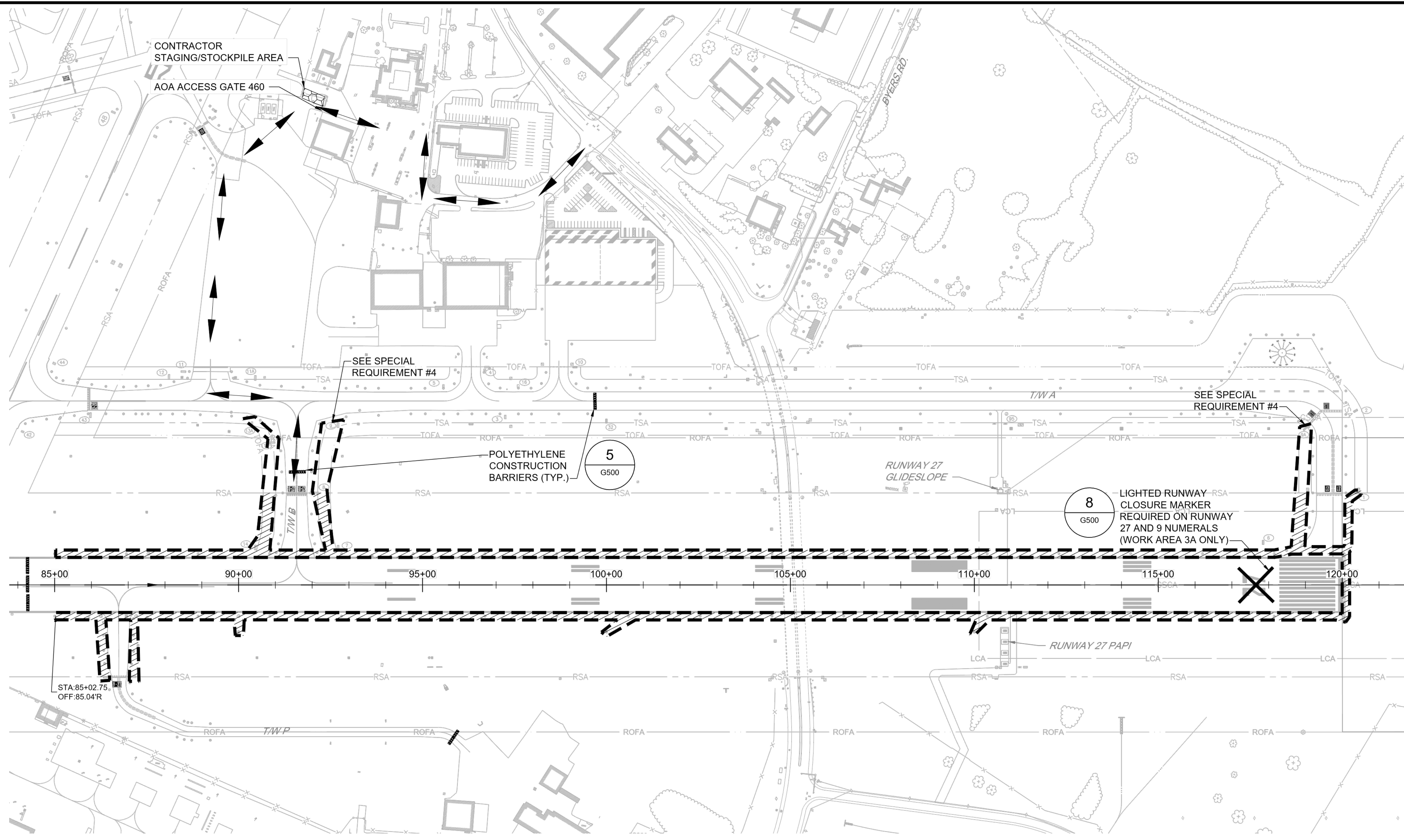
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LICENSE NO. 32705
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DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
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M.J.B.			
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Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE: CONSTRUCTION SAFETY AND PHASING PLAN - WORK AREA 2
SCALE: AS SHOWN
DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635
SHEET NO.: G302
10 OF 39



- NOTES:**
1. SEE SHEET G200 AND G201 FOR GENERAL CONSTRUCTION AND SAFETY NOTES AND SHEET G500 FOR CONSTRUCTION SAFETY PHASING NOTES AND DETAILS.
 2. SEE SHEET G203 FOR MAXIMUM EQUIPMENT HEIGHT PLAN.
 3. SEE SHEETS E101 TO E108 FOR ELECTRICAL WORK PLANS.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GATE GUARDS, FLAGGERS AND ESCORTS.
 5. WORK AREA 3A INCLUDES ALL WORK IN WORK AREA 3 LOCATED IN RUNWAY 9-27 RSA.
 6. DURING DAYS, WHEN DAYTIME WORK IS PLANNED, AND THE AIRPORT IS IN INSTRUMENT METEOROLOGICAL CONDITIONS (IMC) AND PILOTS MUST FLY UNDER INSTRUMENT FLIGHT RULES (IFR), RATHER THAN BY VISUAL FLIGHT RULES (VFR), RUNWAY 9-27 MUST REMAIN OPEN AND ALL LIGHTING, SIGNAGE AND NAV AIDS OPERATIONAL. THESE DAYS WILL NOT COUNT AGAINST CONTRACT TIME.

- EXISTING LEGEND:**
- x---x---x---x---x--- EXISTING FENCE
 - RPZ --- RUNWAY PROTECTION ZONE
 - RSA --- RUNWAY SAFETY AREA
 - ROFA --- RUNWAY OBJECT FREE AREA
 - TOFA --- TAXIWAY OBJECT FREE AREA
 - GSCA --- GLIDESLOPE CRITICAL AREA
 - LCA --- LOCALIZER CRITICAL AREA
- PROPOSED LEGEND:**
- >--->--- HAUL ROUTE
 - - - - - WORK AREA 3
 - /// /// /// WORK AREA 3A
 - □ □ CONTRACTOR STAGING/STOCKPILE AREA
 - --- --- POLYETHYLENE CONSTRUCTION BARRIERS

WORK AREA 3 CONSTRUCTION WORK HOURS:

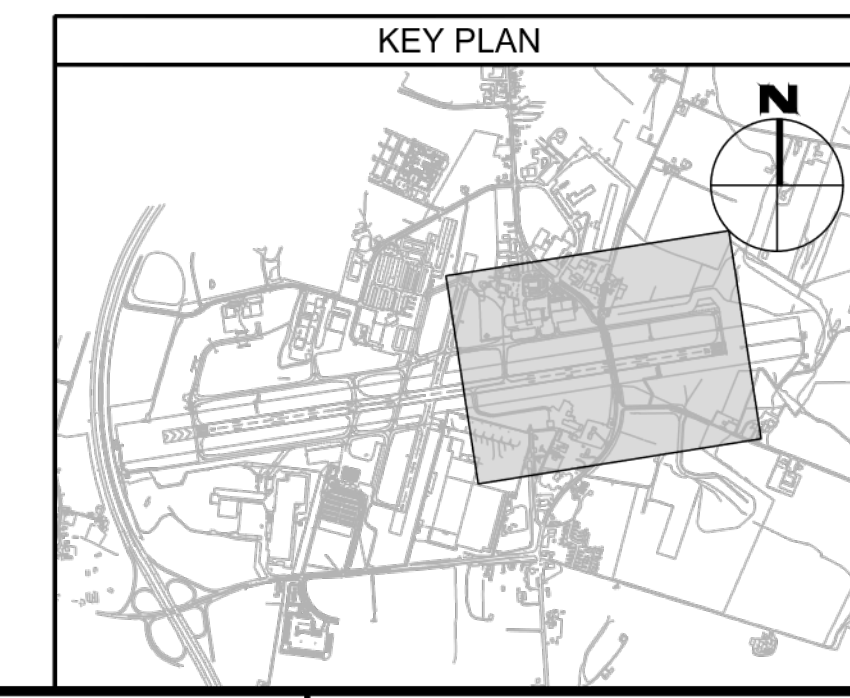
WORK AREA 3A: 9:00PM - 6:00AM EST
NO TIME RESTRICTIONS FOR WORK OUTSIDE RUNWAY 9-27 RSA

WORK HOURS MAY BE ADJUSTED AT AIRPORT DISCRETION TO ACCOMMODATE COMMERCIAL FLIGHT SERVICE

WORK AREA 3 AIRFIELD IMPACTS:

1. RUNWAY 9-27 NIGHTLY CLOSURES (3A ONLY)
2. TAXIWAYS A, B, P NIGHTLY CLOSURES (3A ONLY)

- SPECIAL REQUIREMENTS:**
1. RUNWAY 2-20 SHALL REMAIN OPEN AT ALL TIMES.
 2. TAXIWAY A (OUTSIDE OF RUNWAY 9-27 RSA) SHALL REMAIN OPEN AT ALL TIMES.
 3. BARRICADES SHALL BE PLACED AND REMOVED AT THE START AND END OF EACH SHIFT (SEE SHEET G500 FOR SPACING REQUIREMENTS). CONTRACTOR SHALL PLACE BARRICADES A MINIMUM OF 85.5' FROM ACTIVE TAXIWAY CENTERLINE AND 250' FROM ACTIVE RUNWAY CENTERLINES.
 4. CONTRACTOR SHALL COORDINATE WORK WITHIN TSA WITH RPR AND AIRPORT OPERATIONS PRIOR TO COMMENCING. CONTRACTOR WILL BE REQUIRED TO WORK EITHER WITH ROLLING CLOSURES OR ON A PULL-BACK BASIS FOR TAXIING AIRCRAFT.



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Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT

SHEET TITLE: CONSTRUCTION SAFETY AND PHASING PLAN - WORK AREA 3

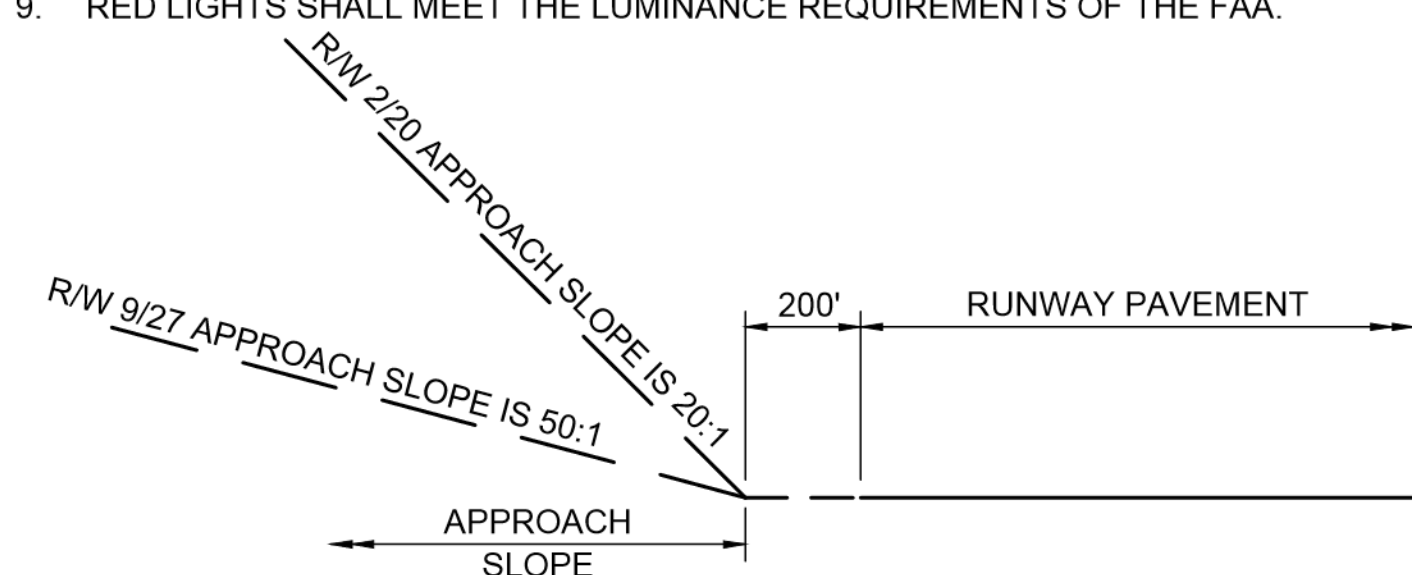
SCALE: AS SHOWN **DATE:** SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.: G303
 11 OF 39

GENERAL PHASING NOTES:

1. THE INTENT OF THE PHASING PLAN IS TO MINIMIZE THE IMPACT OF CONSTRUCTION ON THE OPERATION OF THE AIRPORT. THE CONTRACTOR SHALL CONSTRUCT THE PROJECT AS OUTLINED IN THE PLANS UNLESS OTHERWISE APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE (RPR). ADJUSTMENTS TO THE PHASING PLAN MAY BE NECESSARY TO ACCOMMODATE UNFORESEEN PROBLEMS WITH AIRPORT OPERATION.
2. THE CONTRACTOR SHALL PROVIDE, MAINTAIN, MOVE, REMOVE (AS DIRECTED) CONSTRUCTION BARRIERS TO DELINEATE AREAS CLOSED TO AIRCRAFT TRAFFIC AND TO MARK ALL OPEN EXCAVATIONS, PAVEMENT DROP-OFFS ETC. CLOSURE MARKERS AND BARRIERS WILL ONLY BE PAID FOR ONCE EACH AND SHALL BE RELOCATED AS REQUIRED. COSTS ASSOCIATED WITH RELOCATING BARRICADES SHALL BE INCIDENTAL TO ITEM M-100.
3. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE FOR REVIEW AND APPROVAL OF THE RPR PRIOR TO STARTING CONSTRUCTION. STRICT ADHERENCE TO THE APPROVED SCHEDULE WILL BE ENFORCED TO AVOID CONFLICTS WITH OTHER CONSTRUCTION ACTIVITIES AND ADVERSE EFFECTS ON AIRPORT OPERATIONS.
4. ELECTRICAL WORK SHALL BE SEQUENCED TO MAINTAIN ALL ELECTRICAL SYSTEMS WITHOUT ANY INTERRUPTIONS. TEMPORARY WIRING IF REQUIRED SHALL BE INCIDENTAL TO THE CORRESPONDING ELECTRICAL WORK. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE RPR AND THE AIRPORT MAINTENANCE DEPARTMENT.
5. ACTIVE PAVEMENTS MUST BE KEPT CLEAR AND FREE OF DEBRIS AT ALL TIMES. THE CONTRACTOR MUST HAVE A VACUUM SWEEPER AND OPERATOR READY AT ALL TIMES DURING WORK ADJACENT TO ACTIVE AIRFIELD PAVEMENTS.
6. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE FAA ADVISORY CIRCULARS AND FEDERAL AVIATION REGULATIONS. PAY PARTICULAR ATTENTION TO FAA AC 150/5370-2G.
7. MAXIMUM EQUIPMENT HEIGHTS FOR ACTIVE WORK AREAS AND STAGING AREA ARE LIMITED BY FAR PART 77 AND OBSTACLE FREE ZONE (OFZ) SURFACES IDENTIFIED ON THIS SHEET.
8. DUST ON CONSTRUCTION PROJECTS IS A MAJOR PROBLEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON-SITE AT ALL TIMES ON A CONTINUOUS BASIS. THE CONTRACTOR MUST SUBMIT A DETAILED DUST CONTROL PLAN TO THE RPR FOR APPROVAL PRIOR TO BEGINNING WORK. THE COST FOR THIS WORK SHALL BE INCLUDED UNDER VARIOUS CONTRACT ITEMS.
9. RED LIGHTS SHALL MEET THE LUMINANCE REQUIREMENTS OF THE FAA.

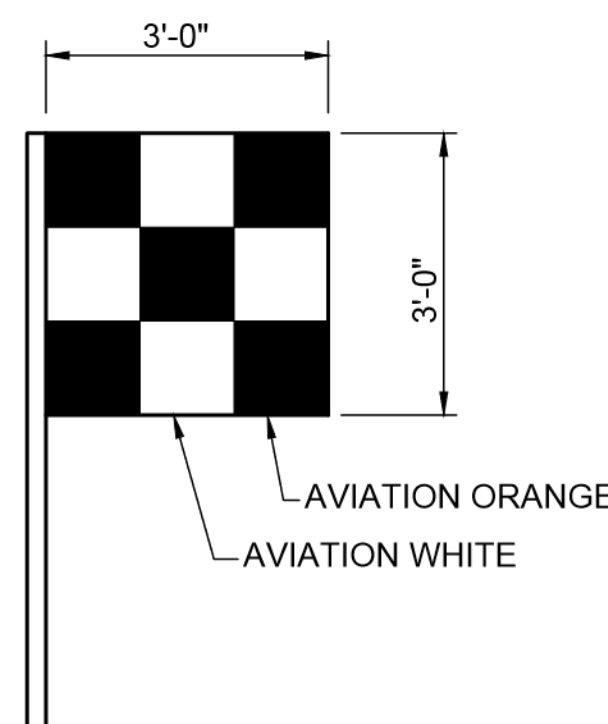


FAR PART 77 NOTES:

1. THE OFZ SHALL GOVERN EQUIPMENT CLEARANCE DURING CONSTRUCTION ADJACENT TO AN ACTIVE RUNWAY. UNDER NO CIRCUMSTANCES SHALL ANY MEN OR EQUIPMENT PENETRATE THESE SURFACES UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE WITH THE RPR, HGR, AND THE FAA ATCT.
2. THE FAR PART 77 SURFACES (PRIMARY AND TRANSITIONAL) GOVERN STOCKPILE AND PARKED EQUIPMENT. UNDER NO CIRCUMSTANCES SHALL PARKED EQUIPMENT, STOCKPILES, OR OTHER ITEMS PENETRATE THESE SURFACES DURING CONSTRUCTION ADJACENT TO AN ACTIVE RUNWAY.
3. THE FAR PART 77 APPROACH SURFACE GOVERNS STOCKPILES, CONSTRUCTION EQUIPMENT AND OTHER OBJECTS BEYOND THE RUNWAY END. UNDER NO CIRCUMSTANCES SHALL THESE ITEMS PENETRATE THE APPROACH SLOPES.

TYPICAL PROFILE FAR PART 77 IMAGINARY SURFACES

3
G500 SCALE: NTS



6 VEHICLE-EQUIPMENT FLAG

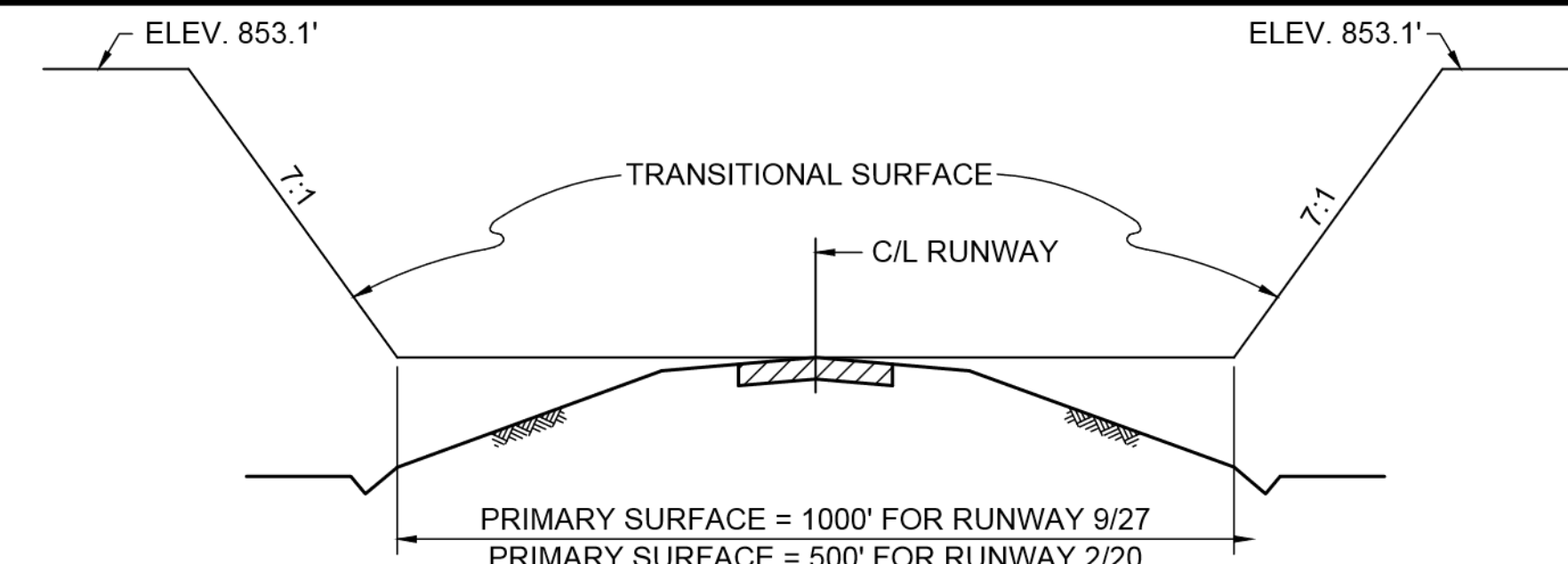
G500 SCALE: NTS

SUPERVISION:

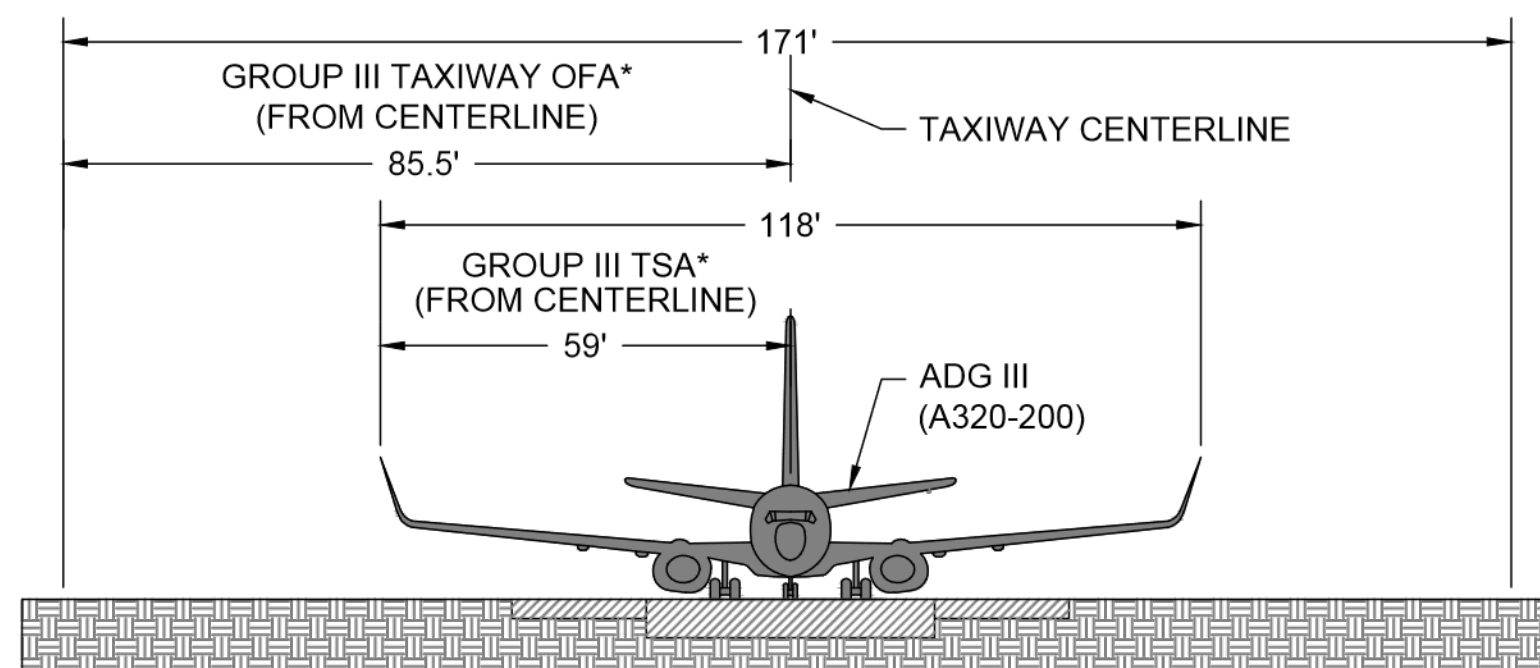
THE PRIME CONTRACTOR SHALL HAVE THE PROJECT SUPERINTENDENT OR SOMEONE IN RESPONSIBLE CHARGE BE PRESENT AT ALL TIMES ON THE PROJECT SITE. THIS PERSON SHALL BE FAMILIAR WITH ALL TYPES OF CONSTRUCTION BEING PERFORMED AND SHALL BE THE SAME PERSON EACH DAY THROUGHOUT THE PROJECT. THE SUPERINTENDENT SHALL HAVE THE RESPONSIBILITY OF COORDINATING EACH DAY'S WORK WITH THE RPR AND AIRPORT PERSONNEL AND SHALL HAVE AUTHORITY TO SCHEDULE AND ADJUST ALL WORKERS, PRIME AND SUB CONTRACTORS, TO ACCOMMODATE AIRPORT OPERATION AS DIRECTED BY THE RPR AND/OR AIRPORT PERSONNEL. ALL WORK MUST BE PERFORMED WITH THE RPR AND/OR AIRPORT PERSONNEL ON THE SITE. WORK DURING EVENINGS AND WEEKENDS MUST BE COORDINATED WITH THE RPR AND AIRPORT PERSONNEL AT LEAST 7 DAYS IN ADVANCE, EXCLUDING EMERGENCIES AND INCLEMENT WEATHER CONDITIONS. ALL PERSONNEL SHALL CLEAR THE CONSTRUCTION AREA ONCE WORK HAS STOPPED FOR THE DAY. ALL MECHANICS NEEDING ACCESS TO THE AIR OPERATIONS AREA DURING EVENINGS AND WEEKENDS TO WORK ON CONSTRUCTION EQUIPMENT SHALL HAVE A PICTURED IDENTIFICATION BADGE, RECEIVE DRIVING PRIVILEGES, AND HAVE THEIR VEHICLES IDENTIFIED WITH THE CONTRACTOR NAME OR MAGNETIC PLACARD ISSUED BY THE AIRPORT OPERATIONS.



1 TYPICAL SECTION OBSTACLE FREE ZONE
G500 SCALE: NTS



2 TYPICAL SECTION FAR PART 77 IMAGINARY SURFACES
G500 SCALE: NTS



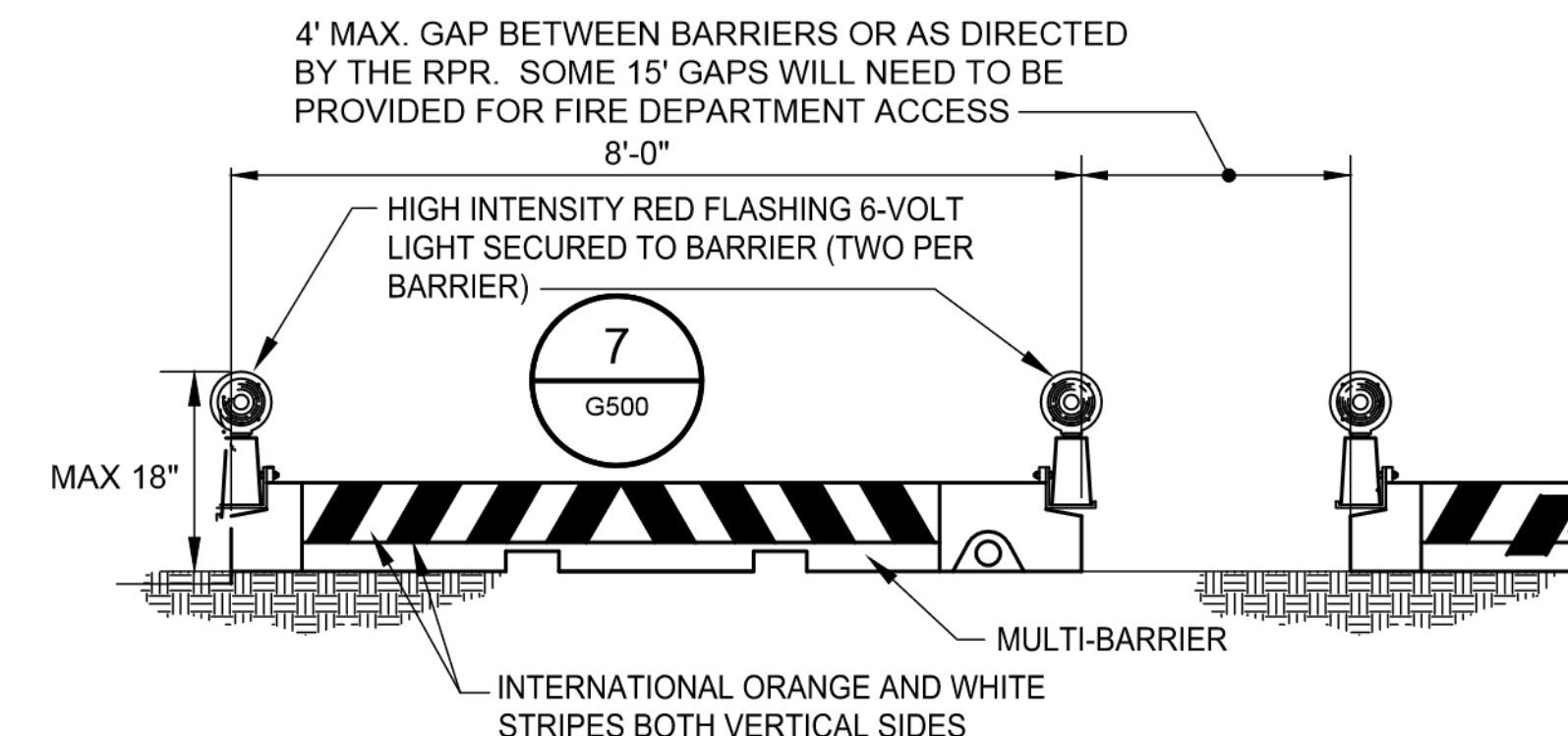
*EXCEPT AS PROVIDED BELOW, NO CONSTRUCTION MAY OCCUR WITHIN THE TAXIWAY OBJECT FREE AREA WHILE THE TAXIWAY IS OPEN FOR AIRCRAFT OPERATIONS. RESTORATION OF TOFA NOT REQUIRED TO OPEN TAXIWAY TO TRAFFIC. RESTORATION OF TSA REQUIRED TO OPEN TAXIWAY TO TRAFFIC.

