

Airports Division

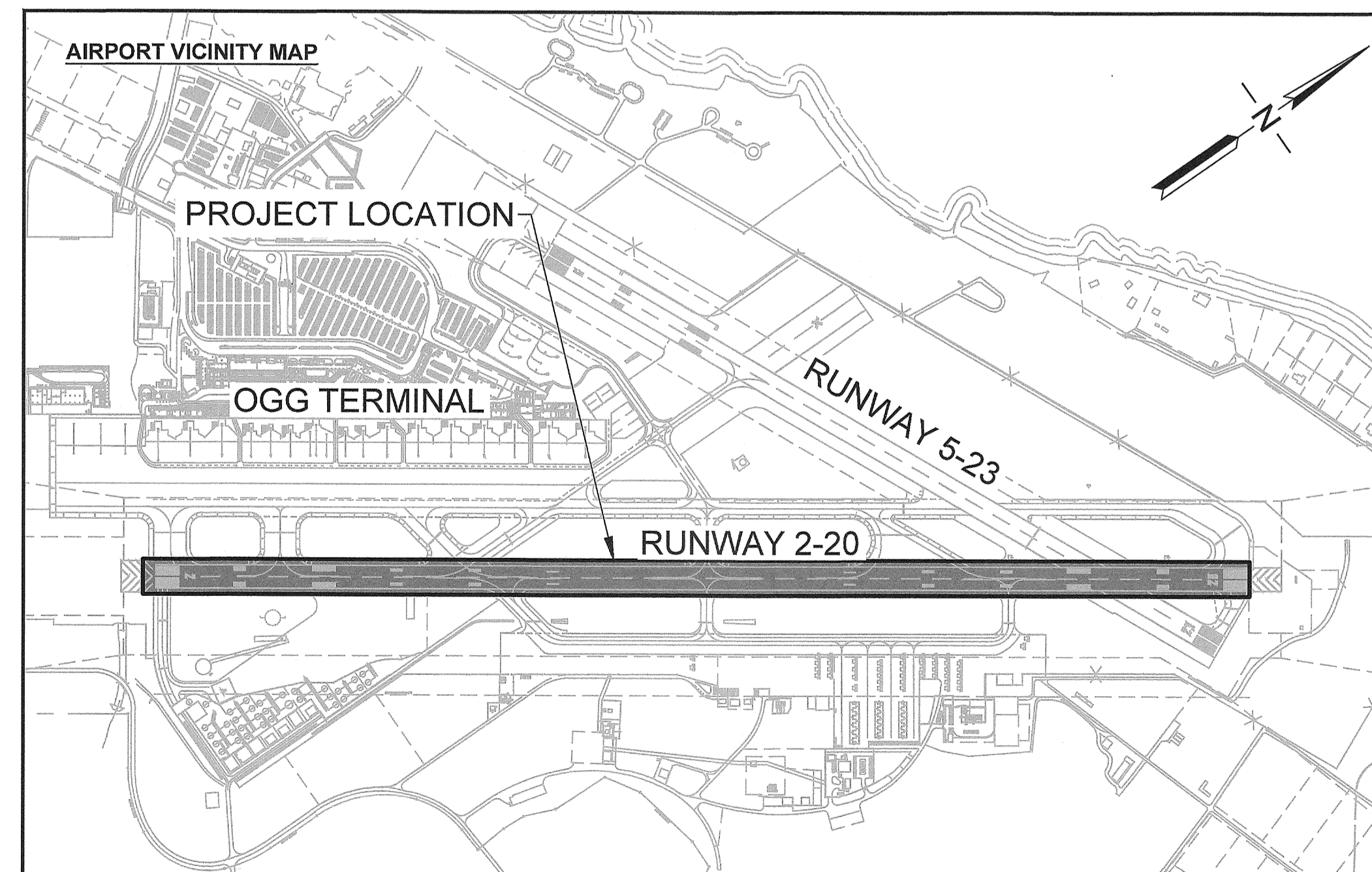
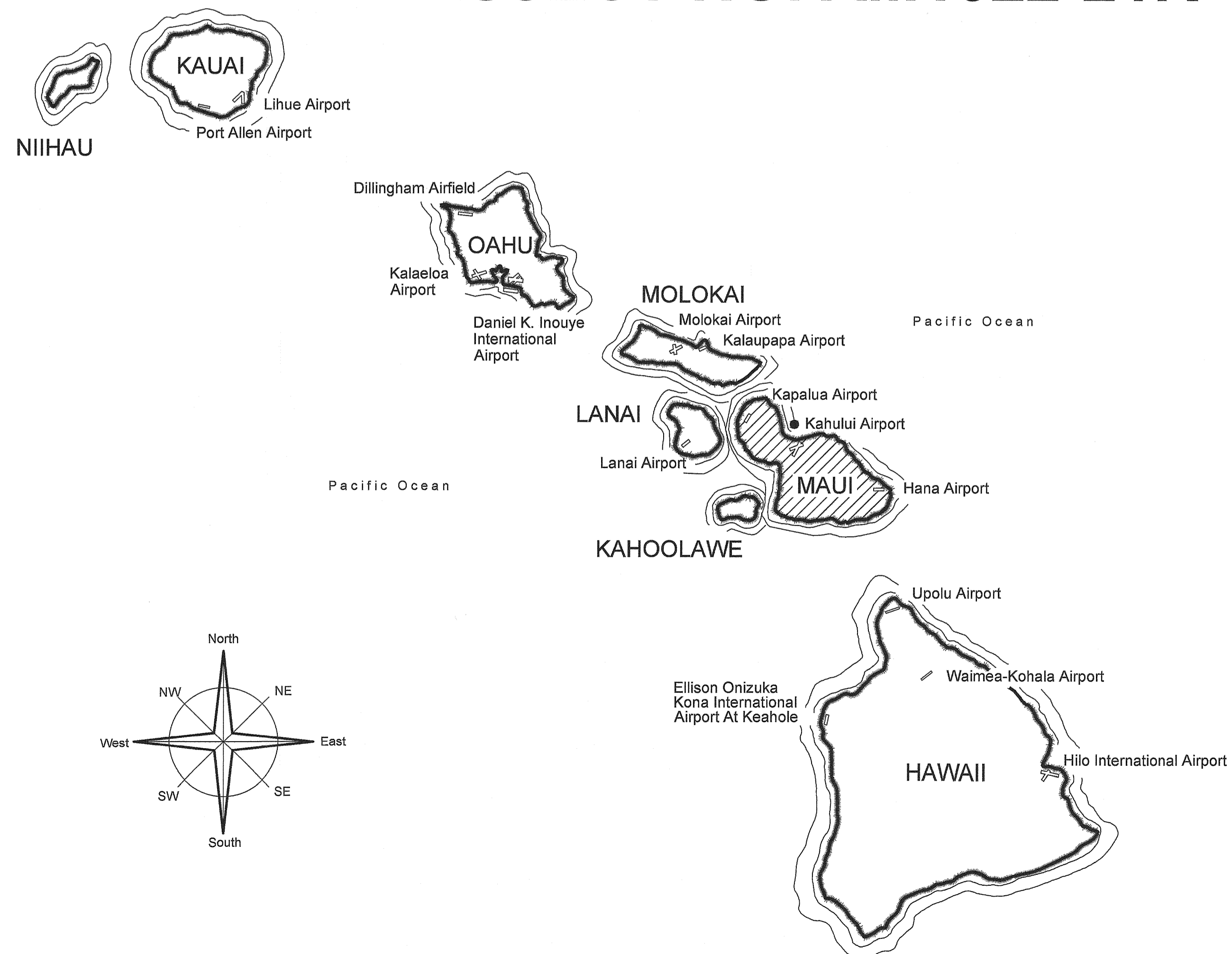
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

PLANS FOR

RESURFACE RUNWAY 2-20

AT

KAHULUI AIRPORT KAHULUI, MAUI, HAWAII PROJECT NO. AM1022-21R



PROJECT TEAM

CIVIL:
ORION ENGINEERS & ASSOC
1003 BISHOP STREET, STE 2020
HONOLULU HI 96813
(808) 282-7986

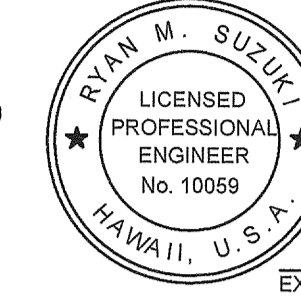


I HEREBY CERTIFY THAT THIS
WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Shannon Holman
SHANNON HOLMAN
CIVIL ENGINEER

04/30/24
EXPIRATION DATE

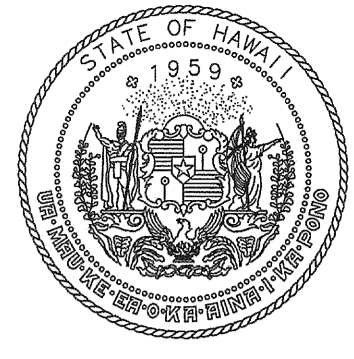
SURVEYOR:
R.M. TOWILL CORPORATION
2024 NORTH KING STREET, SUITE 200
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808-842-1133



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Ryan M. Suzuki
RYAN M. SUZUKI
SURVEYOR

04/30/24
EXPIRATION DATE



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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OR UNDER MY SUPERVISION

Shannon Holman
Signature
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

TITLE SHEET, PROJECT LOCATION, & AIRPORT VICINITY MAP

DEPARTMENT OF TRANSPORTATION STATE OF HAWAII	
APPROVED:	
<i>Greg St.</i>	10/25/22
DIRECTOR OF TRANSPORTATION	DATE

DATE :

11/2022

SHEET :

1 OF 46 SHEETS

DWG. NO.

G-101

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SHEET NUMBERING SCHEME

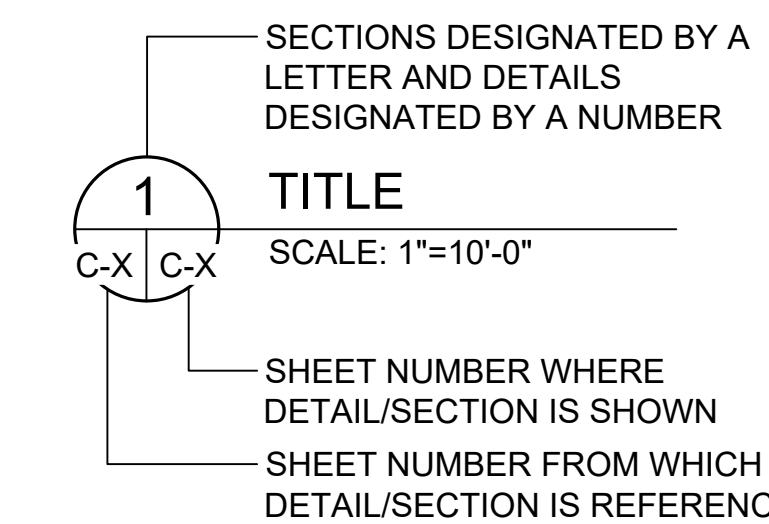
ALL SHEETS WILL BE NUMBERED BEGINNING WITH A LETTER FOLLOWED BY A NUMBER AS FOLLOWS:

X-0

└ SEQUENTIAL DRAWING NO.
└ DISCIPLINE LETTER KEY

DISCIPLINE LETTER KEY

G TITLE, GENERAL, SURVEY, GEOTECHNICAL
C CIVIL



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Signature: Rachael Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:

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KAHULUI, MAUI, HAWAII

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INDEX OF DRAWINGS

DATE :	DWG. NO.
11/2022	G-102
SHEET :	
2 OF 46 SHEETS	

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GENERAL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS AND ANY RULES, REGULATIONS, STANDARDS OR SPECIFICATIONS REFERENCED THEREIN. THE PROJECT IS SUBJECT TO INSPECTION BY REPRESENTATIVES OF THE HAWAII DEPARTMENT OF TRANSPORTATION AIRPORTS DIVISION (HDOT-A), THE FEDERAL AVIATION ADMINISTRATION (FAA) AND OTHER GOVERNING AGENCIES.
- LIQUIDATED DAMAGES, AS STATED IN THE CONTRACT AND CONSTRUCTION DOCUMENTS, SHALL APPLY TO THIS PROJECT.
- THIS PROJECT REQUIRES CONSTRUCTION ON OR NEAR ACTIVE AIRPORT FACILITIES. ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO HDOT-A, AIRPORT OPERATIONS, AND THE FAA.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT THE FAA ASSESSES PENALTIES AND FINES FOR INCURSIONS INTO ANY PART OF THE AIRPORT THAT IS NOT OTHERWISE AUTHORIZED BY THE RPR AND AIRPORT OPERATIONS. ALL SUCH PENALTIES AND FINES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE. REPEATED OFFENSES MAY RESULT IN INDIVIDUAL DISBARMENT OF THE CONTRACTOR'S PERSONNEL.
- THE PRIME CONTRACTOR SHALL HAVE A JOB SUPERINTENDENT ON SITE AT ALL TIMES WHILE WORK IS IN PROGRESS.
- ALL PERSONNEL SHALL CLEAR THE CONSTRUCTION AREA AT THE END OF THE WORK SHIFT. ALL MECHANICS NEEDING ACCESS TO THE AOA DURING EVENINGS AND WEEKENDS TO WORK ON CONSTRUCTION EQUIPMENT SHALL BE ESCORTED AND HAVE THEIR VEHICLES IDENTIFIED WITH THE CONTRACTOR'S NAME AND APPROPRIATE LIGHTING.
- MAXIMUM CONSTRUCTION TRAFFIC SPEED ON AIRPORT PROPERTY SHALL BE 15 MPH.
- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP). THE CONTRACTOR SHALL PREPARE A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA ADVISORY CIRCULAR AC-150/5370-2G "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION". THE SPCD SHALL DETAIL HOW THE CONTRACTOR WILL COMPLY WITH THE REQUIREMENTS OF THE APPROVED CSPP. THE SPCD SHALL BE APPROVED BY THE RPR PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTOR'S GENERAL SECURITY AND OPERATIONAL REQUIREMENTS AND RESTRICTIONS

- GENERAL INTENT: IT IS INTENDED THAT THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE AIRPORT SECURITY PLAN AND WITH THE SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE TO THE CONSTRUCTION MANAGER AND AIRPORT OPERATIONS THE NAME OF ITS "CONTRACTOR SECURITY OFFICER" (CSO). THE CSO SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS FOR THE CONTRACT. CSO SHALL BE ON SITE AT ALL TIMES DURING WORKING HOURS.
- CONTRACTOR PERSONNEL SECURITY ORIENTATION: THE CSO SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON AIRPORT SECURITY REQUIREMENTS AND OTHER SECURITY PROVISIONS. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
- ALL CONTRACTOR PERSONNEL ENTERING THE AOA MUST BE PROPERLY BADGED PER THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR'S CSO WILL BE RESPONSIBLE FOR ALL OPERATIONAL PRECAUTIONS. PRIOR TO THE COMMENCEMENT OF THE WORK THE CSO SHALL PROVIDE THE RPR AND AIRPORT OPERATIONS AN OUTLINE OF A PROPOSED ACCIDENT AND FIRE PROTECTION PLAN FOR ALL WORK CONTEMPLATED UNDER THE CONTRACT AND CONDUCT AT LEAST ONE SAFETY MEETING EACH WEEK FOR EACH SHIFT AND REQUIRE THE ATTENDANCE OF ALL SUPERVISORS AT SUCH MEETINGS. COPIES OF THE MINUTES OF SAFETY MEETINGS SHALL BE KEPT ON FILE IN THE CONTRACTOR'S FIELD OFFICE AND MADE AVAILABLE UPON REQUEST TO THE RPR OR AIRPORT OPERATIONS.
- CONTRACTOR VEHICLES SHALL BE EQUIPPED WITH VHF RADIOS AND SHALL ATTEND AIRPORT AIRFIELD TRAINING IN ACCORDANCE WITH THE CONTRACTORS TRAINING GUIDE FOR MAUI DISTRICT.

CONTRACTOR ACCESS, STORAGE AREAS, AND HAUL ROUTES

- LOCATION OF HAUL ROUTES AND STAGING AREAS AS SHOWN ON THE CONSTRUCTION PHASING PLANS ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE EXACT LOCATIONS IN THE FIELD WITH THE RPR AND AIRPORT OPERATIONS, AND TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS OR COUNTY ROADS) WITH THE APPROPRIATE OWNER HAVING JURISDICTION. ALL HAUL ROUTES AND STAGING AREAS SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES AND STAGING AREAS SHALL BE JOINTLY INSPECTED AND DOCUMENTED BY THE CONTRACTOR, THE RPR, AND AIRPORT OPERATIONS. THE BEFORE AND AFTER CONDITION OF OFF-SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED BY THE CONTRACTOR AND THE OWNER HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE OR DIGITAL PICTURES OF ALL HAUL ROUTES AND STAGING AREAS BEFORE START OF WORK AND UPON COMPLETION. FENCING, DRAINAGE, SEDIMENT CONTROL, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE RPR AND AIRPORT OPERATIONS PRIOR TO THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.

- THE CONTRACTOR SHALL ONLY USE THE HAUL ROUTES APPROVED BY THE RPR AND AIRPORT OPERATIONS AND AS SHOWN ON THE CONSTRUCTION PHASING AND BARRICADE PLANS. THE HAUL TRUCKS MUST BE COVERED AT ALL TIMES. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN THE HAUL ROUTE WITH A POWER VACUUM DURING WORKING HOURS. FAILURE TO MAINTAIN THE HAUL ROUTE IN A MANNER ACCEPTABLE TO THE RPR AND AIRPORT OPERATIONS WILL RESULT IN SUSPENSION OF WORK. IN THE EVENT THAT ANY FOREIGN OBJECT, SPILLAGE, DEBRIS OR DUST BUILDS UP AS A RESULT OF HAULING, THE CONTRACTOR SHALL BE REQUIRED TO IMMEDIATELY CLEAN AND REMOVE THE MATERIAL.
- WHEN NOT IN USE, ALL MATERIALS AND EQUIPMENT SHALL BE STORED IN THE CONTRACTOR'S STAGING AREA. ANY OTHER AREAS TO BE USED FOR STORAGE MUST BE APPROVED BY THE RPR AND AIRPORT OPERATIONS. EQUIPMENT AND STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER ACCEPTABLE TO THE RPR AND AIRPORT OPERATIONS.
- THE CONTRACTOR'S ACCESS POINTS TO THE SITE SHALL BE AS SHOWN ON THE CONSTRUCTION PHASING AND BARRICADE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AIRPORT SECURITY FOR ALL VEHICLES AND PERSONNEL WHO ENTER AIRPORT PROPERTY.
- ON-SITE EMPLOYEE PARKING SHALL BE ADDRESSED AT THE PRECONSTRUCTION CONFERENCE.
- ALL CONTRACTOR'S VEHICLES SHALL BE IN GOOD WORKING ORDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING VEHICLE ACCESS TO THE AIRPORT WITH THE RPR AND AIRPORT OPERATIONS.
- ALL CONTRACTOR VEHICLES/EQUIPMENT THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT'S AOA SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE/EQUIPMENT A FLAG/LIGHT FOR DAYTIME AND A LIGHT FOR NIGHTTIME. THE FLAG SHALL BE A 3'x3' (MIN.) ORANGE AND WHITE CHECKER BOARD FLAG. EACH CHECKER BOARD COLOR BEING ONE SQUARE FOOT. ANY VEHICLE OPERATING ON THE AOA SHALL ALSO BE EQUIPPED WITH A FLASHING AMBER (YELLOW) DOME TYPE LIGHT, MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO LOCAL AND FEDERAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES (DAY OR NIGHT OPERATIONS). CONTRACTOR VEHICLES SHALL BE EQUIPPED WITH VHF RADIOS AND SHALL ATTEND AIRPORT AIRFIELD TRAINING IN ACCORDANCE WITH THE CONTRACTOR'S TRAINING GUIDE FOR MAUI DISTRICT.
- THE CONTRACTOR SHALL FURNISH ALL ESCORTS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND COMMUNICATION DEVICES SPECIFIED IN THE AIRPORTS DIVISION SPECIAL PROVISIONS AND THE SPECIFICATIONS.
- THE CONTRACTOR'S ESCORTS SHALL CONTINUOUSLY MONITOR RADIO FREQUENCY AS INDICATED IN THE APPROVED CSPP.
- BEFORE STARTING EACH WORK SHIFT, THE CONTRACTOR SHALL SET UP ALL AOA TRAFFIC CONTROL DEVICES AS SHOWN ON THE PHASING PLANS. SET-UP SHALL BE IN THE ORDER REQUIRED BY THE CONTRACT OR AS DIRECTED BY AIRPORT OPERATIONS. THE CONTRACTOR SHALL TAKE DOWN ALL AOA TRAFFIC CONTROL DEVICES IN THE REVERSE ORDER.

UNDERGROUND UTILITIES

- THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND UTILITIES IN THE WORK AREA PRIOR TO CONSTRUCTION. ANY UNDERGROUND UTILITIES LOCATED WHICH DO NOT APPEAR ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE RPR AND AIRPORT OPERATIONS. ANY DAMAGE TO UTILITIES, CAUSED BY THE CONTRACTOR, SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.
- UNLESS OTHERWISE SHOWN ON THE PLANS, THE CONTRACTOR SHALL PROTECT EXISTING AIRFIELD LIGHTING SYSTEMS, FAA NAVAIDS, WEATHER EQUIPMENT, AND OTHER AIRPORT FACILITIES DURING CONSTRUCTION OPERATIONS. ANY DAMAGE TO THESE FACILITIES OR UNDERGROUND CABLES SERVING THESE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE RPR, AIRPORT OPERATIONS, AND/OR THE FAA. ALL REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE WHETHER PERFORMED BY CONTRACTOR PERSONNEL OR BY OTHERS.
- THE CONTRACTOR SHALL NOTIFY, AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE RPR AND AIRPORT OPERATIONS AND THE OWNER OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE RPR, AIRPORT OPERATIONS, AND THE OPERATOR OF THE UNDERGROUND FACILITY ANY BREAK OR LEAK ON ITS LINES OR ANY DENT, GOUGE, GROVE OR OTHER DAMAGE TO SUCH LINES OR THEIR COATING OR CATHODIC PROTECTION, MADE OR DISCOVERED IN THE COURSE OF THEIR EXCAVATION.
- ALL REQUIRED TEMPORARY UTILITIES INCLUDING POWER, WATER, AND SEWER FOR THE CONTRACTOR'S STAGING AREA SHALL BE ARRANGED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL POLES, LINES, PIPES, METERS, ETC. TO BRING THE SERVICE FROM EXISTING SOURCES TO THE AREA. ALL TEMPORARY UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE RPR AND AIRPORT OPERATIONS. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL HAVE ALL UTILITIES DISCONNECTED AND SHALL REMOVE ALL POLES, PIPES, METERS, ETC. AND RESTORE THE AREAS TO THEIR PREVIOUS CONDITION.
- FOR ALL ITEMS REQUIRING THE USE OF WATER, THE CONTRACT UNIT PRICE BID FOR THE RESPECTIVE ITEM SHALL INCLUDE THE COST OF FURNISHING THE WATER.
- ANY UTILITIES DAMAGED OR BROKEN BY THE CONTRACTOR WILL BE REPAIRED AND PUT BACK INTO WORKING ORDER IN A MANNER ACCEPTABLE TO THE OWNER OF THE AFFECTED UTILITY BY THE CONTRACTOR AT ITS EXPENSE.