CONSTRUCTION ACTIVITY, INCLUDING OPEN EXCAVATIONS, MAY BE ACCOMPLISHED SUBJECT TO THE FOLLOWING RESTRICTIONS:

- TAXIING SPEED IS LIMITED TO 10 MPH.
- NOTAMS ISSUED ADVISING TAXIING PILOTS OF HAZARD AND RECOMMENDING REDUCED TAXIING SPEEDS ON THE TAXIWAY.
- MARKING AND LIGHTING MEETING THE PROVISIONS OF FAA AC 150/5370-2G, PARAGRAPHS 2.18 AND 2.20 ARE IMPLEMENTED.
- FIVE-FOOT CLEARANCE IS MAINTAINED BETWEEN EQUIPMENT AND MATERIALS AND ANY PART OF AN AIRCRAFT (INCLUDES WINGTIP OVERHANG). IF SUCH CLEARANCE CAN ONLY BE MAINTAINED IF AN AIRCRAFT DOES NOT HAVE FULL USE OF THE ENTIRE TAXIWAY WIDTH (WITH ITS MAIN LANDING GEAR AT THE EDGE OF THE USABLE PAVEMENT), THEN IT WILL BE NECESSARY TO MOVE PERSONNEL AND EQUIPMENT FOR THE PASSAGE OF THAT AIRCRAFT.
- FLAGGERS FURNISHED BY THE CONTRACTOR MUST BE USED TO DIRECT AND CONTROL CONSTRUCTION EQUIPMENT AND PERSONNEL TO A PRE-ESTABLISHED SETBACK DISTANCE FOR SAFE PASSAGE OF AIRCRAFT, AND AIRLINE AND/OR AIRPORT PERSONNEL.

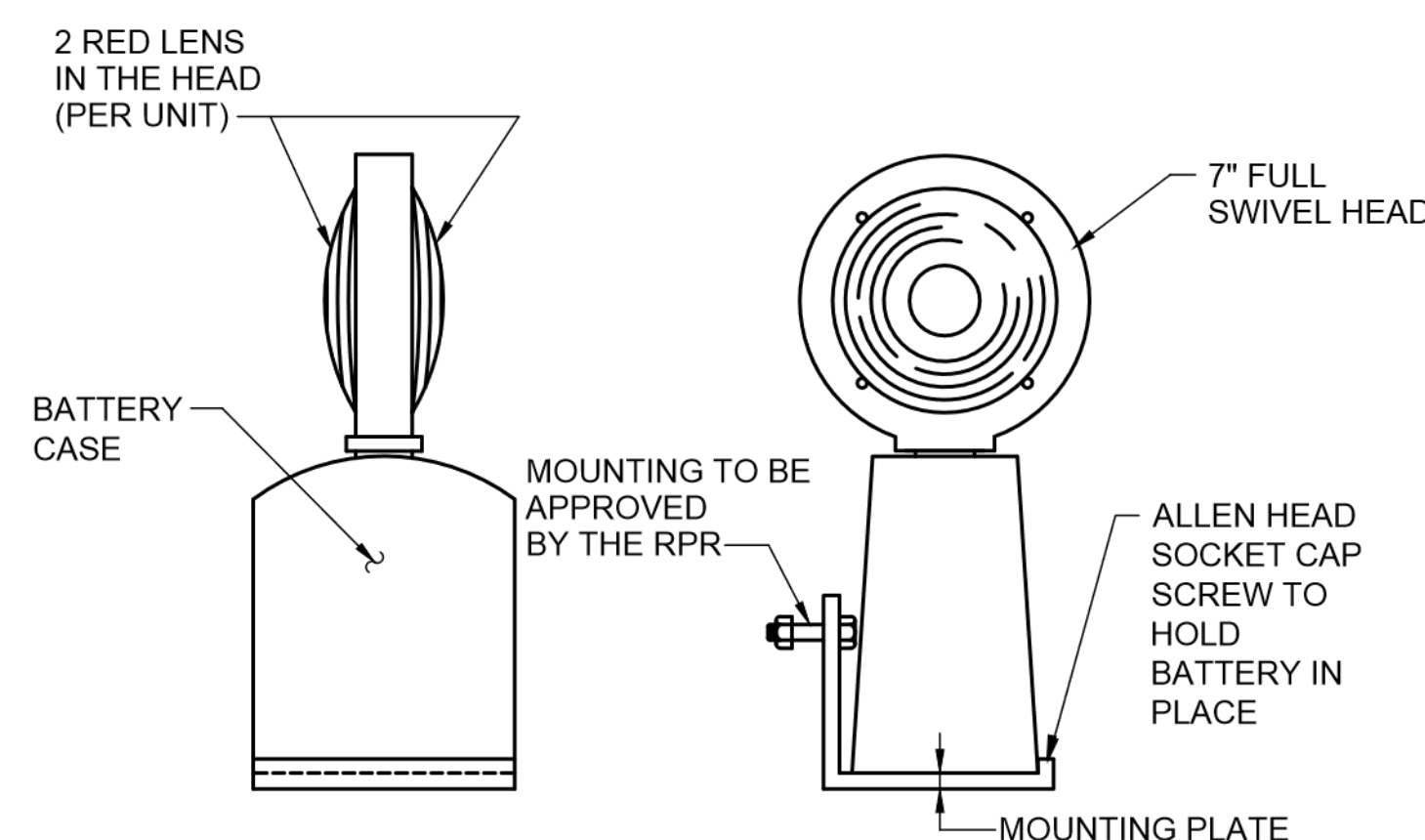
GROUP III TAXIWAY SAFETY AREA (TSA) - TAXIWAY OBJECT FREE AREA (TOFA) - TANGENT SECTION

4
G500 SCALE: NTS

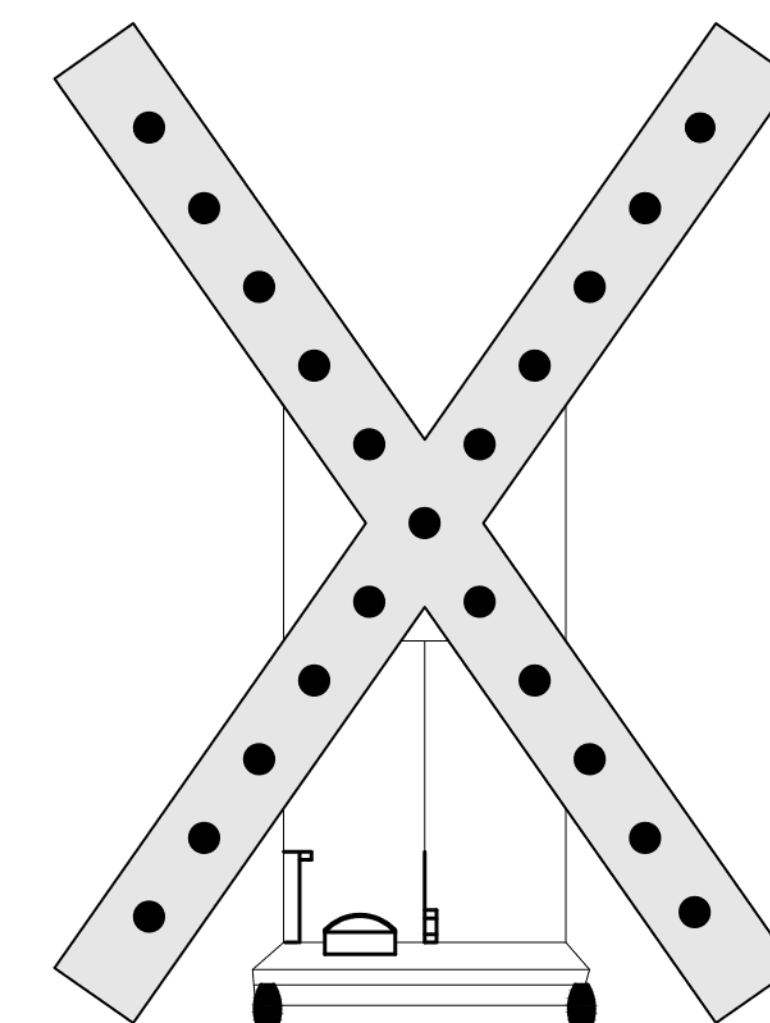


5 POLYETHYLENE CONSTRUCTION BARRIERS
G500 SCALE: NTS

* TIMBER BARRICADES MAY ALSO BE ACCEPTABLE



7 TEMPORARY BARRIER LIGHT DETAIL
G500 SCALE: NTS



- NOTES:
1. RUNWAY CLOSURE MARKERS TWO (2) WILL BE PROVIDED BY THE AIRPORT AND RETURNED BY THE CONTRACTOR UPON COMPLETION OF CONTRACT.
 2. WORK AREA 2 REQUIRES AN ADDITIONAL TWO (2) RUNWAY CLOSURE MARKERS TO BE FURNISHED BY THE CONTRACTOR. CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AND PLACEMENT THROUGHOUT CONTRACT DURATION.

8 LIGHTED RUNWAY CLOSURE MARKER
G500 SCALE: NTS

CONSULTANT:
ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLICOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:
STATE OF MARYLAND
PROFESSIONAL ENGINEER
No. 32705
9/20/23

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."
LICENSE NO. 32705
EXPIRATION DATE: 2/21/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
R.D.H.			
DRAWN:			
R.D.H.			
CHECKED:			
M.J.B.			
APPROVED:			
R.N.M.			

BID DOCUMENTS

Washington County, MD
HAGERSTOWN REGIONAL AIRPORT
HGR

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	FAA AIP No.: 3-24-0019-071-2023 Bid No.: PUR-1635
SHEET TITLE: CONSTRUCTION SAFETY PHASING NOTES AND DETAILS	SHEET NO.: G500
SCALE: N.T.S	DATE: SEPTEMBER 2023

GENERAL NOTES:

1. CONSTRUCTION AND MAINTENANCE BY OTHERS MAY OCCUR CONCURRENTLY AND IN THE VICINITY OF CONSTRUCTION ASSOCIATED WITH THIS PROJECT. COORDINATE OPERATIONS WITH OTHER CONTRACTORS AND COOPERATE WITH THE MAINTENANCE CREWS WHEN WORKING ON THE PROJECT.
2. TWO WEEKS PRIOR TO REMOVAL OF EXISTING CABLES OR EXCAVATING IN AREA OF EXISTING UNDERGROUND CONDUITS, MEET WITH AIRPORT OPERATIONS AND THE ENGINEER TO DETERMINE TAXIWAY OR RUNWAY CLOSURE TIMES AND DURATIONS. ARRANGE FOR APPROPRIATE PERSONNEL TO BE ON SITE DURING WORK ON ELECTRICAL CABLES. IDENTIFY AND MARK ALL AIRFIELD LIGHTING CABLES PRIOR TO ANY WORK.
3. THOROUGHLY INSPECT THE SITE PRIOR TO CONSTRUCTION TO VERIFY EXISTING CONDITIONS AND PROVIDE NECESSARY STAKES OUT OF LINE AND GRADE FOR CONDUIT FOR THE ENGINEER'S APPROVAL PRIOR TO EXCAVATION.
4. IN THE EVENT ANY OBSTRUCTIONS AND/OR UTILITIES NOT SHOWN ON THE PLANS ARE ENCOUNTERED DURING CONSTRUCTION, STOP WORK AND NOTIFY ENGINEER PRIOR TO PROCEEDING WITH WORK. BE PREPARED TO SUBMIT TO THE ENGINEER, IN WRITING, CONSTRUCTION ALTERNATIVES TO SUPPORT A REMEDY TO OBSTRUCTIONS OR CONFLICTS.
5. LOCATE ALL UNDERGROUND UTILITIES WITHIN THE WORK AREA LIMITS, PRIOR TO ANY EXCAVATION THAT MAY BE REQUIRED.
6. CONTRACTOR TO FIELD VERIFY MANHOLE/HANDHOLE GROUNDING.
7. LOCATE, SUPPORT, AND PROTECT EXISTING UTILITIES WITH NECESSARY COORDINATION. DAMAGE TO EXISTING FACILITIES PIPING, CONDUIT, DUCT, ELECTRICAL EQUIPMENT AND RELATED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE.
8. DRAWINGS AND LOCATION OF EQUIPMENT MAY NOT BE TO SCALE. THE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH ALL OTHER TRADES AND FIELD VERIFICATION OF EXISTING CONDITIONS. VERIFICATION WILL INCLUDE, BUT NOT BE LIMITED TO, OPENING ENCLOSURES TO VERIFY CONTENTS, TEST PITS, COORDINATION WITH ON SITE ELECTRICAL MAINTENANCE PERSONNEL AND ALL OTHER MEANS AND METHODS NECESSARY.
9. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL REQUIRED OFFSETS AND DETAILS.
10. BRING TO THE ATTENTION OF THE ENGINEER AND THE AIRPORT ALL CONFLICTS PRIOR TO PERFORMING INSTALLATION OPTIONS.
11. CONSTRUCTION LIMITS - VEHICLES AND TRAFFIC (UNLESS OTHERWISE AUTHORIZED) REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES. CONSTRUCTION, STORAGE AND STOCKPILING LIMITS ARE FURTHER DEFINED IN THESE CONTRACT DOCUMENTS.
12. PERFORM LOCKOUT/TAGOUT PROCEDURES IN ACCORDANCE WITH OSHA STANDARD 29 CFR 1910.147 PRIOR TO PERFORMING WORK ON ELECTRICAL CIRCUITS.
13. ELECTRICAL WORK SHOWN IN THESE DRAWINGS MUST CONFORM TO THE NEC (LATEST EDITION) AND ANY FEDERAL AND LOCAL STANDARD PRACTICES. IN THE CASE OF OVER LAP, THE MOST STRINGENT WILL APPLY.
14. PROTECTION OF AND REPAIR TO EXISTING CABLES - VERIFY THE LOCATION OF EXISTING AIRPORT UNDERGROUND CABLES THAT ARE SHOWN ON THE PLANS. IF AIRPORT CABLES ARE DAMAGED BY THE CONTRACTOR, OR ANY OF THEIR SUBCONTRACTORS, REPAIRS MUST BE DONE IN ACCORDANCE WITH AIRPORT AND FAA REQUIREMENTS. PERFORM REPAIRS IN THE PRESENCE OF AN AIRPORT REPRESENTATIVE. THE AIRPORT MAY ELECT TO HAVE THE REPAIR PERFORMED BY OTHERS IN WHICH CASE THE CONTRACTOR IS RESPONSIBLE FOR PAYING THE INCURRED COSTS OF REPAIRS.
15. VERIFY AND ADJUST FIXTURES, EQUIPMENT AND STRUCTURE LOCATIONS AND ELEVATIONS QUOTED IN THESE DOCUMENTS TO AVOID UNFORESEEN OBSTRUCTION AND TO COMPLY WITH ALL REQUIREMENTS OF THE FAA.
16. REMOVE ALL CONDUCTORS, FOR THE CIRCUIT DESIGNATED FOR REMOVAL, FROM SINGLE DUCT OR MULTI DUCT SYSTEM WHERE CABLE IS INDICATED TO BE REMOVED FROM DUCTS. THE LINEAR FOOT QUANTITY OF CABLE TO BE REMOVED IS THE QUANTITY OF ALL CABLE REMOVED FROM EITHER A SINGLE OR MULTIPLE DUCT SYSTEM.
17. CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PROTECT EXISTING AIRFIELD EQUIPMENT TO REMAIN THAT MAY BE IN THE AREA OF CONSTRUCTION.

18. ALL EXISTING CIRCUITS TO BE MEGGERED AND RESULTS TURNED OVER TO CMI/OWNER, PRIOR TO WORKING ON THE CIRCUITRY.
19. WHEN LOCATING SUB UTILITIES PROVIDE LOCATION/DEPTH/SIZE/TYPE OF UTILITY FOUND.
20. ALL ELECTRICAL WORK WITHIN THE TSA AND RSA WILL ONLY OCCUR WITHIN THE CLOSURES OF THE ASSOCIATED TAXIWAY AND RUNWAY.
21. ALL EQUIPMENT OR MATERIALS INDICATED TO BE RETURNED TO OWNER MAY BE REJECTED BY OWNER AND SHALL BE DISPOSED OF OFF SITE AT NO ADDITIONAL COST.

ELECTRICAL SCOPE OF WORK:

1. REMOVE RUNWAY 9-27 EDGE AND THRESHOLD LIGHTS AND RETURN TO OWNER. DEMOLISH ISOLATION TRANSFORMER AND L-824 CABLING FROM THESE CIRCUITS, PRESERVE CONDUIT, DUCTBANKS AND LIGHT BASES.
2. REMOVE AIRFIELD GUIDANCE SIGNS AFFECTED BY CONSTRUCTION. SIGN FOUNDATIONS TO REMAIN IN PLACE FOR REUSE.
3. FURNISH AND INSTALL L-862(L), L-862E(L) AND L-850C(L) AIRFIELD GROUND LIGHTING FIXTURES FOR RUNWAY 9-27, INCLUDING L-830 ISOLATION TRANSFORMERS, GASKETS AND HARDWARE AND L-824C #8 AWG 5KV CABLING.
4. FURNISH AND INSTALL L-858(L) AIRFIELD GUIDANCE SIGNS, L-830 ISOLATION TRANSFORMERS, GASKETS AND HARDWARE AND L-824C #8 AWG 5KV CABLING ON EXISTING FOUNDATIONS.
5. FURNISH AND INSTALL L-824C #8 5KV CABLING FROM THE AIRFIELD LIGHTING VAULT TO THE FIELD FOR AFFECTED CIRCUITS. CONTRACTOR SHALL REPLACE ALL GASKETS AND HARDWARE FOR ALL BASE CANS ACCESSED TO COMPLETE THE ELECTRICAL HOMERUN TO THE VAULT. THE COST OF THIS WORK SHALL BE INCIDENTAL TO ITEM L-108-5.1.

DEMOLITION GENERAL NOTES:


1. PRIOR TO REMOVAL OF ANY WIRING OR CONDUIT SYSTEM, VERIFY WIRING IS INACTIVE AND MAKE PROVISIONS TO RE-ROUTE AND RE-ESTABLISH ACTIVE CIRCUITRY USING NECESSARY, TEMPORARY WIRING. REMOVE TEMPORARY WIRING PRIOR TO PROJECT COMPLETION. COORDINATE EFFORTS ASSOCIATED WITH TEMPORARY WIRING WITH THE AIRPORT AND THE RPR.
2. PRIOR TO CONSTRUCTION AND PRIOR TO REMOVAL OF ANY AIRFIELD ELECTRICAL FIXTURE, COMPONENT, ETC. EVALUATE THE CONDITION OF THE ITEMS TO BE RE-INSTALLED OR ITEMS TO BE TURNED OVER TO OWNER AND REPORT IN WRITING, ANY DAMAGE TO THE RPR PRIOR TO ITS REMOVAL. REPAIR OR REPLACE EQUIPMENT DAMAGED AFTER REMOVAL OF THE ITEM.
3. DISPOSE OFF SITE, EQUIPMENT AND OTHER ITEMS REMOVED AND NOT INTENDED FOR RE-INSTALLATION OR DELIVERY TO THE AIRPORT.
4. STORE AND PROTECT ANY FIXTURES OR EQUIPMENT TO BE REMOVED AND TURNED OVER TO THE AIRPORT OR TO BE REMOVED AND RE-INSTALLED DURING CONSTRUCTION.
5. DELIVER ITEMS TO BE SALVAGED AND TURNED OVER TO OWNER TO A LOCATION ON AIRPORT PROPERTY AND SPECIFIED BY THE OWNER.
6. DOCUMENT THE CONDITION OF EXISTING AIRFIELD ELECTRICAL EQUIPMENT TO REMAIN IN PLACE, PRIOR TO CONSTRUCTION. PROVIDE AN EXISTING CONDITIONS REPORT, COMPLETE WITH PHOTOS TO THE ENGINEER.

CONSULTANT:



ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
 FAX: 410 465 9602

SEAL:



STATE OF MARYLAND
 Charles Dennis
 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

PROFESSIONAL CERTIFICATION:
 "I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."
 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
D.A.B.			
DRAWN:			
D.A.B.			
CHECKED:			
C.M.D.			
APPROVED:			
C.M.D.			



Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	ELECTRICAL GENERAL NOTES	
SCALE:	N/A	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.: **E001**
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ELECTRICAL ABBREVIATIONS:

ALT	ALTERNATE	OC	ON CENTER
AMP	AMPERE	OD	OUTSIDE DIAMETER
ANOD	ANODIZE	OH	OVERHEAD
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	ORIG	ORIGINAL
APPROX	APPROXIMATE	PAPI	PRECISION APPROACH PATH INDICATOR
APZ	ACCIDENT PROTECTION ZONE	PCC	PORTLAND CEMENT CONCRETE
ATCT	AIR TRAFFIC CONTROL TOWER	PCU	POWER & CONTROL UNIT
AWG	AMERICAN WIRE GAUGE	PE	POLYETHYLENE
		PSIG	POUNDS PER SQUARE INCH GAUGE
BITUM	BITUMINOUS	PVC	POLYVINYL CHLORIDE
BLDG	BUILDING	PWC	PRIMARY WIND CONE
BLK	BLOCK		
		QTY	QUANTITY
C	CONDUIT		
CCR	CONSTANT CURRENT REGULATOR	R	REMOVE
CIP	CAST-IN-PLACE	RCP	REINFORCED CONCRETE PIPE
CKT	CIRCUIT	REINF	REINFORCE
CL	CENTER LINE	REQD	REQUIRED
CONC	CONCRETE	RGS	RIGID GALVANIZED STEEL
CONST	CONSTRUCTION	ROFA	RUNWAY OBJECT FREE AREA
CTR	CENTER	RSA	RUNWAY SAFETY AREA
CU	COPPER	RSM	REMOTE STATUS MONITORING
		RW	RUNWAY
DEB	DIRECT EARTH BURIED	RVZ	RUNWAY VISIBILITY ZONE
DEG	DEGREE	REIL	RUNWAY END IDENTIFICATION LIGHT
DEMO	DEMOLISH, DEMOLITION	RPZ	RUNWAY PROTECTION ZONE
DIA	DIAMETER		
DIM	DIMENSION	SD	STORM DRAIN
DIV	DIVISION	SPD	SURGE PROTECTION DEVICE
DWG	DRAWING	SPEC	SPECIFICATIONS
		SQ	SQUARE
EA	EACH	SS	STAINLESS STEEL
EES	EARTH ELECTRODE SYSTEM	STA	STATION
EJ	EXPANSION JOINT	STD	STANDARD
ELEC.	ELECTRICAL		
EMERG	EMERGENCY	T&B	TOP AND BOTTOM
EMH	ELECTRIC MANHOLE	TBD	TO BE DETERMINED
EQUIP	EQUIPMENT	TBR	TO BE REMOVED
EX	EXISTING	TEMP	TEMPORARY
		TOFA	TAXIWAY OBJECT FREE AREA
FH	FIRE HYDRANT	TSA	TAXIWAY SAFETY AREA
FO	FIBER OPTIC	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FOD	FOREIGN OBJECT DEBRIS		
FR	FIRE RESISTANT	TW	TAXIWAY
FT	FEET	TYP	TYPICAL
		UE	UNDERGROUND ELECTRICAL
G, GND	GROUND	UIP	USE IN-PLACE
GALV	GALVANIZED	UON	UNLESS OTHERWISE NOTED
GEN	GENERAL	UTIL	UTILITY
GFE	GOVERNMENT FURNISHED EQUIPMENT		
GOVT	GOVERNMENT	V	VOLT
		VASI	VISUAL APPROACH SLOPE INDICATOR
HORIZ	HORIZONTAL	VIF	VERIFY IN FIELD
HR	HOMERUN	VERT	VERTICAL
HS	HIGH STRENGTH		
HZ	HERTZ	W/	WITH
		W/O	WITHOUT
I.D.	INSIDE DIAMETER	WC	WIND CONE
INV	INVERT		
		"	INCH
J-BOX	JUNCTION BOX	'	FOOT
JCP	JUNCTION CAN PLAZA		
KV	KILOVOLTS		
KVA	KILOVOLT AMPERES		
KW	KILOWATT		
L	LENGTH		
LHA	LIGHT HOUSING ASSEMBLY		
LED	LIGHT EMITTING DIODE		
LF	LINEAR FOOT		
LOC	LOCALIZER		
LOD	LIMIT OF DISTURBANCE		
LV	LOW VOLTAGE		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MIRL	MEDIUM INTENSITY RUNWAY LIGHT		
MISC	MISCELLANEOUS		
MON	MONUMENT		
MV	MEDIUM VOLTAGE		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NTS	NOT TO SCALE		
OB	OBSTRUCTION LIGHT		

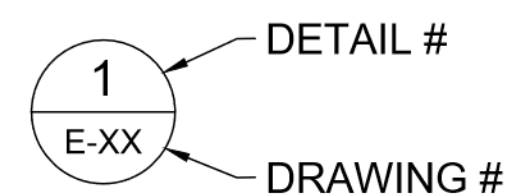
EXISTING LEGEND:

	ELEVATED BASE MOUNTED TAXIWAY EDGE LIGHT
	ELEVATED RUNWAY EDGE LIGHT
	ELECTRICAL HAND HOLE/MANHOLE
	ELEVATED RUNWAY THRESHOLD LIGHT
	REIL LIGHT
	PAPI (PRECISION APPROACH PATH INDICATOR)
	CABLE/DUCT MARKER
	AIRFIELD GUIDANCE SIGN
	ELECTRICAL DEB CONDUIT
	ELECTRICAL DUCT BANK, NO. AND SIZE SHOWN
	MONUMENT
	WINDCONE
	JUNCTION CAN