CONTACT INFORMATION

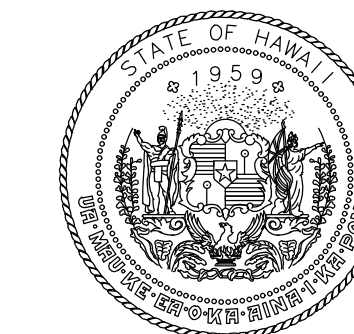
HAWAII DOT-A PROJECT MANAGER: EDDIE CHIU, 808-838-8829
 AIRPORT MANAGER: MARVIN MONIZ, 808-872-3830

ABBREVIATION

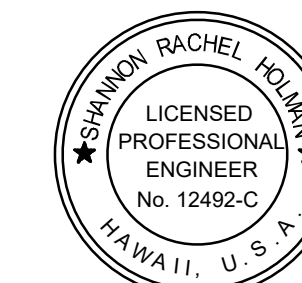
AC	ADVISORY CIRCULAR
AC	ASPHALT CONCRETE
ADG	AIRPLANE DESIGN GROUP
AOA	AIRPORT OPERATIONS AREA
APPD	APPROVED
ARFF	AIRCRAFT RESCUE AND FIREFIGHTING
ASDA	ACCELERATE STOP DISTANCE AVAILABLE
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICE
CHKD	CHECKED
CL	CENTER LINE
CSO	CONTRACTOR SECURITY OFFICER
CSPP	CONSTRUCTION SAFETY AND PHASING PLAN
CY	CUBIC YARD
DEMO	DEMOLITION
DIA	DIAMETER
DME	DISTANCE MEASURING EQUIPMENT
DOH	DEPARTMENT OF HEALTH
DOT	DEPARTMENT OF TRANSPORTATION
DRWN	DRAWN
DSNG	DESIGN
DWG	DRAWING(S)
E	EAST
EE	ENVIRONMENTAL ENGINEERING
ETC	ET CETERA
EX	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FS	FILTER SOCK
GS	GLIDE SLOPE
HARS	HIGH ALTITUDE ROUTE SYSTEM
HDOT(-A)	HAWAII DEPARTMENT OF TRANSPORTATION (AIRPORT DIVISION)
L	LEFT
LDA	LANDING DISTANCE AVAILABLE
LOC	LOCALIZER
MALSR	MEDIUM APPROACH LIGHT SYSTEM WITH RUNWAY ALIGNMENT INDICATOR LIGHTS

MAX	MAXIMUM
MIN	MINIMUM
MPH	MILES PER HOUR
N	NORTH
NAVAID	NAVIGATIONAL AID
NO	NUMBER
NOTAM	NOTICE TO AIRMEN
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NTS	NOT TO SCALE
OFF	OFFSET
OGG	KAHULUI AIRPORT
OTS	OUT OF SERVICE
PAPI	PRECISION APPROACH PATH INDICATOR
RAP	RECLAIMED ASPHALT PAVEMENT
ROFA	RUNWAY OBJECT FREE AREA
ROFZ	RUNWAY OBJECT FREE ZONE
RPM	RESIDENT PROJECT MANAGER
RPR	RESIDENT PROJECT REPRESENTATIVE
RSA	RUNWAY SAFETY AREA
R	RIGHT
RWY	RUNWAY
SPCD	SAFETY PLAN COMPLIANCE DOCUMENT
SPEC(S)	SPECIFICATIONS
STA	STATION
SWMPP	STORMWATER MANAGEMENT PROGRAM PLAN
TBD	TO BE DETERMINED
TEMP	TEMPORARY
TXL	TAXILANE
TODA	TAKEOFF DISTANCE AVAILABLE
TOFA	TAXIWAY OBJECT FREE AREA
TORA	TAKE OFF RUN AVAILABLE
TSA	TAXIWAY SAFETY AREA
TWY	TAXIWAY
TYP	TYPICAL
UG	UNDERGROUND
VFR	VISUAL FLIGHT RULE
VSR	VEHICLE SERVICE ROAD

RWY/TWY	ADG	TDG	RSA/TSA	ROFA/TOFA
RWY 2-20	V	5	500'	800'
TWY B, C, D, E, F, G, K	V	5	214'	285'



Airports Division
 DEPARTMENT OF TRANSPORTATION
 STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Signature: Rachael Holman
 4/30/24
 Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS
 NOVEMBER 2022
 DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
 KAHULUI AIRPORT
 KAHULUI, MAUI, HAWAII

PROJECT NO.:

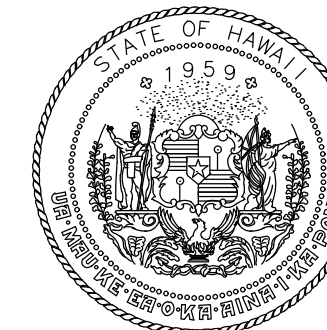
AM1022-21R

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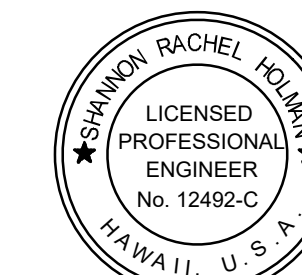
NOTES AND ABBREVIATIONS

DATE :	DWG. NO.
11/2022	G-103
SHEET :	
3 OF 46 SHEETS	

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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Signature: Rachel Holm
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RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

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SHEET TITLE:

BORING LOCATION PLAN

DATE :

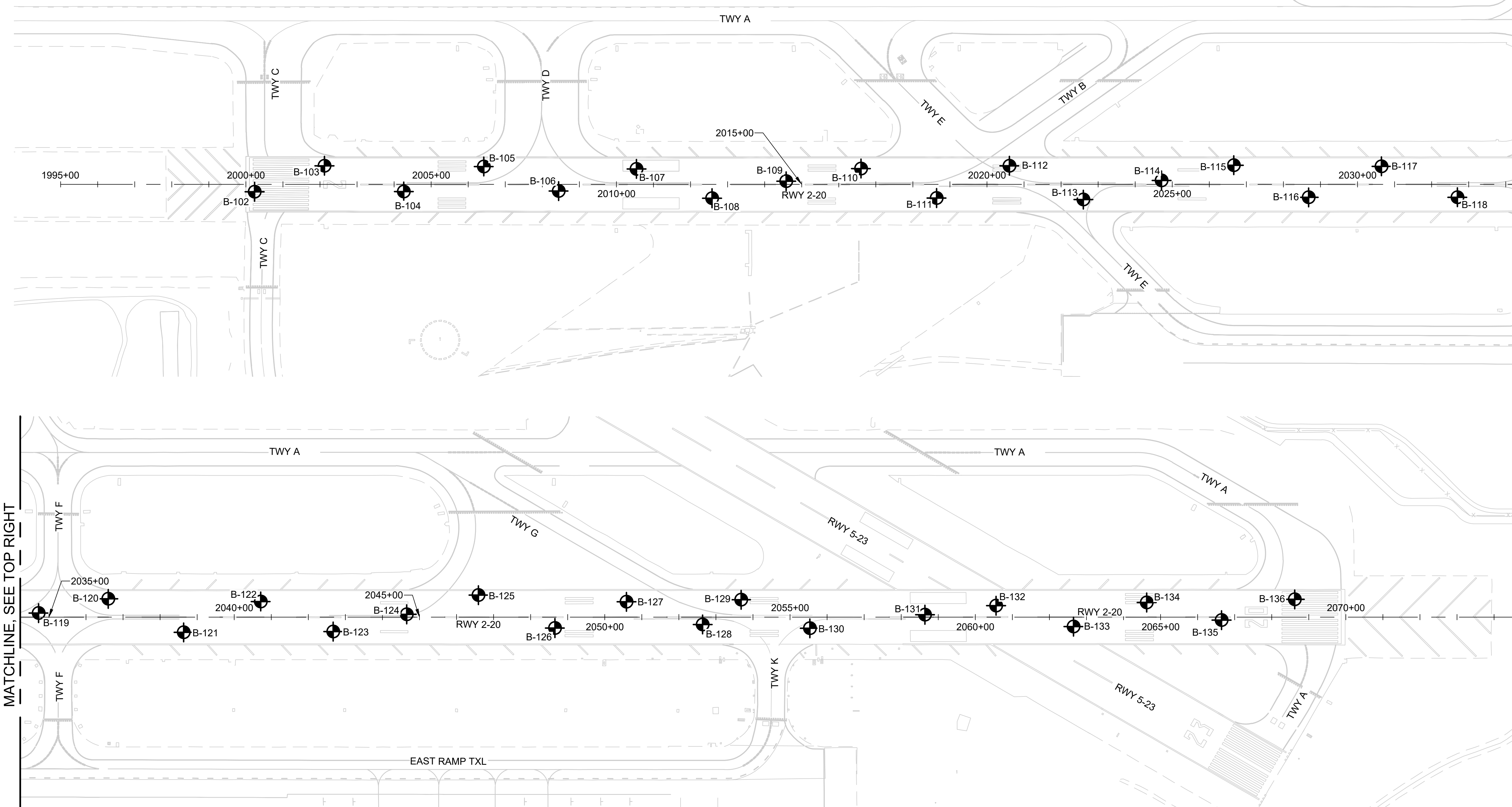
11/2022

SHEET :

4 OF 46 SHEETS

DWG. NO.

G-104



MATCHLINE, SEE TOP RIGHT

MATCHLINE, SEE BOTTOM LEFT

BORE LOCATION AND INFORMATION		
BORE NUMBER	STATION / OFFSET	AC THICKNESS
B-102	2000+23 / 20' R	18
B-103	2002+12 / 50' L	18
B-104	2004+26 / 19' R	18
B-105	2006+42 / 48' L	19
B-106	2008+44 / 18' R	15
B-107	2010+54 / 42' L	17
B-108	2012+58 / 38' R	16
B-109	2014+58 / 8' L	18
B-110	2016+60 / 43' R	18
B-111	2018+64 / 37' R	20
B-112	2020+60 / 50' L	18
B-113	2022+60 / 41' R	14

BORE LOCATION AND INFORMATION		
BORE NUMBER	STATION / OFFSET	AC THICKNESS
B-114	2024+71 / 10' L	21
B-115	2026+66 / 52' L	18
B-116	2028+68 / 35' R	18
B-117	2030+65 / 49' L	18
B-118	2032+70 / 35' R	17
B-119	2034+72 / 11' L	17.5
B-120	2036+60 / 49' L	18
B-121	2038+63 / 41' R	16
B-122	2040+71 / 42' L	18
B-123	2042+67 / 39' R	16
B-124	2044+66 / 8' L	18
B-125	2046+59 / 60' L	18

BORE LOCATION AND INFORMATION		
BORE NUMBER	STATION / OFFSET	AC THICKNESS
B-126	2048+65 / 29' R	16
B-127	2050+59 / 42' L	18.5
B-128	2052+64 / 20' R	14
B-129	2053+68 / 47' L	14
B-130	2055+53 / 30' R	15
B-131	2058+64 / 7' L	16
B-132	2060+56 / 31' L	18
B-133	2062+65 / 25' R	16
B-134	2064+63 / 40' L	18
B-135	2066+65 / 8' R	17
B-136	2068+62 / 48' L	18

LEGEND:

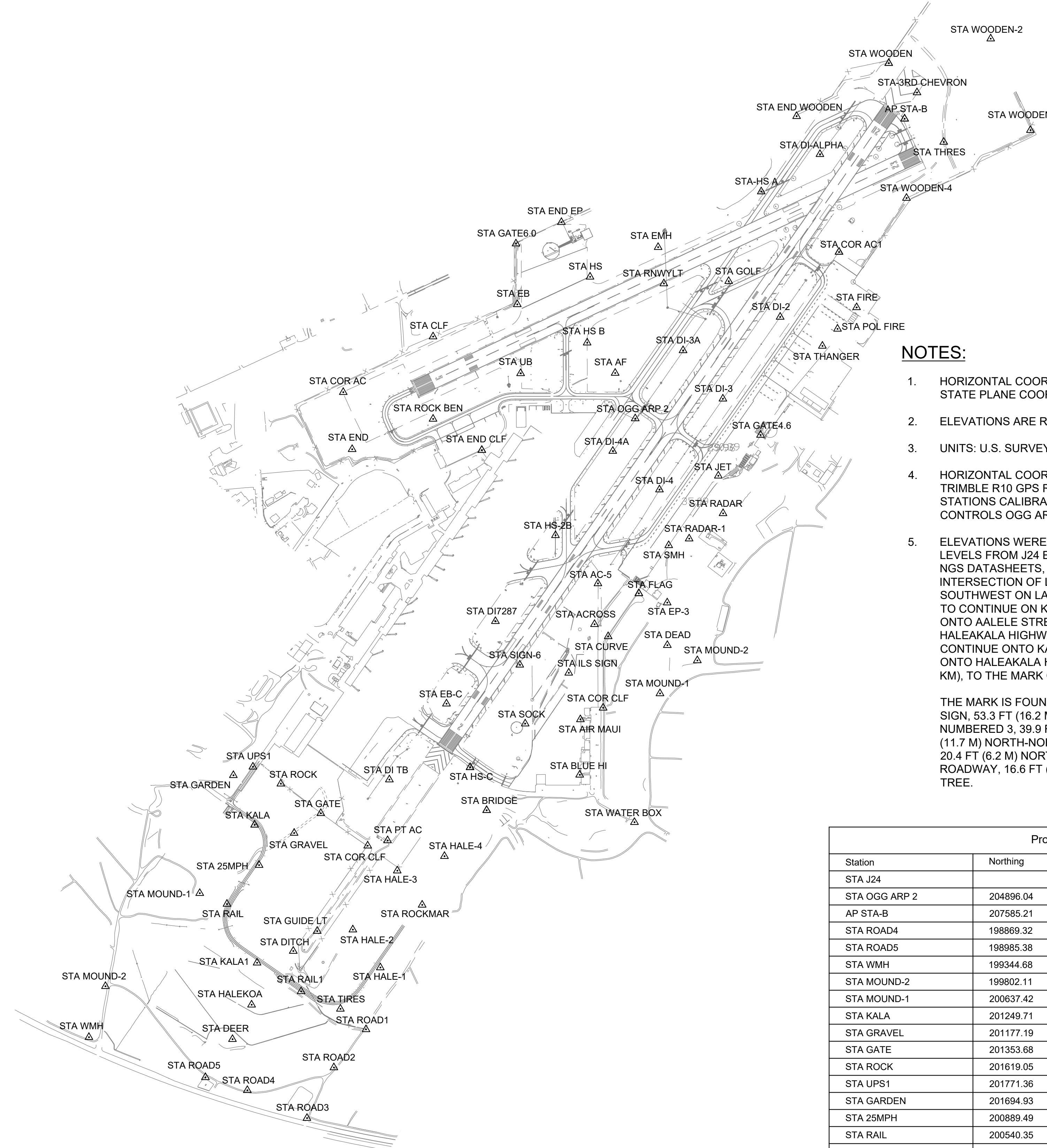
- BORING LOCATION
- B-XX** BORING LOG NUMBER (SEE NOTE 1)

NOTE:

1. BORING LOG NUMBER CORRESPONDS TO BORING LOGS PROVIDED IN THE DRAFT GEOTECHNICAL DATA REPORT PREPARED BY GEOLABS, INC ON APRIL 29, 2022.
2. LOCATIONS OF BORING AND CORING ARE APPROXIMATE.



C:\USERS\JBERTON\ENGINEERS & ASSOCIATES\RTM\C\OGG DOCUMENTS\1022-20\REHAB - DOCUMENTS\1022-20-OGG-BORE-LOCA-INTRM.DWG



NOTES:

1. HORIZONTAL COORDINATES ARE REFERRED TO NAD83 (PA11) STATE PLANE COORDINATES (ZONE 2).
2. ELEVATIONS ARE REFERRED TO LOCAL TIDE.
3. UNITS: U.S. SURVEY FEET.
4. HORIZONTAL COORDINATES WERE ESTABLISHED USING RTK TRIMBLE R10 GPS RECEIVERS AND NIKON AND TRIMBLE TOTAL STATIONS CALIBRATED TO PRIMARY AND SECONDARY AIRPORT CONTROLS OGG ARP 2 AND OGG AP STA B, RESPECTIVELY.
5. ELEVATIONS WERE ESTABLISHED UTILIZING SOKKIA DIGITAL LEVELS FROM J24 ELEVATION OF 86.50 FEET. AS DESCRIBED BY NGS DATASHEETS, TO REACH FROM KAHULUI AIRPORT, ON THE INTERSECTION OF LANUI CIRCLE AND KOEHEKE STREET, HEAD SOUTHWEST ON LANUI CIRCLE FOR 269 FT (82.0 M), KEEP RIGHT TO CONTINUE ON KEOLANI PLACE FOR 0.2 MI (0.3 KM). TURN LEFT ONTO AALELE STREET FOR 0.3 MI (0.5 KM). TURN LEFT ONTO HALEAKALA HIGHWAY (STATE HIGHWAY 36A) FOR 0.1 MI (0.2 KM). CONTINUE ONTO KALA ROAD FOR 1.2 MI (1.9 KM). TURN RIGHT ONTO HALEAKALA HIGHWAY (STATE HIGHWAY 37) FOR 0.3 MI (0.5 KM), TO THE MARK ON THE LEFT.

THE MARK IS FOUND 90.1 FT (27.5 M) WEST OF A SPEED LIMIT 30 SIGN, 53.3 FT (16.2 M) NORTH-NORTHWEST OF A UTILITY POLE NUMBERED 3, 39.9 FT (12.2 M) NORTH OF A ROAD SIGN, 38.3 FT (11.7 M) NORTH-NORTHEAST OF CORNER FOR BRIDGE ABUTMENT, 20.4 FT (6.2 M) NORTH OF THE CENTERLINE FOR ASPHALT ROADWAY, 16.6 FT (5.1 M) EAST-SOUTHEAST OF A MONKEY POD TREE.

Project Control				
Station	Northing	Easting	Elevation	Mark
STA J24			86.50	Disk
STA OGG ARP 2	204896.04	1720752.82	23.66	Disk
AP STA-B	207585.21	1723168.89	12.51	Disk
STA ROAD4	198869.32	1717273.81	60.20	60d Nail
STA ROAD5	198985.38	1716897.66	59.79	60d Nail
STA WMH	199344.68	1715853.27	48.53	60d Nail
STA MOUND-2	199802.11	1716001.17	81.31	1/2" Pipe
STA MOUND-1	200637.42	1716846.78	71.30	1/2" Pipe
STA KALA	201249.71	1717339.29	52.81	1/2" Pipe
STA GRAVEL	201177.19	1717693.66	56.77	60d Nail
STA GATE	201353.68	1717932.57	54.01	60d Nail
STA ROCK	201619.05	1717574.03	48.94	Mag Nail
STA UPS1	201771.36	1717323.88	44.55	60d Nail
STA GARDEN	201694.93	1717148.58	43.31	60d Nail
STA 25MPH	200889.49	1717379.15	63.88	60d Nail
STA RAIL	200540.35	1717091.15	62.93	60d Nail
STA KALA1	200013.04	1717361.11	63.31	Railroad Spike
STA HALEKOA	199636.28	1717311.77	57.42	1/2" Pipe
STA DEER	199326.70	1717140.50	65.45	60d Nail
STA RAIL	199755.70	1717756.05	72.91	Railroad Spike
STA HALE-2	200309.74	1718220.25	69.90	60d Nail
STA HALE-3	200838.64	1718618.63	68.65	60d Nail
STA DITCH	200118.46	1717685.68	69.28	60d Nail

Project Control				
Station	Northing	Easting	Elevation	Mark
STA CLF	205630.81	1718939.51	22.77	1/2" Pipe
STA COR AC	205131.90	1718134.22	14.25	Mag Nail
STA END	204620.59	1718213.88	27.39	Cross Cut
STA ROCK BEN	204892.00	1718939.67	30.63	60d Nail
STA UB	205301.59	1719724.83	17.90	Cross Cut
STA HS	206167.27	1720347.43	13.00	1/2" Pipe
STA EMH	206433.68	1720958.28	12.39	Cross Cut
STA END EP	206656.98	1720090.49	8.05	Mag Nail
STA GATE6.0	206465.27	1719683.12	6.66	Mag Nail
STA EB	205920.62	1719695.23	12.73	Cross Cut
STA END CLF	204612.42	1719376.85	28.09	Mag Nail
STA KALA	201249.72	1717339.29	52.81	1/2" Pipe
STA RADAR	204044.94	1721540.60	67.75	1/2" Pipe
STA HS B	205575.72	1720321.46	19.65	Mag Nail
STA RNWYLT	206107.63	1721009.53	16.71	Mag Nail
STA DI-4	204258.09	1720970.03	29.62	Cross Cut
STA DI-4A	204604.31	1720551.57	26.95	Cross Cut
STA HS-2B	203847.91	1720037.38	37.24	Mag Nail
STA DI7827	203077.12	1719498.84	41.04	Cross Cut
STA EB-C	202336.67	1719059.85	48.10	Cross Cut
STA DI TB	201655.84	1718547.84	53.50	1/2" Pipe
STA COR CLF	201063.07	1718353.31	62.54	1/2" Pipe
STA GUIDE LT	200297.13	1717900.87	70.56	Cross Cut
STA PT AC	201110.36	1718531.59	62.96	Mag Nail
STA HS-C	201766.34	1719271.57	54.06	Cross Cut
STA SIGN-6	202686.22	1719717.50	47.39	60d Nail
STA AC-5	203416.46	1720418.32	42.40	60d Nail
STA AF	205304.58	1720572.90	20.56	1/2" Pipe
STA RADAR-1	203818.22	1721236.50	68.89	1/2" Pipe
STA MOUND-2	202724.61	1721309.95	81.24	1/2" Pipe
STA MOUND-1	202428.61	1720974.80	71.23	1/2" Pipe
STA DEAD	202861.92	1721040.75	65.15	60d Nail
STA EP-3	203244.27	1721039.69	46.79	60d Nail
STA FLAG	203327.05	1720785.16	58.38	Mag Nail
STA END CLF	204612.47	1719376.85	28.09	Mag Nail
STA BRIDGE	201381.52	1719420.13	43.91	Mag Nail
STA WATER BOX	201273.95	1720745.89	68.36	Cross Cut
STA DI-3A	205507.32	1721181.90	18.08	Cross Cut
STA DI-3	205072.73	1721539.10	21.85	Cross Cut
STA GOLF	206127.91	1721591.13	16.54	Cross Cut
STA DI-2	205807.29	1722052.80	17.34	Cross Cut
STA COR AC1	206389.98	1722580.71	19.28	Mag Nail
STA WOODEN	208083.83	1723026.38	7.00	60d Nail
STA THRES	207377.26	1723519.90	12.65	Mag Nail
STA SOCK	202157.99	1719766.04	49.56	Cross Cut
STA ILS SIGN	202614.12	1720156.36	48.56	Mag Nail
STA END WOODEN	207608.27	1722200.20	6.07	Mag Nail
STA WOODEN	208083.88	1723026.36	7.00	60d Nail
STA WOODEN-2	208304.33	1723941.34	15.17	60d Nail
STA WOODEN-3	207483.59	1724297.51	30.09	60d Nail
STA WOODEN-4	206874.53	1723185.94	25.06	60d Nail
STA COR AC-1	206389.96	1722580.73	19.28	Mag Nail
STA FIRE	205892.74	1722738.41	26.13	Cross Cut
STA POL FIRE	205700.00	1722567.35	25.08	Mag Nail
STA THANGER	205547.13	1722431.67	26.62	60d Nail
STA GATE4.6	204748.37	1722431.71	33.87	Cross Cut
STA JET	204382.41	1721498.06	35.11	Mag Nail
STA SMH	203757.89	1721053.05	39.72	Cross Cut
STA ACROSS BOLLARD	203050.25	1720387.52	46.64	Mag Nail
STA AIR MAUI MAG	202195.66	1720261.22	53.00	Mag Nail
STA BLUE HI MAG	201699.38	1720254.77	56.85	Mag Nail
STA HS-C	201766.34	1719271.55	54.06	Cross Cut
STA DI-ALPHA	207267.37	1722409.67	10.33	Cross Cut
STA-3RD CHEVRON	207821.16	1723280.17	9.95	
STA-HS A	206932.17	1721883.01	12.63	
STA FLAG	203327.06	1720785.17	58.38	Mag Nail
STA CURVE	202940.72	1720510.08	59.62	60d Nail
STA COR CLF	202300.10	1720464.95	57.15	60d Nail
STA BRIDGE	201381.54	1719420.13	43.91	Mag Nail
STA HALE4	200968.86	1719041.75	56.07	Railroad Spike
STA ROCKMAR	200532.01	1718841.74	59.08	Mag Nail
STA HALE-1	199073.14	1718466.36	67.25	60d Nail
STA TIRES	199599.28	1718108.41	70.03	60d Nail
STA ROAD1	199414.61	1718338.10	71.96	60d Nail
STA ROAD2	199073.14	1718050.18	64.73	1/2" Pipe
STA ROAD3	198618.80	1717808.33	62.73	60d Nail