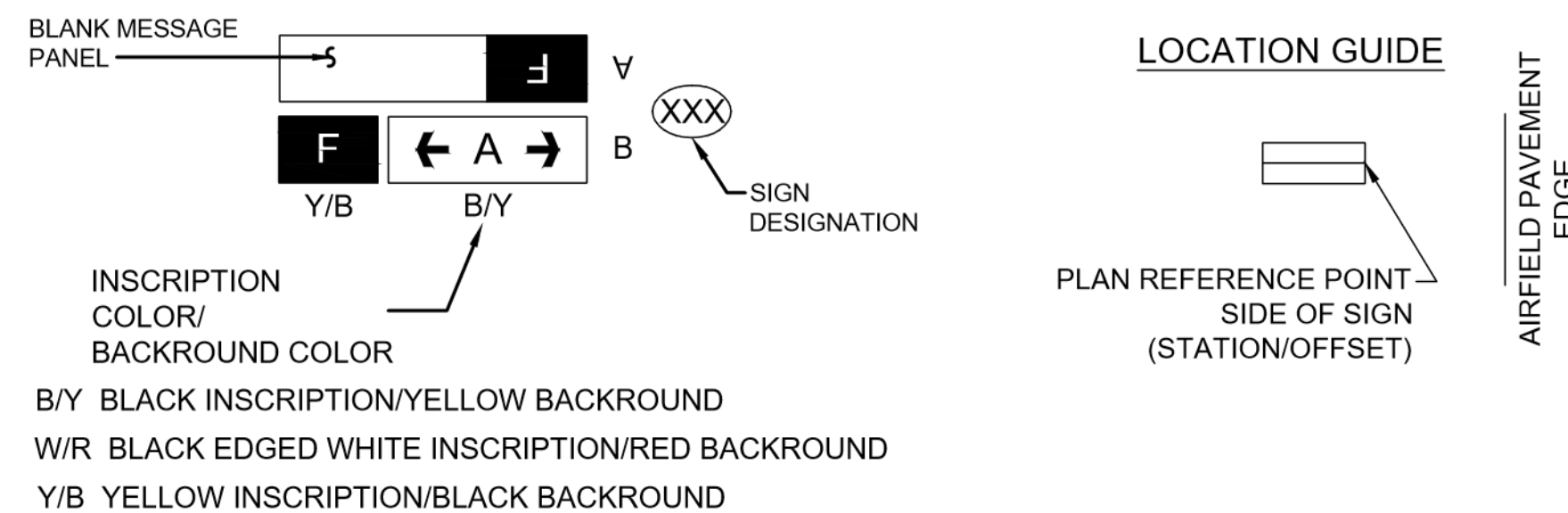
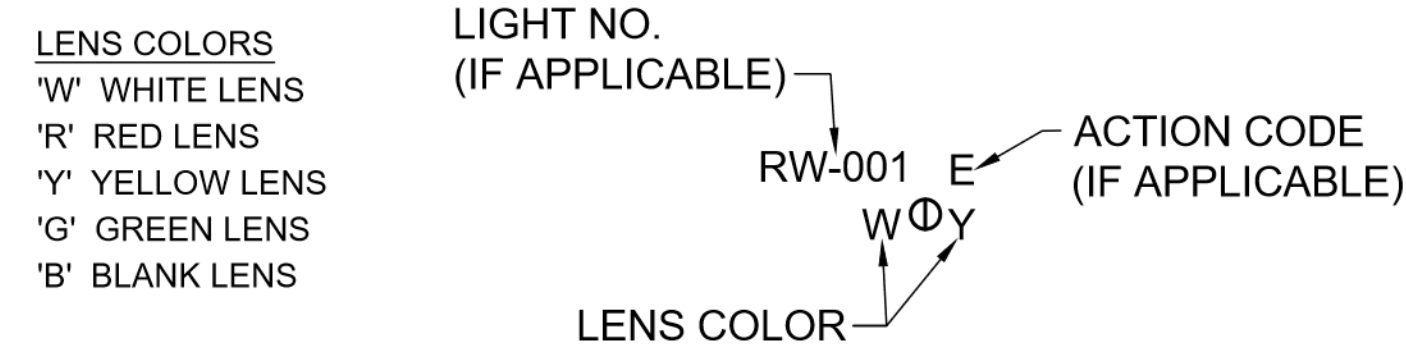
DEMOLITION/PROPOSED LEGEND:

	REMOVE CABLE FROM CONDUIT/DUCTBANK. FURNISH AND L-824C CABLE AND CONNECT TO NEW LIGHT FIXTURE OR SIGN. TICK MARKS ON CONDUIT/DUCTBANK DENOTE QUANTITY OF CABLES REMOVED/INSTALLED
	REMOVE RUNWAY EDGE LIGHT AND TURN OVER TO AIRPORT. DEMOLISH ISOLATION TRANSFORMER AND CONNECTORS. LIGHT BASE TO REMAIN. FURNISH AND INSTALL L-862(L) FIXTURE, L-830 ISOLATION TRANSFORMER, NON-METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS. LENS COLORS AS INDICATED ON PLANS. SEE LIGHT SYMBOL CONVENTION DETAIL ON THIS SHEET
	REMOVE RUNWAY EDGE LIGHT AND TURN OVER TO AIRPORT. DEMOLISH ISOLATION TRANSFORMER AND CONNECTORS. LIGHT BASE TO REMAIN. FURNISH AND INSTALL L-862(L) FIXTURE, L-830 ISOLATION TRANSFORMER, NON-METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS. LENS COLORS AS INDICATED ON PLANS. SEE LIGHT SYMBOL CONVENTION DETAIL ON THIS SHEET
	REMOVE RUNWAY THRESHOLD/END LIGHT AND TURN OVER TO AIRPORT. DEMOLISH ISOLATION TRANSFORMER AND CONNECTORS. LIGHT BASE TO REMAIN. FURNISH AND INSTALL L-862E(L) FIXTURE, L-830 ISOLATION TRANSFORMER, NON-METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS. LENS COLORS AS INDICATED ON PLANS. SEE LIGHT SYMBOL CONVENTION DETAIL ON THIS SHEET
	REMOVE AIRFIELD GUIDANCE SIGN AND TURN OVER TO AIRPORT. DEMOLISH ISOLATION TRANSFORMER AND CONNECTORS. FOUNDATION TO REMAIN. "1" REPRESENTS AIRFIELD SIGN ACTION CODE, SEE AIRFIELD ACTION CODE ON ELECTRICAL PLAN SHEETS. SIGN MESSAGE AS INDICATED ON SIGN SCHEDULE SHEETS E601-E615. SEE AIRFIELD SIGN LEGEND DETAIL ON THIS SHEET

DRAWING DETAIL # CONVENTION:



LIGHTING SYMBOL CONVENTION:



AIRFIELD SIGN LEGEND
NOT TO SCALE

CONSULTANT:

ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD., SUITE 330
ELLICOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:

STATE OF MARYLAND
Charles Dennis
PROFESSIONAL ENGINEER
LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"

LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
D.A.B.			
DRAWN:			
D.A.B.			
CHECKED:			
C.M.D.			
APPROVED:			
C.M.D.			

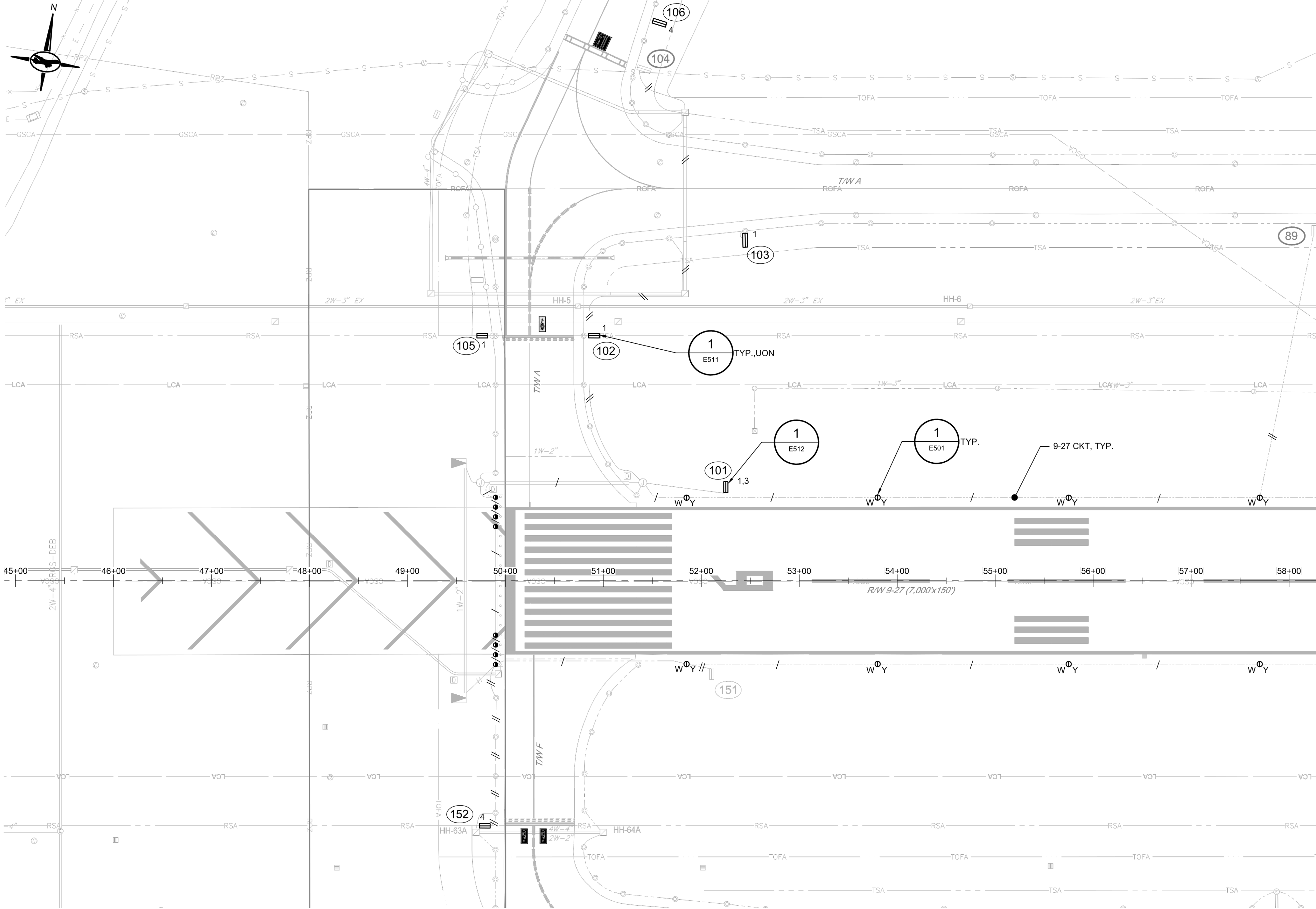
Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE:	ELECTRICAL LEGEND AND ABBREVIATIONS
SCALE:	N/A
DATE:	SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.: **E002**

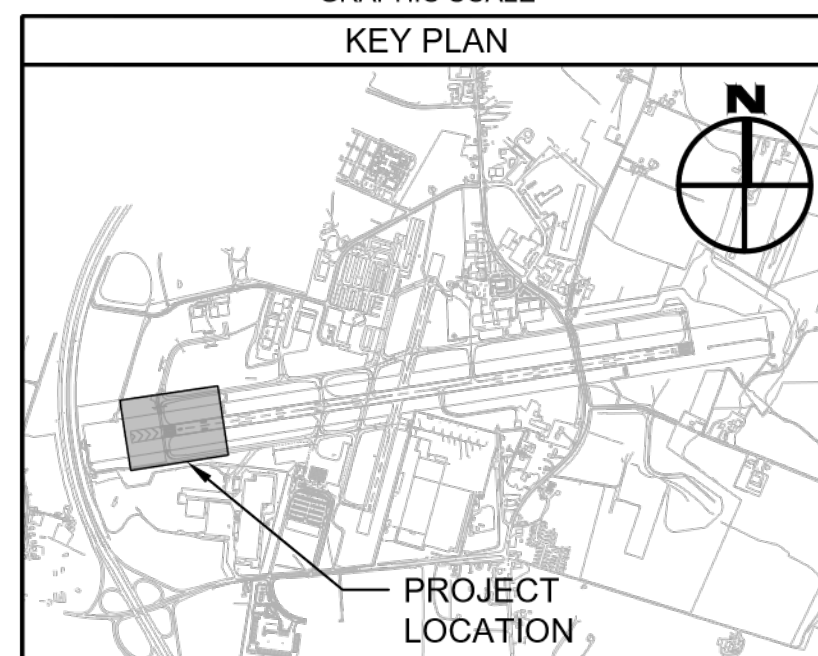
14 OF 39



- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

- AIRFIELD SIGN ACTION CODE:**
- FURNISH AND INSTALL L-858(L) SIGN, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - REINSTALL FORMER SIGN 9 OR 13A IN SPECIFIED LOCATION, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - FURNISH AND INSTALL A 12" DIA CONCRETE PIER ADJACENT TO EXISTING SIGN FOUNDATION TO ACCOMMODATE NEW SIGN MESSAGE LENGTH, SEE DETAIL ON SHEET E512.
 - EXISTING SIGN BODY TO REMAIN IN PLACE. REMOVE SIGN MESSAGE. PANELS. FURNISH AND INSTALL L-858(L) SIGN MESSAGE PANELS, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.

MATCH LINE - SEE SHEET E102



CONSULTANT:

ADCI
 AIRPORT DESIGN CONSULTANTS
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 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
 FAX: 410 465 9602

SEAL:

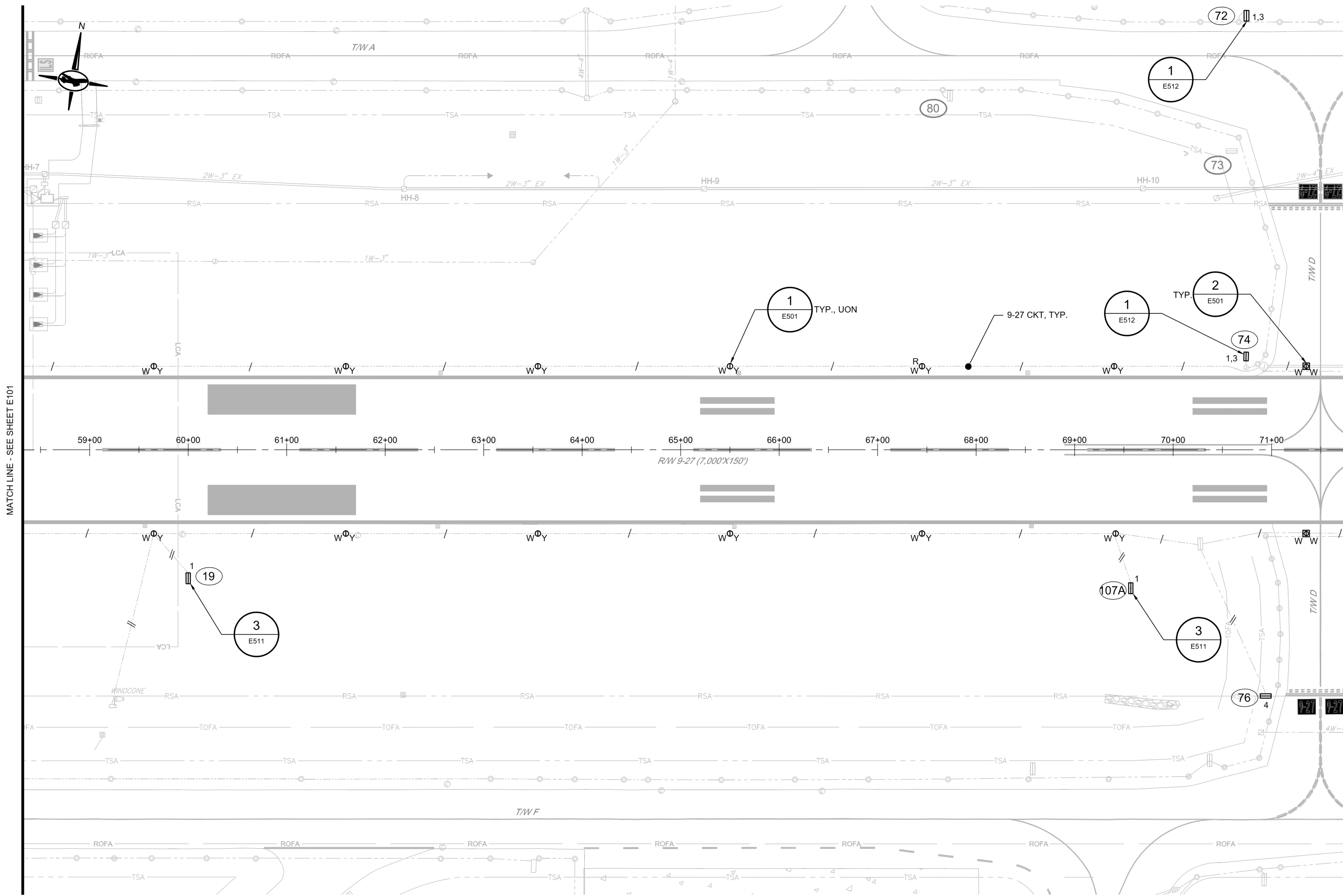
PROFESSIONAL CERTIFICATION:
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 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

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C.M.D.			
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C.M.D.			

BID DOCUMENTS

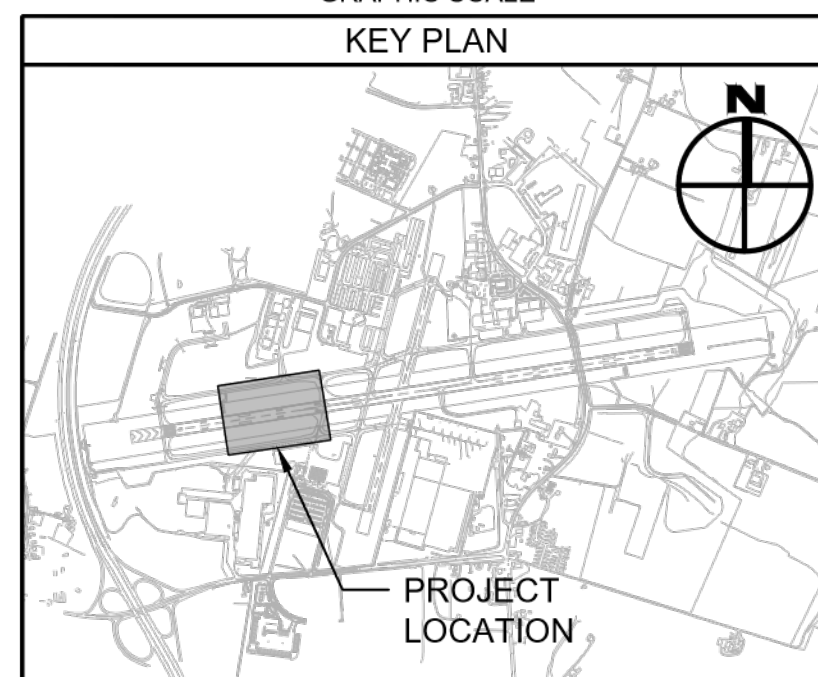
Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT		FAA AIP No.: 3-24-0019-071-2023 Bid No.: PUR-1635
SHEET TITLE: ELECTRICAL WORK PLAN 1		SHEET NO.: E101
SCALE: AS SHOWN	DATE: SEPTEMBER 2023	15 OF 39



- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

- AIRFIELD SIGN ACTION CODE:**
- FURNISH AND INSTALL L-858(L) SIGN, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - REINSTALL FORMER SIGN 9 OR 13A IN SPECIFIED LOCATION, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - FURNISH AND INSTALL A 12" DIA CONCRETE PIER ADJACENT TO EXISTING SIGN FOUNDATION TO ACCOMMODATE NEW SIGN MESSAGE LENGTH. SEE DETAIL ON SHEET E512.
 - EXISTING SIGN BODY TO REMAIN IN PLACE. REMOVE SIGN MESSAGE. PANELS. FURNISH AND INSTALL L-858(L) SIGN MESSAGE PANELS, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.



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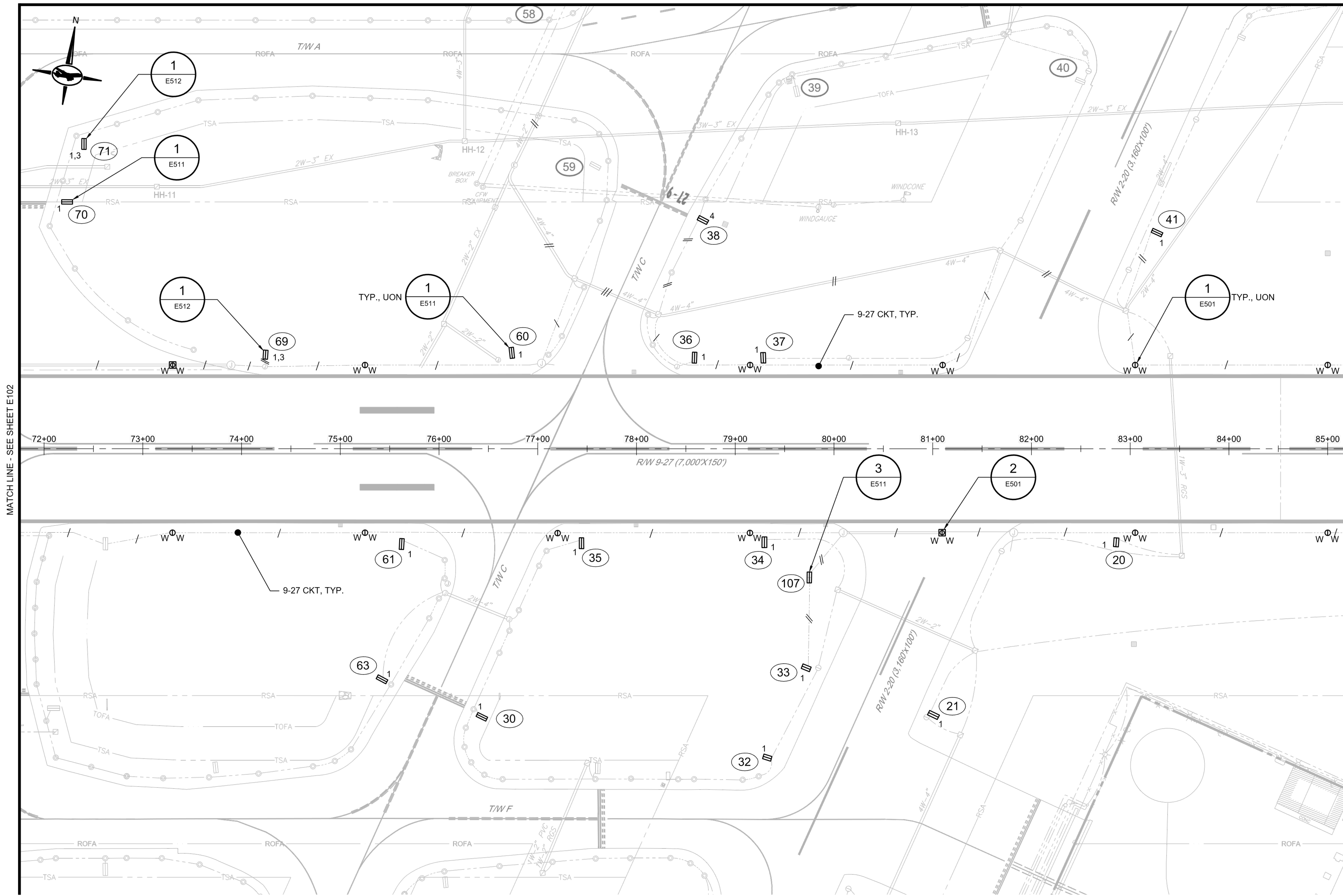
BID DOCUMENTS

Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	ELECTRICAL WORK PLAN 2	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

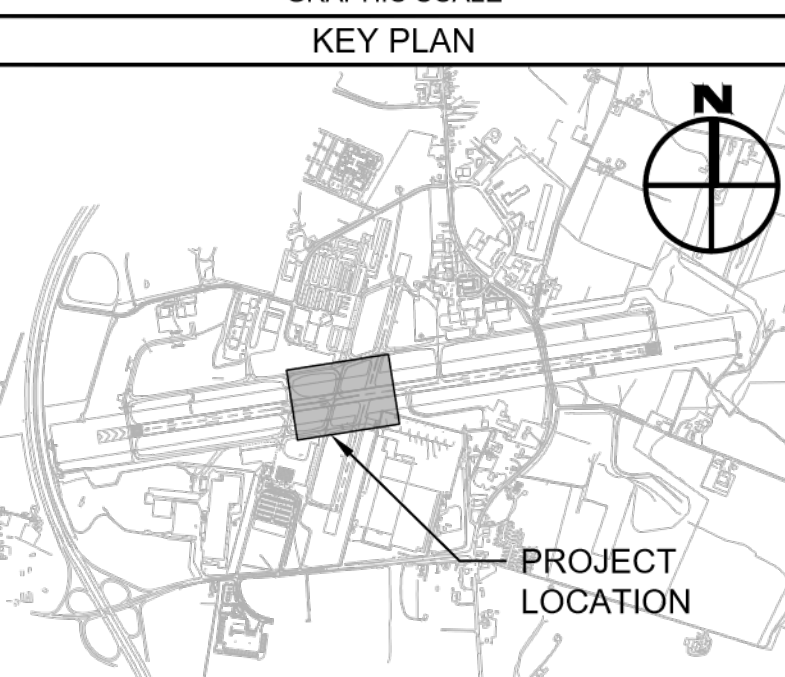
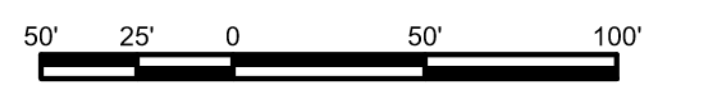
FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.: **E102**
 16 OF 39



- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

- AIRFIELD SIGN ACTION CODE:**
- FURNISH AND INSTALL L-858(L) SIGN, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - REINSTALL FORMER SIGN 9 OR 13A IN SPECIFIED LOCATION, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - FURNISH AND INSTALL A 12" DIA CONCRETE PIER ADJACENT TO EXISTING SIGN FOUNDATION TO ACCOMMODATE NEW SIGN MESSAGE LENGTH, SEE DETAIL ON SHEET E512.
 - EXISTING SIGN BODY TO REMAIN IN PLACE. REMOVE SIGN MESSAGE. PANELS. FURNISH AND INSTALL L-858(L) SIGN MESSAGE PANELS, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.



CONSULTANT:

ADCI
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 LICENSE NO. 56030
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C.M.D.			
APPROVED:			
C.M.D.			

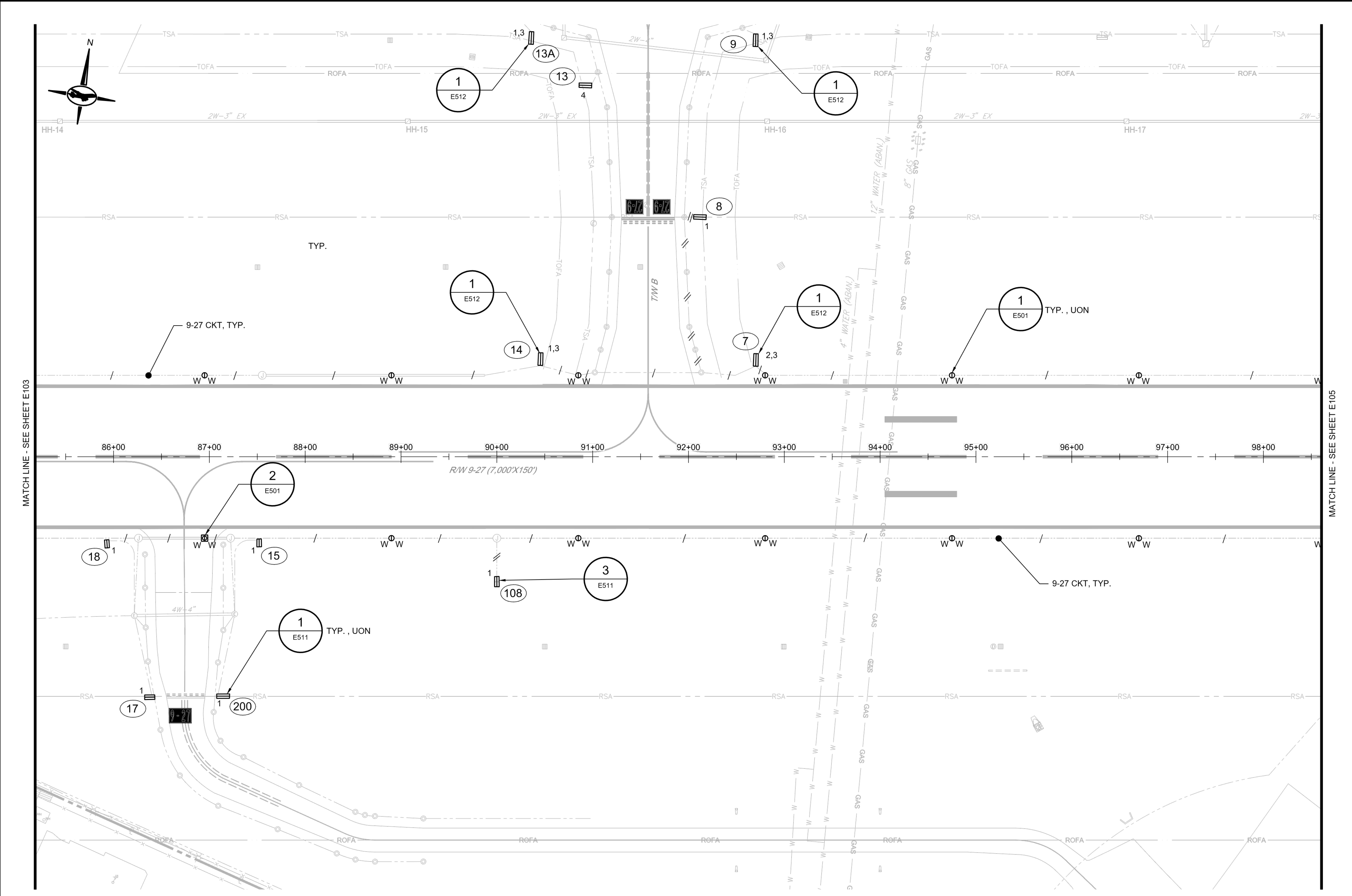
BID DOCUMENTS

Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	ELECTRICAL WORK PLAN 3	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.: **E103**
 17 OF 39

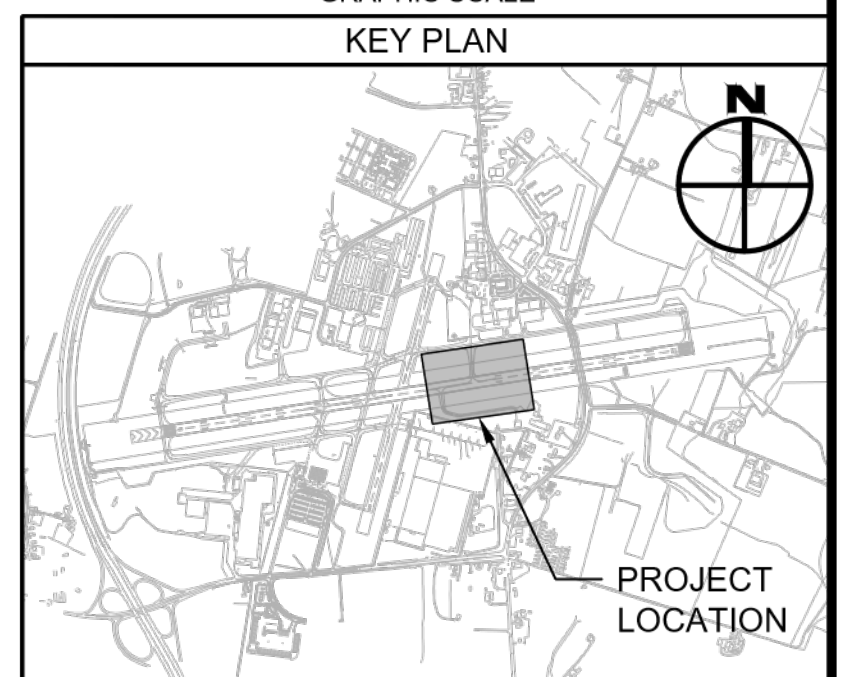


- GENERAL NOTES:**
1. SEE SHEET E001 FOR GENERAL NOTES.
 2. SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 3. SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 4. SEE SHEETS E511, E512 FOR SIGN DETAILS.
 5. SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

- AIRFIELD SIGN ACTION CODE:**
1. FURNISH AND INSTALL L-858(L) SIGN, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 2. REINSTALL FORMER SIGN 9 OR 13A IN SPECIFIED LOCATION, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 3. FURNISH AND INSTALL A 12" DIA CONCRETE PIER ADJACENT TO EXISTING SIGN FOUNDATION TO ACCOMMODATE NEW SIGN MESSAGE LENGTH, SEE DETAIL ON SHEET E512.
 4. EXISTING SIGN BODY TO REMAIN IN PLACE. REMOVE SIGN MESSAGE. PANELS. FURNISH AND INSTALL L-858(L) SIGN MESSAGE PANELS, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.