DSGN.	DRWN.	CHKD.	APPD.
RS	RS	BN	BN

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

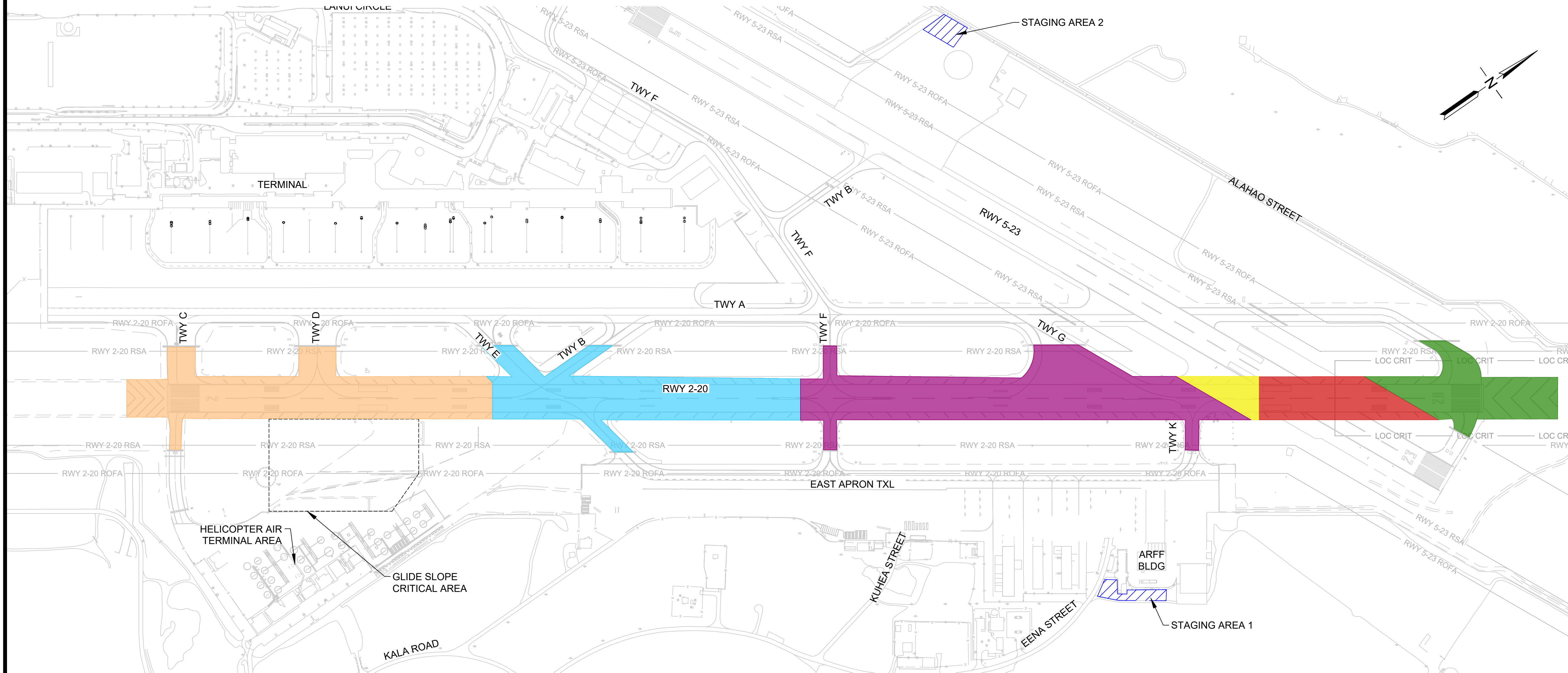
SURVEY CONTROL PLAN

DATE :	11/2022	DWG. NO.	G-105
SHEET :	5 OF 46 SHEETS		

PROJECT CONTROL LAYOUT - 20221114.DWG

Phase	Schedule Requirement	Week 1							Week 2							Week 3							Week 4							Week 5							Week 6							Week 7							Week 8							Week 9																																		
		S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F																					
1A	Phase 1A - 8 Calendar Days	█																																																																																										
1B	Phase 1B - 4 Calendar Days																																																																																											
2A	Phase 2A - 8 Calendar Days								█																																																																																			
2B	Phase 2B - 4 Calendar Days																																																																																											
3A	Phase 3A - 11 Calendar Days															█																																																																												
3B	Phase 3B - 4 Calendar Days																																																																																											
4	Phase 4 - 2 Sunday Shifts																																																																																											
5	Phase 5 - 5 Calendar Days																																																																																											
6	Phase 6 - 3 Calendar Days																																																																																											

CONSTRUCTION TIMELINE



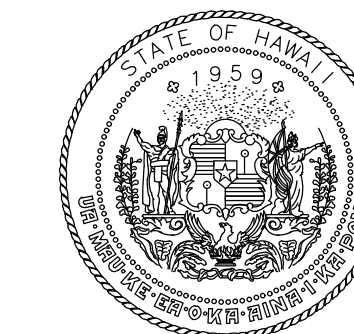
OVERALL PHASING PLAN

CONSTRUCTION PHASING GENERAL NOTES

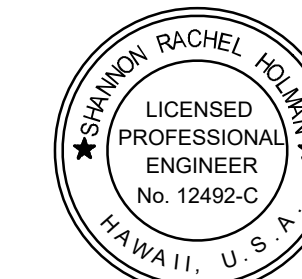
1. ALL AOA AIRCRAFT PAVEMENT SURFACES SHALL BE OPEN TO AIRCRAFT OPERATIONS AT ALL TIMES OTHER THAN DESIGNATED CLOSURES
2. THE CONTRACTOR SHALL NOTE THAT DELAYS FROM AIRCRAFT MOVEMENT SHOULD BE EXPECTED
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEPLOYING, MAINTAINING AND REMOVING THE LIGHTED "X" RUNWAY CLOSURE MARKER IN ACCORDANCE WITH THE CONSTRUCTION PHASING PLANS
4. MILLED AREA SHALL BE REPAVED ON THE SAME SHIFT THEY ARE MILLED
5. PAVEMENT MARKINGS (1/2 APPLICATION, SEE SPECS.) SHALL BE APPLIED ON THE SAME SHIFT THEY ARE REMOVED
6. MAINTAIN ARFF ACCESS AT ALL TIMES
7. NO INCURSION WITHIN THE GLIDE SLOPE CRITICAL AREA SHALL OCCUR AT ANY TIME

LEGEND:

- PHASE 1A/ PHASE 1B
- PHASE 2A/ PHASE 2B
- PHASE 3A/ PHASE 3B
- PHASE 4
- PHASE 5
- PHASE 6
- CONTRACTOR STAGING AREA



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachel Holm
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
FL	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

CONSTRUCTION TIMELINE AND PHASING PLAN

DATE :

11/2022

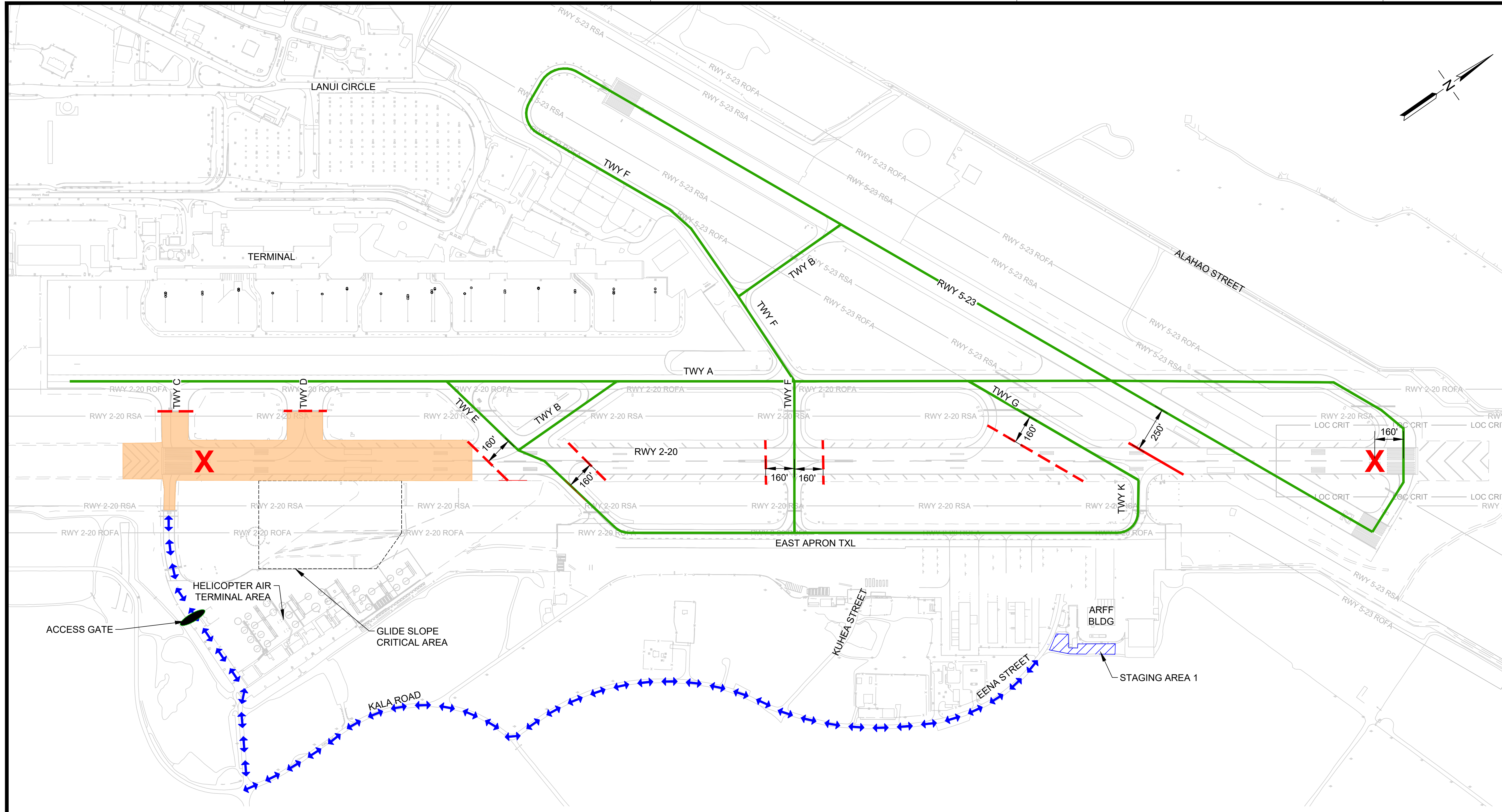
SHEET :

6 OF 46 SHEETS

DWG. NO.

G-106

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PHASING AND BARRICADE PLAN - PHASE 1A AND PHASE 1B

DESCRIPTION OF WORK:
 PHASE 1A - COLDMILL PAVEMENT/ PREPARE SURFACE, CONSTRUCT AC PAVEMENT, PERFORM CRACK REPAIRS, OBLITERATE EXISTING MARKINGS AND APPLY HALF APPLICATION PAVEMENT MARKINGS

PHASE 1B - PAVEMENT GROOVING, REFRESH PAVEMENT MARKINGS AND FULL APPLICATION PAVEMENT MARKINGS

- SEQUENCE OF WORK:**
1. INSTALL LIGHTED "X" RUNWAY CLOSURE MARKER AND LOW-PROFILE BARRICADES
 2. PERFORM WORK
 3. REQUEST INSPECTION FOLLOWING CLEANING. PERFORM ADDITIONAL CLEANING AS NEEDED FOLLOWING INSPECTION
 4. REMOVE LIGHTED "X" RUNWAY CLOSURE MARKER AND LOW-PROFILE BARRICADES

WORK HOURS:
 2300-0700, 7 DAYS/ WEEK

DURATION:
 PHASE 1A - 8 CALENDAR DAYS

PHASE 1B - 4 CALENDAR DAYS

SCHEDULE DATES:
 TBD

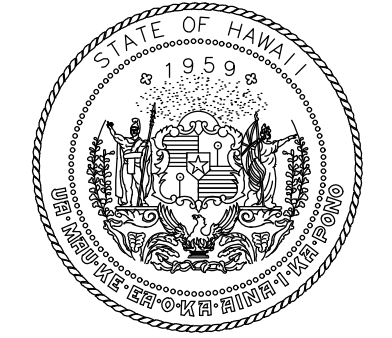
- NOTAMS (WORK HOURS ONLY):**
1. RWY 2-20 CLOSED
 2. TWY C CLOSED
 3. TWY D CLOSED
 4. RWY 2-20 UNGROOVED BETWEEN TWY C AND TWY E (PHASE 1A ONLY)

- NAVAID STATUS:**
1. RWY 2 LOC/ DME: OTS
 2. RWY 2 GS: OTS
 3. RWY 2 PAPI: OTS
 4. RWY 2 MALSR: OTS
 5. RWY 20 PAPI: OTS
 6. RWY 5 PAPI: IN SERVICE

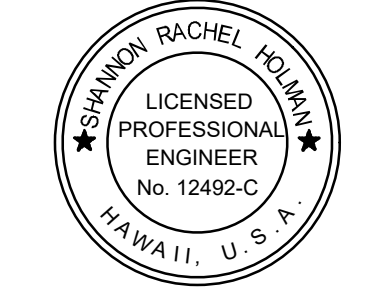
- PHASING NOTES:**
1. SEQUENCE OF WORK SHALL FOLLOW THE CONSTRUCTION TIMELINE SHOWN ON DWG G-106. CONCURRENT WORK IS NOT PERMITTED.
 2. ADDITIONAL LOW-PROFILE BARRICADES SHALL BE ADDED AS DIRECTED BY AIRPORT OPERATIONS.
 3. BARRICADES SHALL BE PLACED ACROSS THE HOLD SHORT MARKINGS UNLESS SHOWN OTHERWISE.
 4. NAVAIDS WILL ONLY BE OFF DURING CONSTRUCTION.
 5. NO INCURSION WITHIN THE GLIDE SLOPE CRITICAL AREA SHALL OCCUR AT ANY TIME

LEGEND:

- WORK AREA
- LOW-PROFILE BARRICADES (CONTINUOUS)
- LIGHTED "X" RUNWAY CLOSURE MARKER
- CONTRACTOR STAGING AREA
- CONTRACTOR HAUL ROUTE (2 WAY)
- AIRCRAFT TRAVEL ROUTE
- ACCESS GATE (EXISTING)



Airports Division
 DEPARTMENT OF TRANSPORTATION
 STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Signature: [Signature] 4/30/24
 Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
FL	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
 NOVEMBER 2022
 DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
 KAHULUI AIRPORT
 KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PHASING AND BARRICADE PLAN PHASE 1A AND PHASE 1B

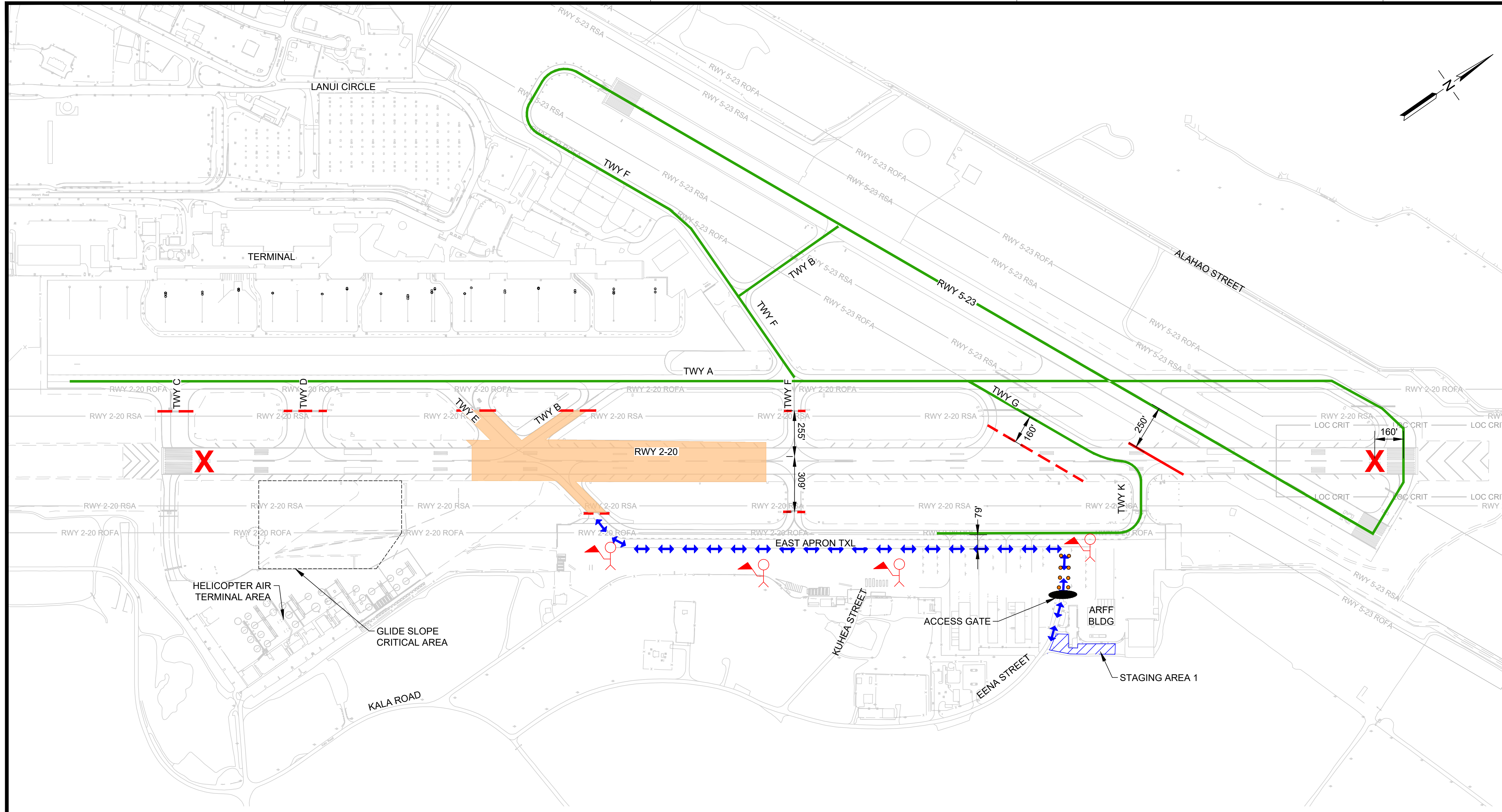
DATE : 11/2022

SHEET : 7 OF 46 SHEETS

DWG. NO.

G-107

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PHASING AND BARRICADE PLAN - PHASE 2A AND PHASE 2B

DESCRIPTION OF WORK:
 PHASE 2A - COLDMILL PAVEMENT/ PREPARE SURFACE, CONSTRUCT AC PAVEMENT, PERFORM CRACK REPAIRS, OBLITERATE EXISTING MARKINGS AND APPLY HALF APPLICATION PAVEMENT MARKINGS

PHASE 2B - PAVEMENT GROOVING, REFRESH PAVEMENT MARKINGS AND FULL APPLICATION PAVEMENT MARKINGS

- SEQUENCE OF WORK:**
1. INSTALL LIGHTED "X" RUNWAY CLOSURE MARKER AND LOW-PROFILE BARRICADES
 2. PERFORM WORK
 3. REQUEST INSPECTION FOLLOWING CLEANING. PERFORM ADDITIONAL CLEANING AS NEEDED FOLLOWING INSPECTION
 4. REMOVE LIGHTED "X" RUNWAY CLOSURE MARKER AND LOW-PROFILE BARRICADES

WORK HOURS:
 2300-0700, 7 DAYS/ WEEK

DURATION:
 PHASE 2A - 8 CALENDAR DAYS
 PHASE 2B - 4 CALENDAR DAYS

SCHEDULE DATES:
 TBD

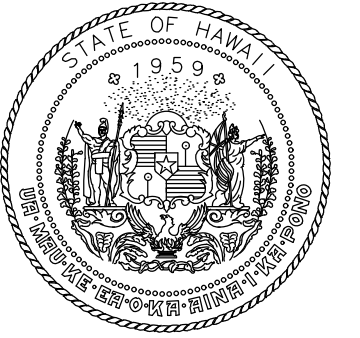
- NOTAMS (WORK HOURS ONLY):**
1. RWY 2-20 CLOSED
 2. TWY B CLOSED BETWEEN TWY A AND RWY 2-20
 3. TWY C CLOSED
 4. TWY D CLOSED
 5. TWY E CLOSED
 6. TWY F CLOSED BETWEEN EAST RAMP AND TWY A
 7. RWY 2-20 UNGROOVED BETWEEN TWY C AND TWY F (PHASE 2A ONLY)

- NAVAID STATUS:**
1. RWY 2 LOC/ DME: OTS
 2. RWY 2 GS: OTS
 3. RWY 2 PAPI: OTS
 4. RWY 2 MALSR: OTS
 5. RWY 20 PAPI: OTS
 6. RWY 5 PAPI: IN SERVICE

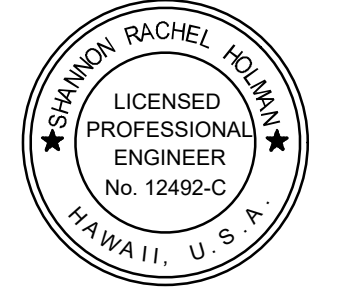
- PHASING NOTES:**
1. SEQUENCE OF WORK SHALL FOLLOW THE CONSTRUCTION TIMELINE SHOWN ON DWG G-106. CONCURRENT WORK IS NOT PERMITTED.
 2. ADDITIONAL LOW-PROFILE BARRICADES SHALL BE ADDED AS DIRECTED BY AIRPORT OPERATIONS.
 3. BARRICADES SHALL BE PLACED ACROSS THE HOLD SHORT MARKINGS UNLESS SHOWN OTHERWISE.
 4. HAUL ROUTE OFFSET FROM E EAST RAMP TXL IS BASED ON ADG 3.
 5. NO INCURSION WITHIN THE GLIDE SLOPE CRITICAL AREA SHALL OCCUR AT ANY TIME

LEGEND:

- WORK AREA
- LOW-PROFILE BARRICADES G-108 | G-113
- LOW-PROFILE BARRICADES (CONTINUOUS)
- LIGHTED "X" RUNWAY CLOSURE MARKER 1 G-108 | G-113
- CONTRACTOR STAGING AREA 2 G-108 | G-113
- CONTRACTOR HAUL ROUTE (2 WAY) 4 G-108 | G-113
- AIRCRAFT TRAVEL ROUTE
- HAUL ROUTE CONES
- FLAGGERS
- ACCESS GATE (EXISTING)



Airports Division
 DEPARTMENT OF TRANSPORTATION
 STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Signature: [Signature] 4/30/24
 Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
FL	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
-----	------	-----------

CONSTRUCTION DOCUMENTS
 NOVEMBER 2022
 DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
 KAHULUI AIRPORT
 KAHULUI, MAUI, HAWAII

PROJECT NO.:

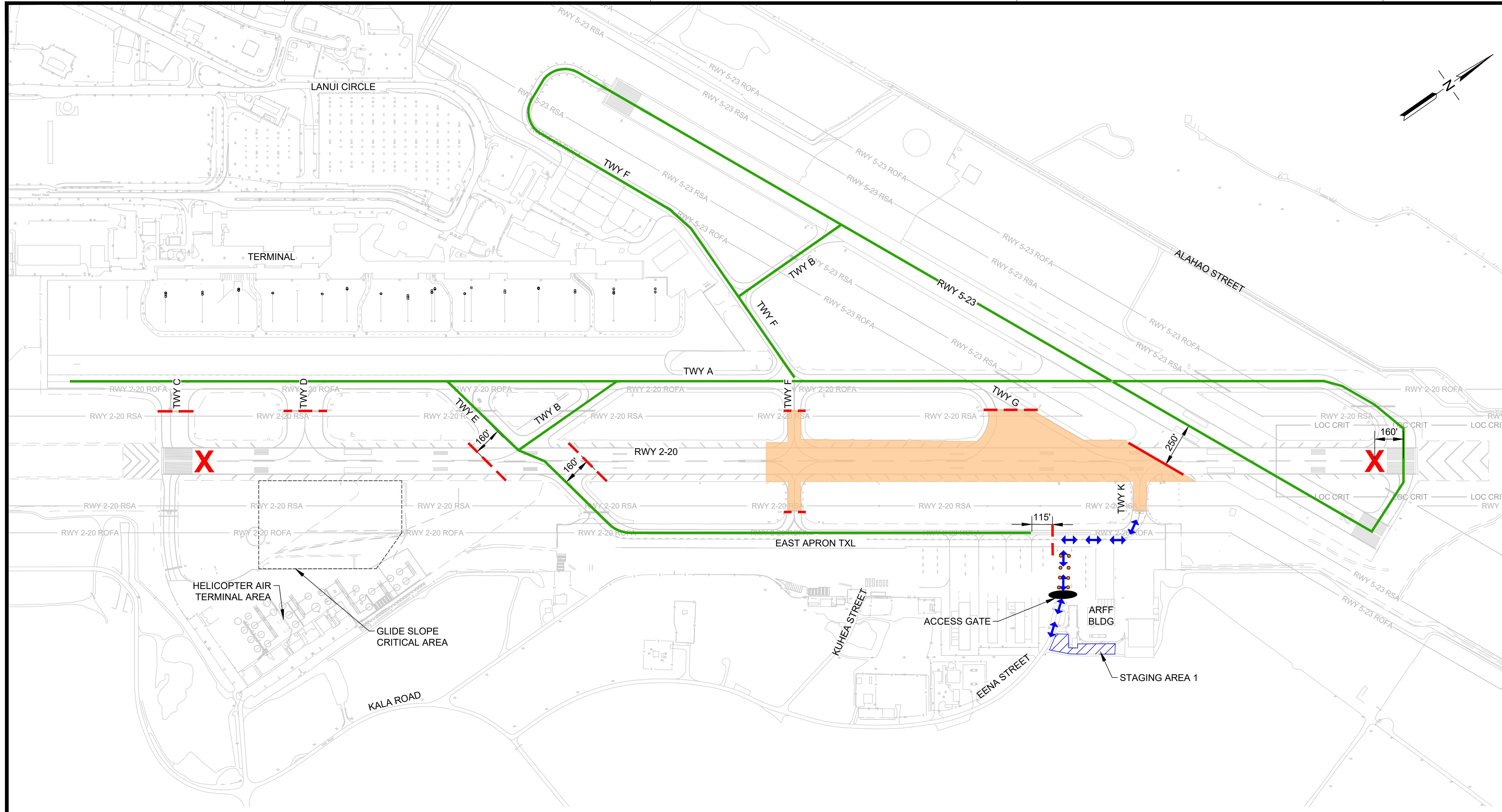
AM1022-21R

SHEET TITLE:

PHASING AND BARRICADE PLAN PHASE 2A AND PHASE 2B

DATE :	DWG. NO.
11/2022	G-108
SHEET :	
8 OF 46 SHEETS	

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**PHASING AND BARRICADE PLAN -
PHASE 3A AND PHASE 3B**

DESCRIPTION OF WORK:
PHASE 3A - COLDMILL PAVEMENT/ PREPARE SURFACE, CONSTRUCT AC PAVEMENT, PERFORM CRACK REPAIRS, OBLITERATE EXISTING MARKINGS AND APPLY HALF APPLICATION PAVEMENT MARKINGS

PHASE 3B - PAVEMENT GROOVING, REFRESH PAVEMENT MARKINGS AND FULL APPLICATION PAVEMENT MARKINGS

SEQUENCE OF WORK:
1. INSTALL LIGHTED "X" RUNWAY CLOSURE MARKER AND LOW-PROFILE BARRICADES
2. PERFORM WORK
3. REQUEST INSPECTION FOLLOWING CLEANING. PERFORM ADDITIONAL CLEANING AS NEEDED FOLLOWING INSPECTION
4. REMOVE LIGHTED "X" RUNWAY CLOSURE MARKER AND LOW-PROFILE BARRICADES

WORK HOURS:
2300-0700, 7 DAYS/WEEK

DURATION:
PHASE 3A - 11 CALENDAR DAYS

PHASE 3B - 4 CALENDAR DAYS

SCHEDULE DATES:
TBD

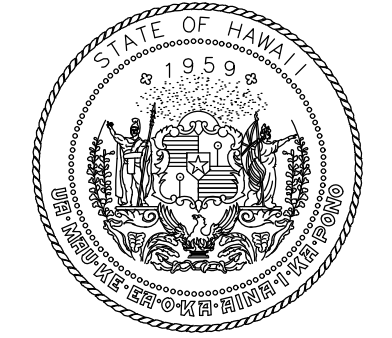
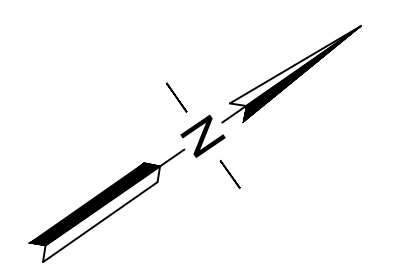
NOTAMS (WORK HOURS ONLY):
1. RWY 2-20 CLOSED
2. TWY C CLOSED
3. TWY D CLOSED
4. TWY F CLOSED BETWEEN TWY A AND EAST RAMP
5. TWY G CLOSED
6. TWY K CLOSED
7. RWY 2-20 UNGROOVED BETWEEN TWY C AND RWY 5-23 (PHASE 3A ONLY)

NAVAID STATUS:
1. RWY 2 LOC/ DME: OTS
2. RWY 2 GS: OTS
3. RWY 2 PAPI: OTS
4. RWY 2 MALSR: OTS
5. RWY 20 PAPI: OTS
6. RWY 5 PAPI: IN SERVICE

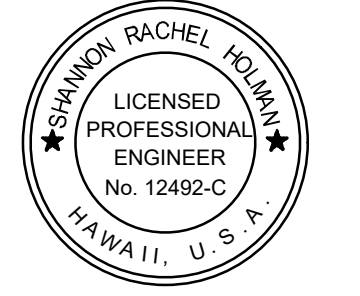
PHASING NOTES:
1. PHASE 6 MAY BE CONCURRENT WITH PHASE 3
2. ADDITIONAL LOW-PROFILE BARRICADES SHALL BE ADDED AS DIRECTED BY AIRPORT OPERATIONS
3. BARRICADES SHALL BE PLACED ACROSS THE HOLD SHORT MARKINGS UNLESS SHOWN OTHERWISE
4. NO INCURSION WITHIN THE GLIDE SLOPE CRITICAL AREA SHALL OCCUR AT ANY TIME

LEGEND:

- WORK AREA
- LOW-PROFILE BARRICADES
- LOW-PROFILE BARRICADES (CONTINUOUS)
- LIGHTED "X" RUNWAY CLOSURE MARKER
- CONTRACTOR STAGING AREA
- CONTRACTOR HAUL ROUTE (2 WAY)
- AIRCRAFT TRAVEL ROUTE
- HAUL ROUTE CONES
- ACCESS GATE (EXISTING)



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
FL	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

**PHASING AND BARRICADE PLAN
PHASE 3A AND PHASE 3B**

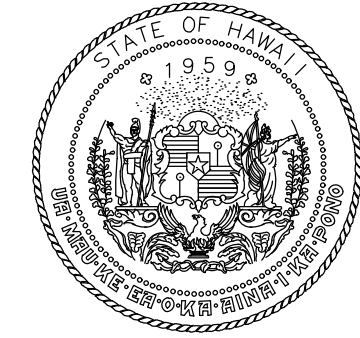
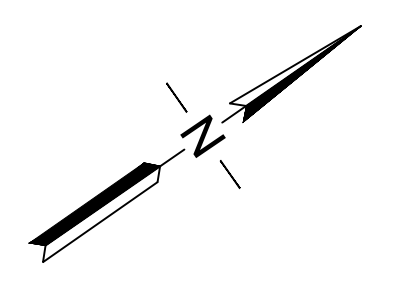
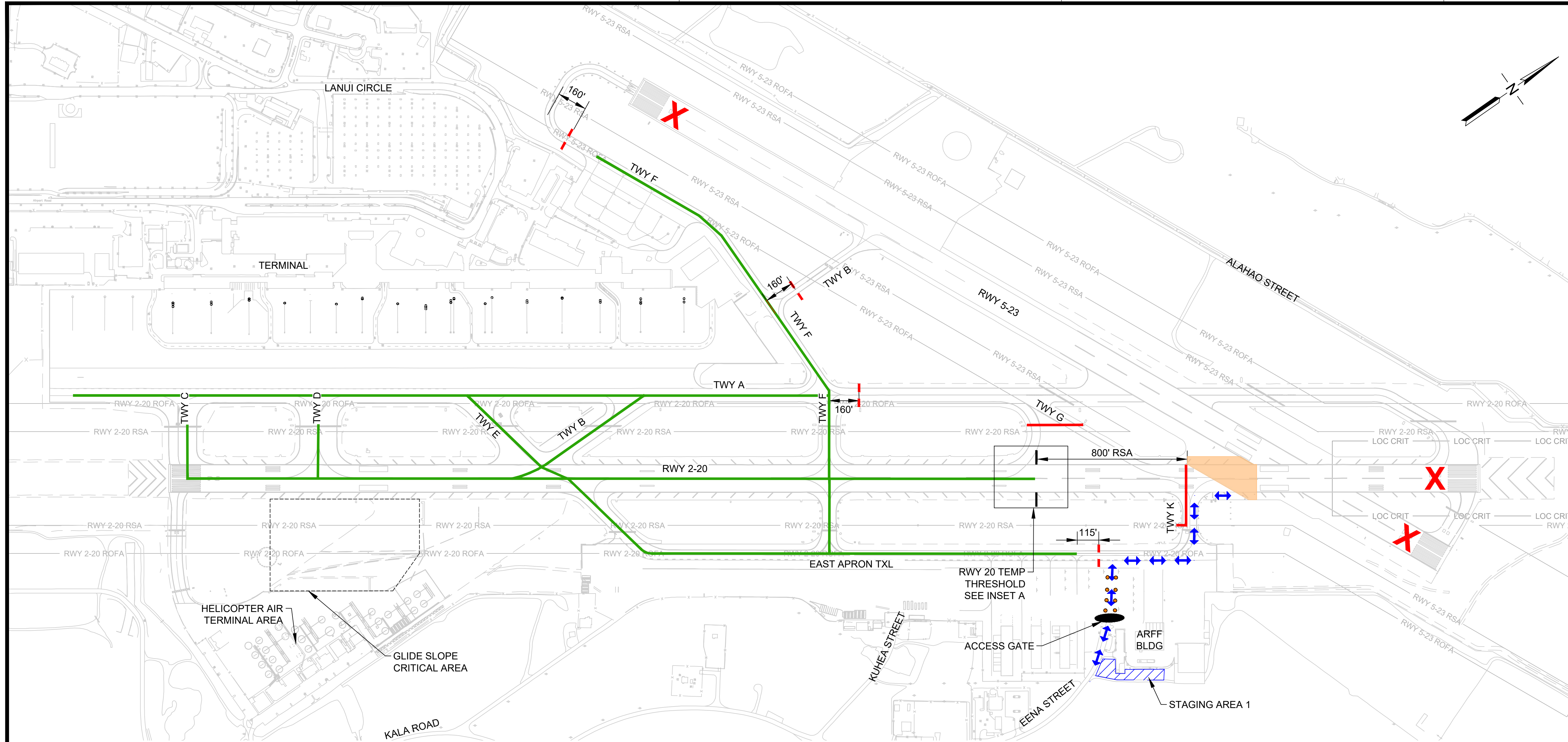
DATE : 11/2022

SHEET : 9 OF 46 SHEETS

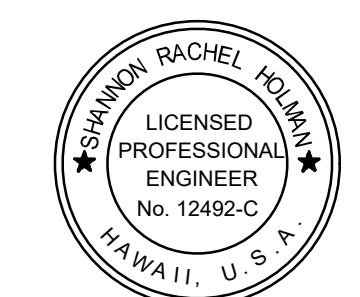
DWG. NO.

G-109

C:\USERS\JBERTON\ENGINEERS & ASSOCIATES\RTMTC\OGG 2-20\REHAB - DOCUMENTS\1022-20-OGG-PHASE-BARR-INTRM.DWG



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
FL	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PHASING AND BARRICADE PLAN PHASE 4

DATE :	DWG. NO.
11/2022	G-110
SHEET :	
10 OF 46 SHEETS	

PHASING AND BARRICADE PLAN - PHASE 4

DESCRIPTION OF WORK:
PERFORM CRACK REPAIRS, OBLITERATE EXISTING MARKINGS AND APPLY FULL APPLICATION PAVEMENT MARKINGS

- SEQUENCE OF WORK:**
1. INSTALL LIGHTED "X" RUNWAY CLOSURE MARKER AND LOW-PROFILE BARRICADES
 2. PERFORM WORK
 3. REQUEST INSPECTION FOLLOWING CLEANING. PERFORM ADDITIONAL CLEANING AS NEEDED FOLLOWING INSPECTION
 4. REMOVE LIGHTED "X" RUNWAY CLOSURE MARKER, TEMP THRESHOLD LIGHTS, RDR SIGN AND EDGE LIGHT COVERS AND LOW-PROFILE BARRICADES

WORK HOURS:
0030-0600, SUNDAYS ONLY

DURATION:
2 SUNDAY SHIFTS

SCHEDULE DATES:
TBD

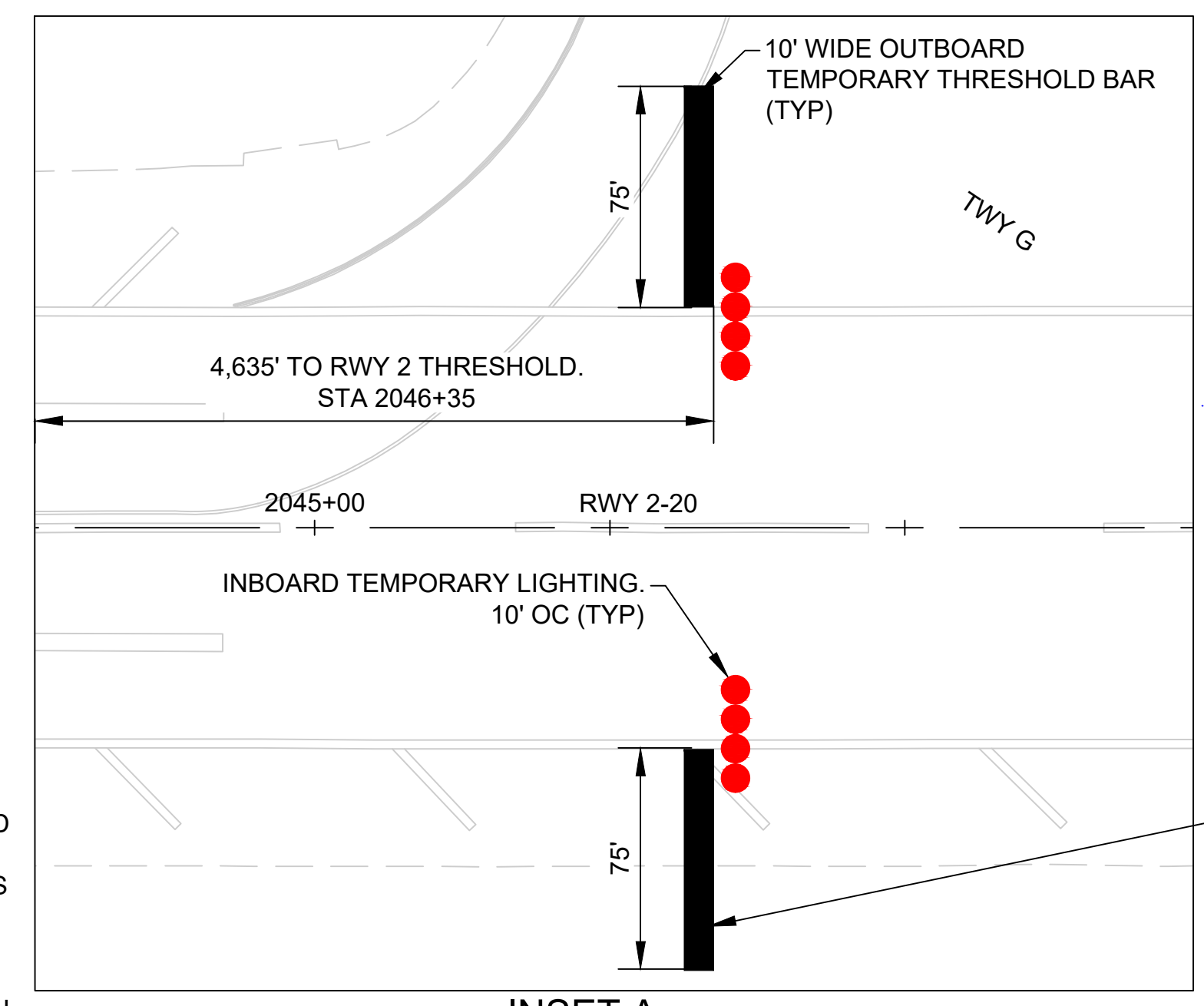
NOTAMS (WORK HOURS ONLY):

1. RWY 2 RESTRICTED TO ADG B-III (TURBOPROP OR SMALLER)
2. RWY 2 TORA/TODA/ASDA/LDA = 4,635'
3. RWY 20 CLOSED
4. NONSTANDARD RWY 2 LIGHTING
5. RWY 5-23 CLOSED

6. TWY A CLOSED BETWEEN TWY F AND RWY 5-23
7. TWY B CLOSED BETWEEN TWY F AND RWY 5-23
8. TWY F CLOSED WEST OF COMMUTER APRON
9. TWY G CLOSED
10. TWY K CLOSED
11. RWY 2-20 UNGROOVED BETWEEN TWY C AND RWY 5-23

- NAVAID STATUS:**
1. RWY 2 LOC/DME: OTS
 2. RWY 2 GS: OTS
 3. RWY 2 PAPI: IN SERVICE
 4. RWY 2 MALSR: IN SERVICE
 5. RWY 20 PAPI: OTS
 6. RWY 5 PAPI: OTS

- PHASING NOTES:**
1. RWY 2 RESTRICTED TO B-III AND SMALLER AIRCRAFT.
 2. DURING KONA WIND CONDITIONS. CONTRACTOR SHALL COORDINATE WITH ATC AND HCF 2-HRS PRIOR TO START OF EACH WORK SHIFT. WORK SHALL BE CANCELED IF KONA WIND CONDITIONS ARE FORECAST DURING WORKING HOURS. IF WEATHER CONDITIONS CHANGE, THE CONTRACTOR SHALL VACATE THE WORK AREA WITHIN 1-HR OF NOTIFICATION.
 3. CONTRACTOR SHALL INSTALL TEMP THRESHOLD LIGHTS, COVER RDR SIGNS, AND COVER EDGE LIGHTS ON THE CLOSED PORTION OF THE RUNWAY.
 4. PLACE BARRICADES ACROSS HOLD SHORT MARKINGS UNLESS SHOWN OTHERWISE
 5. ADDITIONAL LOW-PROFILE BARRICADES SHALL BE ADDED AS DIRECTED BY THE AIRPORT OPERATIONS.
 6. NO INCURSION WITHIN THE GLIDE SLOPE CRITICAL AREA SHALL OCCUR AT ANY TIME



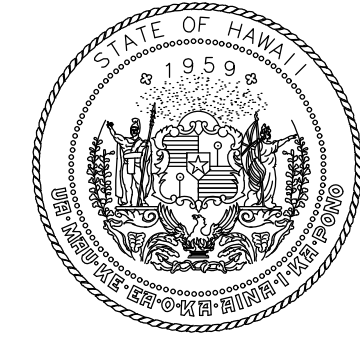
INSET A
RUNWAY 20 TEMPORARY THRESHOLD
SCALE: NTS

LEGEND:

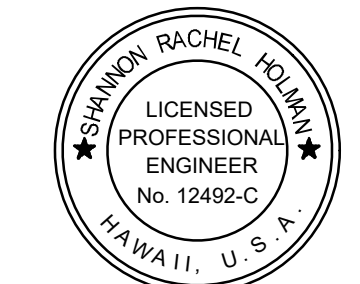
- WORK AREA
- LOW-PROFILE BARRICADES (G-110/G-113)
- LOW-PROFILE BARRICADES (CONTINUOUS)
- LIGHTED "X" RUNWAY CLOSURE MARKER (G-110/G-113)
- CONTRACTOR STAGING AREA
- CONTRACTOR HAUL ROUTE (2 WAY) (G-110/G-113)
- AIRCRAFT TRAVEL ROUTE
- HAUL ROUTE CONES
- ACCESS GATE (EXISTING)
- TEMPORARY THRESHOLD BAR AND LIGHTING DETAIL (G-110/G-113)



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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
FL	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

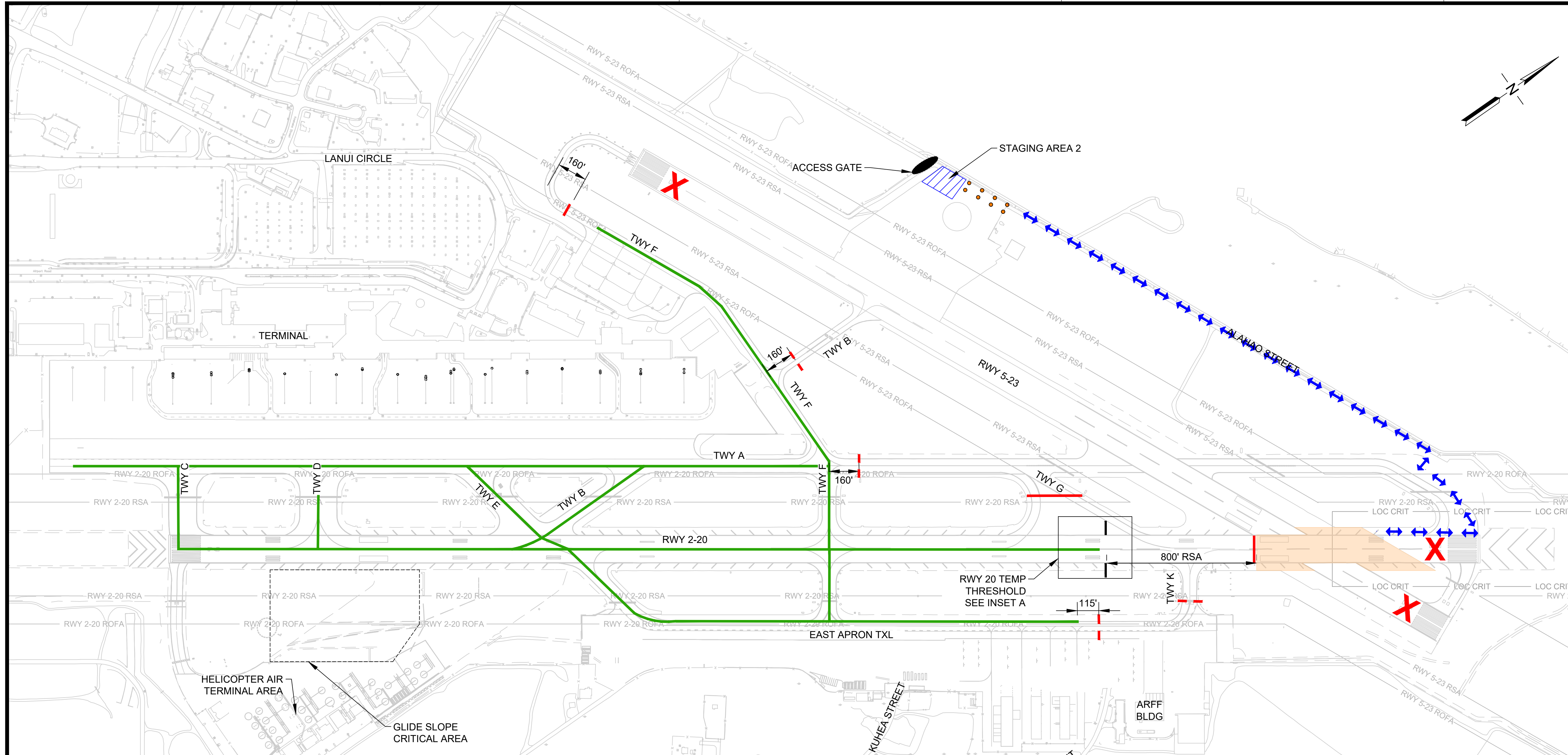
PROJECT NO.:

AM1022-21R

SHEET TITLE:

PHASING AND BARRICADE PLAN
PHASE 5

DATE :	DWG. NO.
11/2022	G-111
SHEET :	
11 OF 46 SHEETS	



PHASING AND BARRICADE PLAN - PHASE 5

DESCRIPTION OF WORK:
PERFORM CRACK REPAIRS, OBLITERATE EXISTING MARKINGS AND APPLY FULL APPLICATION PAVEMENT MARKINGS

- SEQUENCE OF WORK:
1. INSTALL LIGHTED "X" RUNWAY CLOSURE MARKER AND LOW-PROFILE BARRICADES
 2. PERFORM WORK
 3. REQUEST INSPECTION FOLLOWING CLEANING. PERFORM ADDITIONAL CLEANING AS NEEDED FOLLOWING INSPECTION
 4. REMOVE LIGHTED "X" RUNWAY CLOSURE MARKER, TEMP THRESHOLD LIGHTS, RDR SIGN AND EDGE LIGHT COVERS AND LOW-PROFILE BARRICADES

WORK HOURS:
2300-0600, 7 DAYS/ WEEK

DURATION:
5 CALENDAR DAYS

SCHEDULE DATES:
TBD

- NOTAMS (WORK HOURS ONLY):
1. RWY 2 RESTRICTED TO ADG B-III TURBOPROP OR SMALLER
 2. RWY 2 TORA/TODA/ASDA/LDA = 5,006'
 3. RWY 20 CLOSED
 4. NONSTANDARD RWY 2 LIGHTING
 5. RWY 5-23 CLOSED

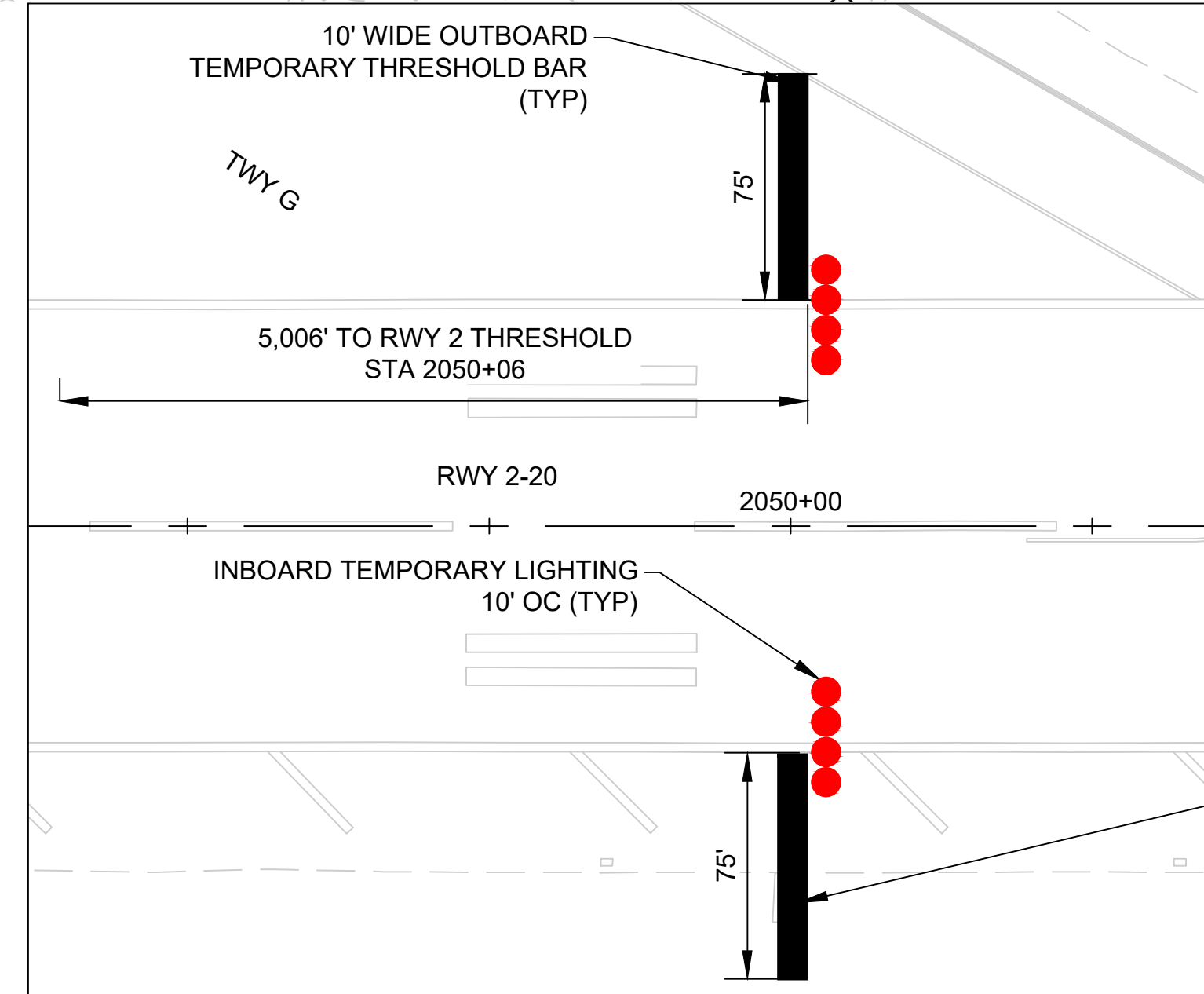
6. TWY A CLOSED BETWEEN TWY F AND RWY 5-23
7. TWY B CLOSED BETWEEN TWY F AND RWY 5-23
6. TWY F CLOSED WEST OF COMMUTER APRON
7. TWY G CLOSED
8. TWY K CLOSED
9. RWY 2-20 UNGROOVED BETWEEN TWY C AND RWY 5-23

NAVAID STATUS:

1. RWY 2 LOC/ DME: OTS
2. RWY 2 GS: OTS
3. RWY 2 PAPI: IN SERVICE
4. RWY 2 MALS: IN SERVICE
5. RWY 20 PAPI: OTS
6. RWY 5 PAPI: OTS

PHASING NOTES:

1. RWY 2 RESTRICTED TO B-III AND SMALLER AIRCRAFT.
2. DURING KONA WIND CONDITIONS, CONTRACTOR SHALL COORDINATE WITH ATC AND HCF 2-HRS PRIOR TO START OF EACH WORK SHIFT. WORK SHALL BE CANCELED IF KONA WIND CONDITIONS ARE FORECAST DURING WORKING HOURS. IF WEATHER CONDITIONS CHANGE, THE CONTRACTOR SHALL VACATE THE WORK AREA WITHIN 1-HR OF NOTIFICATION.
3. CONTRACTOR SHALL INSTALL TEMP THRESHOLD LIGHTS, COVER RDR SIGNS, AND COVER EDGE LIGHTS ON THE CLOSED PORTION OF RUNWAY 2-20.
4. PLACE BARRICADES ACROSS HOLD SHORT MARKINGS UNLESS SHOWN OTHERWISE
5. ADDITIONAL LOW-BARRICADES SHALL BE ADDED AS DIRECTED BY THE AIRPORT OPERATIONS.
6. NO INCURSION WITHIN THE GLIDE SLOPE CRITICAL AREA SHALL OCCUR AT ANY TIME



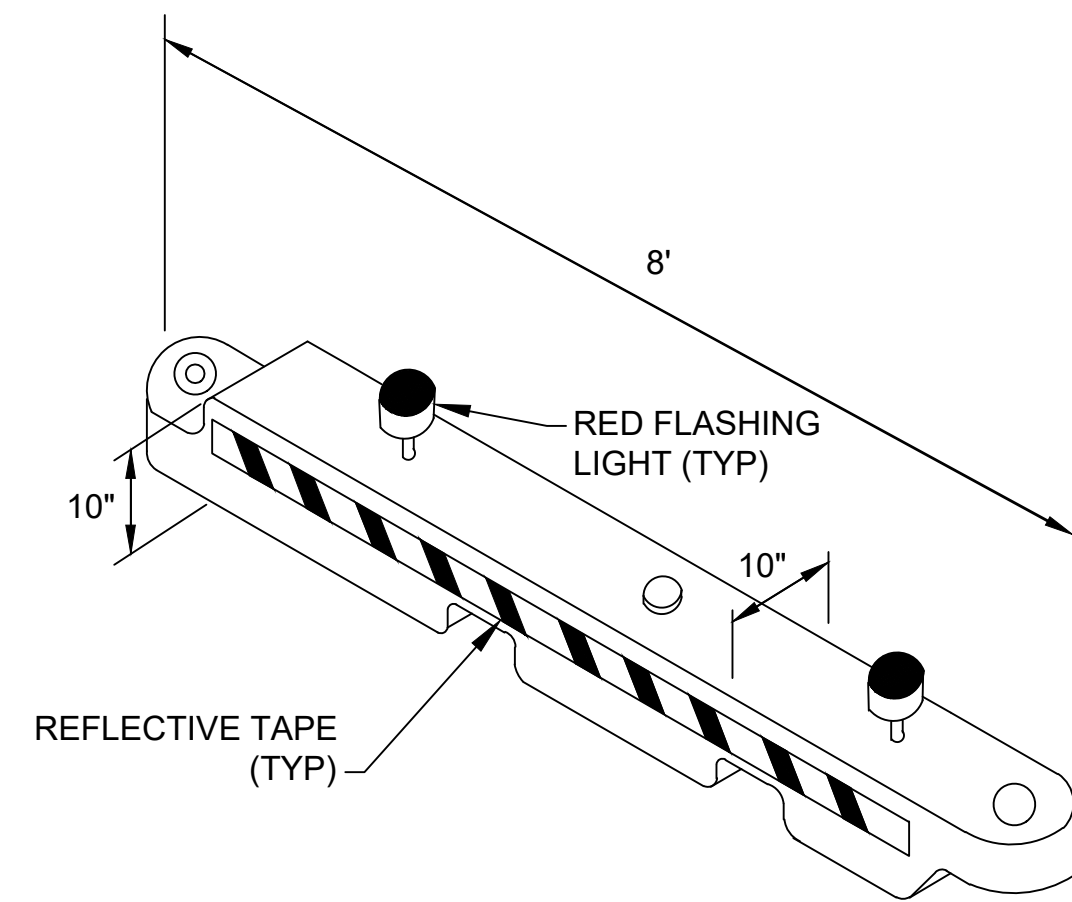
INSET A
RUNWAY 20 TEMPORARY THRESHOLD
SCALE: NTS

LEGEND:

- WORK AREA
- LOW-PROFILE BARRICADES (G-111|G-113)
- LOW-PROFILE BARRICADES (CONTINUOUS)
- LIGHTED "X" RUNWAY CLOSURE MARKER (G-111|G-113)
- CONTRACTOR STAGING AREA (G-111|G-113)
- CONTRACTOR HAUL ROUTE (2 WAY) (G-111|G-113)
- AIRCRAFT TRAVEL ROUTE
- HAUL ROUTE CONES
- ACCESS GATE (EXISTING)
- TEMPORARY THRESHOLD BAR AND LIGHTING DETAIL (G-111|G-113)



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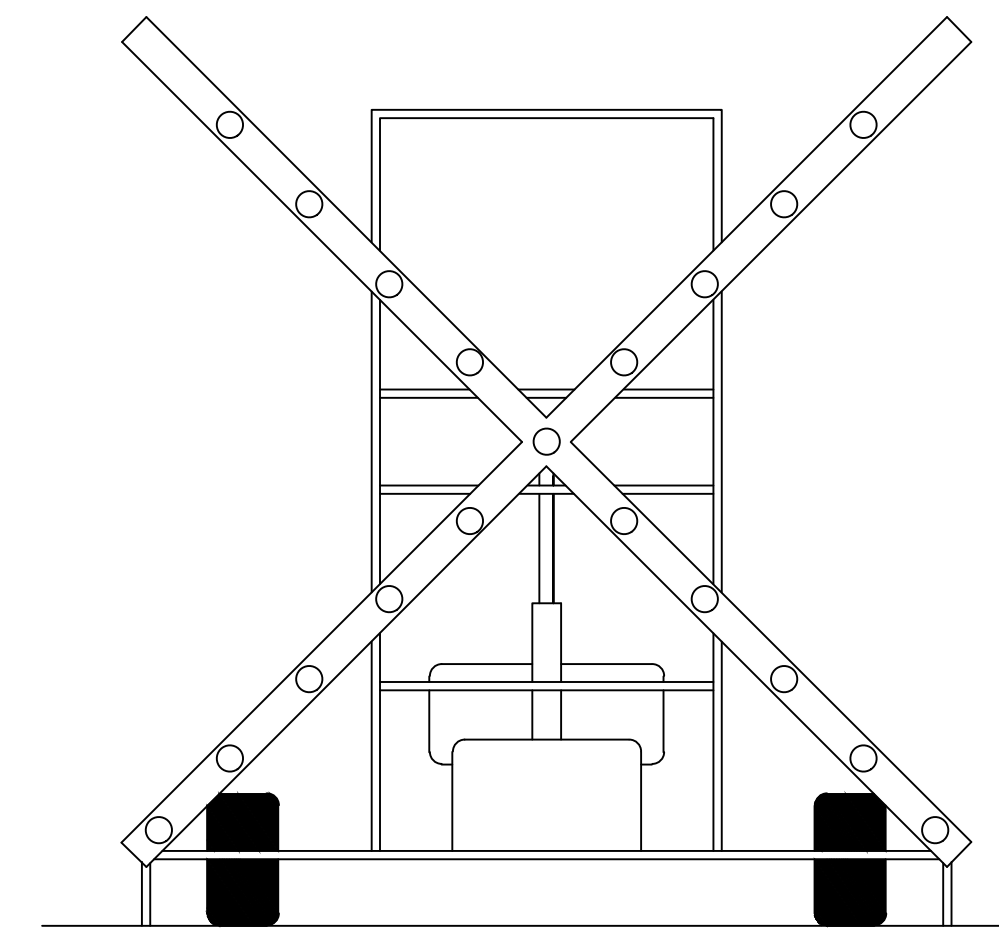


BARRICADE NOTES:

- WHERE INDICATED ON THE PLANS, LOW PROFILE BARRICADES (CONTINUOUS) SHALL BE INTERLOCKED CREATING A CONTINUOUS LINE. IN ALL OTHER LOCATIONS SPACING BETWEEN LOW PROFILE BARRICADES SHALL BE 15 FT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING PROPER POSITIONING AND OPERATION OF ALL BARRICADES FOR THE DURATION OF THE PROJECT.
- THE LOW PROFILE BARRICADES SHALL BE WEIGHTED AGAINST JET BLAST AND CAPABLE OF WITHSTANDING UP TO 110 MPH WIND FORCES. THE CONTRACTOR SHALL IMMEDIATELY REPLACE ANY BARRICADES THAT ARE PUNCTURED OR DO NOT RETAIN WATER.
- INSTALL A MINIMUM OF 2 BATTERY OPERATED RED PHOTOCELL LIGHTS EQUALLY SPACED PER EACH 8' LONG BARRICADE. LIGHTS SHALL MAINTAIN SUCH INTENSITY SO AS TO BE READILY IDENTIFIED FROM DISTANCES OF 200' OR GREATER DURING DARKNESS PERIODS.
- THE CONTRACTOR SHALL PROVIDE A SUBMITTAL TO THE ENGINEER FOR REVIEW OF THE PROPOSED LOW PROFILE BARRICADE AND RED PHOTOCELL LIGHTS TYPE AND MANUFACTURE PRIOR TO ORDERING OR ACQUIRING ANY BARRICADES. THE SUBMITTAL SHALL CONTAIN SUFFICIENT INFORMATION INCLUDING AS A MINIMUM BARRICADE TYPE, SIZE, MANUFACTURER, AND DATE OF MANUFACTURE, TO PROVIDE THE ENGINEER WITH SUFFICIENT INFORMATION TO PERFORM A THOROUGH AND COMPLETE REVIEW.

1 LOW PROFILE BARRICADES

G-107, G-108, G-109, G-113 SCALE: NTS
G-110, G-111, G-112



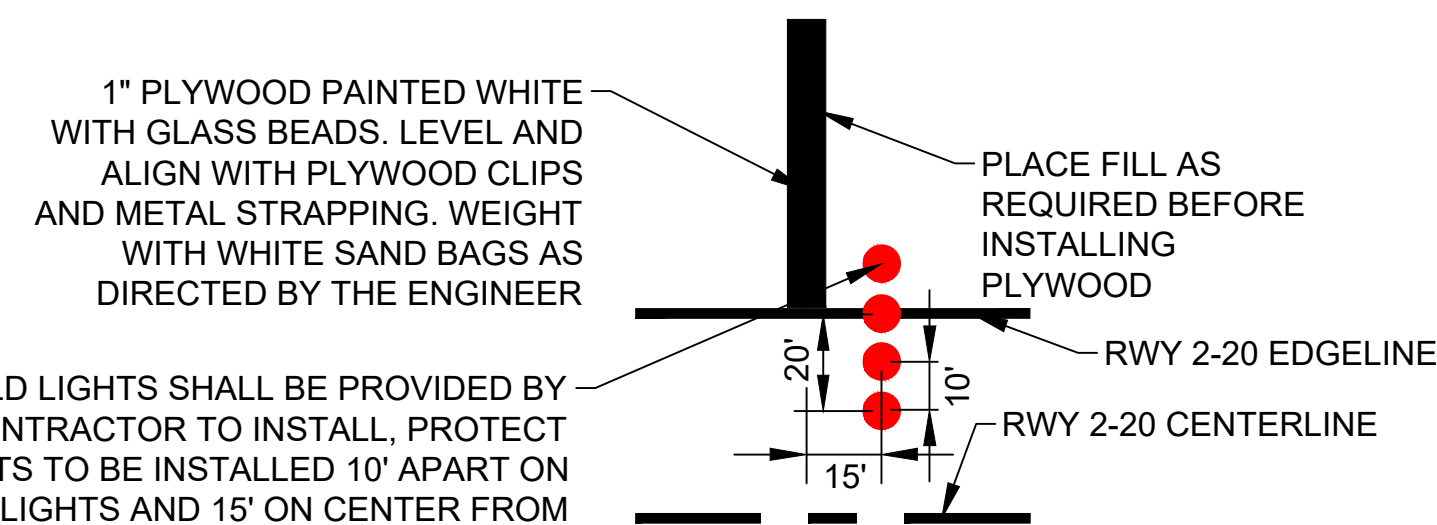
LIGHTED 'X' NOTES:

THE LIGHTED "X" RUNWAY CLOSURE MARKER SHALL CONFORM WITH FAA AC 150/5345-55 LATEST EDITION, AND AT A MINIMUM SHALL:

- BE A PORTABLE, TOWABLE UNIT THAT CAN BE QUICKLY MOVED TO AND FROM THE RUNWAY.
- CONSIST OF CLEAR INCANDESCENT OR LED LAMPS THAT TRANSMIT A WHITE COLOR, ARRANGED IN THE SHAPE OF A LETTER "X" WITH ARMS CROSSED AT AN APPROPRIATE ANGLE TO MAKE THE "X" DISCERNIBLE. THE ARMS SHALL BE PAINTED YELLOW ON ALL SIDES SO THAT THE UNIT WILL BE CLEARLY VISIBLE WHEN IT IS IN UPRIGHT POSITION.
- BE ENERGIZED BY A PORTABLE POWER SUPPLY.
- BE CONTROLLED SO THAT THE LIGHTED SIGNAL WILL FLASH AT AN APPROXIMATE RATE OF 2.5-3 SECONDS "ON" AND 1-2.5 SECONDS "OFF".
- PROVIDE THE FOLLOWING DAYTIME AND NIGHTTIME VISUAL REFERENCE DURING VISUAL FLIGHT RULE (VFR) CONDITIONS WHEN PLACED ON CENTERLINE AND WITHIN 250 FEET OF THE RUNWAY END:
 - VISIBLE TO THE PILOT AT A RANGE OF AT LEAST FIVE (5) NAUTICAL MILES.
 - RECOGNIZABLE AS A LETTER "X" FROM A RANGE OF AT LEAST ONE (1) NAUTICAL MILE.
- PROVIDE LAMP DIMMING CAPABILITY FOR NIGHTTIME OPERATIONS.
- PRODUCE A SIGNAL THAT PROVIDES A HORIZONTAL COVERAGE TO AT LEAST 15 DEGREES ON EACH SIDE OF THE RUNWAY CENTERLINE, AND A VERTICAL COVERAGE FROM 0 DEGREES TO 10 DEGREES ABOVE HORIZONTAL, BOTH DAY AND NIGHT, AT A RANGE OF 1 NAUTICAL MILES.
- ADJUSTABLE AIMING AND LEVELING TO ALLOW TILTING TO AN OPTIMUM ANGLE OF THREE DEGREES FROM VERTICAL.
- WITHSTAND A MINIMUM WIND SPEED OF AT LEAST 40 MPH WITHOUT AFFECTING AIMING OR OPERATION.
- INCLUDE AN ILLUMINATED FAILURE INDICATOR THAT IS VISIBLE FROM THE BACK (RUNWAY SIDE) OF THE UNIT.
- INCLUDE AN OPERATIONS PLACARD IN A CONSPICUOUS LOCATION THAT INSTRUCTS OPERATORS TO VISUALLY CHECK THE OPERATION OF THE DEVICE EVERY TWO HOURS.
- BE CAPABLE OF ONE PERSON SET-UP IN LESS THAN FIVE MINUTES USING A HYDRAULIC RAISING/LOWERING MECHANISM.
- HAVE DIESEL PORTABLE POWER WITH ADAPTER TO RUN DIRECTLY FROM ELECTRICAL OUTLETS.
- HAVE TRAILER HITCH OPTIONS INCLUDING TANDEM TOWING FOR ON-AIRPORT OPERATIONS.
- HAVE THE ABILITY TO PROVIDE UP TO 120 HOURS OF CONTINUOUS OPERATION.
- HAVE FAIL SAFE PROTECTION TO ENSURE THAT THE UNIT STAYS ON AS CONTINUOUS LIT IF THE FLASHER UNIT SHOULD FAIL.
- HAVE DIMENSIONING AND LIGHTING ARRANGEMENT THAT FOLLOWS THE DESIGN CRITERIA OF THE FAA'S AC 150/5345-55 LATEST EDITION.
- THE CONTRACTOR SHALL PROVIDE A SUBMITTAL TO THE ENGINEER FOR REVIEW OF THE PROPOSED LIGHTED "X" RUNWAY CLOSURE MARKER THAT THE CONTRACTOR PROPOSES TO USE ON THE PROJECT AND PRIOR TO ORDERING OR ACQUIRING ANY UNITS. THE SUBMITTAL SHALL CONTAIN SUFFICIENT INFORMATION ON THE PROPOSED LIGHTED "X" RUNWAY CLOSURE MARKER TYPE, MANUFACTURER, AND DATE OF MANUFACTURE, TO PROVIDE THE ENGINEER WITH SUFFICIENT INFORMATION/DATA TO PERFORM A THOROUGH AND COMPLETE REVIEW. THE CONTRACTOR SHALL FURNISH THE UNITS ONLY AFTER THE ENGINEER HAS TAKEN NO EXCEPTION TO THE LIGHTED "X" RUNWAY CLOSURE MARKER SUBMITTAL.
- CONTRACTOR SHALL HAVE AVAILABLE A MINIMUM OF TWO (2) SPARE BULBS PER MARKER