MATCH LINE - SEE SHEET E103

MATCH LINE - SEE SHEET E105



CONSULTANT:

ADCI

AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLICOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:

CHRISTOPHER DENNIS
PROFESSIONAL ENGINEER
09/20/23

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."
LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

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D.A.B.			
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C.M.D.			
APPROVED:			
C.M.D.			

BIG DOCUMENTS

Washington County, MD

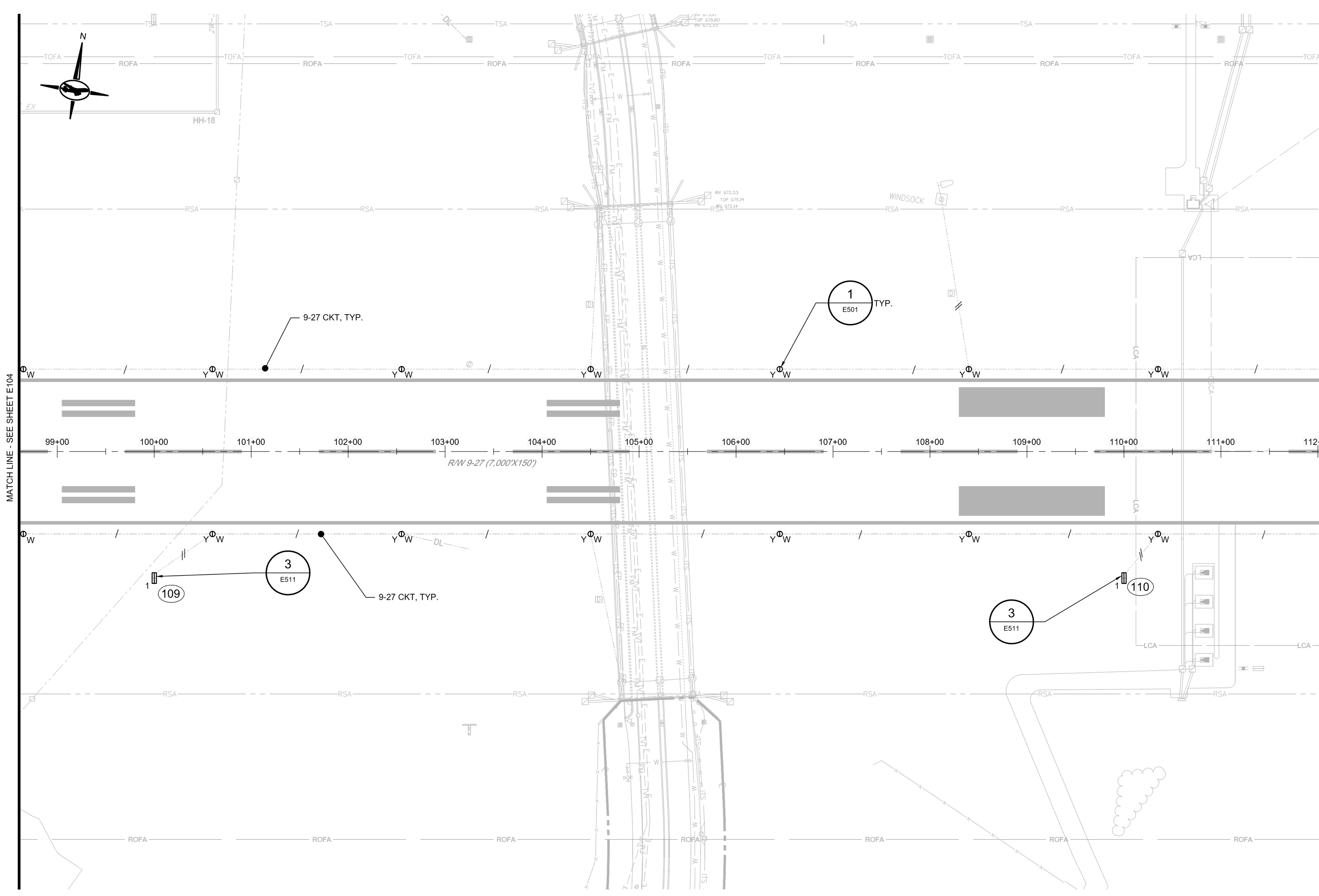
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:		<p>RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT</p>
SHEET TITLE:		<p>ELECTRICAL WORK PLAN 4</p>
SCALE:	DATE:	<p>AS SHOWN SEPTEMBER 2023</p>

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

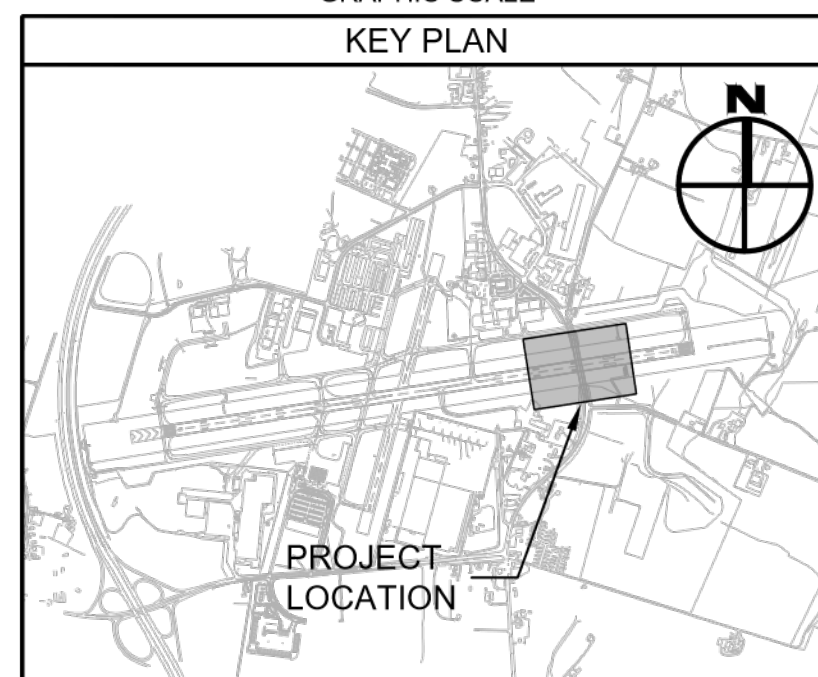
SHEET NO.:
E104

18 OF 39



- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

- AIRFIELD SIGN ACTION CODE:**
- FURNISH AND INSTALL L-858(L) SIGN, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - REINSTALL FORMER SIGN 9 OR 13A IN SPECIFIED LOCATION, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - FURNISH AND INSTALL A 12" DIA CONCRETE PIER ADJACENT TO EXISTING SIGN FOUNDATION TO ACCOMMODATE NEW SIGN MESSAGE LENGTH, SEE DETAIL ON SHEET E512.
 - EXISTING SIGN BODY TO REMAIN IN PLACE. REMOVE SIGN MESSAGE. PANELS. FURNISH AND INSTALL L-858(L) SIGN MESSAGE PANELS, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.



CONSULTANT:

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 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410.465.9600
 FAX: 410.465.9602

SEAL:

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 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
D.A.B.			
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D.A.B.			
CHECKED:			
C.M.D.			
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C.M.D.			

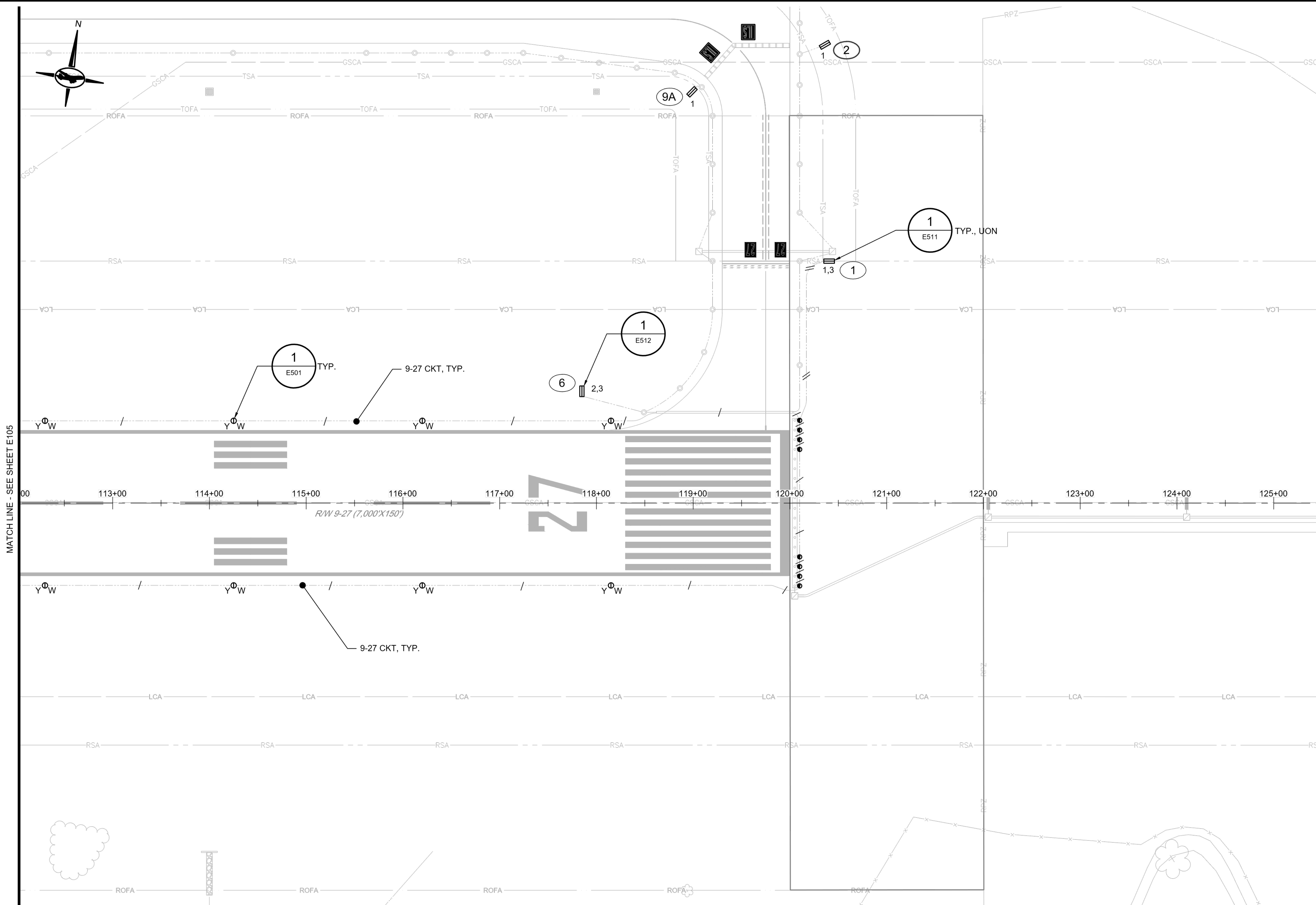
BID DOCUMENTS

Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	ELECTRICAL WORK PLAN 5	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

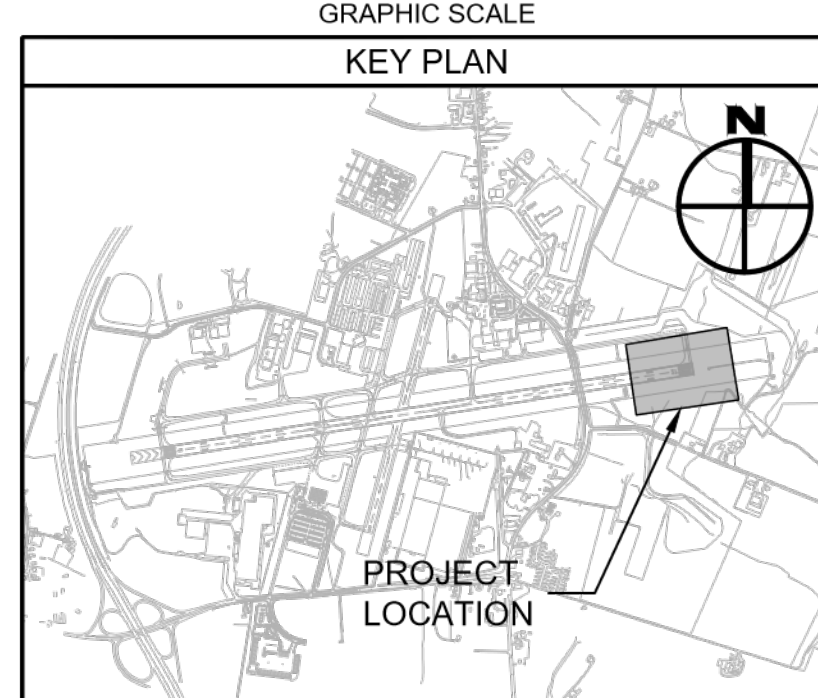
SHEET NO.: **E105**
 19 OF 39



- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

- AIRFIELD SIGN ACTION CODE:**
- FURNISH AND INSTALL L-858(L) SIGN, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - REINSTALL FORMER SIGN 9 OR 13A IN SPECIFIED LOCATION, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
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 - EXISTING SIGN BODY TO REMAIN IN PLACE. REMOVE SIGN MESSAGE. PANELS. FURNISH AND INSTALL L-858(L) SIGN MESSAGE PANELS, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.

MATCH LINE - SEE SHEET E105



CONSULTANT:

ADCI
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 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
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 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

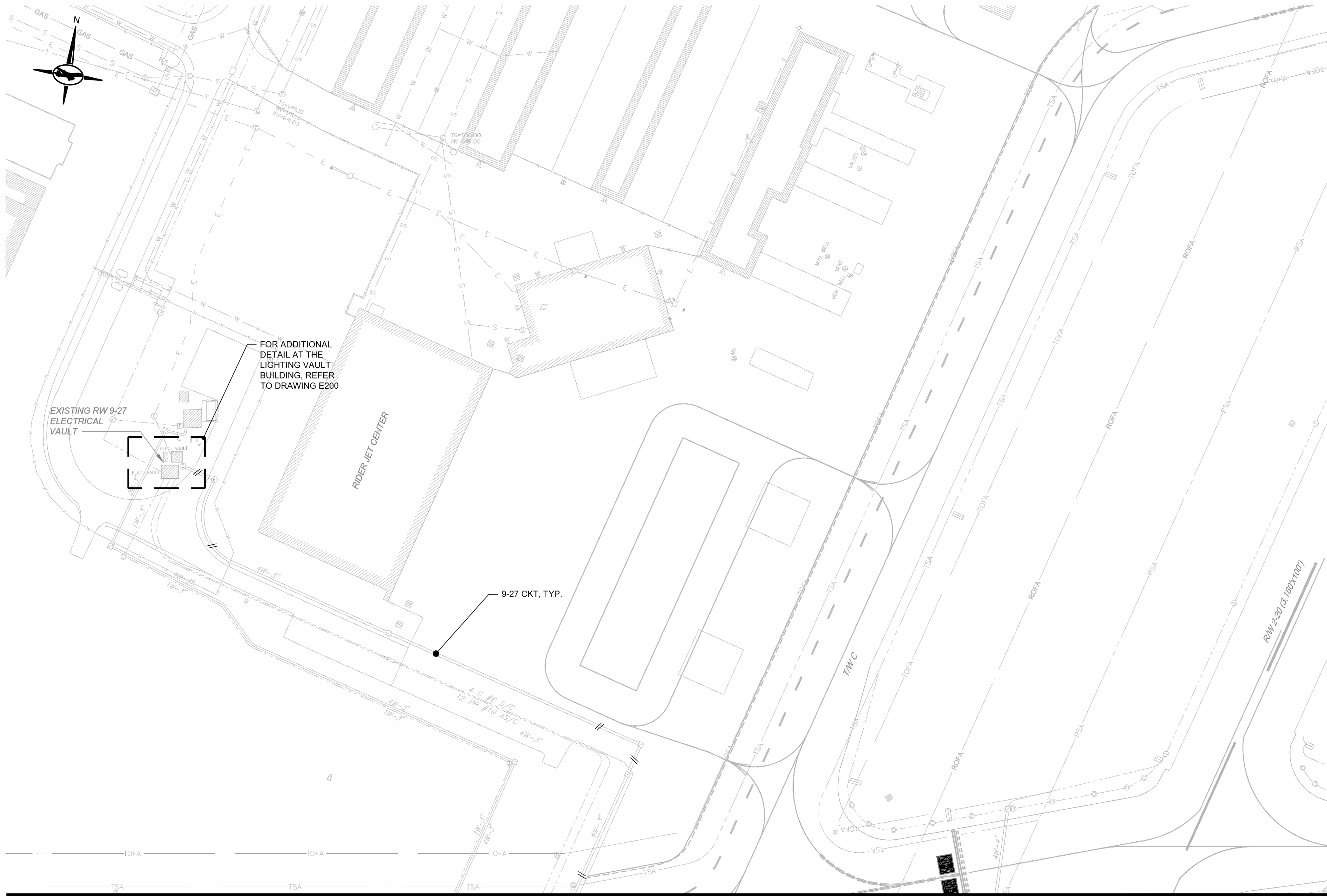
DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
D.A.B.			
DRAWN:			
D.A.B.			
CHECKED:			
C.M.D.			
APPROVED:			
C.M.D.			

Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE:	ELECTRICAL WORK PLAN 6
SCALE:	AS SHOWN
DATE:	SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.:
E106
 20 OF 39



- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

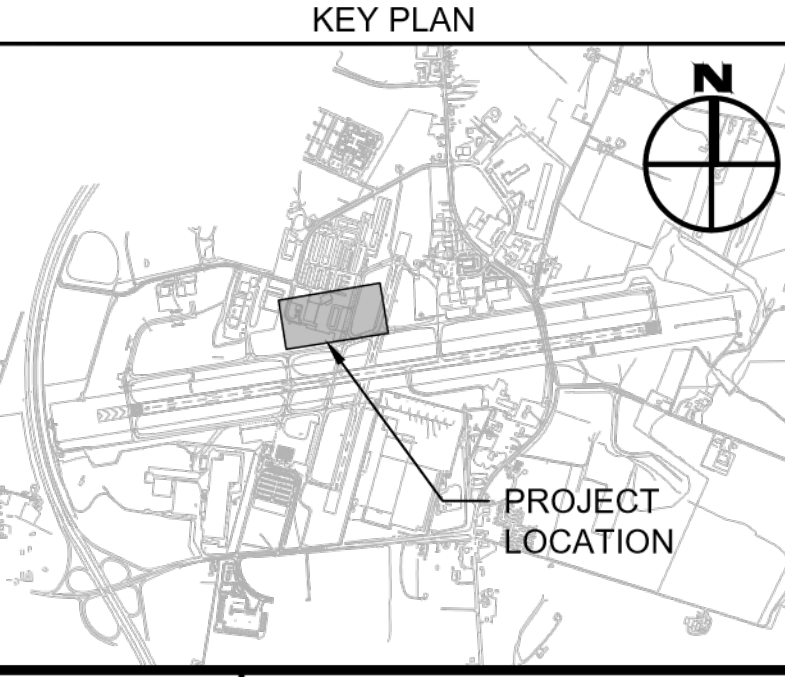
- AIRFIELD SIGN ACTION CODE:**
- FURNISH AND INSTALL L-858(L) SIGN, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
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 - EXISTING SIGN BODY TO REMAIN IN PLACE. REMOVE SIGN MESSAGE. PANELS. FURNISH AND INSTALL L-858(L) SIGN MESSAGE PANELS, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.

FOR ADDITIONAL
DETAIL AT THE
LIGHTING VAULT
BUILDING, REFER
TO DRAWING E200

EXISTING RW 9-27
ELECTRICAL
VAULT

RIDER JET CENTER

9-27 CKT, TYP.



MATCH LINE - SEE SHEET E103

CONSULTANT:

ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLICOTT CITY, MD 21043
TEL: 410.465.9600
FAX: 410.465.9602

SEAL:

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LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS
OF THE STATE OF MARYLAND"
LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

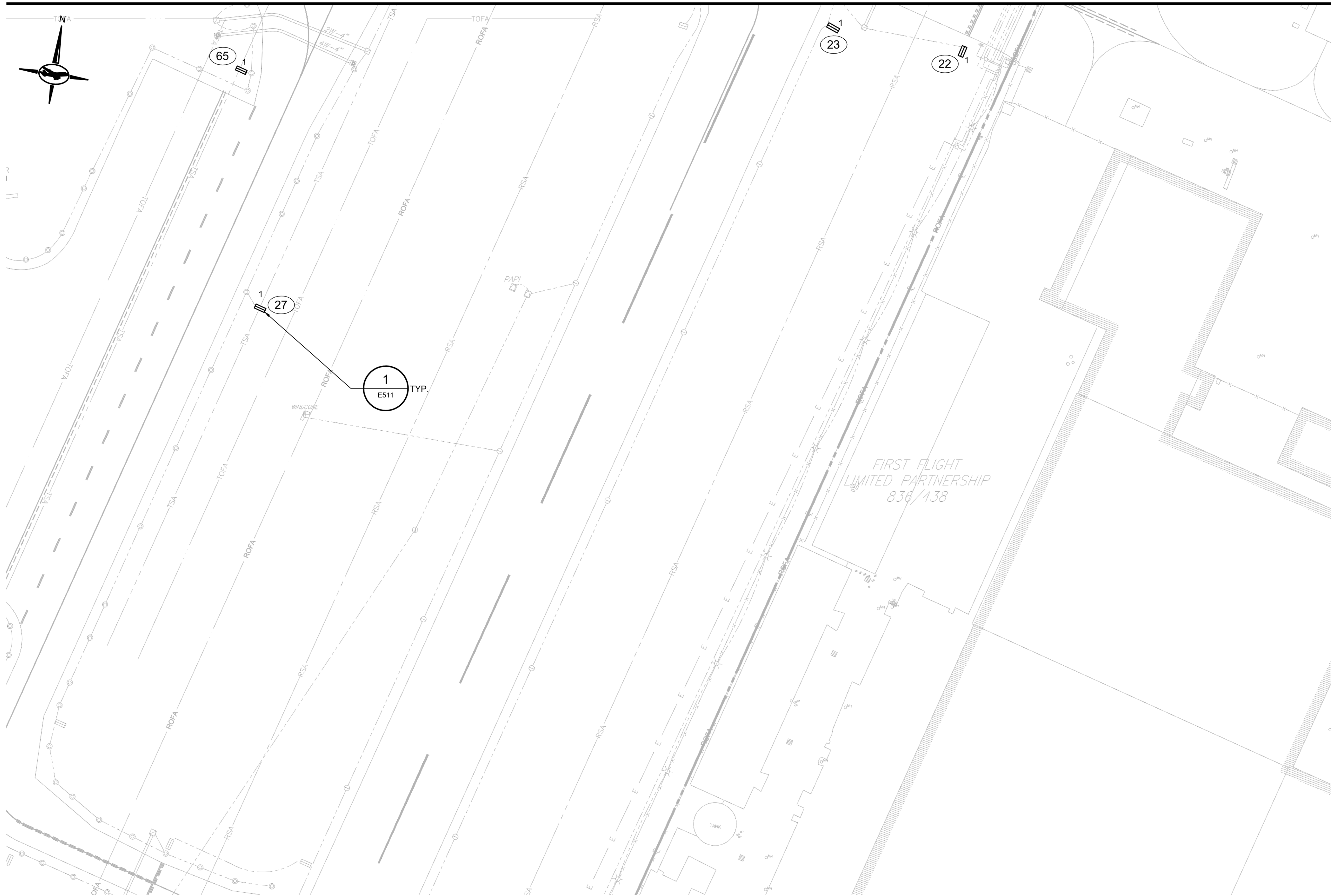
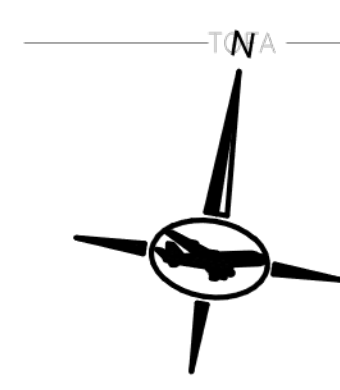
DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
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C.M.D.			
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Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE:	ELECTRICAL WORK PLAN 7
SCALE:	AS SHOWN
DATE:	SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

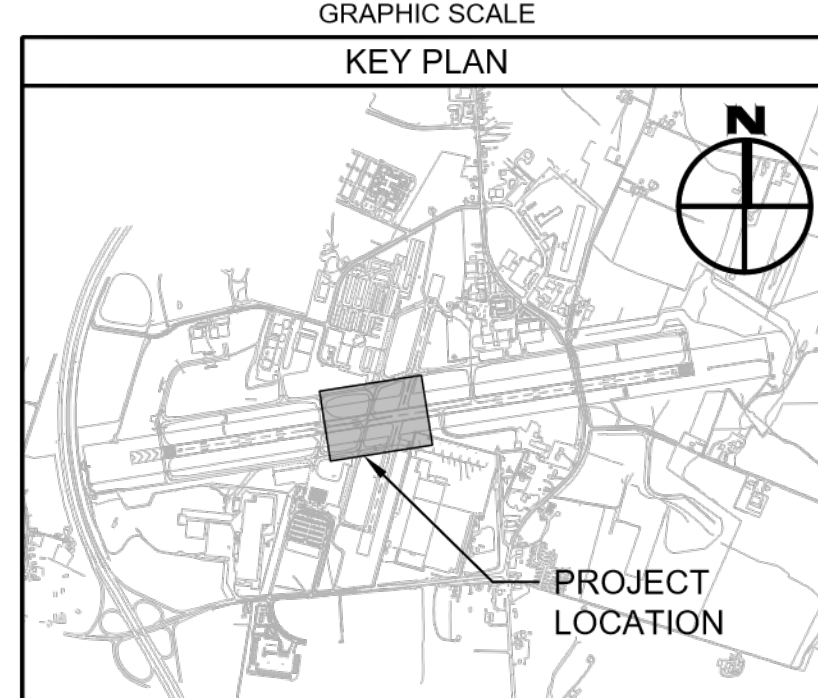
SHEET NO.:
E107
21 OF 39



FIRST FLIGHT
LIMITED PARTNERSHIP
836/438

- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

- AIRFIELD SIGN ACTION CODE:**
- FURNISH AND INSTALL L-858(L) SIGN, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
 - REINSTALL FORMER SIGN 9 OR 13A IN SPECIFIED LOCATION, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.
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 - EXISTING SIGN BODY TO REMAIN IN PLACE. REMOVE SIGN MESSAGE. PANELS. FURNISH AND INSTALL L-858(L) SIGN MESSAGE PANELS, L-830 ISOLATION TRANSFORMER, NON METALLIC TRANSFORMER STAND, L-823 CONNECTORS, GASKETS AND BOLTS.



CONSULTANT:

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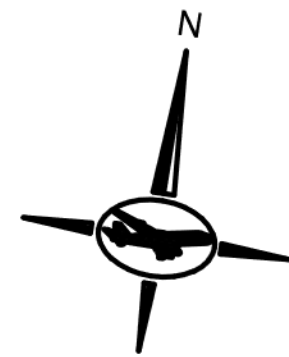
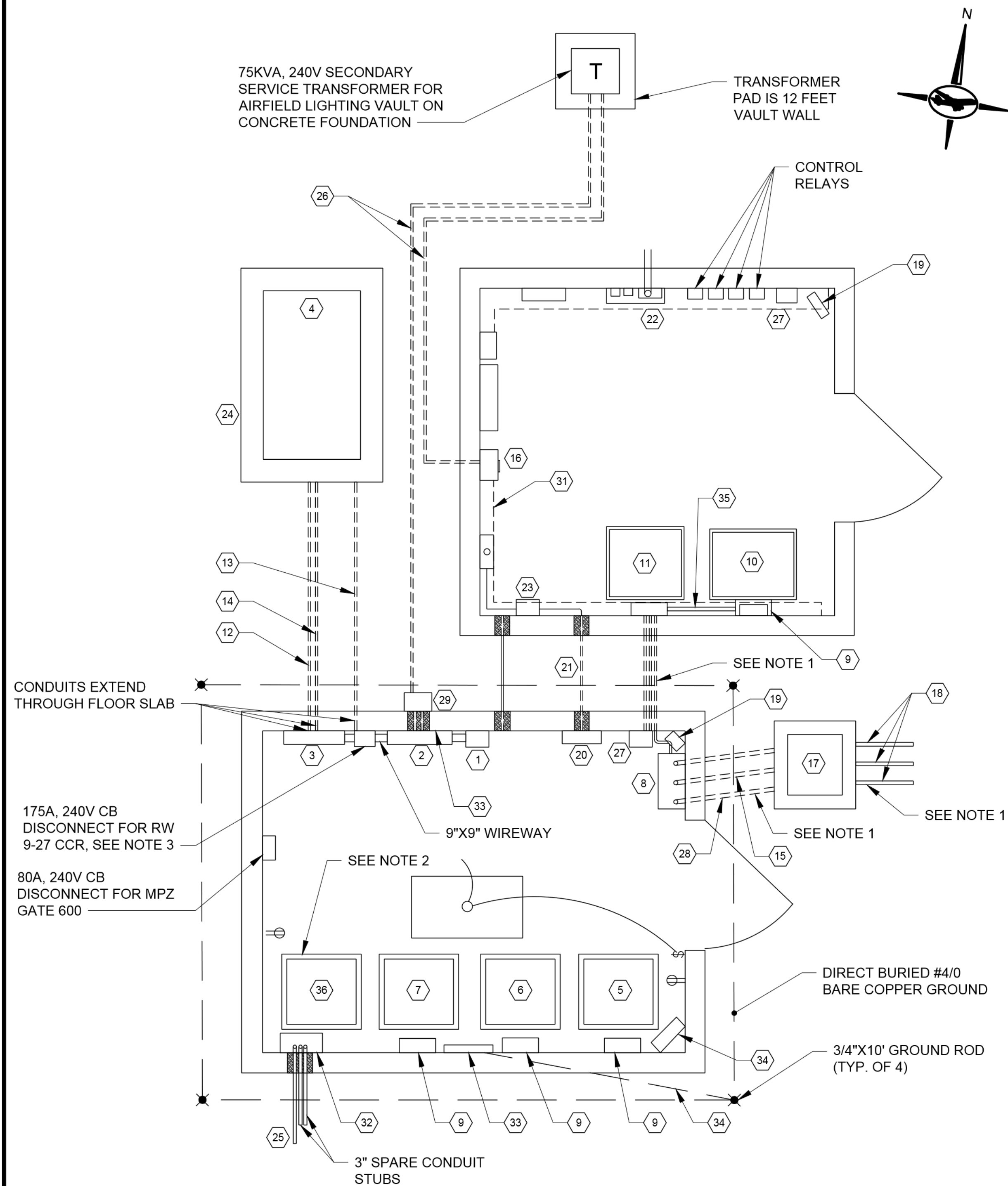
BID DOCUMENTS

Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	ELECTRICAL WORK PLAN 8	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.: **E108**
22 OF 39



- 1 SURGE PROTECTION DEVICE
- 2 240/120, 400A, I-LINE PANEL BOARD 'MDP'
- 3 240 VOLTS, 2 POLE, 1 PHASE, 3 WIRE 225 AMP AUTOMATIC TRANSFER SWITCH (ATS) IN NEMA TYPE 1 ENCLOSURE
- 4 120/240, 50KW, OUTDOOR EMERGENCY GENERATOR WITH NATURAL GAS FUEL SUPPLY
- 5 20KW CCR, TW NORTHEAST EDGE LIGHT
- 6 20KW SOUTH SIDE TAXIWAY EDGE LIGHTS
- 7 15KW TW NORTHWEST EDGE LIGHTS
- 8 24"X24"X8" TYPE 1 HINGED DOOR AIRFIELD LIGHTING CONNECTOR CABINET
- 9 SERIES PLUG CUTOOUT TYPE S-1
- 10 20KW CCR, SPARE RW 9-27 EDGE LIGHTS
- 11 7.5KW CCR, RW 2-20 EDGE LIGHTS
- 12 2" CONDUIT FOR STAND-BY POWER FROM GENERATOR
- 13 2" CONDUIT WITH 4-#12 AND #12 GROUND
- 14 2" CONDUIT, USE FOR CONTROL WITH 3 #18
- 15 3" CONDUIT WITH 6-1/C#8 L-824, 5KW CABLES FOR TW NORTHEAST, TW NORTHWEST AND TW SOUTH EDGE LIGHT CIRCUITS
- 16 400A MCB 240V I-LINE PANELBOARD
- 17 24"X24" HANDHOLE FORTW NORTHEAST, RW 2-20, RW 9-27 AND TW SOUTH CONDUCTORS
- 18 2-1/C #8 L-824, 5KV CABLES IN 3" CONDUIT, TW NORTHEAST HOMERUN
- 19 3 KW, 240V, WALL MOUNTED ELECTRICAL UNIT HEATER
- 20 12"X16"X4" GALVANIZED SPLICE BOX FOR CONTROL WIRING
- 21 2" CONDUIT WITH 15 #12 (3 SPARE) TW'S CONTROL CABLES
- 22 100A MLO 240V PANELBOARD
- 23 12" X 12" X 6" ENCLOSURE FOR L-823 CABLES
- 24 CONCRETE PAD FOR EMERGENCY GENERATOR AND ENCLOSURE
- 25 3" CONDUIT STUB FOR VASI-9 FEEDERS
- 26 2-3" CONDUIT FOR ELECTRICAL SERVICE FROM UTILITY
- 27 VAULT ANTENNA RECEIVER/CONTROLLER

- 28 1-3" PVC CONDUIT WITH 4-1/C #8, 5KV L-824 CABLES FOR RW 2-20 AND RW 9-27 EDGE LIGHTS CIRCUITS
- 29 UTILITY METER
- 30 NOT USED
- 31 15 #12 CONTROL CABLES IN EXISTING WIREWAY (TW CONTROL CABLES)
- 32 20"X16"X6" TYPE 1 HINGED DOOR ENCLOSURE FOR VASI POWER
- 33 24" LONG X 4" HIGH X 1/4" THICK MULTI POINT COPPER BUS MOUNTING PLATE, WALL MOUNT 12" AFF ON ISOLATORS
- 34 #6 BARE COPPER WIRE IN 3/4 C STUB THROUGH FLOOR TO GROUND ROD
- 35 2" CONDUIT WITH 2-1/C #8, 5KV L-824 CABLES, RW 9-27 EDGE LIGHTING CIRCUIT
- 36 30KW RW 9-27 EDGE LIGHTS

NOTES:

1. EXISTING DUCTBANK FROM AIRFIELD TO LIGHTING VAULT. REMOVE EXISTING L-824 CABLES FOR RUNWAY 9-27 AND FURNISH AND INSTALL NEW L-824 CABLES TO NEW CONSTANT CURRENT REGULATOR. ANY OTHER CIRCUITS CONTAINED WITHIN THE SAME DUCT AS THE RUNWAY 9-27 CIRCUIT MUST ALSO BE REMOVED AND REPLACED. IF EMPTY CONDUIT(S) EXIST AND ARE VERIFIED TO BE IN SATISFACTORY CONDITION IN AREAS WHERE THE CONTRACT DOCUMENTS INDICATE TO REMOVE AND REINSTALL CABLE, UPON RFR APPROVAL, THE CONTRACTOR SHALL INSTEAD INSTALL NEW CABLE IN EXISTING SPARE DUCT AND ABANDON EXISTING CABLE IN PLACE. UTILIZE SPARE DUCT TO PROVIDE NEW CABLING AND CONNECT TO CCRs PRIOR TO REMOVING CABLE.
2. REMOVE EXISTING 30KW RUNWAY 9-27 CCR AND FURNISH AND INSTALL A 20KW CCR. EXTEND EXISTING CONDUIT CABLING FOR POWER, COMMUNICATIONS, AND EMERGENCY POWER CONNECTIONS. FLEXIBLE METALLIC CONDUIT IS ACCEPTABLE FOR FINAL FOUR FEET TO EQUIPMENT ELECTRICAL ENCLOSURES.
3. REMOVE EXISTING 175A CIRCUIT BREAKER SERVING RUNWAY 9-27 CCR AND FURNISH AND INSTALL A 125A/2P 240V CIRCUIT BREAKER TO SERVE THE NEW CCR.

1 ELECTRICAL VAULT LAYOUT
E200 SCALE: NTS

CONSULTANT:

ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLCOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."
LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
D.A.B.			
DRAWN:			
D.A.B.			
CHECKED:			
C.M.D.			
APPROVED:			
C.M.D.			

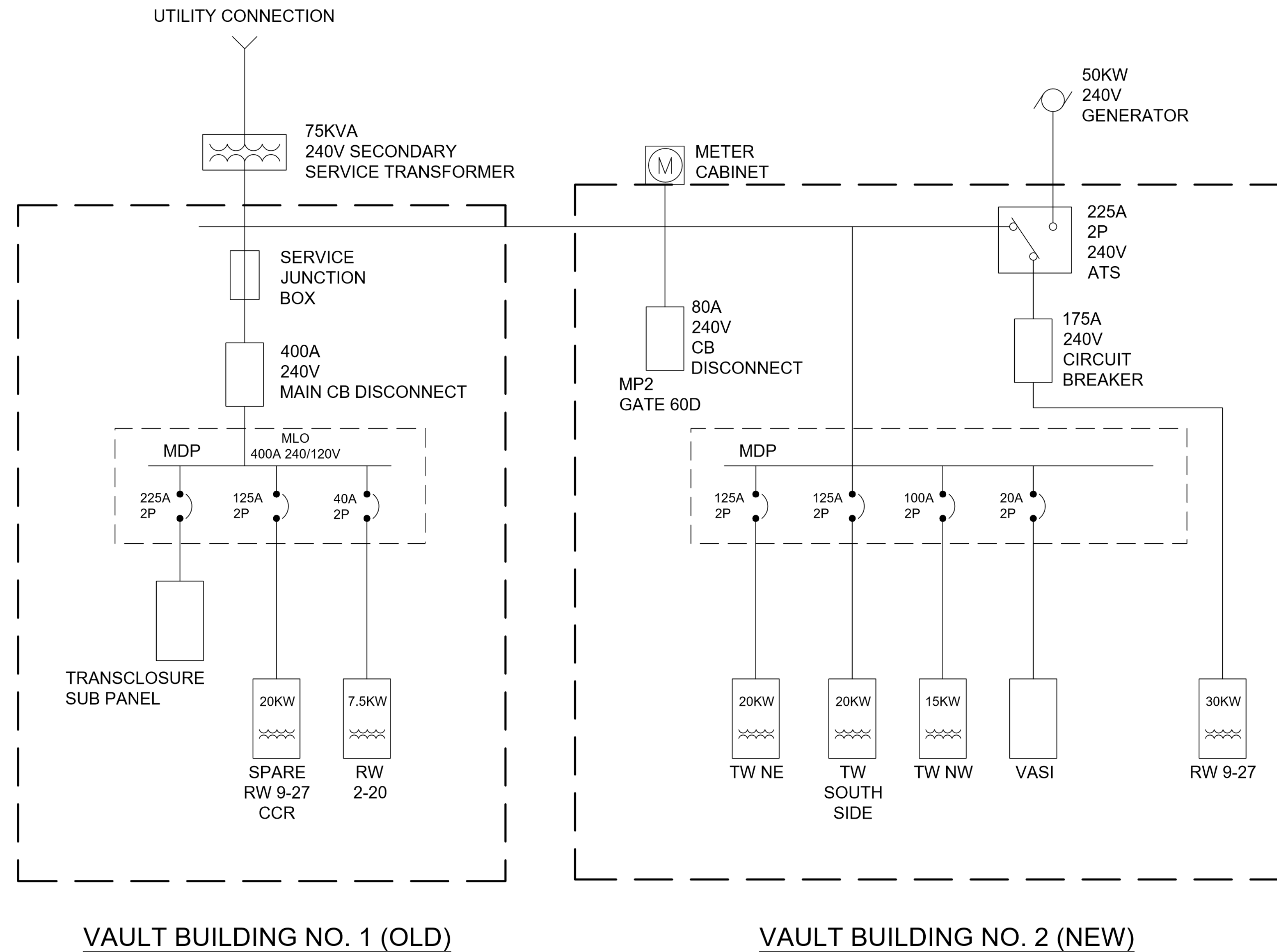
Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE:	ELECTRICAL VAULT
SCALE:	N.T.S.
DATE:	SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.: **E200**

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Vault Building No. 1 (OLD)

Vault Building No. 2 (NEW)

CONSULTANT:

ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410.465.9600
 FAX: 410.465.9602

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 EXPIRATION DATE: 5/24/2024

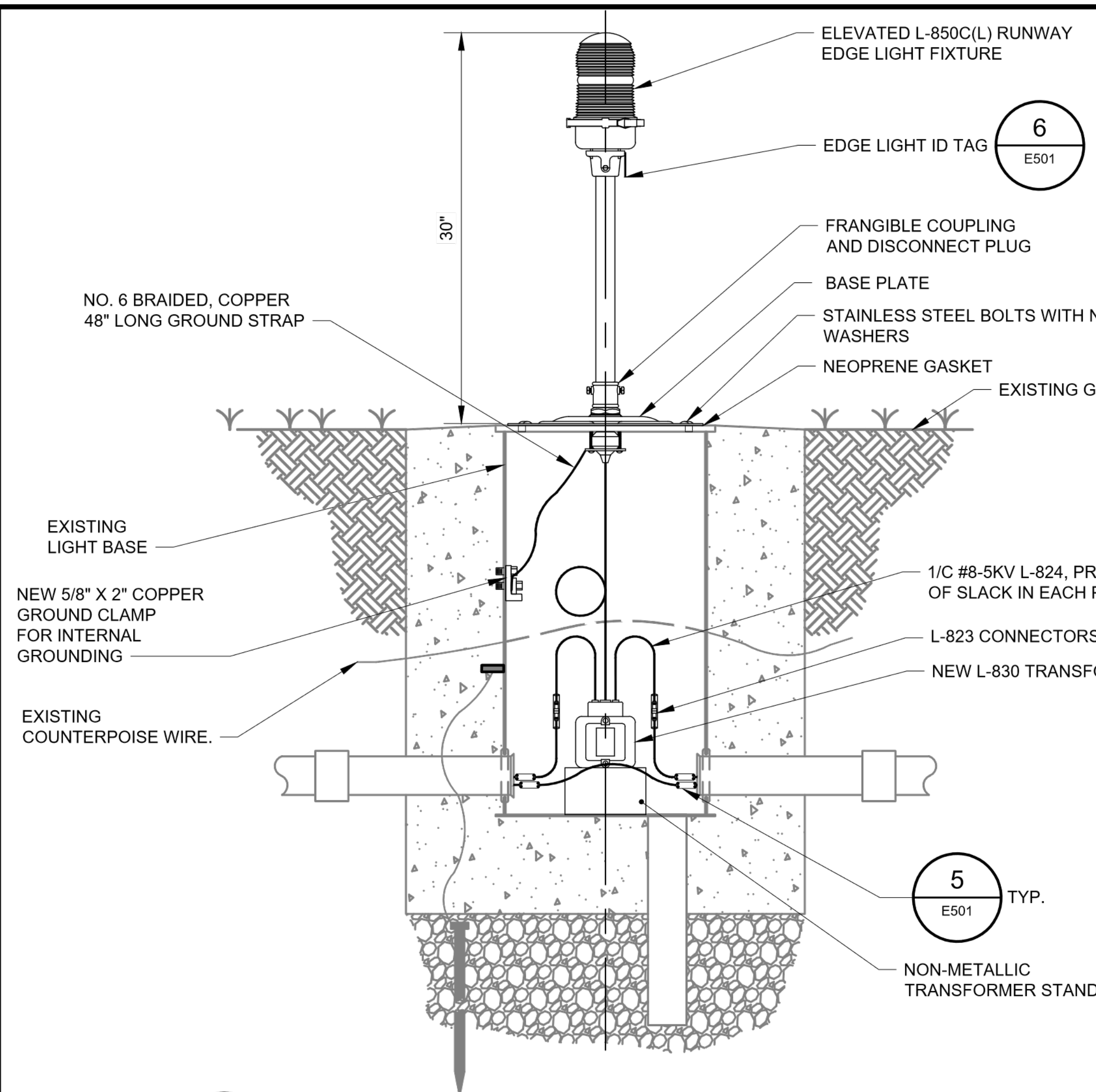
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C.M.D.			
APPROVED:			
C.M.D.			

BID DOCUMENTS

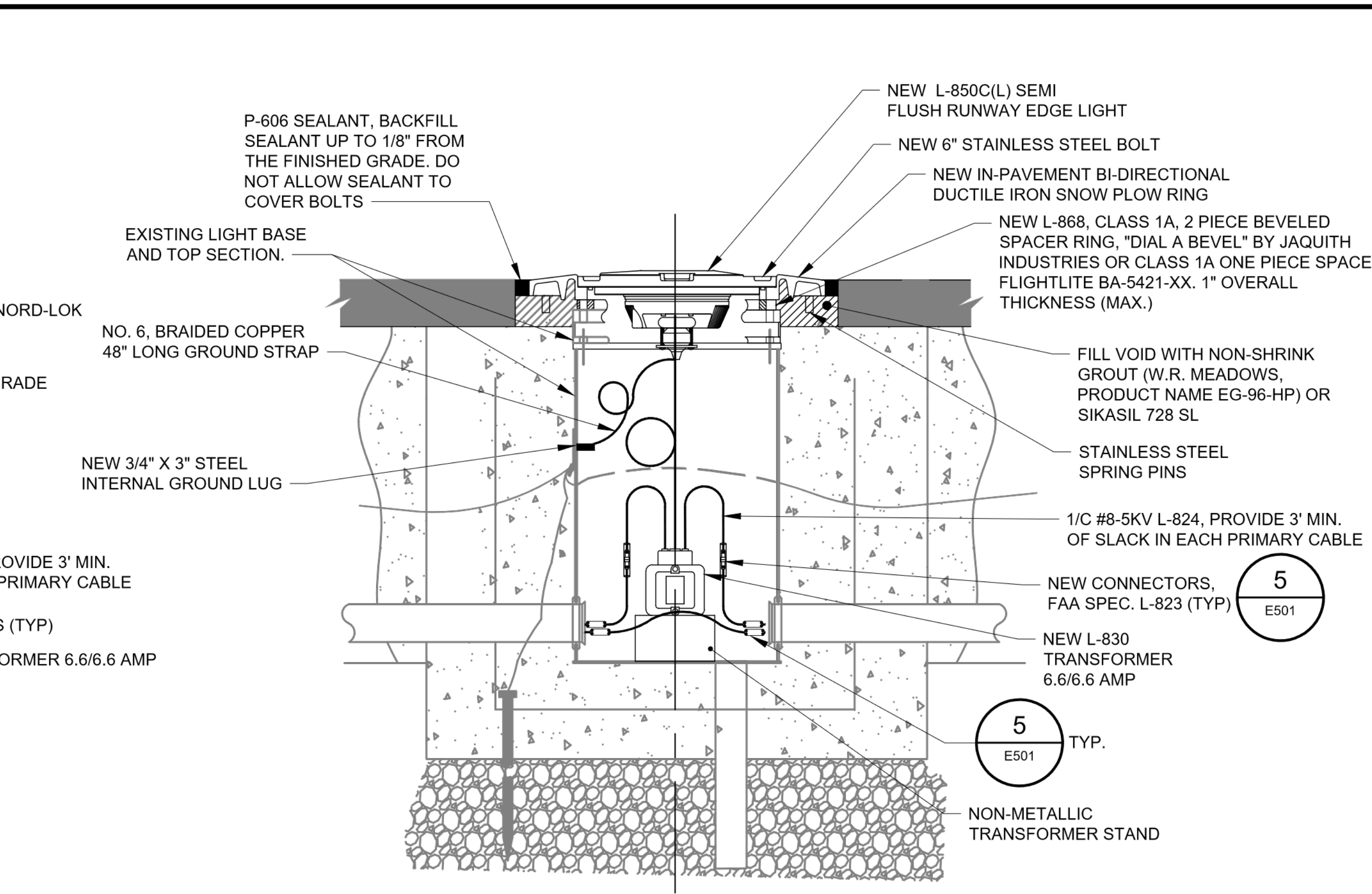
Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	ELECTRICAL VAULT - ONE LINE DIAGRAM	
SCALE:	N.T.S.	DATE: SEPTEMBER 2023

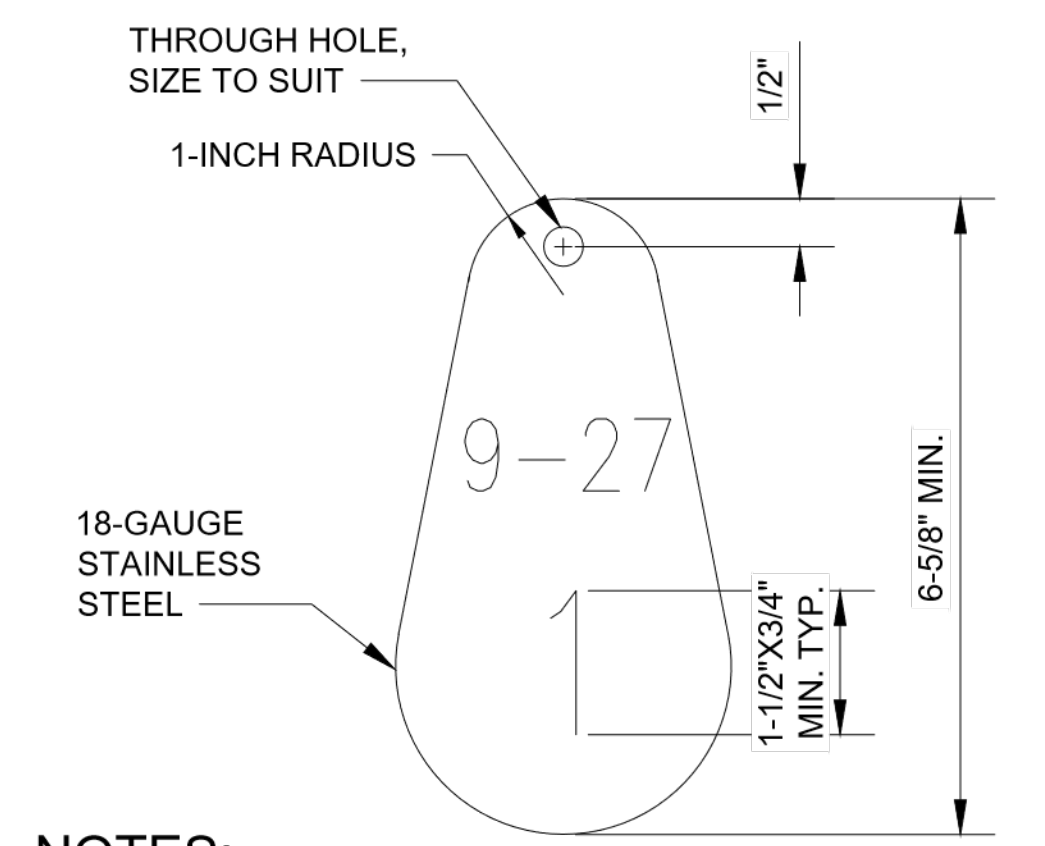
FAA AIP No.: 3-24-0019-071-2023 Bid No.: PUR-1635
SHEET NO.: E201
24 OF 39