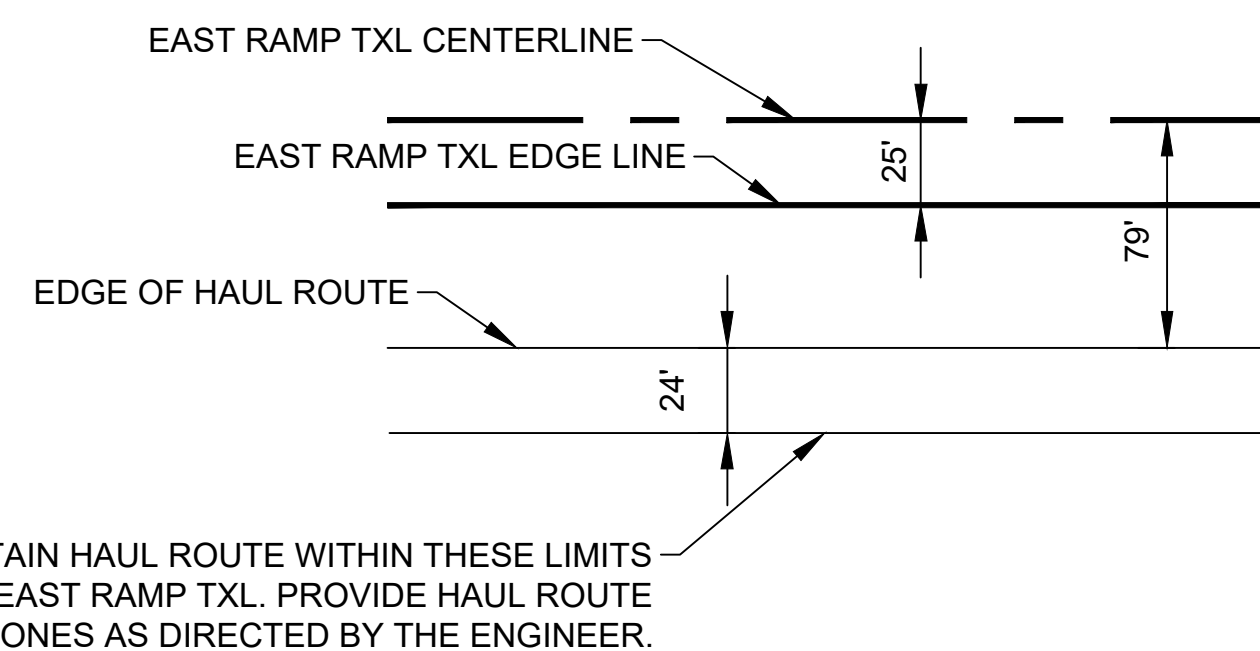
2 LIGHTED "X" RUNWAY CLOSURE MARKER

G-107, G-108, G-109, G-113 SCALE: NTS
G-110, G-111, G-112



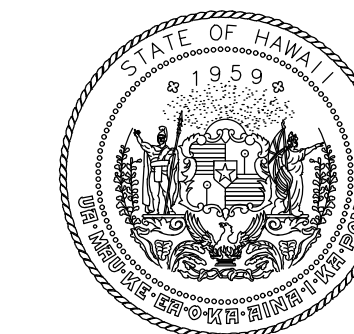
3 TEMPORARY THRESHOLD BAR AND LIGHT DETAIL

G-110, G-111, G-113 SCALE: NTS

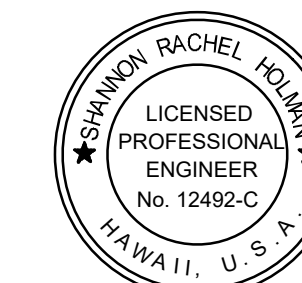


4 HAUL ROUTE DETAIL ADJACENT TO EAST RAMP TXL

G-108, G-109, G-113 SCALE: NTS
G-110, G-111



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Signature: Rachel Holum
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

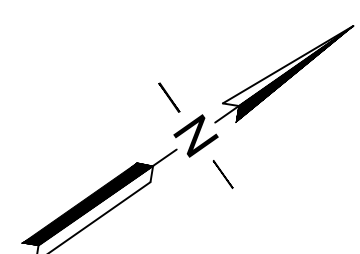
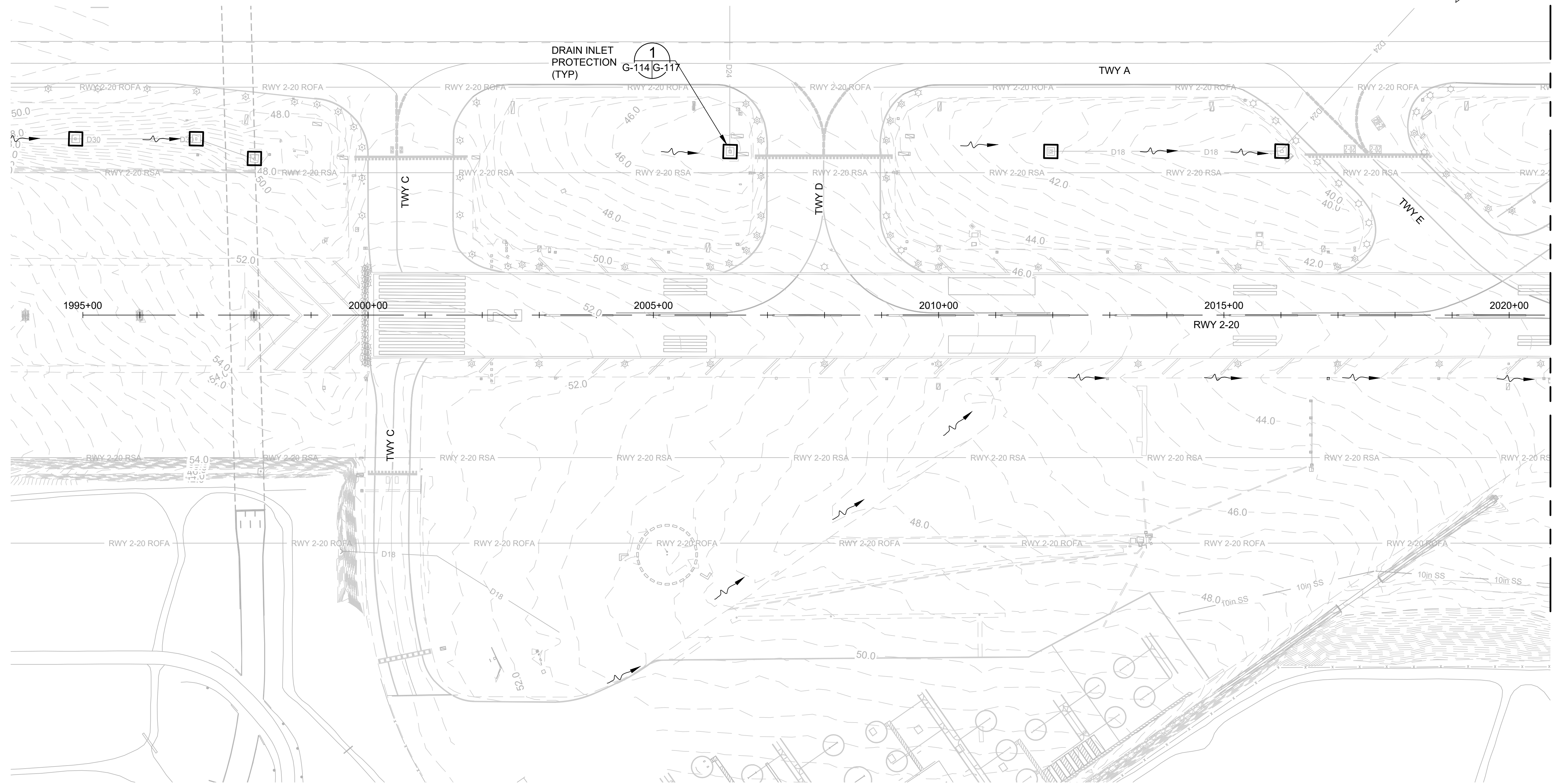
PROJECT NO.:

AM1022-21R




SHEET TITLE:

PHASING AND BARRICADE DETAILS

DATE :	DWG. NO.
11/2022	G-113
SHEET :	
13 OF 46 SHEETS	



LEGEND:

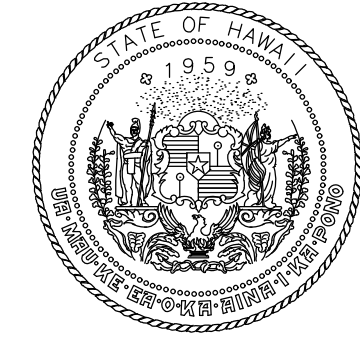
-  DRAIN INLET PROTECTION G-114/G-117
-  -45.0- EXISTING CONTOURS
-  EXISTING DITCH FLOW DIRECTION

NOTES:

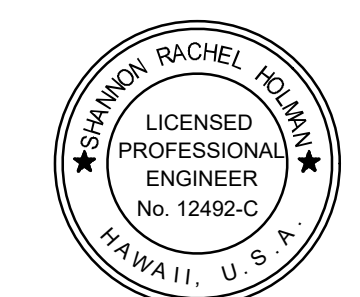
1. PERFORM ALL EROSION CONTROL WORK IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES OUTLINED IN G-117
2. EROSION CONTROL MEASURES, AS SHOWN, OR AS APPROVED BY THE RPR SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION BASED ON THE PHASES OF WORK SHOWN.
3. CONTRACTOR SHALL SUBMIT THEIR EROSION CONTROL PLANS FOR APPROVAL, SHOWING EACH PHASE OF WORK, AS OUTLINED ON THESE PLANS, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.



MATCHLINE, SEE DWG NO G-115



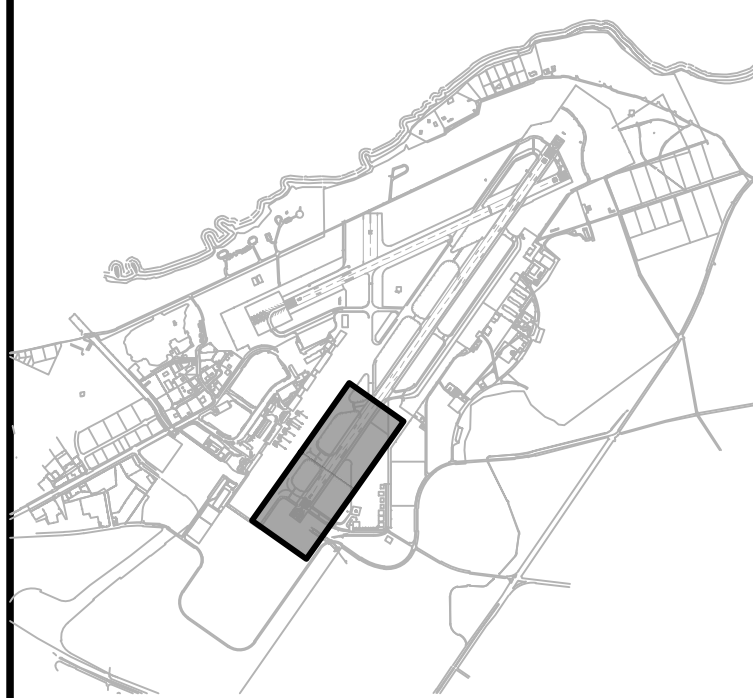
Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Signature: *Rachel Holman* 4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

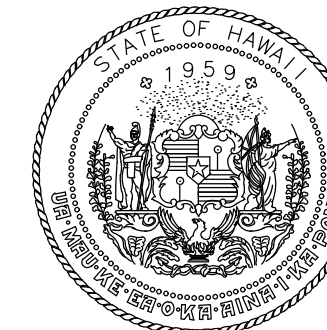
AM1022-21R

SHEET TITLE:

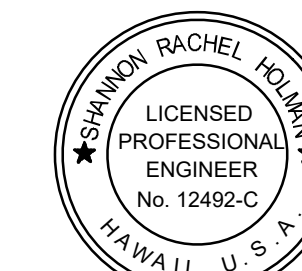
EROSION CONTROL PLAN 1

DATE :	DWG. NO.
11/2022	G-114
SHEET :	
14 OF 46 SHEETS	

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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

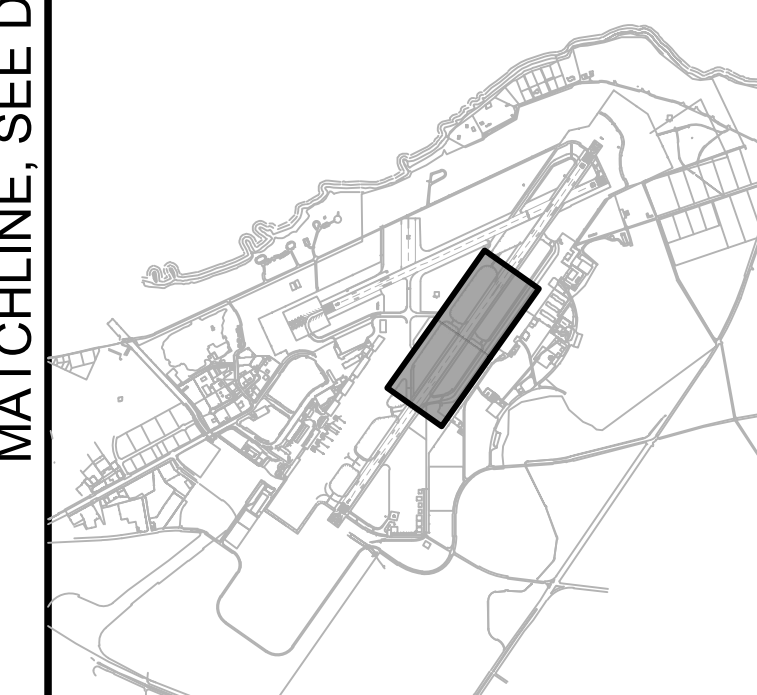


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Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

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DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

EROSION CONTROL
PLAN 2

DATE :

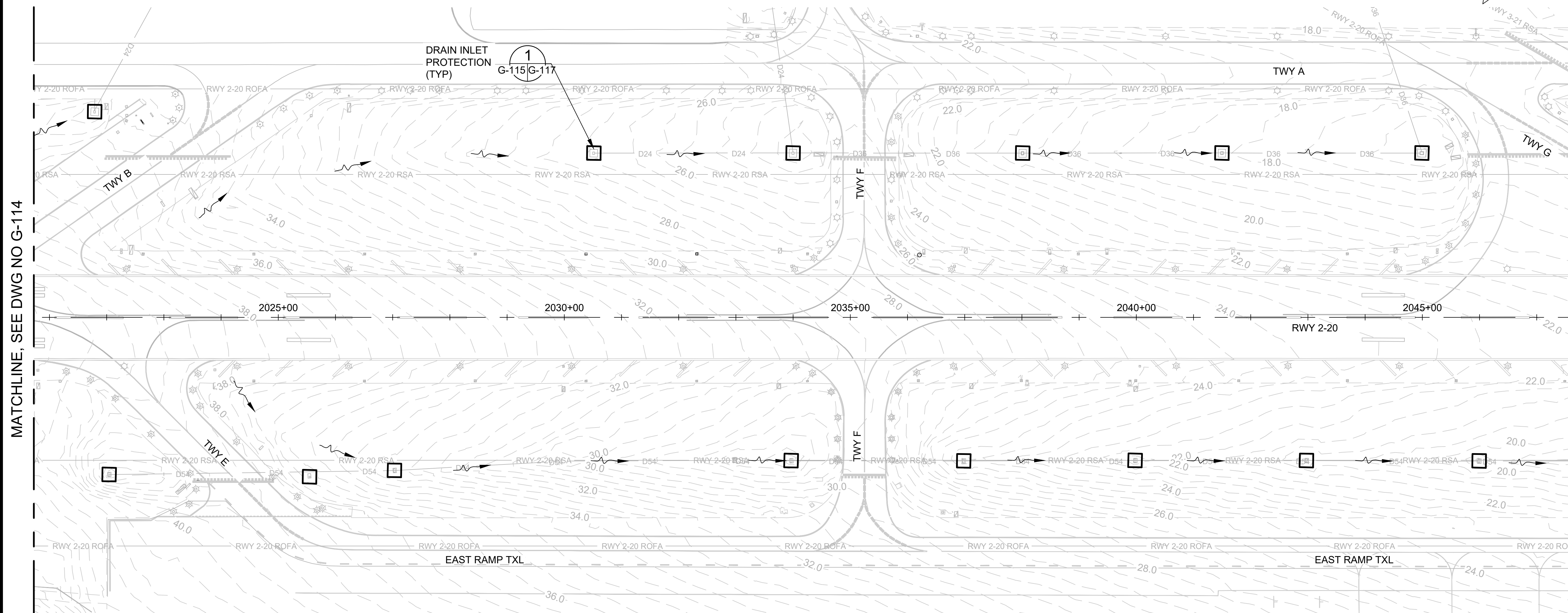
11/2022

SHEET :

15 OF 46 SHEETS

DWG. NO.

G-115



MATCHLINE, SEE DWG NO G-114

MATCHLINE, SEE DWG NO G-116

LEGEND:

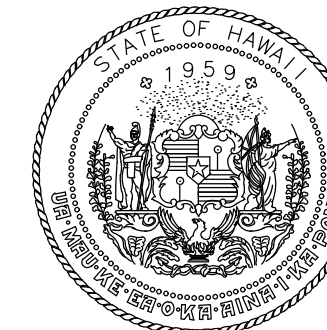
- DRAIN INLET PROTECTION G-115(G-117)
- 45.0- EXISTING CONTOURS
- EXISTING DITCH FLOW DIRECTION

NOTES:

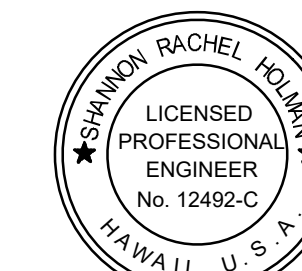
1. PERFORM ALL EROSION CONTROL WORK IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES OUTLINED IN G-117
2. EROSION CONTROL MEASURES, AS SHOWN, OR AS APPROVED BY THE RPR SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION BASED ON THE PHASES OF WORK SHOWN.
3. CONTRACTOR SHALL SUBMIT THEIR EROSION CONTROL PLANS FOR APPROVAL, SHOWING EACH PHASE OF WORK, AS OUTLINED ON THESE PLANS, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.



C:\USERS\JBERTON\ORON ENGINEERS & ASSOCIATES\PROJECTS\1022-21R\HAB - DOCUMENTS\1022-21R\DRAWING\AM1022-21R\EROSION CONTROL PLAN 2.DWG



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

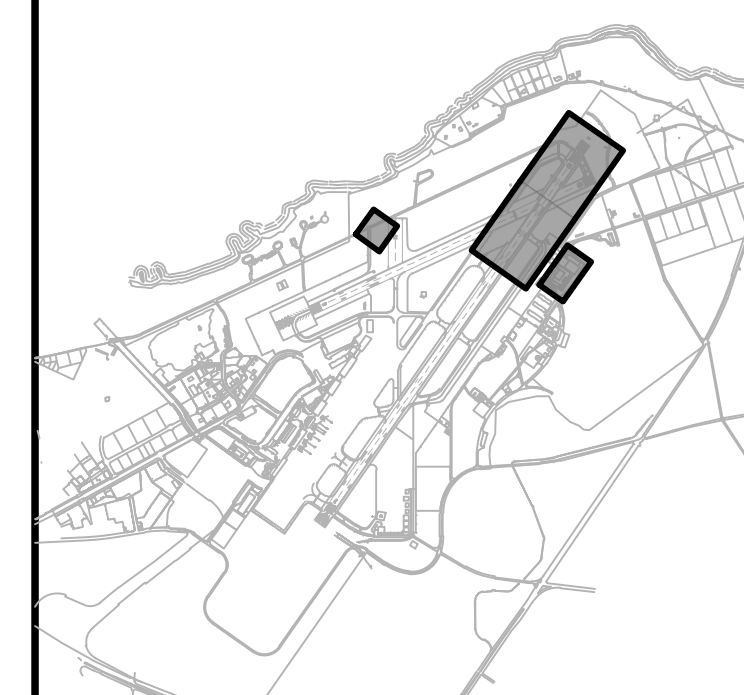


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
-----	------	-----------

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

EROSION CONTROL PLAN 3

DATE :

11/2022

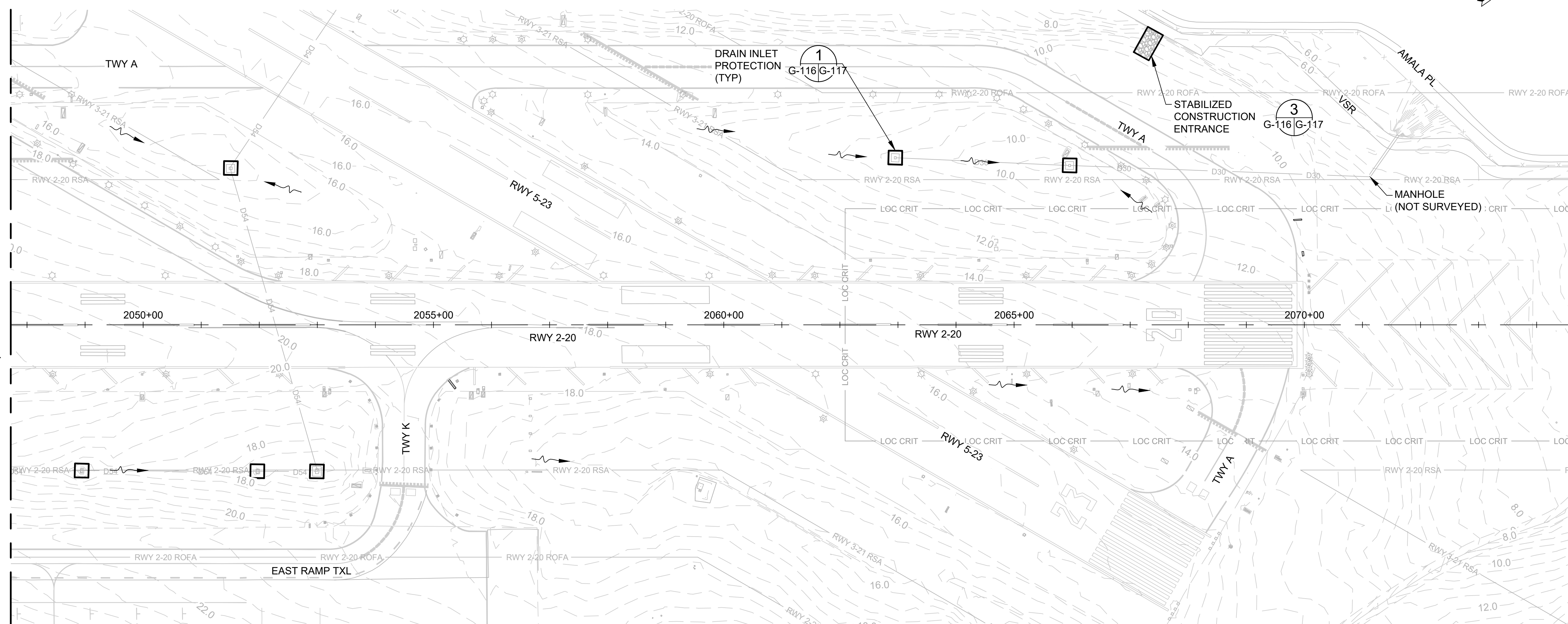
SHEET :

16 OF 46 SHEETS

DWG. NO.