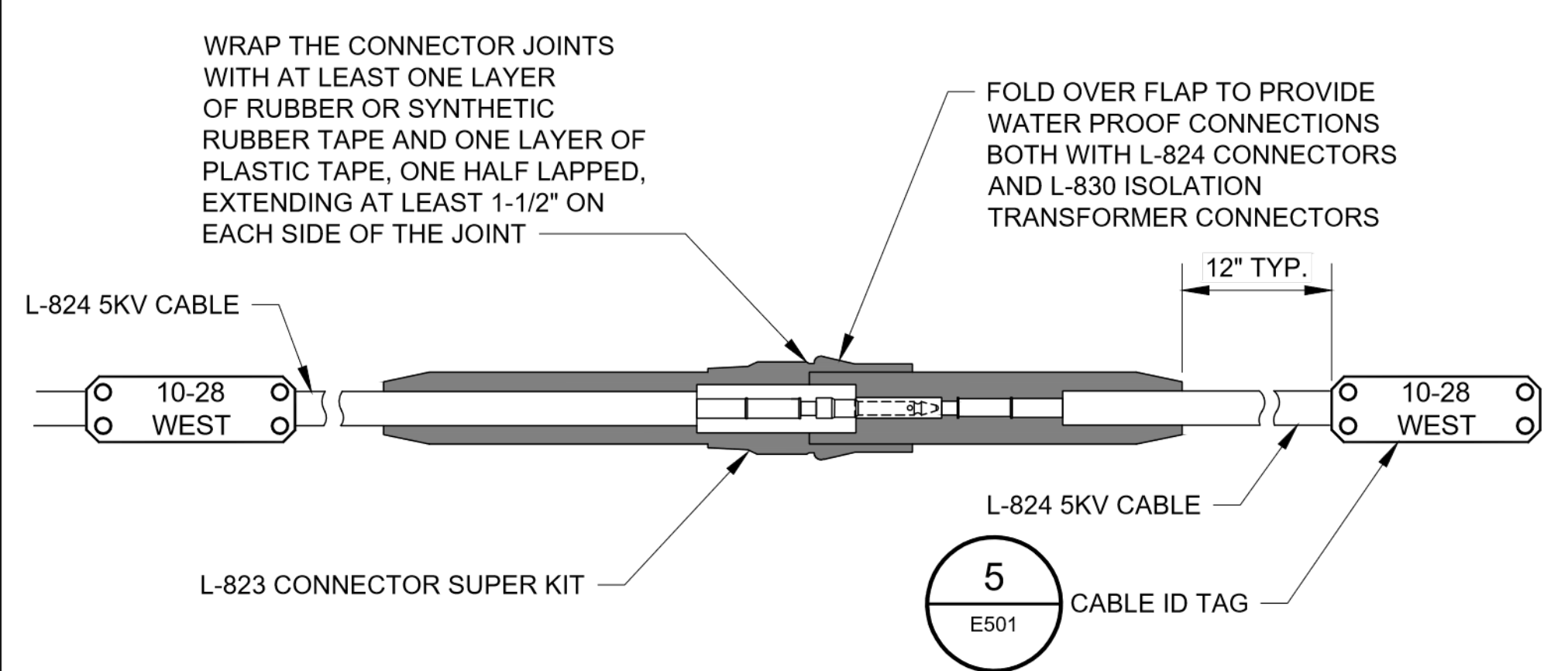
1 INSTALLATION OF ELEVATED EDGE LIGHT ON EXISTING BASE
E501 SCALE: NTS



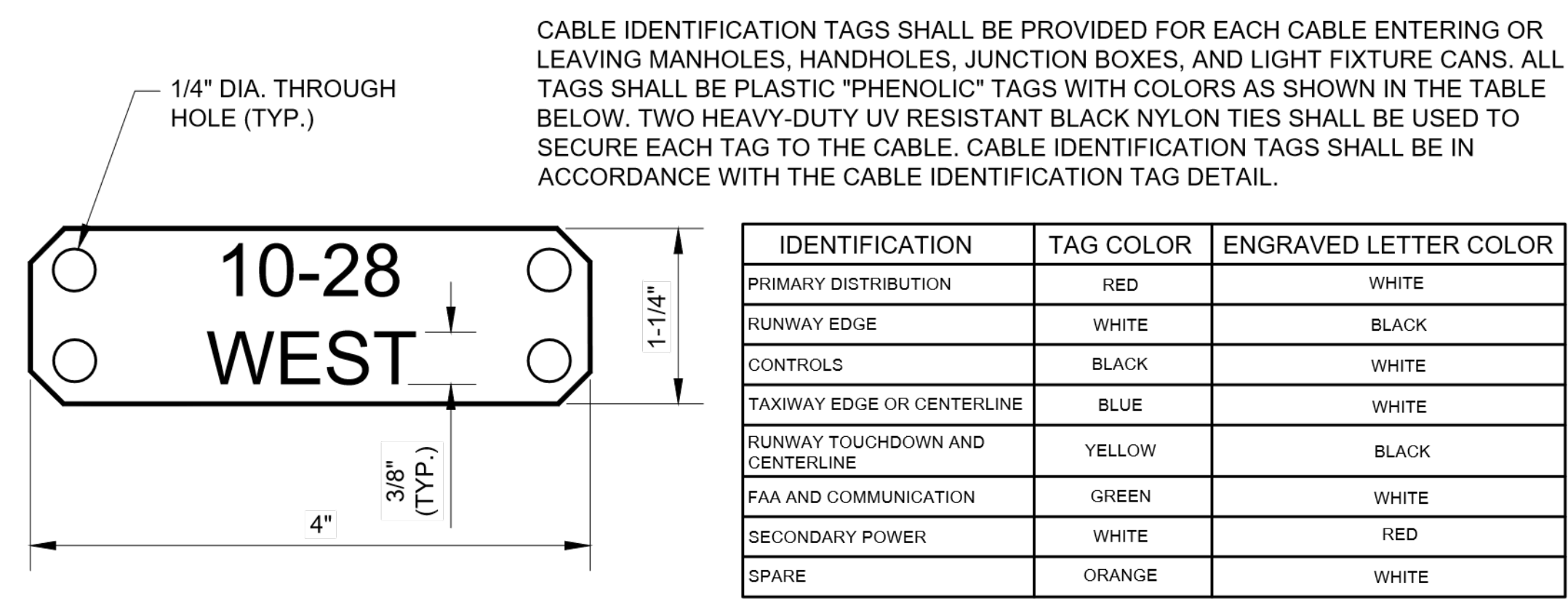
2 INSTALLATION OF SEMI-FLUSH EDGE LIGHT ON EXISTING BASE
E501 SCALE: NTS



3 FIXTURE ID TAG
E501 SCALE: NTS

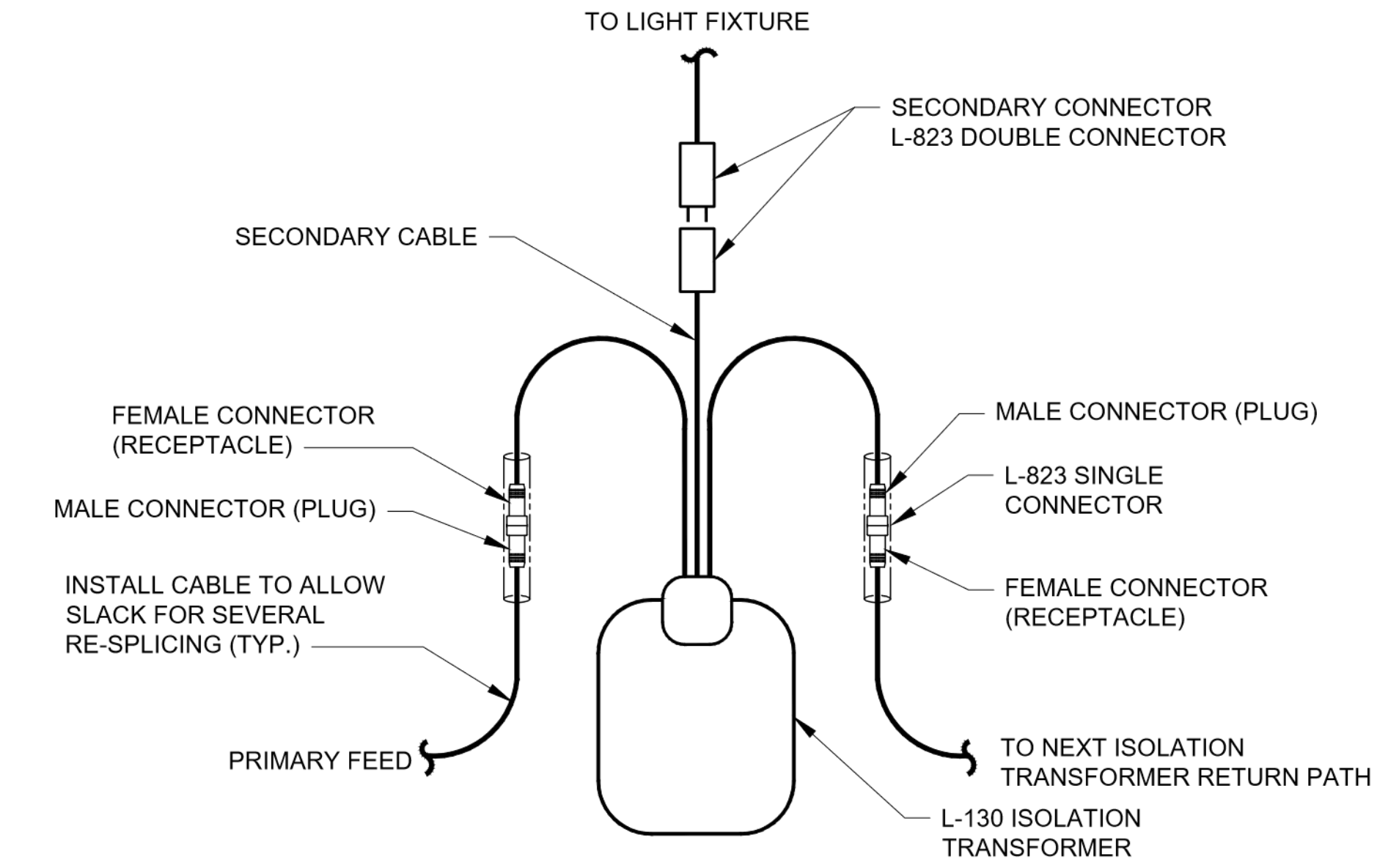


4 L-823 CABLE CONNECTOR
E501 SCALE: NTS



5 CABLE IDENTIFICATION TAG
E501 SCALE: NTS

IDENTIFICATION	TAG COLOR	ENGRAVED LETTER COLOR
PRIMARY DISTRIBUTION	RED	WHITE
RUNWAY EDGE	WHITE	BLACK
CONTROLS	BLACK	WHITE
TAXIWAY EDGE OR CENTERLINE	BLUE	WHITE
RUNWAY TOUCHDOWN AND CENTERLINE	YELLOW	BLACK
FAA AND COMMUNICATION	GREEN	WHITE
SECONDARY POWER	WHITE	RED
SPARE	ORANGE	WHITE



6 ISOLATION TRANSFORMER CONNECTION DETAIL
E501 SCALE: NTS

CONSULTANT:

ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD., SUITE 330
ELLICOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:

STATE OF MARYLAND
Charles Dennis
PROFESSIONAL ENGINEER
LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."
LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

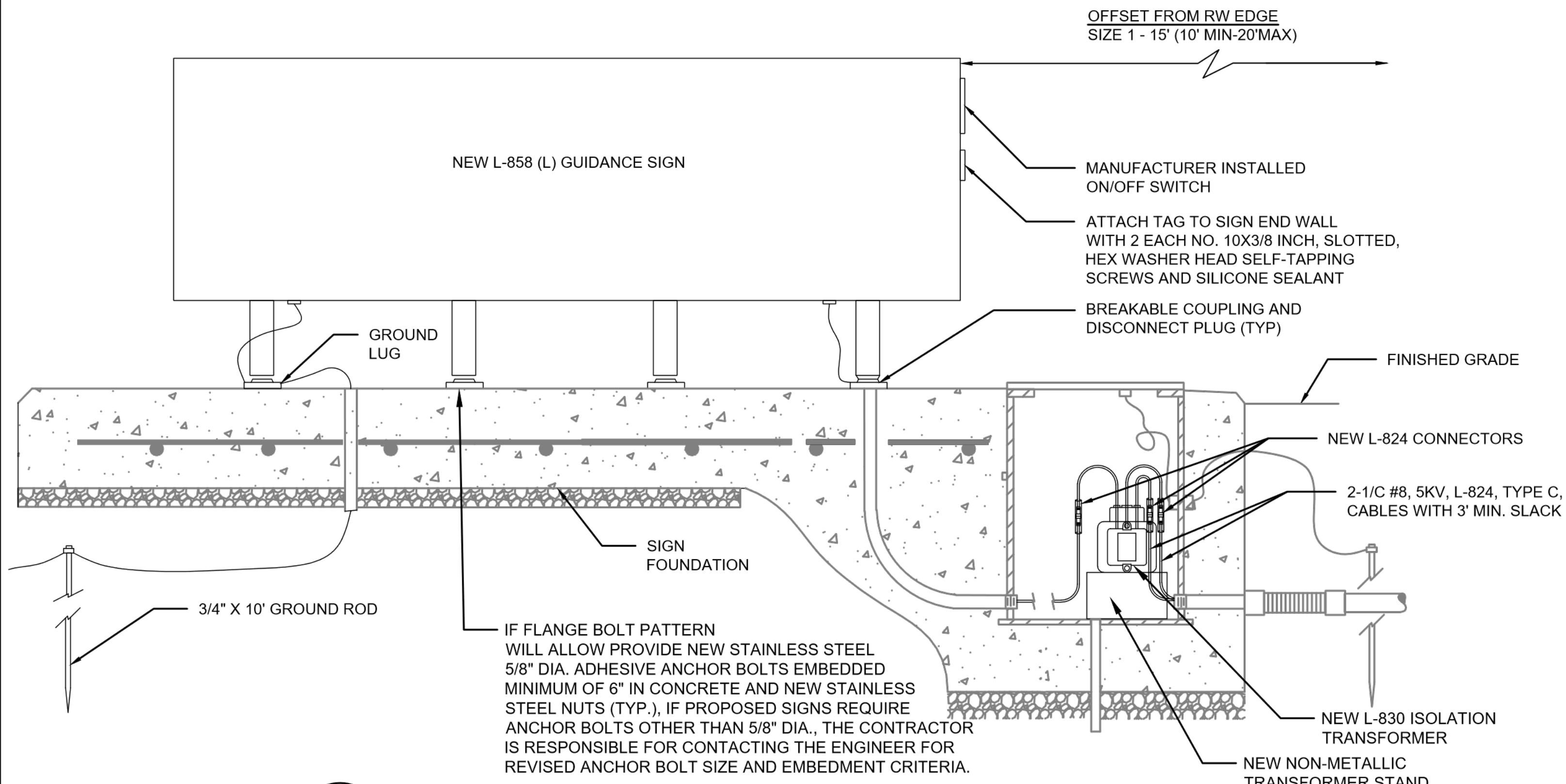
DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
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Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

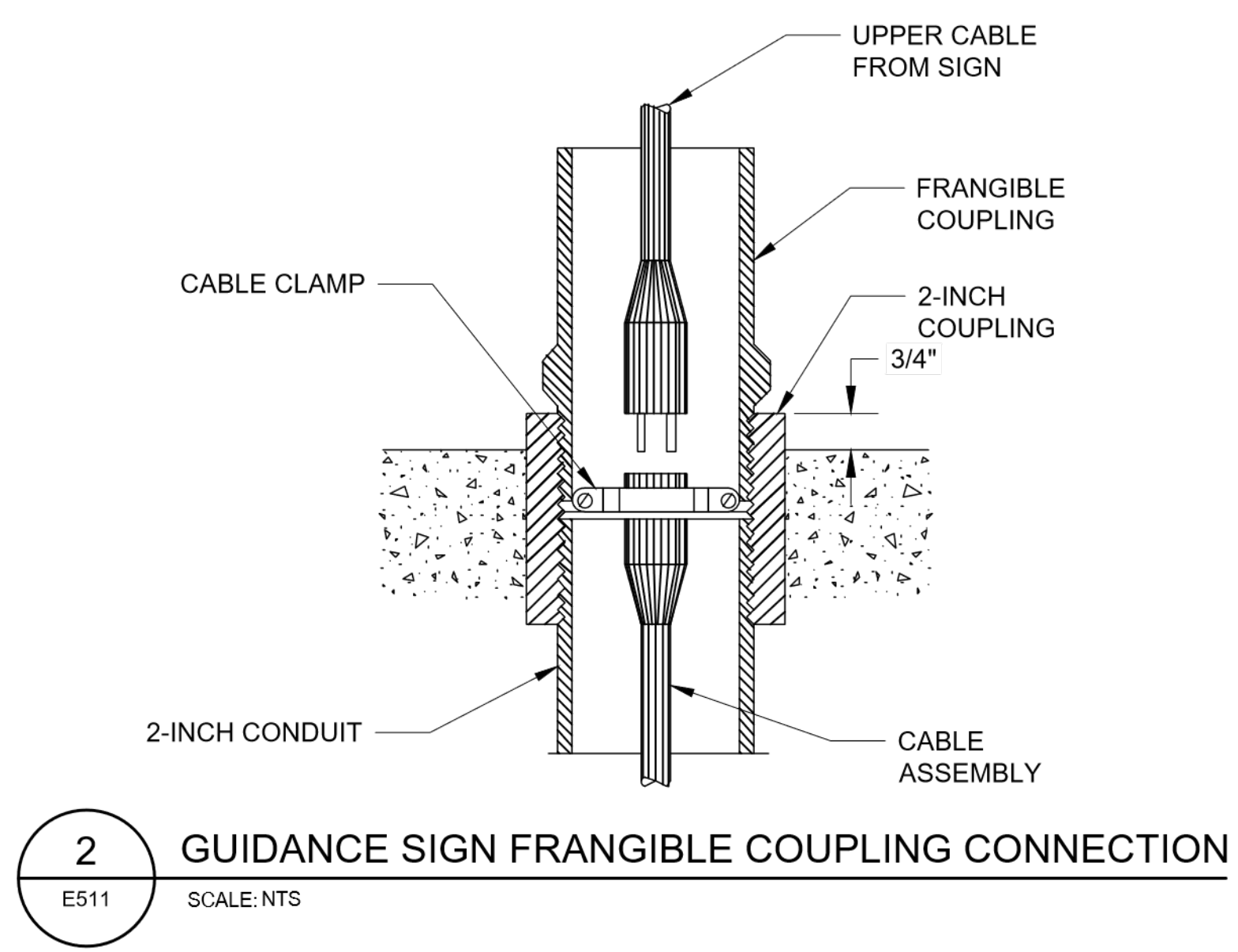
PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE:	ELECTRICAL DETAILS
SCALE:	N.T.S.
DATE:	SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.:
E501
25 OF 39

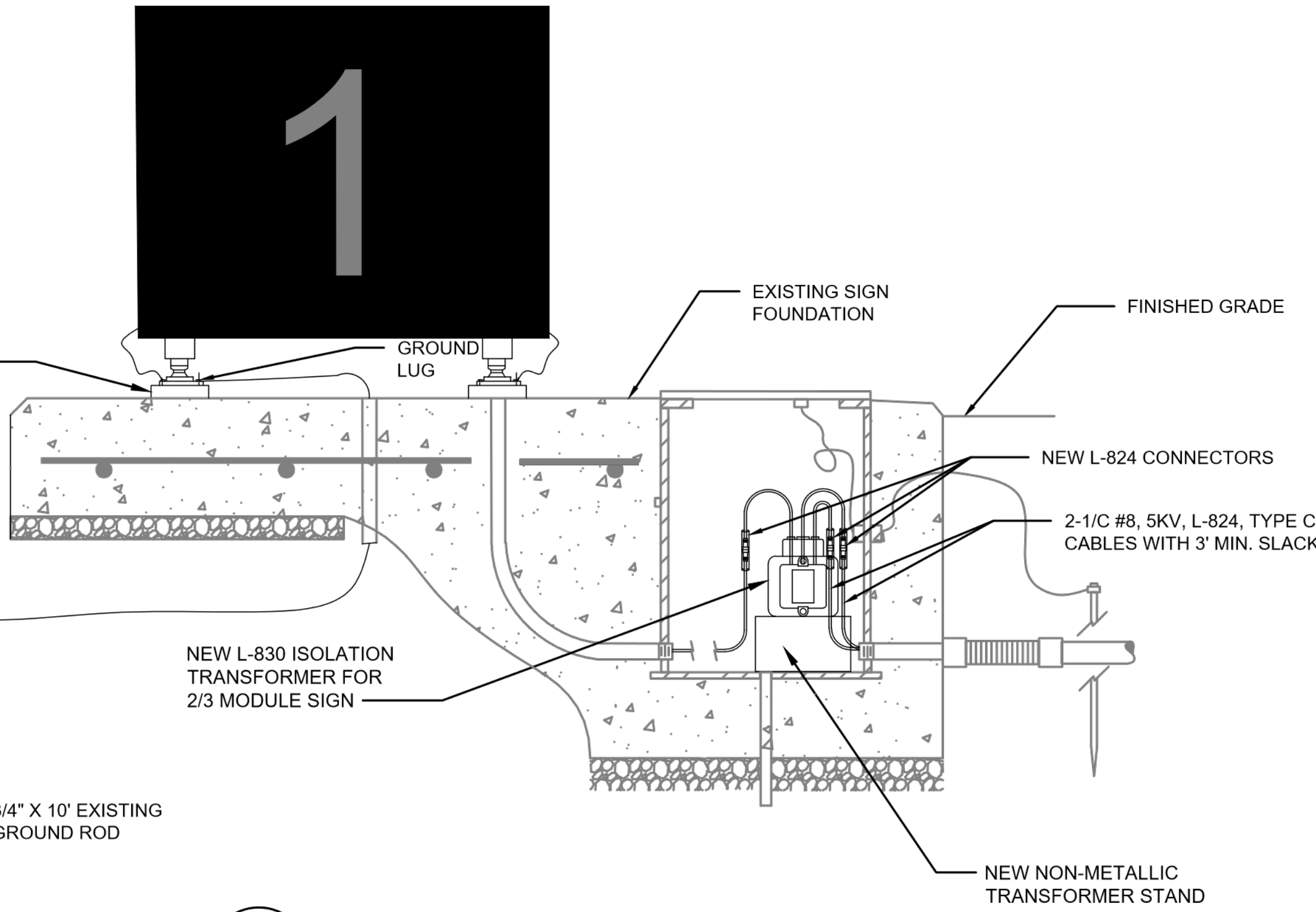


1 DETAIL - NEW AIRFIELD GUIDANCE SIGN ON EXISTING FOUNDATION
E511 SCALE: NTS



2 GUIDANCE SIGN FRANGIBLE COUPLING CONNECTION
E511 SCALE: NTS

USE EXISTING BOLTS, IF FLANGE BOLT PATTERN WILL ALLOW PROVIDE NEW STAINLESS STEEL 5/8\" DIA. ADHESIVE ANCHOR BOLTS EMBEDDED MINIMUM OF 6\" IN CONCRETE AND NEW STAINLESS STEEL NUTS (TYP.), IF PROPOSED SIGNS REQUIRE ANCHOR BOLTS OTHER THAN 5/8\" DIA., THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE RPR FOR REVISED ANCHOR BOLT SIZE AND EMBEDMENT CRITERIA.



3 NEW AIRFIELD GUIDANCE SIGN ON EXISTING FOUNDATION
E511 SCALE: NTS

CONSULTANT:
ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLCOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:
STATE OF MARYLAND
Professional Engineer
9/20/23

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"
LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

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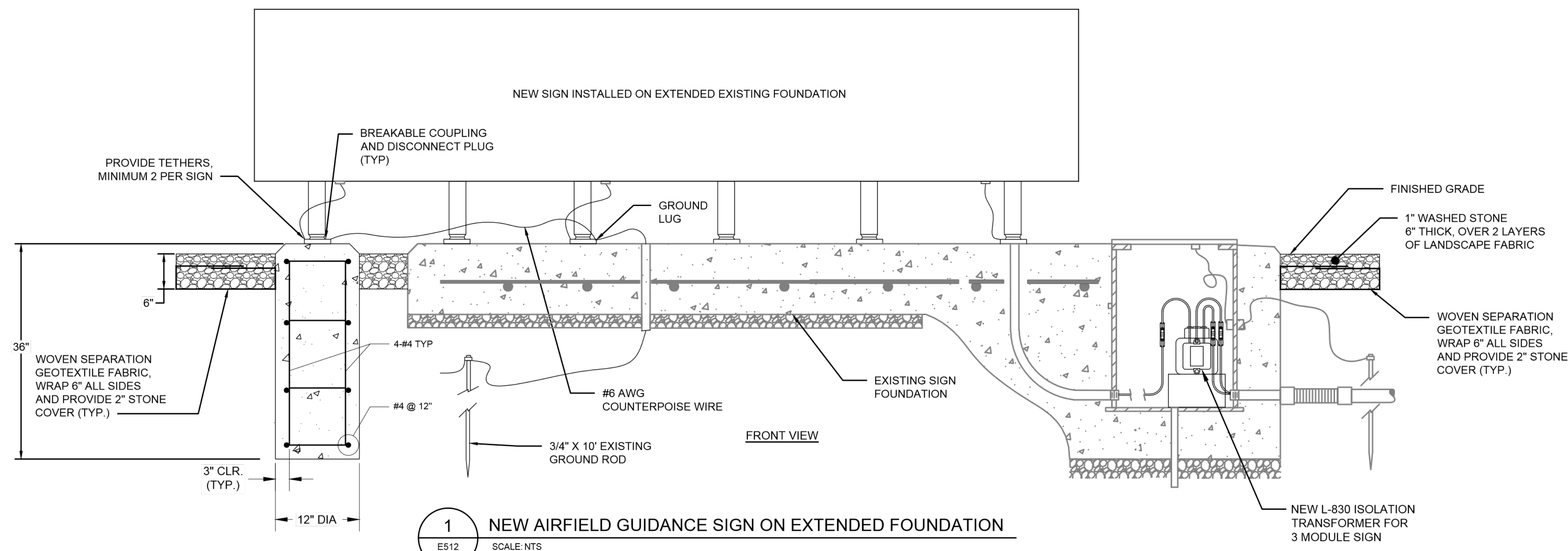
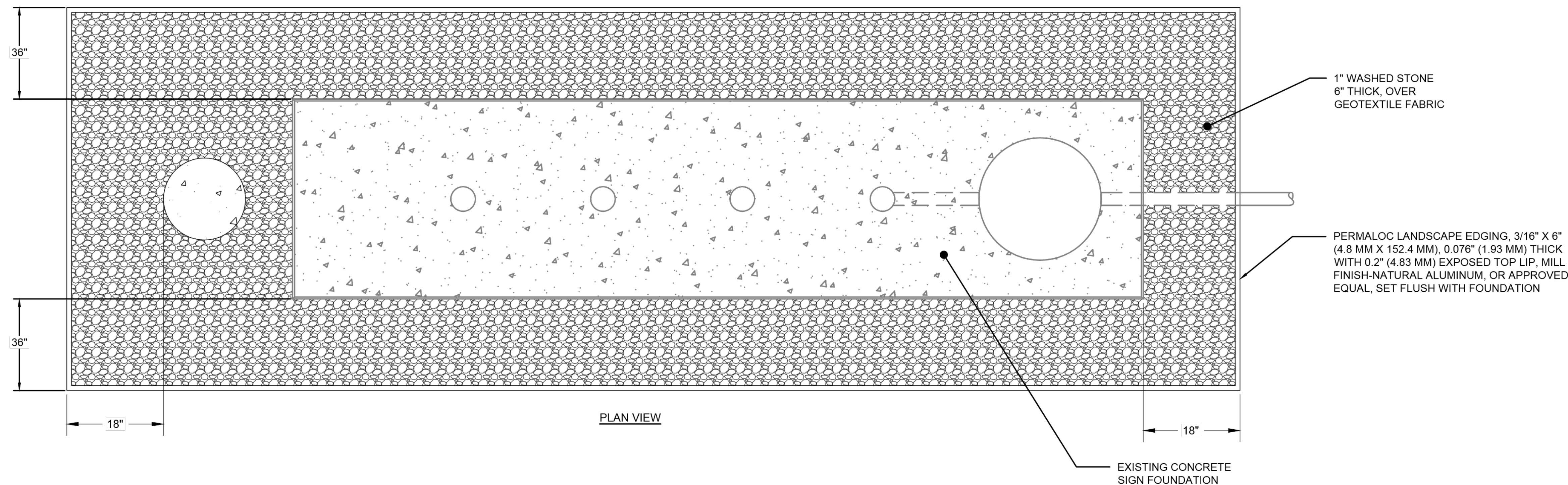
Washington County, MD
HAGERSTOWN REGIONAL AIRPORT
HGR

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE:	ELECTRICAL SIGN DETAIL - 1
SCALE:	N.T.S.
DATE:	SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635
SHEET NO.: **E511**
26 OF 39

DETAIL NOTES:

1. CONCRETE "SHALL BE HIGH EARLY STRENGTH CONCRETE"
2. REINFORCING SHALL CONFORM TO ASTM A-615, GRADE 60.
3. COORDINATE GUIDANCE SIGN EXPANSION AREAS WHERE OBSTRUCTIONS PROHIBITING PROPER INSTALLATION EXIST. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO DRAINAGE DITCHES, DRAINAGE STRUCTURES, AND AIRFIELD ELECTRICAL EQUIPMENT. FINAL GUIDANCE SIGN LOCATION SHALL BE APPROVED BY THE RPR PRIOR TO INSTALLATION.