G-116

MATCHLINE, SEE DWG NO G-115

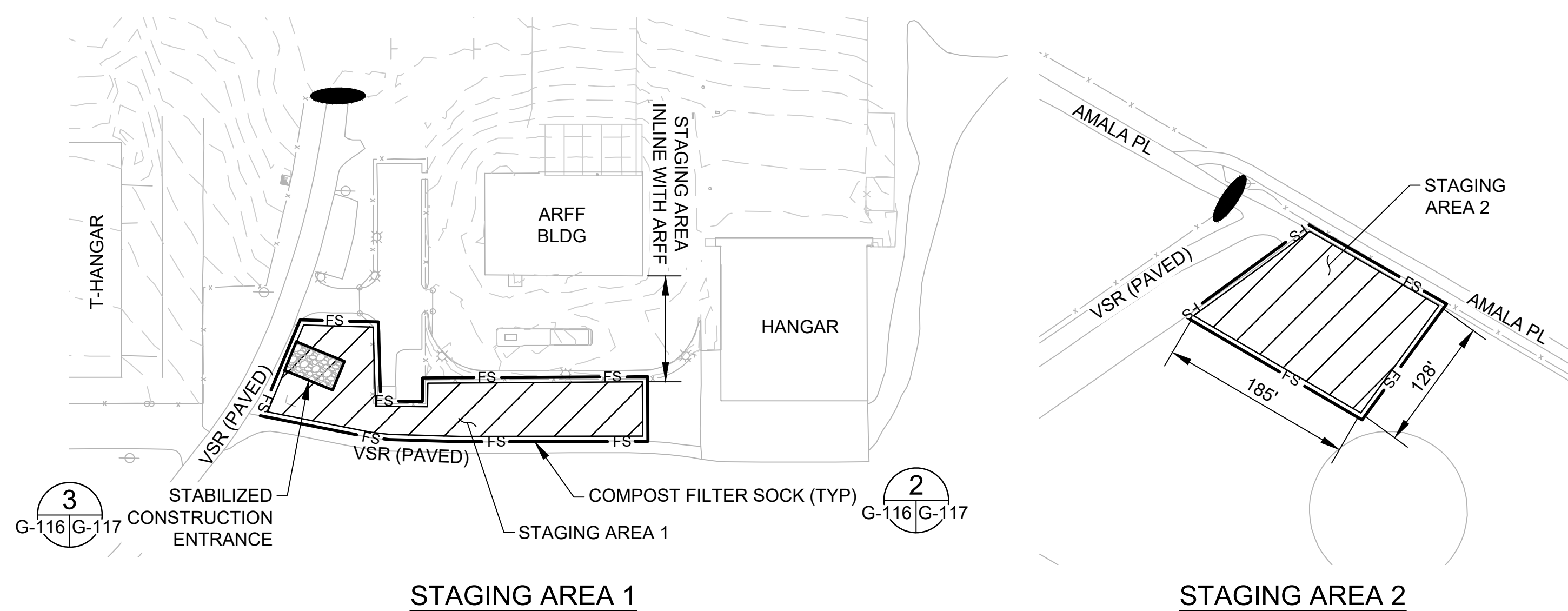


LEGEND:

- FS COMPOST FILTER SOCK G-116/G-117
- DRAIN INLET PROTECTION G-116/G-117
- STABILIZED CONSTRUCTION ENTRANCE G-116/G-117
- 45.0 EXISTING CONTOURS
- EXISTING ACCESS GATE
- EXISTING DITCH FLOW DIRECTION

NOTES:

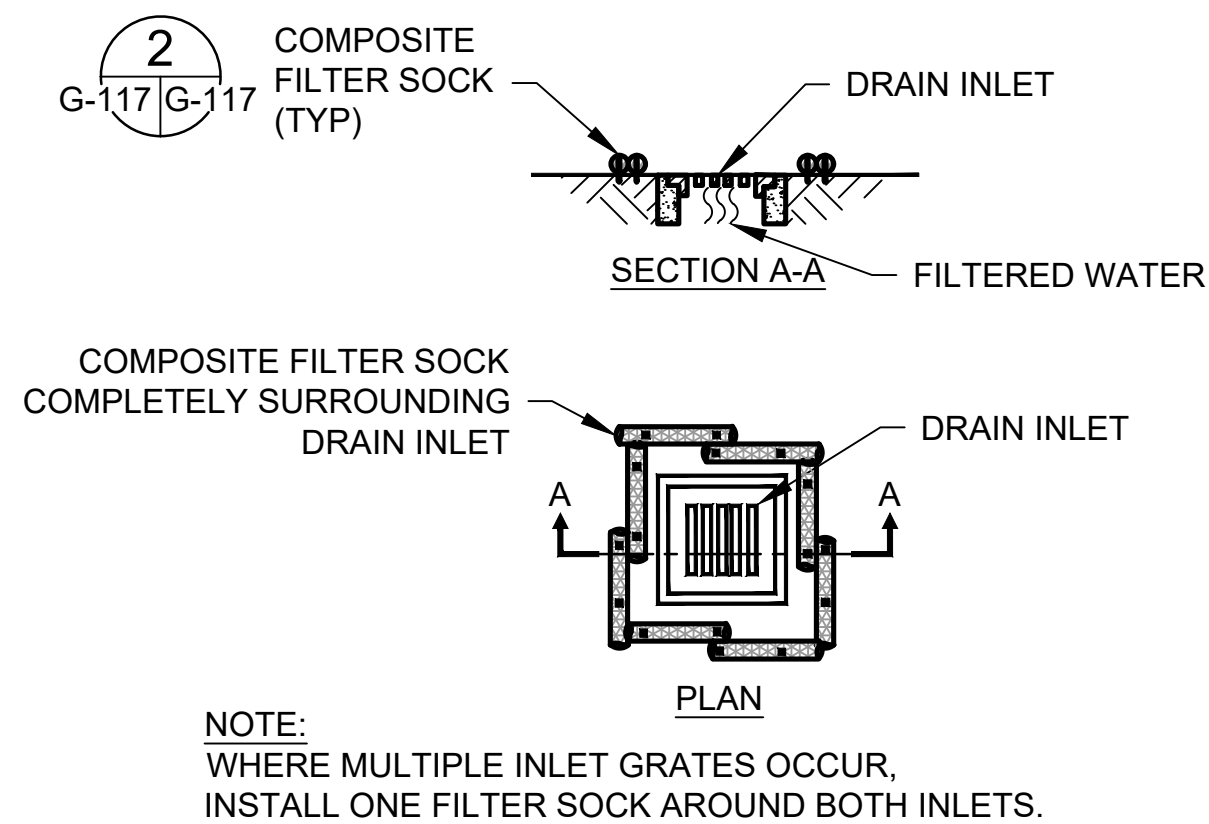
- PERFORM ALL EROSION CONTROL WORK IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES OUTLINED IN G-117
- EROSION CONTROL MEASURES, AS SHOWN, OR AS APPROVED BY THE RPR SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION BASED ON THE PHASES OF WORK SHOWN.
- CONTRACTOR SHALL SUBMIT THEIR EROSION CONTROL PLANS FOR APPROVAL, SHOWING EACH PHASE OF WORK, AS OUTLINED ON THESE PLANS, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- STABILIZED CONSTRUCTION ENTRANCES ARE SHOWN IN GENERAL LOCATIONS. UPON APPROVAL FROM RPR, CONTRACTOR TO ADJUST/RELOCATE AS REQUIRED BASED ON THEIR SEQUENCE OF WORK SUCH THAT THERE IS ALWAYS A STABILIZED ENTRANCE BETWEEN PAVED AND UNPAVED AREAS.



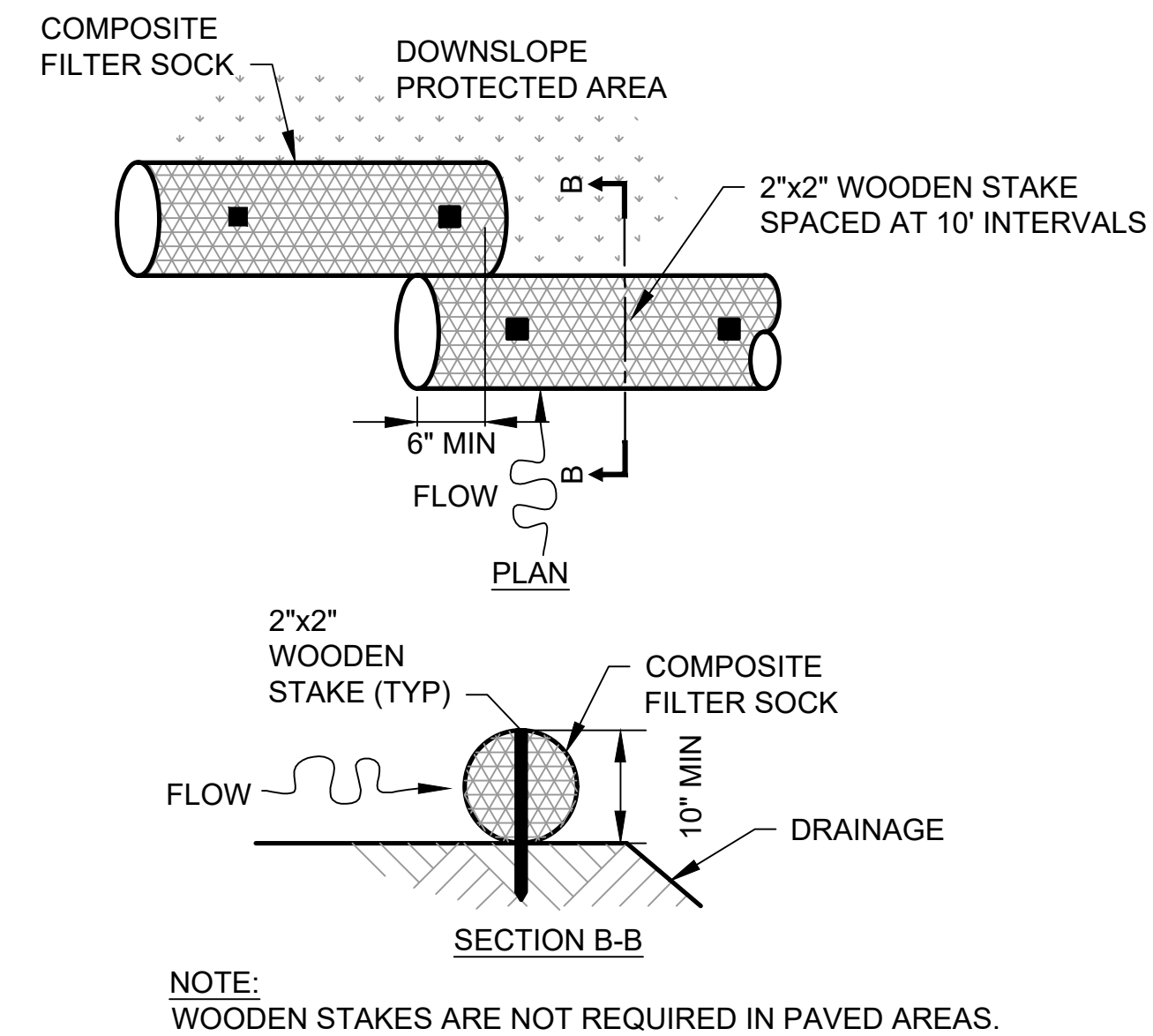
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BEST MANAGEMENT PRACTICE EROSION CONTROL NOTES:

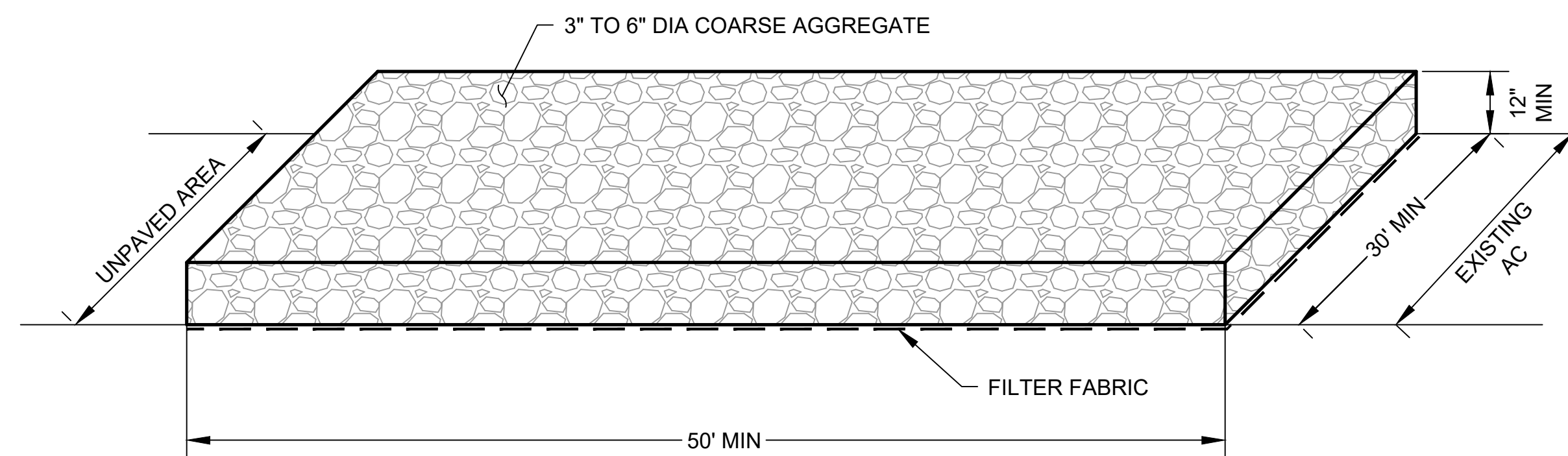
- CONTRACTOR TO INSTALL DRAIN INLET PROTECTION BEFORE THE START OF ANY WORK.
- DRAIN INLET PROTECTION SHALL BE IMMEDIATELY REPAIRED WHEN DAMAGED DURING CONSTRUCTION OPERATIONS.
- BMP MEASURES AND PRACTICES SHALL BE IN ACCORDANCE WITH HDOT-A'S OGG SWMPP, WHICH INCLUDES, BUT IS NOT LIMITED TO, HDOT-A'S CONSTRUCTION ACTIVITIES BMP FIELD MANUAL.
- THE CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE AND COMPLIANCE WITH THE DOH'S NPDES PERMIT WHICH INCLUDES, BUT IS NOT LIMITED TO, HAR CHAPTER 11-54, 11-55, AND 11-56.
- THE CONTRACTOR SHALL REQUEST AN INITIAL BMP INSPECTION BE CONDUCTED BY HDOT-A. THE INITIAL BMP INSPECTION WILL BE SUBJECT TO THE AVAILABILITY OF THE BMP INSPECTOR. NO CONSTRUCTION ACTIVITIES, EXCEPT FOR ACTIVITIES REQUIRED FOR THE INSTALLATION OF THE TEMPORARY BMP MEASURES, SHALL COMMENCE PRIOR TO THE INITIAL BMP INSPECTION AND THE CORRECTION OF ALL DEFICIENCIES THAT ARE NOTED DURING THE INSPECTION. ONLY AFTER ALL CORRECTIVE ACTIONS HAVE BEEN DOCUMENTED AND ACCEPTED BY HDOT-A SHALL CONSTRUCTION ACTIVITIES BE ALLOWED TO COMMENCE.
- INDEPENDENT THIRD-PARTY BMP INSPECTION WILL BE CONDUCTED MONTHLY. THE CONTRACTOR SHALL COMPLY WITH THESE INSPECTIONS AND CORRECTIVE ACTIONS IDENTIFIED WITHIN THE INSPECTION REPORT(S).
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE BASED ON THE LATEST DATA AVAILABLE TO THE ENGINEER. THE INFORMATION SHOWN IS NOT GUARANTEED AS TO ITS ACCURACY. THE CONTRACTOR SHALL MAKE INDEPENDENT CHECKS AND CONSULT WITH UTILITY FIRMS TO VERIFY THE EXACT LOCATIONS OF THE UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL NOT BE RELIEVED FROM ANY LIABILITY DUE TO DAMAGES RESULTING FROM HIS OPERATIONS.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. CONTRACTOR SHALL WATER STOCKPILES TO REDUCE DUST EMISSIONS. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES: CHAPTER 11-60.1 "AIR POLLUTION CONTROL".
- HDOT-A REQUIRES THAT STAFF WITH CONSTRUCTION PROGRAM RESPONSIBILITIES (E.G. CONTRACTOR, INSPECTORS, PLAN REVIEWERS) TO BE TRAINED ANNUALLY. THE TRAINING IS SPECIFIC TO HDOT-A ACTIVITIES, INCLUDING THE PROPER INSTALLATION AND MAINTENANCE OF ACCEPTED BMPs, RULES, AND PROCEDURES. THE PERTINENT TRAINING VIDEO IS AVAILABLE ON THE HDOT-A WEBSITE: [HTTP://HDOT.HAWAII.GOV/AIRPORTS/DOING-BUSINESS/ENGINEERING/ENVIRONMENTAL/CONSTRUCTION-SITE-RUNOFF-CONTROL-PROGRAM/](http://hdot.hawaii.gov/airports/doing-business/engineering/environmental/construction-site-runoff-control-program/). PLEASE SUBMIT THE COMPLETED TRAINING ROSTERS AND CONSTRUCTION TRAINING QUIZZES TO THE HDOT-A ENVIRONMENTAL SECTION (FAX: 808-838-8017) OR EMAIL TO DOT.AIR.ENVIRONMENTAL@HAWAII.GOV.



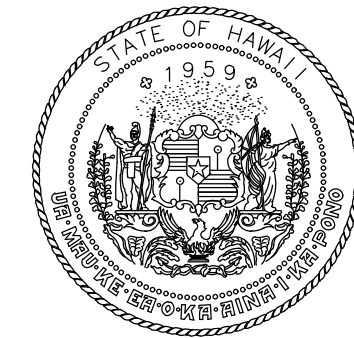
1 DRAIN INLET PROTECTION
G-114-G-116 G-117 SCALE: NTS



2 COMPOST FILTER SOCK
G-114, G-116, G-117 G-117 SCALE: NTS



3 STABILIZED CONSTRUCTION ENTRANCE
G-116 G-117 SCALE: NTS



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachael Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
-----	------	-----------

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

EROSION CONTROL NOTES AND DETAILS

DATE :

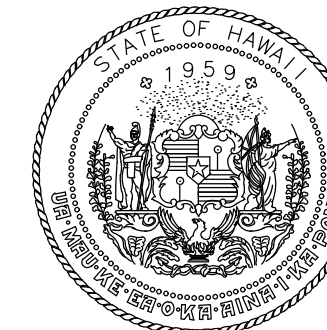
11/2022

SHEET :

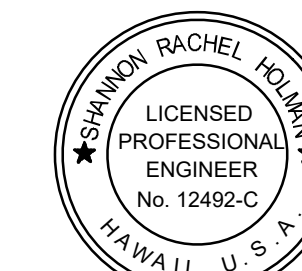
17 OF 46 SHEETS

DWG. NO.

G-117



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Signature: Rachel K. Hui
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

HORIZONTAL CONTROL PLAN

DATE :

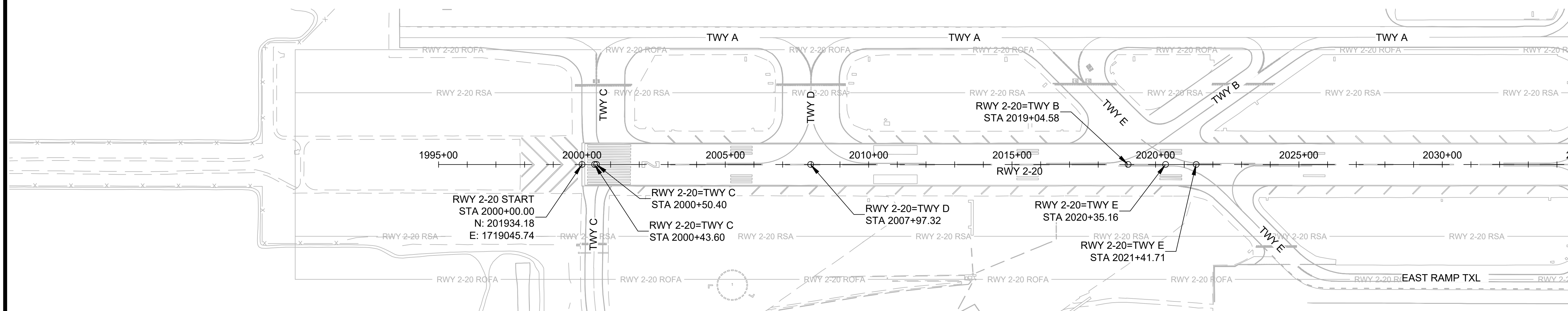
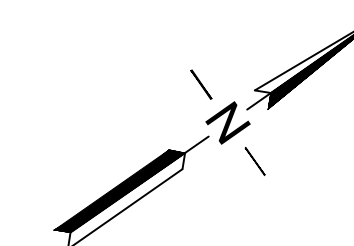
11/2022

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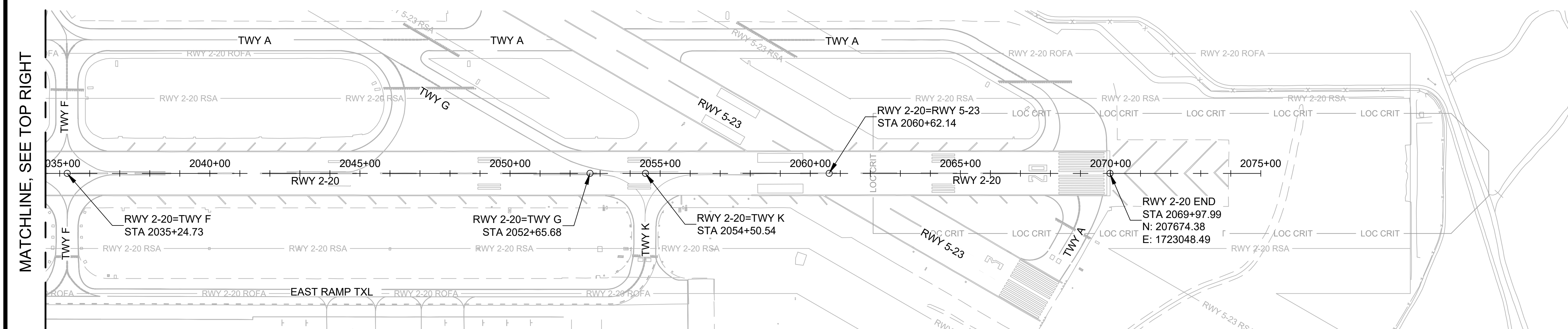
18 OF 46 SHEETS

DWG. NO.

C-101



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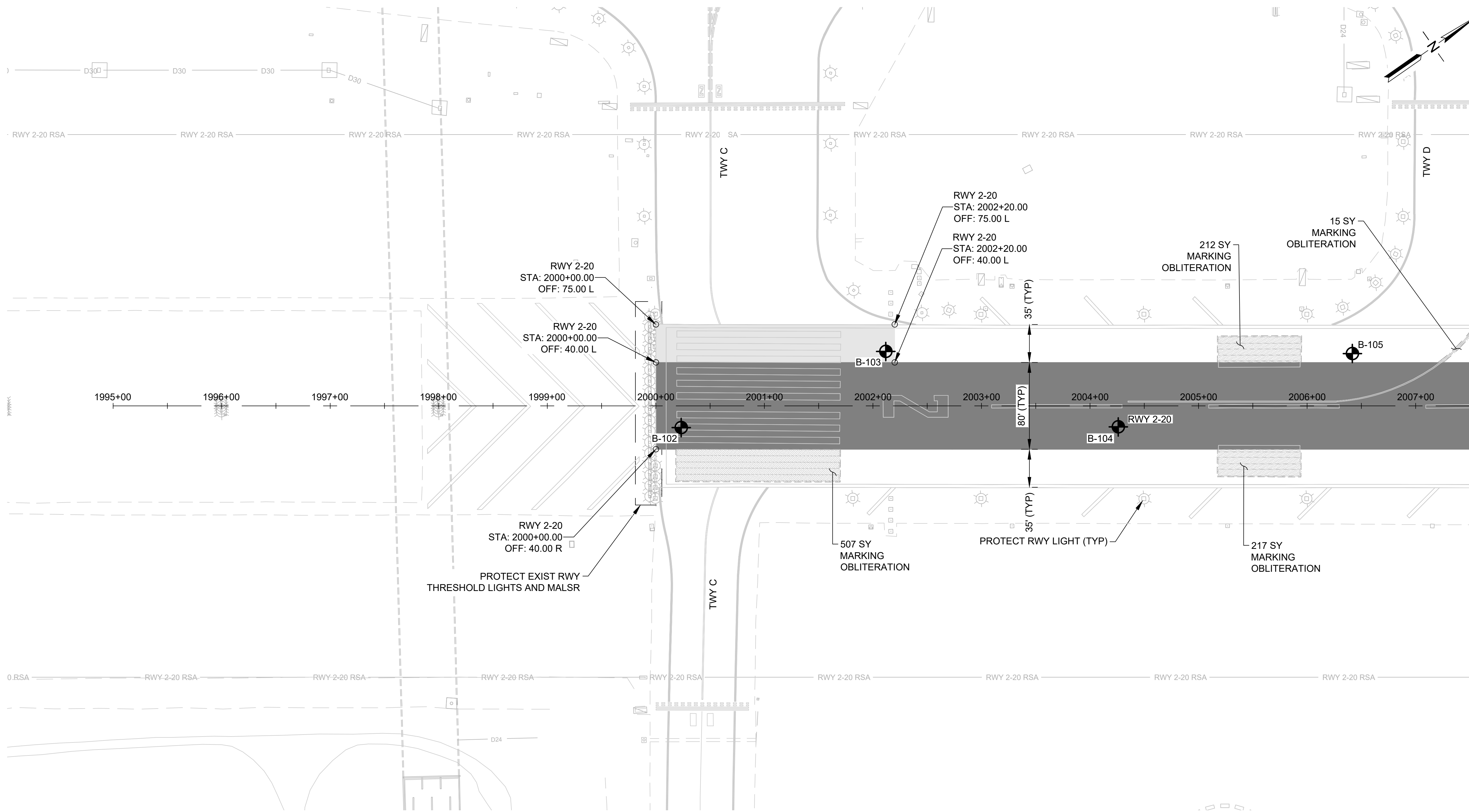


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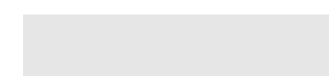





NOTES:

1. NORTHINGS AND EASTINGS ARE BASED ON HAWAII STATE PLANE ZONE 2.





LEGEND:

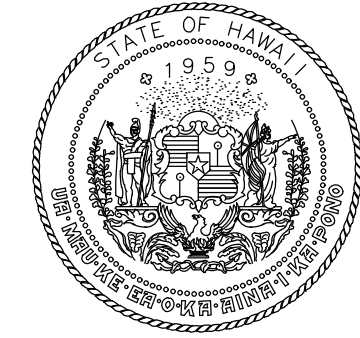
-  COLD MILL AC PAVEMENT (3" DEPTH) (02101)
-  COLD MILL AC PAVEMENT (4" DEPTH) (02101)
-  MARKING TO BE OBLITERATED (02620)
-  BORING LOCATION
- B-XX BORING LOG NUMBER
-  AIRFIELD SIGNAGE
-  EDGE LIGHT

NOTES:

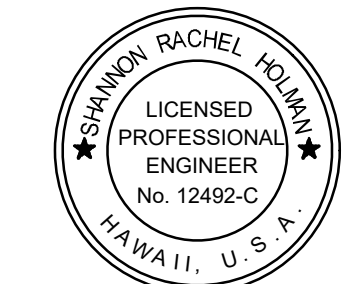
1. CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES, STRUCTURES, AND PAVED AREAS TO REMAIN. SAWCUTTING SHALL BE CAREFULLY CONTROLLED TO PREVENT DAMAGE TO ADJACENT PAVEMENT, THE UNDERLYING MATERIAL, OR EXISTING STRUCTURES TO REMAIN IN PLACE. ANY DAMAGE TO UTILITIES AND PAVED AREAS SHALL BE RESTORED / REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL SAW CUT PAVEMENT ALONG MILLING WORK LIMITS.
3. FOLLOWING MILL OPERATION, RPR SHALL DETERMINE IF MILL DEPTH IS SUFFICIENT AND CONDITION OF MILLED SURFACE IS SATISFACTORY. CONTRACTOR SHALL MILL ADDITIONAL DEPTH AS DIRECTED BY RPR.
4. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING THE SAWCUTTING OPERATION AND ALL OTHER DEMOLITION ACTIVITIES. CLEANUP SHALL USE A VACUUM SWEEPER.
5. ASPHALT MILLINGS SHALL BE HAULED OFF SITE.
6. REFER TO PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
7. CONTRACTOR AND RPR SHALL INSPECT EXISTING CRACKS WITHIN ASPHALT PAVEMENT AREAS NOT AFFECTED BY PAVING WORK. EXISTING CRACKS TO BE SAWCUT TO TOLERANCES NOTED IN SECTION 02101.