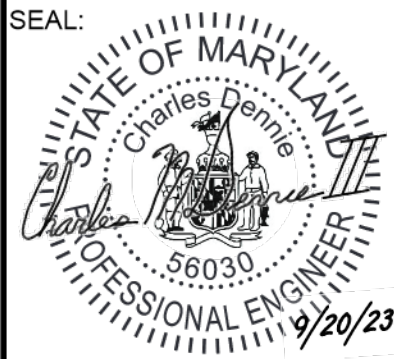
1 NEW AIRFIELD GUIDANCE SIGN ON EXTENDED FOUNDATION
E512 SCALE: NTS

CONSULTANT:



ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLCOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:



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EXPIRATION DATE: 5/24/2024

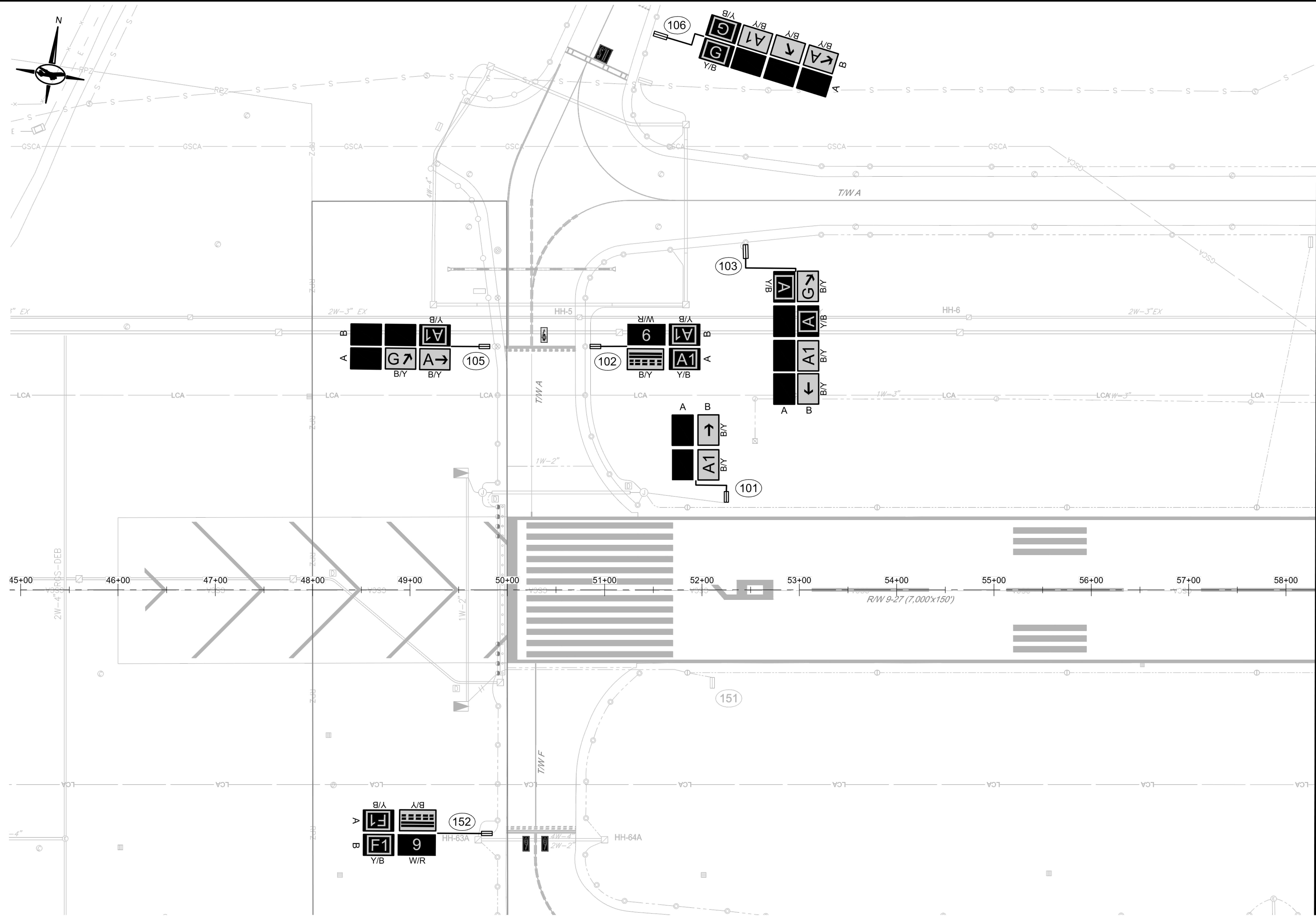
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C.M.D.			

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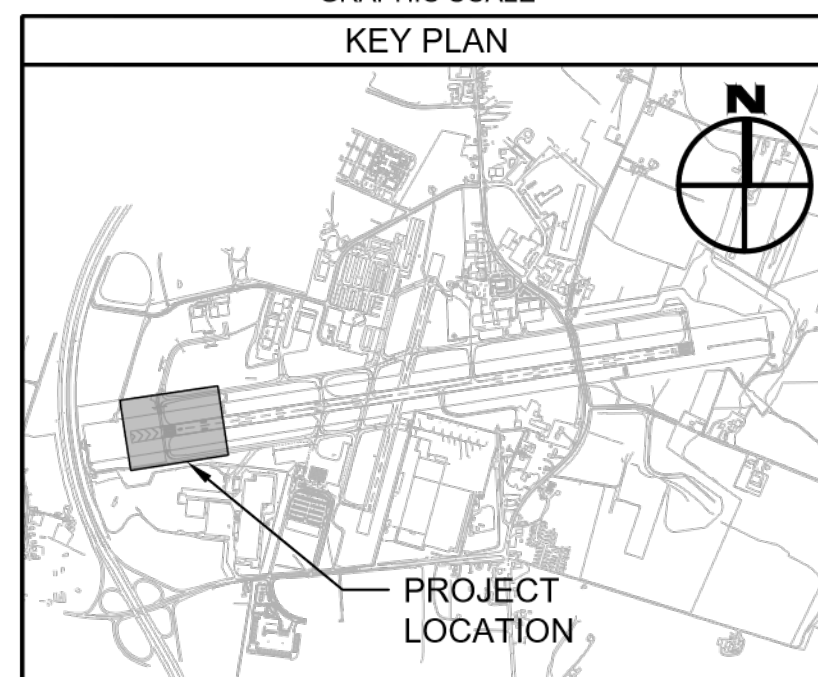
Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT		FAA AIP No.: 3-24-0019-071-2023 Bid No.: PUR-1635
SHEET TITLE:	ELECTRICAL SIGN DETAIL - 2		SHEET NO.: E512
SCALE:	N.T.S.	DATE:	SEPTEMBER 2023
			27 OF 39



- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

MATCH LINE - SEE SHEET E601



CONSULTANT:

ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
 FAX: 410 465 9602

SEAL:

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 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

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C.M.D.			
APPROVED:			
C.M.D.			

BID DOCUMENTS

Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	SIGN PLAN 1	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

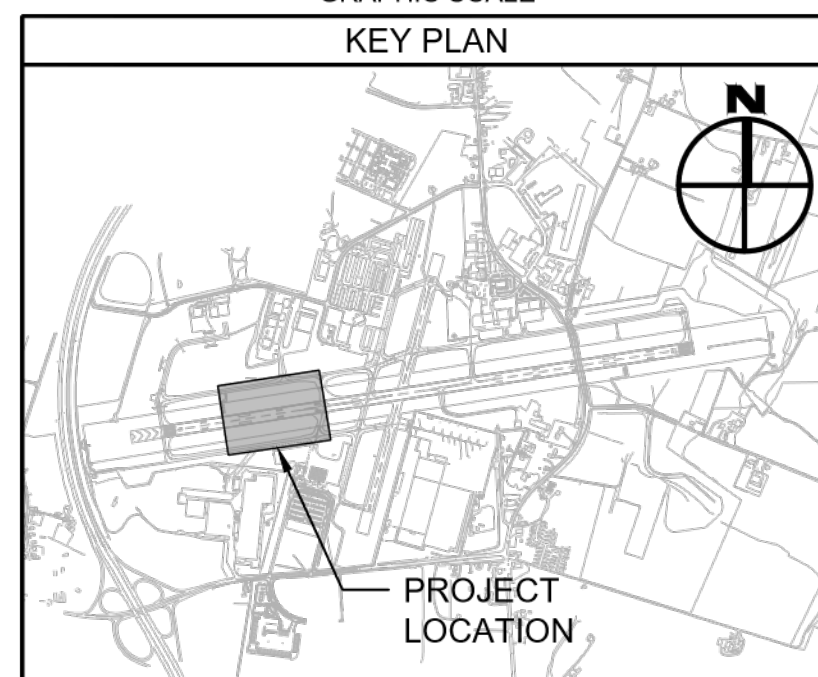
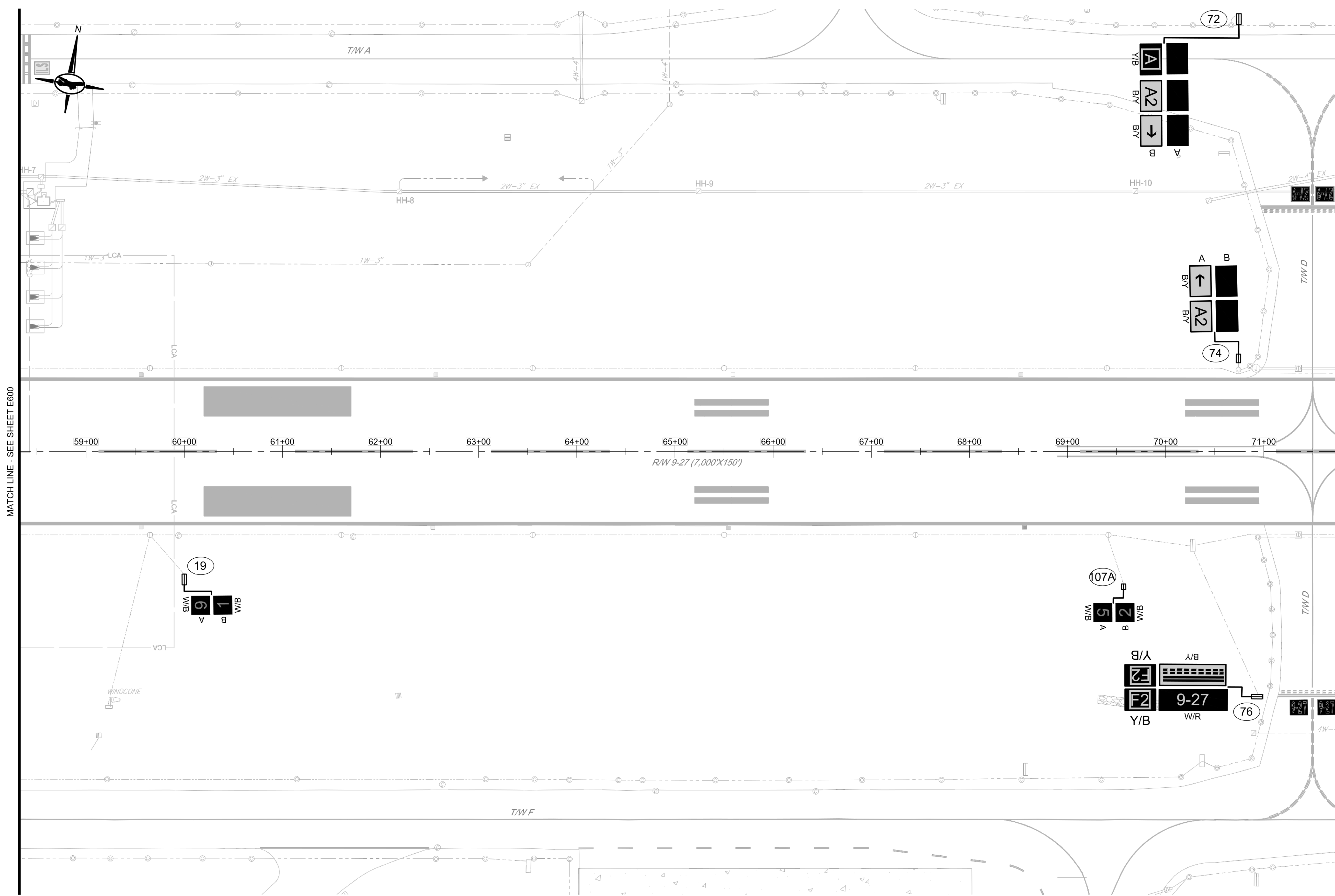
SHEET NO.: **E600**
 28 OF 39

GENERAL NOTES:

1. SEE SHEET E001 FOR GENERAL NOTES.
2. SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
3. SEE SHEETS E501 FOR ELECTRICAL DETAILS.
4. SEE SHEETS E511, E512 FOR SIGN DETAILS.
5. SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

MATCH LINE - SEE SHEET E600

MATCH LINE - SEE SHEET E602



CONSULTANT:

ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410.465.9600
 FAX: 410.465.9602

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D.A.B.			
C.M.D.			
C.M.D.			

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Washington County, MD
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PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE: SIGN PLAN 2	
SCALE: AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

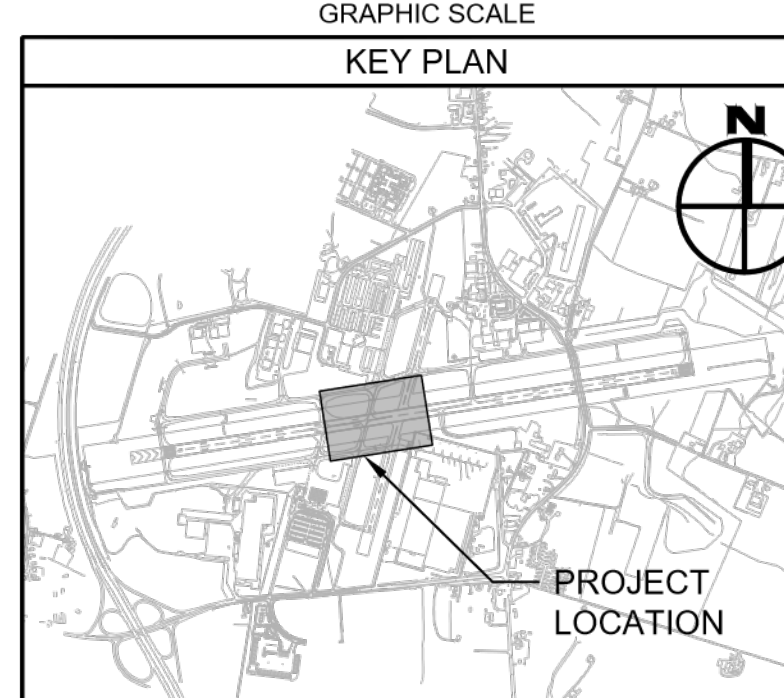
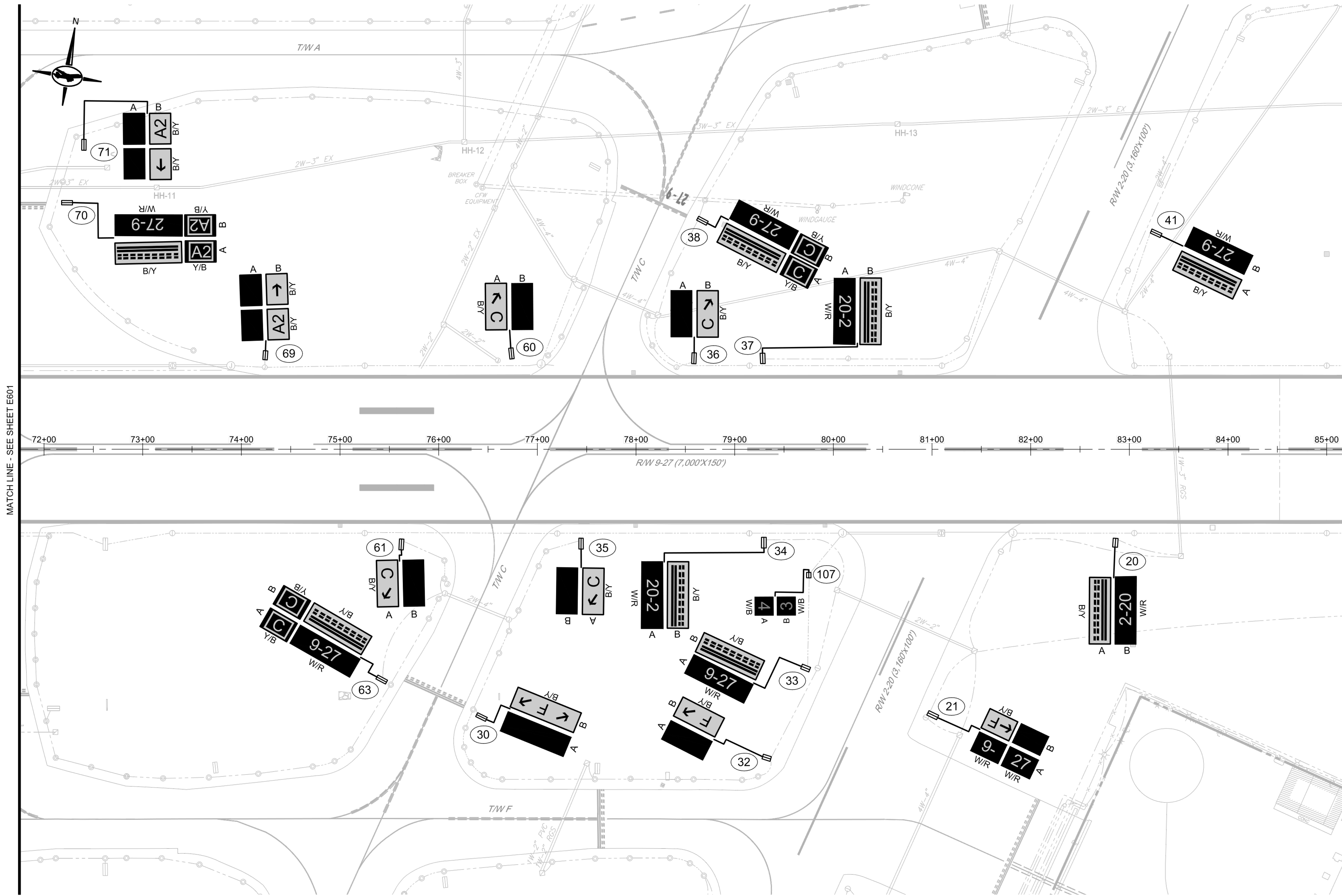
SHEET NO.: E601
 29 OF 39

GENERAL NOTES:

1. SEE SHEET E001 FOR GENERAL NOTES.
2. SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
3. SEE SHEETS E501 FOR ELECTRICAL DETAILS.
4. SEE SHEETS E511, E512 FOR SIGN DETAILS.
5. SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

MATCH LINE - SEE SHEET E601

MATCH LINE - SEE SHEET E603




CONSULTANT:



ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
 FAX: 410 465 9602

SEAL:



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C.M.D.			

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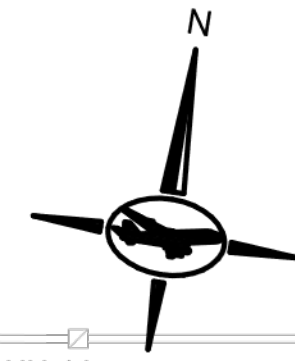


Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE: SIGN PLAN 3	
SCALE: AS SHOWN	DATE: SEPTEMBER 2023

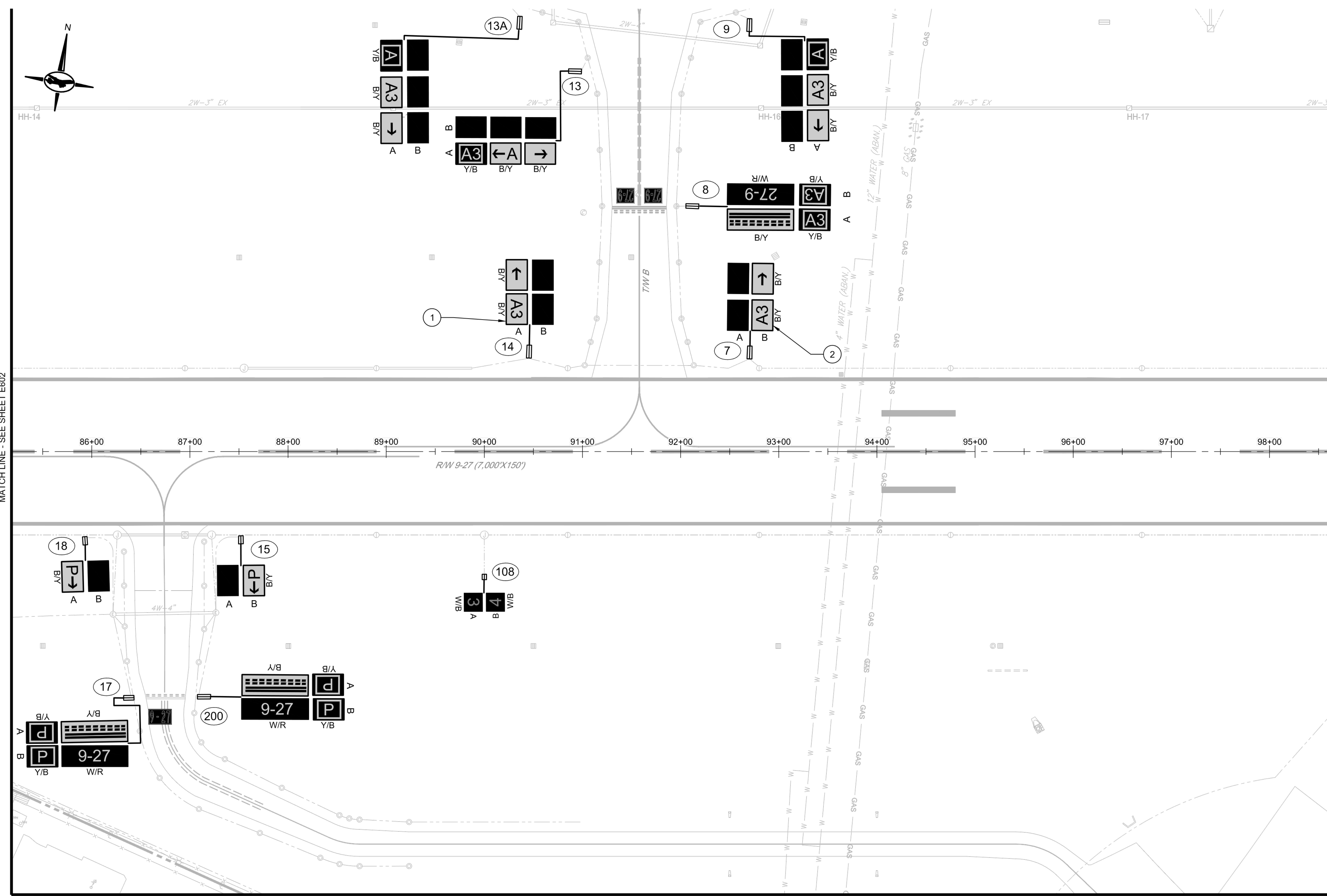
FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.: E602
 30 OF 39



MATCH LINE - SEE SHEET E602

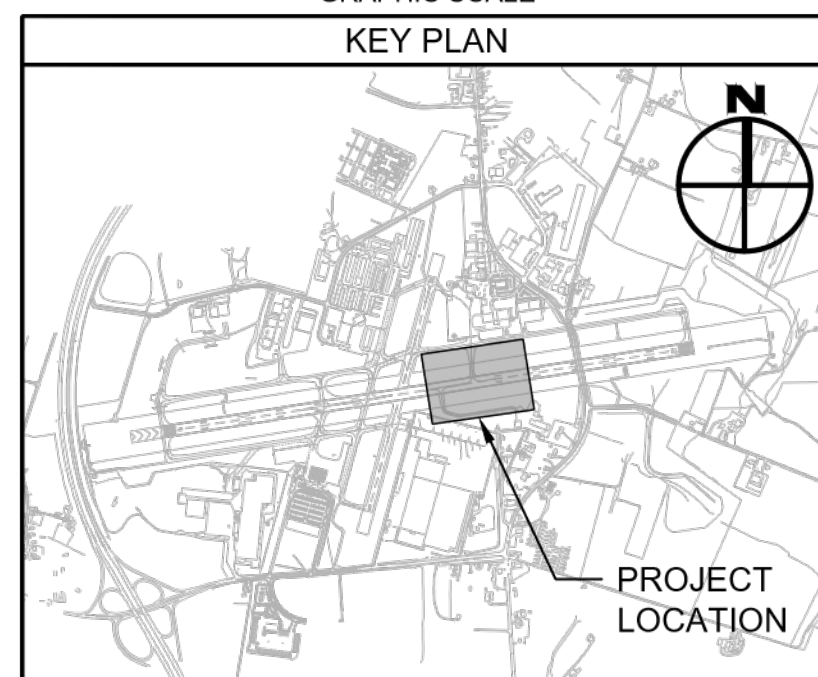
MATCH LINE - SEE SHEET E604



R/W 9-27 (7,000'X150')

- GENERAL NOTES:**
- SEE SHEET E001 FOR GENERAL NOTES.
 - SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 - SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 - SEE SHEETS E511, E512 FOR SIGN DETAILS.
 - SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES

- DRAWING NOTES:**
- CONTRACTOR TO TURN OVER TO AIRPORT MAINTENANCE FOR INSTALLATION ON SIGN 12
 - CONTRACTOR TO TURN OVER TO AIRPORT MAINTENANCE FOR INSTALLATION ON SIGN 11A




MATCH LINE - SEE SHEET E606

CONSULTANT:



ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD., SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
 FAX: 410 465 9602

SEAL:



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APPROVED:			
C.M.D.			

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Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

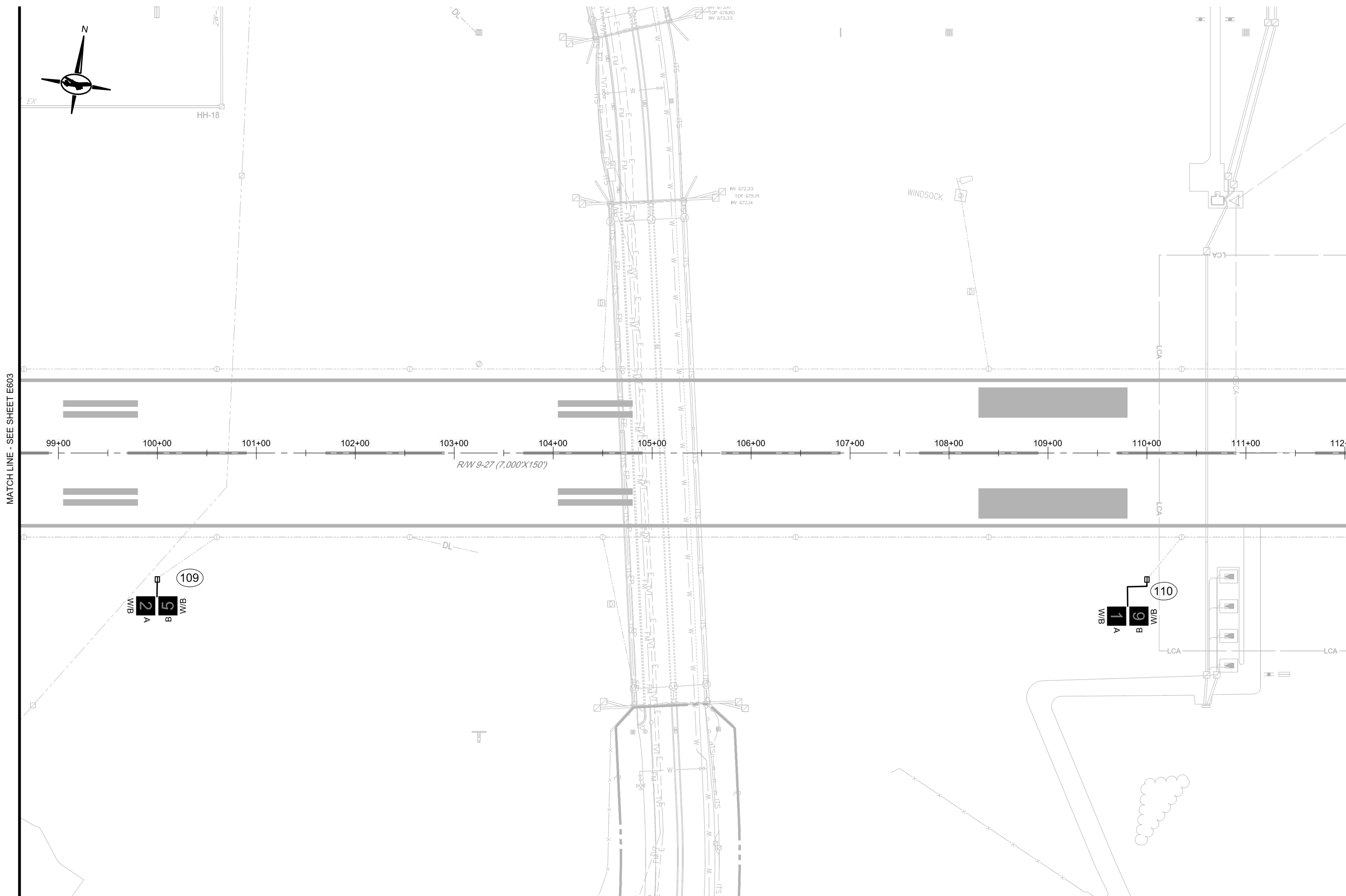
PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	SIGN PLAN 4	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.: **E603**
 31 OF 39

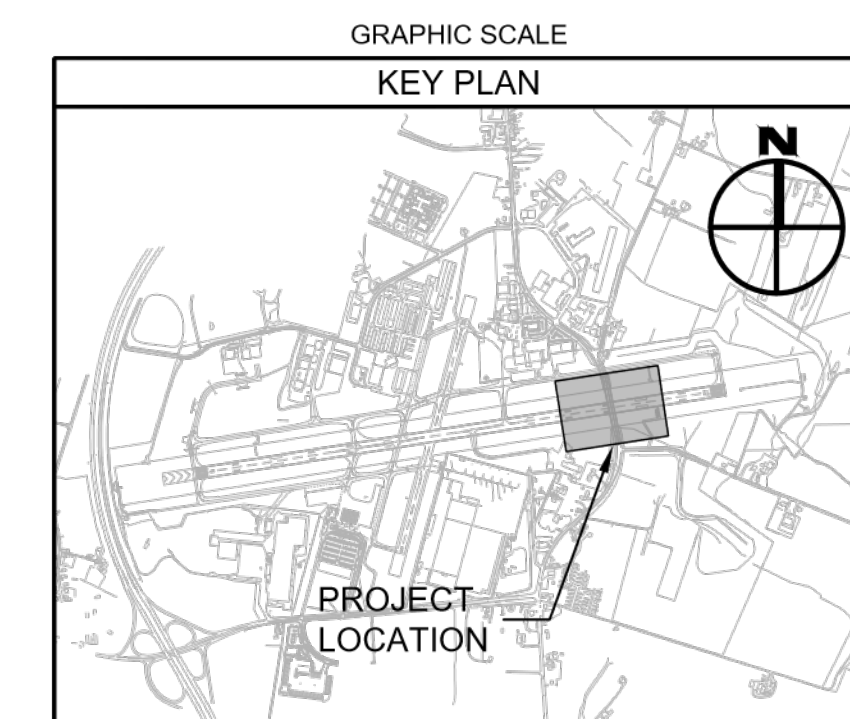
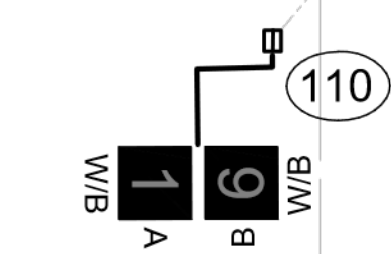
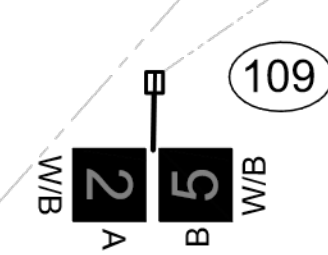
GENERAL NOTES:

1. SEE SHEET E001 FOR GENERAL NOTES.
2. SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
3. SEE SHEETS E501 FOR ELECTRICAL DETAILS.
4. SEE SHEETS E511, E512 FOR SIGN DETAILS.
5. SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES



MATCH LINE - SEE SHEET E603

MATCH LINE - SEE SHEET E605



CONSULTANT:

ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
 FAX: 410 465 9602

SEAL:

PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
D.A.B.			
DRAWN:			
D.A.B.			
CHECKED:			
C.M.D.			
APPROVED:			
C.M.D.			

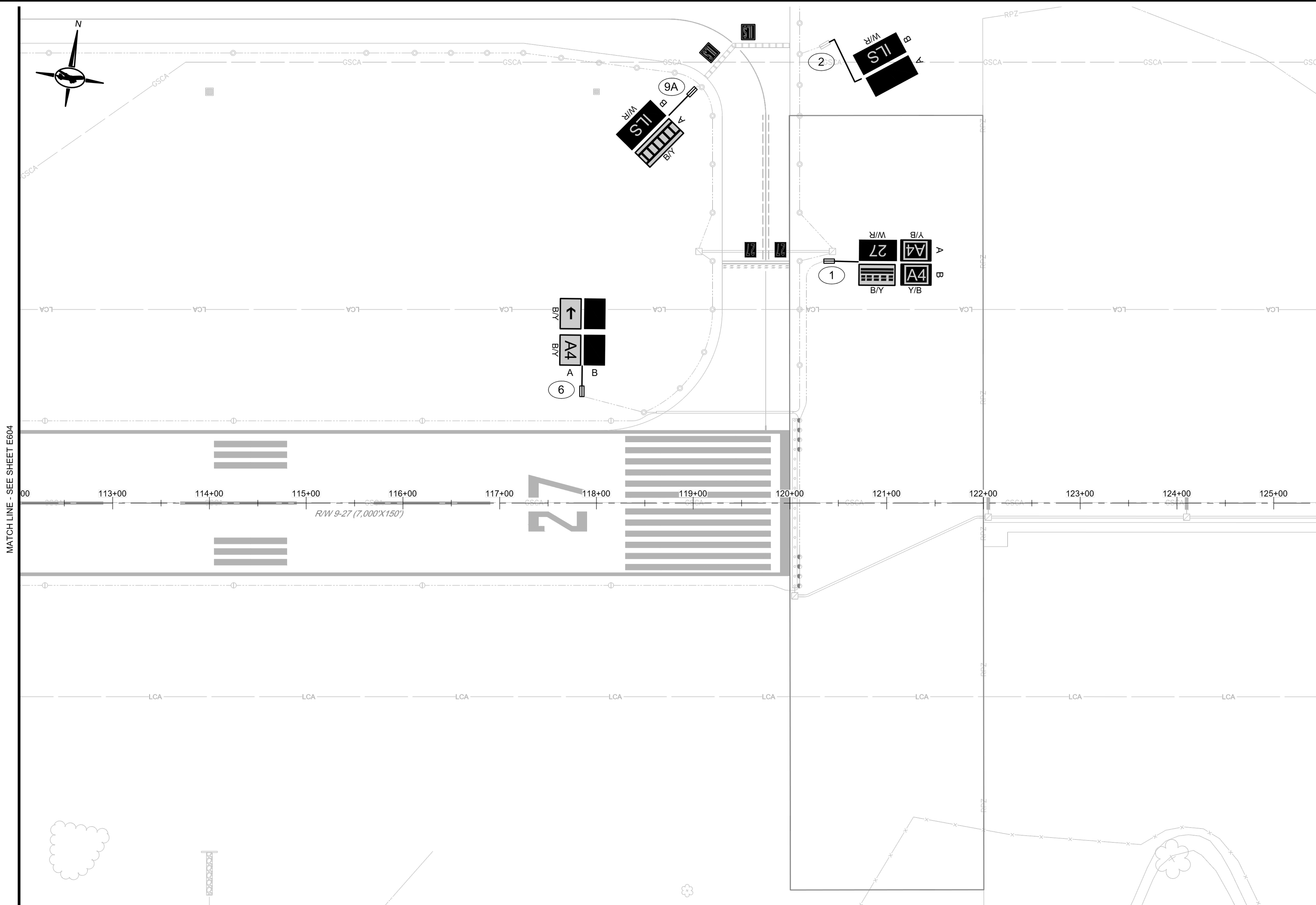
BID DOCUMENTS

Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

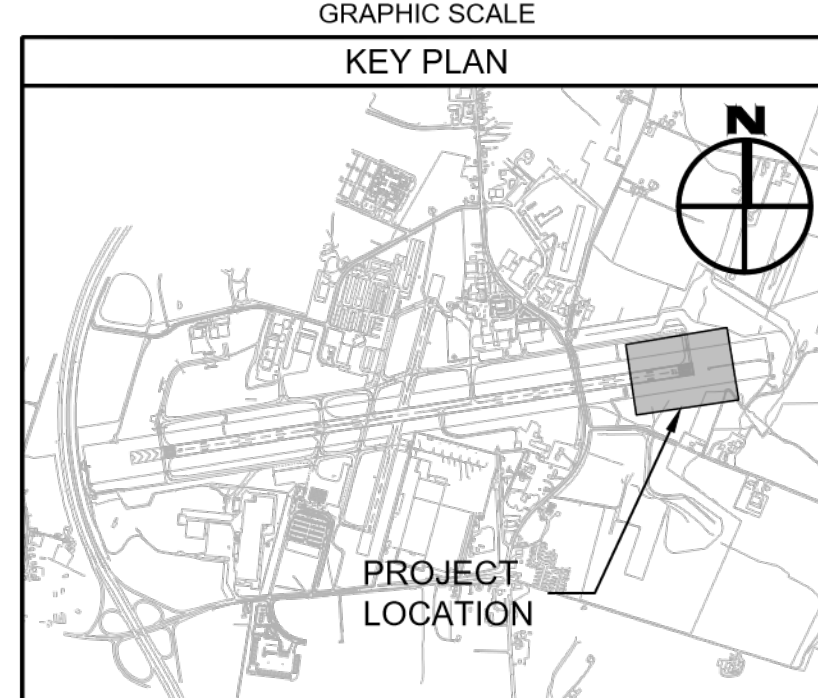
PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT		FAA AIP No.: 3-24-0019-071-2023 Bid No.: PUR-1635
SHEET TITLE: SIGN PLAN 5		SHEET NO.: E604
SCALE: AS SHOWN	DATE: SEPTEMBER 2023	32 OF 39

GENERAL NOTES:

1. SEE SHEET E001 FOR GENERAL NOTES.
2. SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
3. SEE SHEETS E501 FOR ELECTRICAL DETAILS.
4. SEE SHEETS E511, E512 FOR SIGN DETAILS.
5. SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES



MATCH LINE - SEE SHEET E604

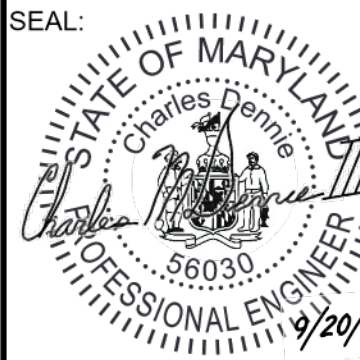


CONSULTANT:



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 ELLICOTT CITY, MD 21043
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 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
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C.M.D.			
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BID DOCUMENTS



Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

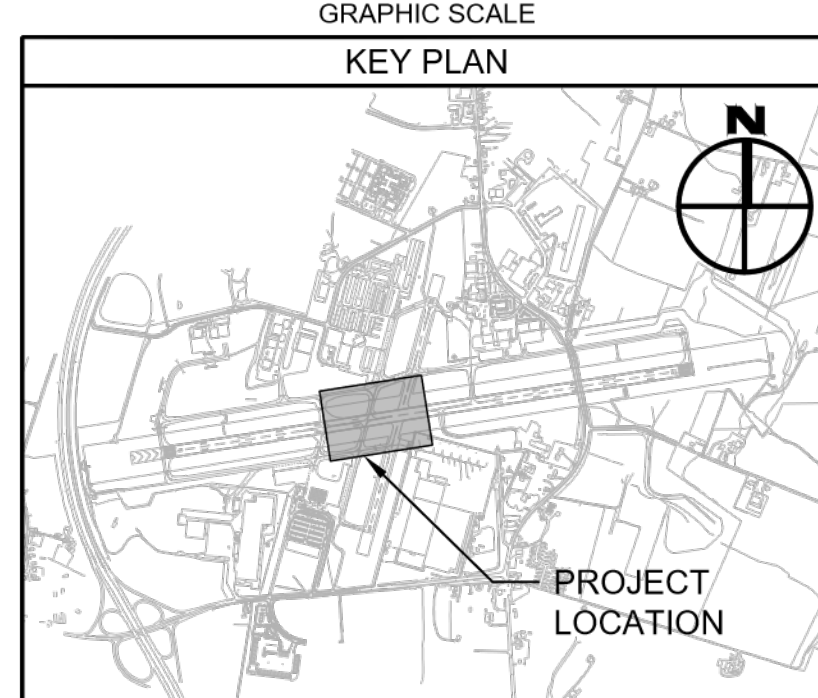
PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	SIGN PLAN 6	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.: **E605**
 33 OF 39



- GENERAL NOTES:**
1. SEE SHEET E001 FOR GENERAL NOTES.
 2. SEE SHEET E002 FOR LEGENDS AND ABBREVIATIONS.
 3. SEE SHEETS E501 FOR ELECTRICAL DETAILS.
 4. SEE SHEETS E511, E512 FOR SIGN DETAILS.
 5. SEE SHEETS E610 THROUGH E614 FOR SIGN SCHEDULES



CONSULTANT:

ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
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 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

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DRAWN:			
D.A.B.			
CHECKED:			
C.M.D.			
APPROVED:			
C.M.D.			

BID DOCUMENTS

Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	SIGN PLAN 7	
SCALE:	AS SHOWN	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.:
E606
 34 OF 39

PROPOSED SIGN SCHEDULE

SIGN #	CIRCUIT	EXISTING LEGEND	PROPOSED LEGEND	BASELINE	STATION	OFFSET	SIGN SIZE	SIGN STYLE	PAY ITEM	ORIGINAL EQUIPMENT MANUFACTURER (OEM)
1	RW 9-27			RW 9-27	120+35.00	L 250.00	1	2	L-125-5.6, L-125-5.12	LUMACURVE INCANDESCENT
2	TW A			RW 9-27	120+31.34	L 470.72	1	2	L-125-5.4, L-125-5.12	LUMACURVE INCANDESCENT
6	TW A			RW 9-27	117+85.00	L 110.00	1	2	L-125-5.9, L-125-5.11, L-125-5.12	LUMACURVE INCANDESCENT
7	TW B			RW 9-27	92+70.14	L 94.46	1	2	L-125-5.9, L-125-5.11, L-125-5.12	LUMACURVE LED
8	RW 9-27			RW 9-27	92+05.34	L 250.12	1	2	L-125-5.6, L-125-5.12	LUMACURVE LED
9	TW A			RW 9-27	92+70.29	L 441.13	1	2	L-125-5.6, L-125-5.11, L-125-5.12	LUMACURVE LED
9A	TW A			RW 9-27	119+02.63	L 428.86	1	2	L-125-5.4, L-125-5.12	LUMACURVE INCANDESCENT
13A	TW A			RW 9-27	90+36.22	L 443.43	1	2	L-125-5.6, L-125-5.11, L-125-5.12	LUMACURVE LED
13	TW A			RW 9-27	90+98.96	L 387.33	1	2	L-125-5.10	LUMACURVE LED
14	RW 9-27			RW 9-27	90+45.44	L 95.30	1	2	L-125-5.5, L-125-5.11, L-125-5.12	LUMACURVE LED

GENERAL NOTES:

1. REFER TO ELECTRICAL DEMOLITION PLANS FOR INFORMATION ON SIGN REMOVAL.
2. A SIGN FACE IS DEFINED AS A SEQUENCE OF NUMBERS, LETTERS, ARROWS, OR "BLANKS" ON ONE OR MORE MESSAGE PANELS COVERING ONE SIDE OF A SIGN WHICH CONVEY A MESSAGE. A BLANK PANEL IS AN ALL BLACK PANEL.
3. WHEN FACING SIDE 'A' (REFER TO SIGN SCHEDULE) THE POWER ENTRY INTO THE SIGN SHALL BE THROUGH THE LEG CLOSEST TO THE JUNCTION CAN.
4. GUIDANCE SIGNS SHALL BE INSTALLED AT A PERPENDICULAR DISTANCE OF 15-FEET FROM THE DEFINED TAXIWAY EDGE TO NEAR SIDE OF SIGN AS INDICATED USING STATION/OFFSET LOCATIONS IN THE SIGN SCHEDULE.

REFERENCE INFORMATION FROM A/C 150/5345-44K
"SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS"

SIGN SIZE 1 = 18 INCH PANEL WITH A 12 INCH CHARACTER
SIGN SIZE 2 = 24 INCH PANEL WITH A 15 INCH CHARACTER
SIGN SIZE 4 = 48 INCH PANEL WITH A 40 INCH CHARACTER

SIGN STYLE 2 = POWERED FROM A SERIES LIGHTING CIRCUIT OF 4.8 TO 6.6A

SIGN STYLE 4 = UNLIGHTED

CLASS 2 = OPERATION FROM -40 DEGREES F TO 131 DEGREES F ENVIRONMENT

MODE 2 = MUST WITHSTAND WIND LOADS OF 200 MPH

CONSULTANT:
ADCI
AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLICOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:
STATE OF MARYLAND
PROFESSIONAL ENGINEER
9/20/23

PROFESSIONAL CERTIFICATION:
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LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

DESIGNED:	D.A.B.	REVISION NO.	REVISION DATE	DESCRIPTIONS
DRAWN:	D.A.B.			
CHECKED:	C.M.D.			
APPROVED:	C.M.D.			

BID DOCUMENTS

Washington County, MD
HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE: RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT

SHEET TITLE: SIGNAGE SCHEDULE 1

SCALE: N.T.S. DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.: **E611**

35 OF 39

PROPOSED SIGN SCHEDULE

SIGN #	CIRCUIT	EXISTING LEGEND	PROPOSED LEGEND	BASELINE	STATION	OFFSET	SIGN SIZE	SIGN STYLE	PAY ITEM	ORIGINAL EQUIPMENT MANUFACTURER (OEM)
15	TW P			RW 9-27	87+51.91	R 85.87	1	2	L-125-5.4, L-125-5.12	LUMACURVE INCANDESCENT
17	RW 9-27			RW 9-27	86+43.10	R 250.86	1	2	L-125-5.6, L-125-5.12	LUMACURVE INCANDESCENT
18	TW P			RW 9-27	85+92.88	R 86.79	1	2	L-125-5.4, L-125-5.12	LUMACURVE INCANDESCENT
19	RW 9-27			RW 9-27	60+00.01	R 125.05	4	2	L-125-5.8, L-125-5.12	LUMACURVE INCANDESCENT
20	RW 2-20			RW 9-27	82+86.18	R 90.28	1	2	L-125-5.5, L-125-5.12	UNKNOWN
21	TW F			RW 9-27	80+95.82	R 267.22	1	2	L-125-5.5, L-125-5.12	LUMACURVE INCANDESCENT
22	RW 2-20			RW 9-27	81+45.27	R 496.06	1	2	L-125-5.6, L-125-5.12	LUMACURVE
23	TW F			RW 9-27	80+06.84	R 474.07	1	2	L-125-5.4, L-125-5.12	LUMACURVE
27	TW C			TW F	274+27.52	R 358.58	1	2	L-125-5.6, L-125-5.12	UNKNOWN
30	TW F			TW F	276+38.45	L 130.93	1	2	L-125-5.5, L-125-5.12	UNKNOWN

GENERAL NOTES:

- REFER TO ELECTRICAL DEMOLITION PLANS FOR INFORMATION ON SIGN REMOVAL.
- A SIGN FACE IS DEFINED AS A SEQUENCE OF NUMBERS, LETTERS, ARROWS, OR "BLANKS" ON ONE OR MORE MESSAGE PANELS COVERING ONE SIDE OF A SIGN WHICH CONVEY A MESSAGE. A BLANK PANEL IS AN ALL BLACK PANEL.
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- GUIDANCE SIGNS SHALL BE INSTALLED AT A PERPENDICULAR DISTANCE OF 15-FEET FROM THE DEFINED TAXIWAY EDGE TO NEAR SIDE OF SIGN AS INDICATED USING STATION/OFFSET LOCATIONS IN THE SIGN SCHEDULE.

REFERENCE INFORMATION FROM A/C 150/5345-44K
"SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS"

SIGN SIZE 1 = 18 INCH PANEL WITH A 12 INCH CHARACTER
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SIGN STYLE 2 = POWERED FROM A SERIES LIGHTING CIRCUIT OF 4.8 TO 6.6A
 SIGN STYLE 4 = UNLIGHTED

CLASS 2 = OPERATION FROM -40 DEGREES F TO 131 DEGREES F ENVIRONMENT
 MODE 2 = MUST WITHSTAND WIND LOADS OF 200 MPH

CONSULTANT:

 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
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 FAX: 410.465.9602

SEAL:

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 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

DESIGNED: D.A.B.
 DRAWN: D.A.B.
 CHECKED: C.M.D.
 APPROVED: C.M.D.

REVISION NO.	REVISION DATE	DESCRIPTIONS

BID DOCUMENTS

 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	SIGNAGE SCHEDULE 2	
SCALE:	N.T.S.	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.:
E612

36 OF 39

PROPOSED SIGN SCHEDULE

SIGN #	CIRCUIT	EXISTING LEGEND	PROPOSED LEGEND	BASELINE	STATION	OFFSET	SIGN SIZE	SIGN STYLE	PAY ITEM	ORIGINAL EQUIPMENT MANUFACTURER (OEM)
32	TW F			TW F	279+28.41	L 88.48	1	2	L-125-5.4, L-125-5.12	UNKNOWN
33	RW 9-27			TW F	279+76.02	L 176.49	1	2	L-125-5.5, L-125-5.12	LUMACURVE INCANDESCENT
34	RW 2-20			TW F	279+29.57	L 310.72	1	2	L-125-5.5, L-125-5.12	UNKNOWN
35	TW C			TW F	277+44.32	L 309.84	1	2	L-125-5.4, L-125-5.12	ADB
36	TW C			TW F	278+58.57	L 486.81	1	2	L-125-5.4, L-125-5.12	ADB
37	RW 2-20			TW F	279+28.60	L 486.86	1	2	L-125-5.5, L-125-5.12	UNKNOWN
38	RW 9-27			TW F	278+62.46	L 634.32	1	2	L-125-5.10	UNKNOWN
41	RW 9-27			RW 9-27	83+22.15	L 221.31	1	2	L-125-5.5, L-125-5.12	UNKNOWN
60	RW 9-27			RW 9-27	76+74.34	L 91.68	1	2	L-125-5.4, L-125-5.12	ADB
61	RW 9-27			RW 9-27	75+62.48	R 90.97	1	2	L-125-5.4, L-125-5.12	ADB

GENERAL NOTES:

- REFER TO ELECTRICAL DEMOLITION PLANS FOR INFORMATION ON SIGN REMOVAL.
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- GUIDANCE SIGNS SHALL BE INSTALLED AT A PERPENDICULAR DISTANCE OF 15-FEET FROM THE DEFINED TAXIWAY EDGE TO NEAR SIDE OF SIGN AS INDICATED USING STATION/OFFSET LOCATIONS IN THE SIGN SCHEDULE.

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SIGN STYLE 4 = UNLIGHTED

CLASS 2 = OPERATION FROM -40 DEGREES F TO 131 DEGREES F ENVIRONMENT

MODE 2 = MUST WITHSTAND WIND LOADS OF 200 MPH

CONSULTANT:
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AIRPORT DESIGN CONSULTANTS
6031 UNIVERSITY BLVD, SUITE 330
ELLCOTT CITY, MD 21043
TEL: 410 465 9600
FAX: 410 465 9602

SEAL:
STATE OF MARYLAND
Professional Engineer
56030
9/20/23

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LICENSE NO. 56030
EXPIRATION DATE: 5/24/2024

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CHECKED: C.M.D.
APPROVED: C.M.D.

REVISION NO.	REVISION DATE	DESCRIPTIONS

BID DOCUMENTS

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE:	SIGNAGE SCHEDULE 3
SCALE:	N.T.S.
DATE:	SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
Bid No.: PUR-1635

SHEET NO.:
E613

37 OF 39

PROPOSED SIGN SCHEDULE

SIGN #	CIRCUIT	EXISTING LEGEND	PROPOSED LEGEND	BASELINE	STATION	OFFSET	SIGN SIZE	SIGN STYLE	PAY ITEM	ORIGINAL EQUIPMENT MANUFACTURER (OEM)
63	RW 9-27			RW 9-27	75+47.12	R 236.13	1	2	L-125-5.6, L-125-5.12	ADB
65	TW C			TW F	274+18.47	R 122.29	1	2	L-125-5.6, L-125-5.12	UNKNOWN
69	TW D			RW 9-27	74+23.95	L 90.79	1	2	L-125-5.5, L-125-5.11, L-125-5.12	LUMACURVE LED
70	RW 9-27			RW 9-27	72+17.87	L 250.00	1	2	L-125-5.6, L-125-5.12	LUMACURVE LED
71	TW D			RW 9-27	72+40.49	L 314.22	1	2	L-125-5.5, L-125-5.11, L-125-5.12	LUMACURVE LED
72	TW A			RW 9-27	70+74.53	L 435.22	1	2	L-125-5.6, L-125-5.11, L-125-5.12	LUMACURVE LED
74	TW D			RW 9-27	70+74.01	L 90.30	1	2	L-125-5.5, L-125-5.11, L-125-5.12	LUMACURVE LED
76	RW 9-27			RW 9-27	70+99.49	R 249.91	4	2	L-125-5.10	LUMACURVE INCANDESCENT
101	TW A			RW 9-27	52+25.00	L 90.00	1	2	L-125-5.5, L-125-5.11, L-125-5.12	LUMACURVE LED
102	RW 9-27			RW 9-27	50+85.00	L 250.00	1	2	L-125-5.5, L-125-5.12	LUMACURVE LED

GENERAL NOTES:

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REFERENCE INFORMATION FROM A/C 150/5345-44K "SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS"

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REVISION NO.	REVISION DATE	DESCRIPTIONS

BID DOCUMENTS

 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT
SHEET TITLE:	SIGNAGE SCHEDULE 4
SCALE:	N.T.S.
DATE:	SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635
 SHEET NO.:
E614
 38 OF 39

PROPOSED SIGN SCHEDULE

SIGN #	CIRCUIT	EXISTING LEGEND	PROPOSED LEGEND	BASELINE	STATION	OFFSET	SIGN SIZE	SIGN STYLE	PAY ITEM	ORIGINAL EQUIPMENT MANUFACTURER (OEM)
103	TW A			RW 9-27	52+44.88	L 346.91	1	2	L-125-5.7, L-125-5.12	LUMACURVE LED
105	TW A			RW 9-27	49+82.02	L 250.00	1	2	L-125-5.5, L-125-5.12	LUMACURVE LED
106	TW G			RW 9-27	51+50.60	L 571.54	1	2	L-125-5.7, L-125-5.12	LUMACURVE LED
107A	RW 9-27			RW 9-27	69+56.99	R 135.04	4	2	L-125-5.8, L-125-5.12	LUMACURVE INCANDESCENT
107	RW 9-27			RW 9-27	79+75.08	R 124.83	4	2	L-125-5.8, L-125-5.12	LUMACURVE INCANDESCENT
108	RW 9-27			RW 9-27	89+99.99	R 125.00	4	2	L-125-5.8, L-125-5.12	LUMACURVE INCANDESCENT
109	RW 9-27			RW 9-27	99+99.99	R 125.00	4	2	L-125-5.8, L-125-5.12	LUMACURVE INCANDESCENT
110	RW 9-27			RW 9-27	109+99.99	R 125.00	4	2	L-125-5.8, L-125-5.12	LUMACURVE INCANDESCENT
152	TW A			RW 9-27	49+84.48	R 250.18	1	2	L-125-5.10	LUMACURVE LED
200	RW 9-27			RW 9-27	87+07.65	R 249.88	1	2	L-125-5.6, L-125-5.12	LUMACURVE INCANDESCENT

GENERAL NOTES:

- REFER TO ELECTRICAL DEMOLITION PLANS FOR INFORMATION ON SIGN REMOVAL.
- A SIGN FACE IS DEFINED AS A SEQUENCE OF NUMBERS, LETTERS, ARROWS, OR "BLANKS" ON ONE OR MORE MESSAGE PANELS COVERING ONE SIDE OF A SIGN WHICH CONVEY A MESSAGE. A BLANK PANEL IS AN ALL BLACK PANEL.
- WHEN FACING SIDE 'A' (REFER TO SIGN SCHEDULE) THE POWER ENTRY INTO THE SIGN SHALL BE THROUGH THE LEG CLOSEST TO THE JUNCTION CAN.
- GUIDANCE SIGNS SHALL BE INSTALLED AT A PERPENDICULAR DISTANCE OF 15-FEET FROM THE DEFINED TAXIWAY EDGE TO NEAR SIDE OF SIGN AS INDICATED USING STATION/OFFSET LOCATIONS IN THE SIGN SCHEDULE.

REFERENCE INFORMATION FROM A/C 150/5345-44K
"SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS"

SIGN SIZE 1 = 18 INCH PANEL WITH A 12 INCH CHARACTER
 SIGN SIZE 2 = 24 INCH PANEL WITH A 15 INCH CHARACTER
 SIGN SIZE 4 = 48 INCH PANEL WITH A 40 INCH CHARACTER

SIGN STYLE 2 = POWERED FROM A SERIES LIGHTING CIRCUIT OF 4.8 TO 6.6A

SIGN STYLE 4 = UNLIGHTED

CLASS 2 = OPERATION FROM -40 DEGREES F TO 131 DEGREES F ENVIRONMENT

MODE 2 = MUST WITHSTAND WIND LOADS OF 200 MPH

CONSULTANT:

ADCI
 AIRPORT DESIGN CONSULTANTS
 6031 UNIVERSITY BLVD, SUITE 330
 ELLICOTT CITY, MD 21043
 TEL: 410 465 9600
 FAX: 410 465 9602

SEAL:

STATE OF MARYLAND
 Charles Demaris
 PROFESSIONAL ENGINEER
 License No. 56030
 9/20/23

PROFESSIONAL CERTIFICATION:
 "I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."
 LICENSE NO. 56030
 EXPIRATION DATE: 5/24/2024

DESIGNED:	REVISION NO.	REVISION DATE	DESCRIPTIONS
D.A.B.			
DRAWN:			
D.A.B.			
CHECKED:			
C.M.D.			
APPROVED:			
C.M.D.			

BID DOCUMENTS

Washington County, MD
 HAGERSTOWN REGIONAL AIRPORT

PROJECT TITLE:	RUNWAY 9-27 EDGE LIGHTING AND SIGNAGE REPLACEMENT	
SHEET TITLE:	SIGNAGE SCHEDULE 5	
SCALE:	N.T.S.	DATE: SEPTEMBER 2023

FAA AIP No.: 3-24-0019-071-2023
 Bid No.: PUR-1635

SHEET NO.: **E615**

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