MATCHLINE, SEE DWG NO C-202



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

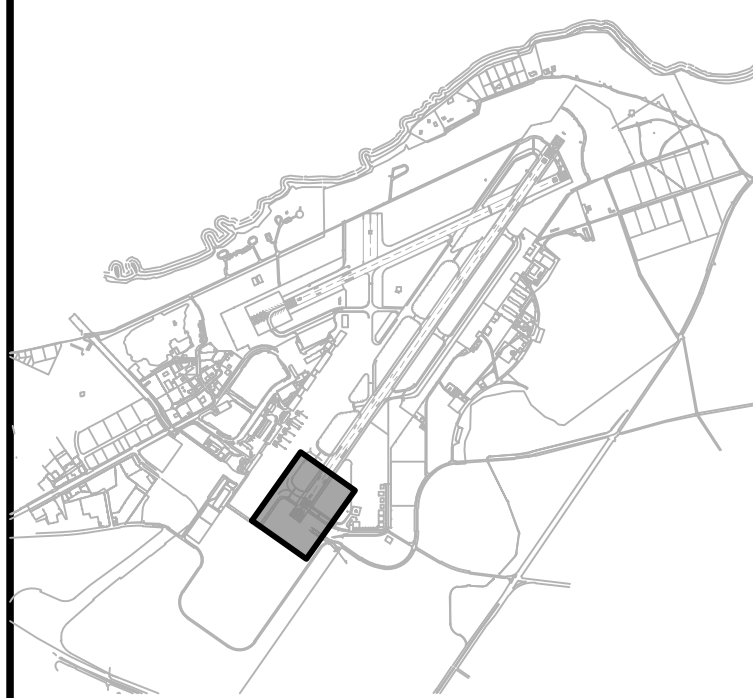


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: *Rachael Holman* 4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
-----	------	-----------

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

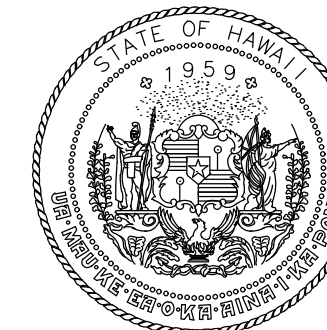
AM1022-21R

SHEET TITLE:

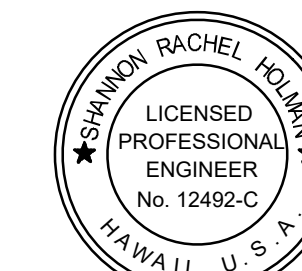
CIVIL DEMOLITION PLAN 1

DATE :	DWG. NO.
11/2022	C-201
SHEET :	
19 OF 46 SHEETS	

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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

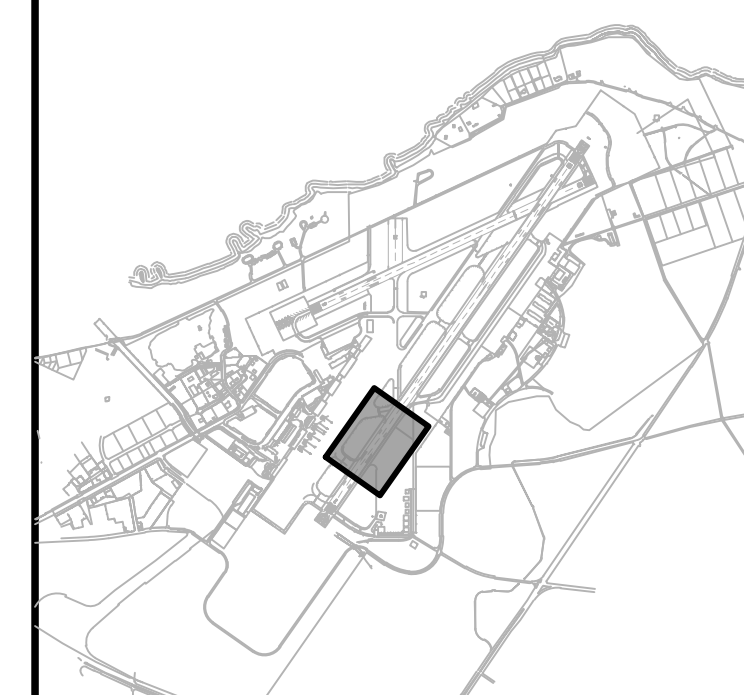


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
-----	------	-----------

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

CIVIL DEMOLITION
PLAN 2

DATE :

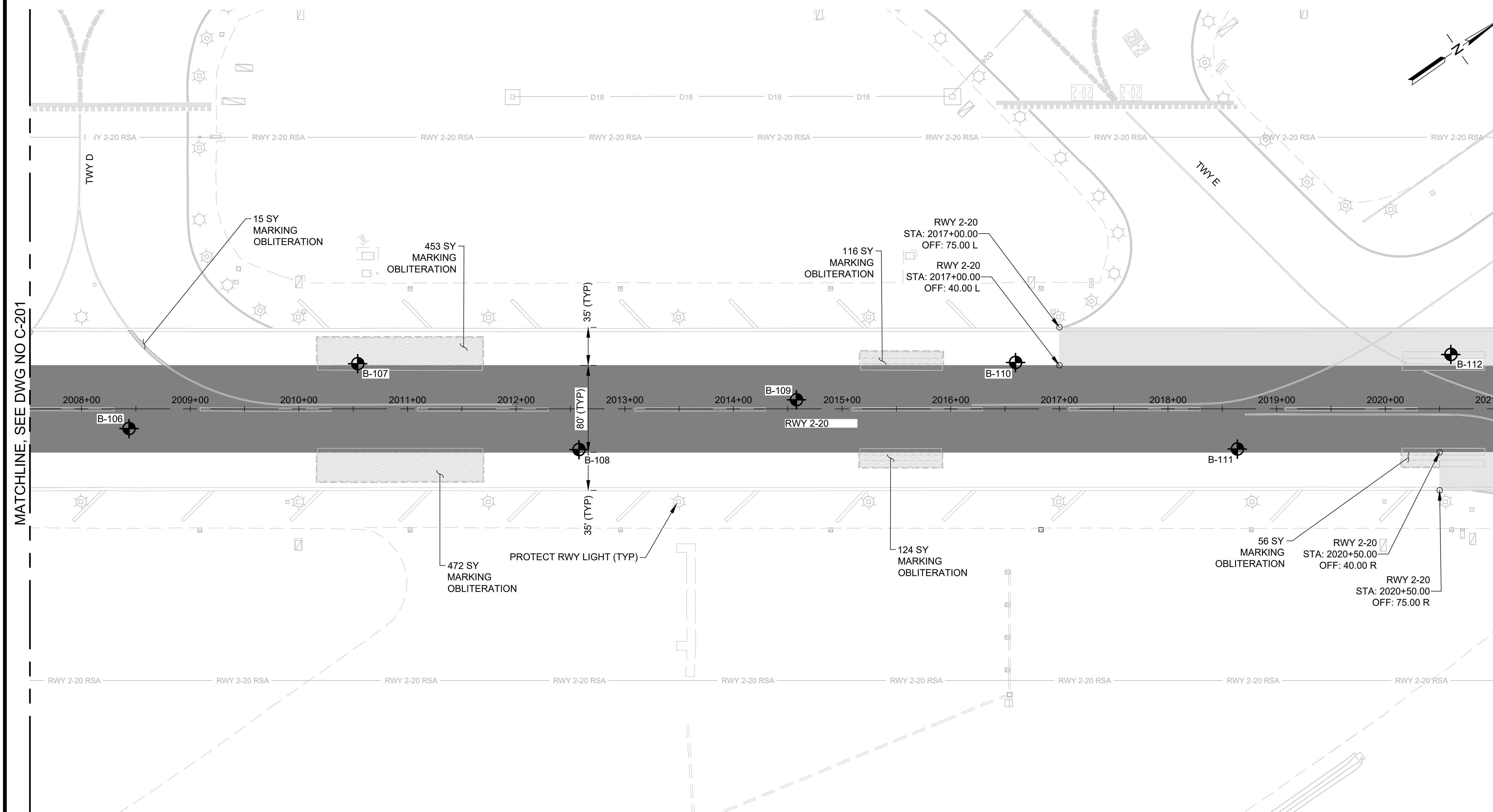
11/2022

SHEET :

20 OF 46 SHEETS

DWG. NO.

C-202



MATCHLINE, SEE DWG NO C-201

MATCHLINE, SEE DWG NO C-203

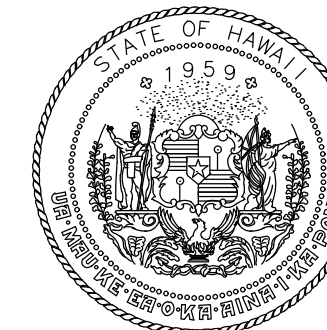
LEGEND:

- COLD MILL AC PAVEMENT (3" DEPTH) (02101)
- COLD MILL AC PAVEMENT (4" DEPTH) (02101)
- MARKING TO BE OBLITERATED (02620)
- BORING LOCATION
- B-XX BORING LOG NUMBER
- AIRFIELD SIGNAGE
- EDGE LIGHT

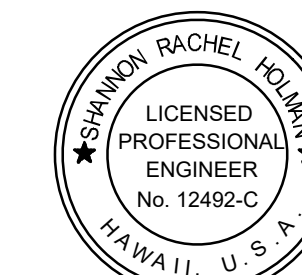
NOTES:

1. CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES, STRUCTURES, AND PAVED AREAS TO REMAIN. SAWCUTTING SHALL BE CAREFULLY CONTROLLED TO PREVENT DAMAGE TO ADJACENT PAVEMENT, THE UNDERLYING MATERIAL, OR EXISTING STRUCTURES TO REMAIN IN PLACE. ANY DAMAGE TO UTILITIES AND PAVED AREAS SHALL BE RESTORED / REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL SAW CUT PAVEMENT ALONG MILLING WORK LIMITS.
3. FOLLOWING MILL OPERATION, RPR SHALL DETERMINE IF MILL DEPTH IS SUFFICIENT AND CONDITION OF MILLED SURFACE IS SATISFACTORY. CONTRACTOR SHALL MILL ADDITIONAL DEPTH AS DIRECTED BY RPR.
4. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING THE SAWCUTTING OPERATION AND ALL OTHER DEMOLITION ACTIVITIES. CLEANUP SHALL USE A VACUUM SWEEPER.
5. ASPHALT MILLINGS SHALL BE HAULED OFF SITE.
6. REFER TO PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
7. CONTRACTOR AND RPR SHALL INSPECT EXISTING CRACKS WITHIN ASPHALT PAVEMENT AREAS NOT AFFECTED BY PAVING WORK. EXISTING CRACKS TO BE SAWCUT TO TOLERANCES NOTED IN SECTION 02101.





Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

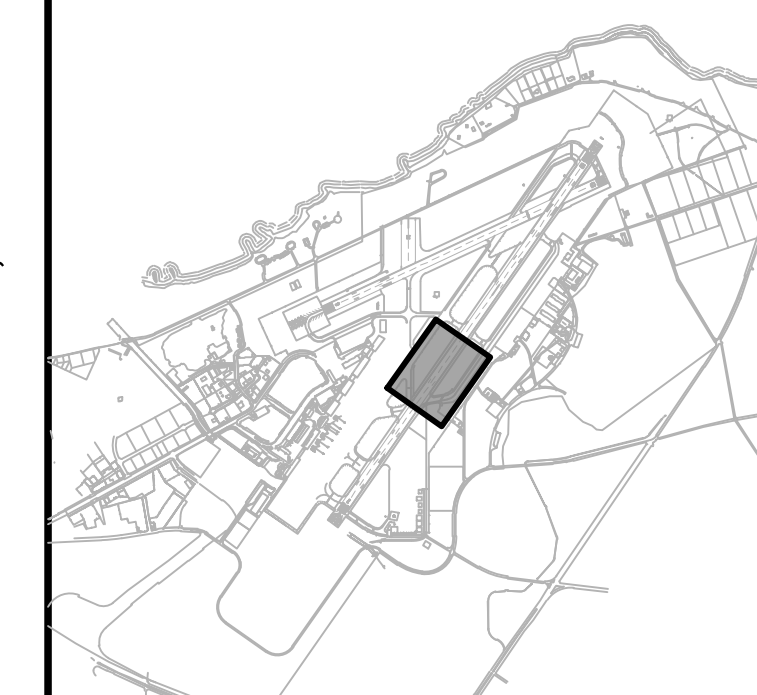


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
-----	------	-----------

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

**CIVIL DEMOLITION
PLAN 3**

DATE :

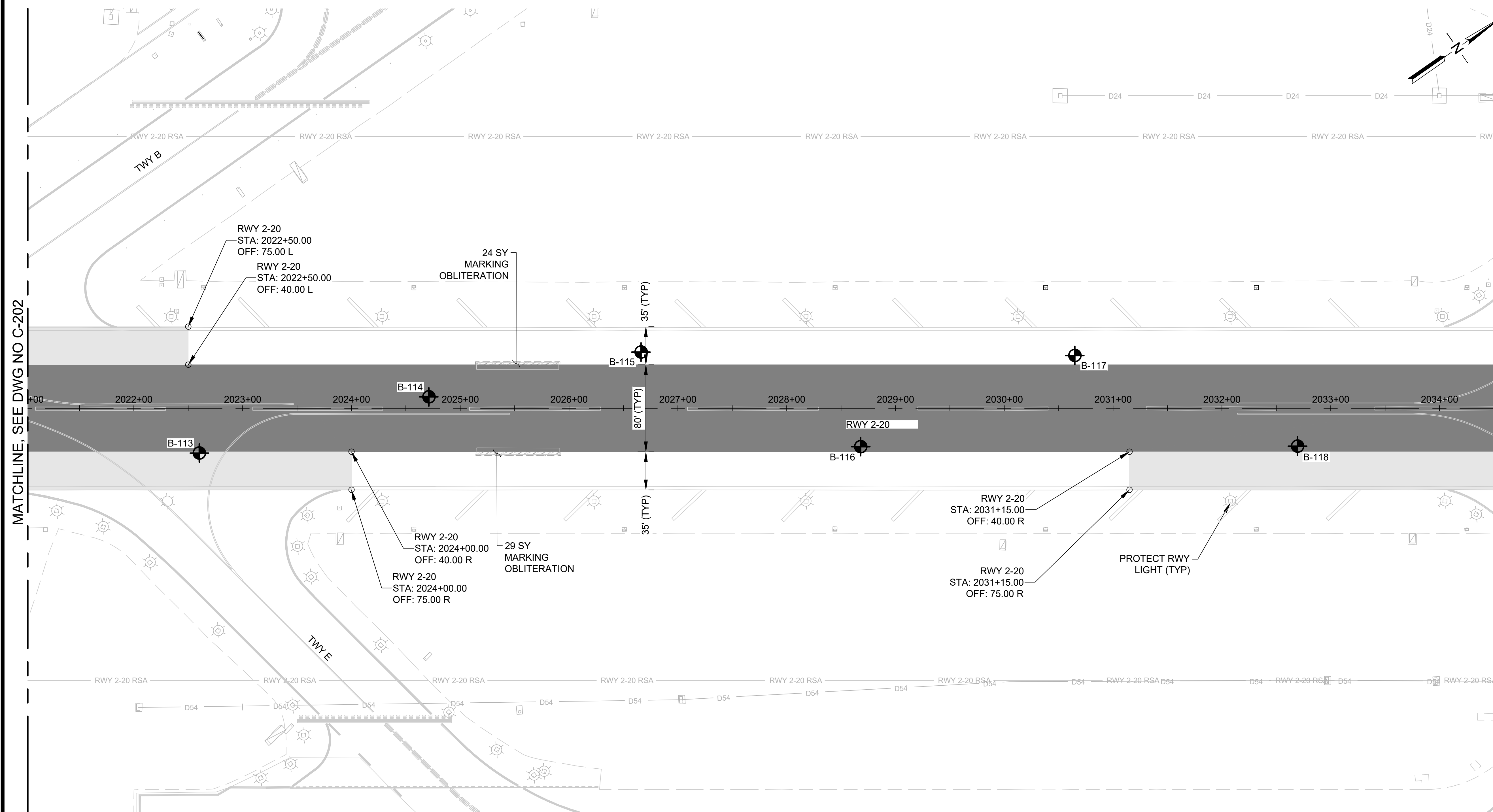
11/2022

SHEET :

21 OF 46 SHEETS

DWG. NO.

C-203



MATCHLINE, SEE DWG NO C-202

MATCHLINE, SEE DWG NO C-204

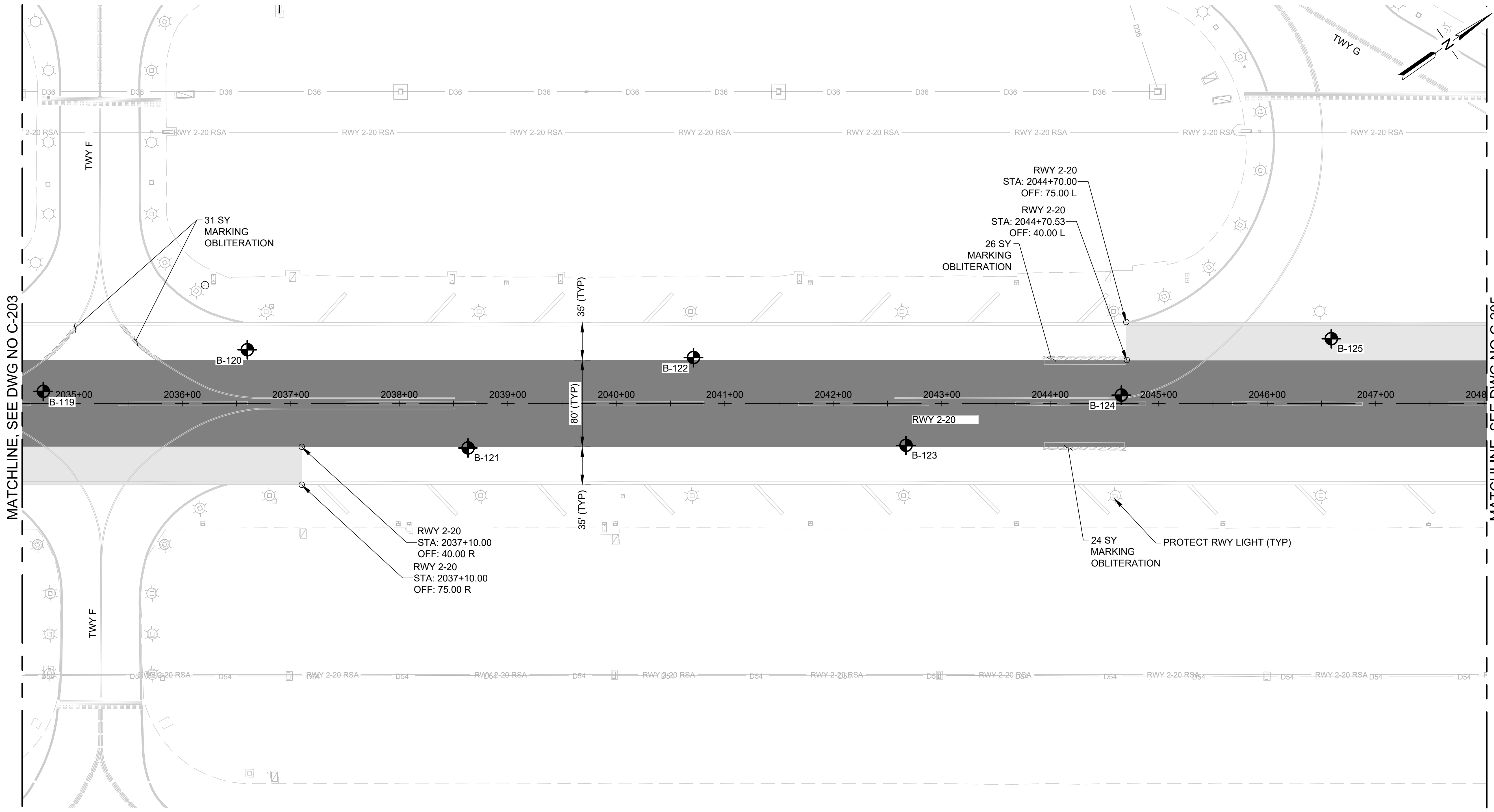
LEGEND:

- COLD MILL AC PAVEMENT (3" DEPTH) (02101)
- COLD MILL AC PAVEMENT (4" DEPTH) (02101)
- MARKING TO BE OBLITERATED (02620)
- BORING LOCATION
- B-XX BORING LOG NUMBER
- AIRFIELD SIGNAGE
- EDGE LIGHT

NOTES:

1. CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES, STRUCTURES, AND PAVED AREAS TO REMAIN. SAWCUTTING SHALL BE CAREFULLY CONTROLLED TO PREVENT DAMAGE TO ADJACENT PAVEMENT, THE UNDERLAYING MATERIAL, OR EXISTING STRUCTURES TO REMAIN IN PLACE. ANY DAMAGE TO UTILITIES AND PAVED AREAS SHALL BE RESTORED / REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL SAW CUT PAVEMENT ALONG MILLING WORK LIMITS.
3. FOLLOWING MILL OPERATION, RPR SHALL DETERMINE IF MILL DEPTH IS SUFFICIENT AND CONDITION OF MILLED SURFACE IS SATISFACTORY. CONTRACTOR SHALL MILL ADDITIONAL DEPTH AS DIRECTED BY RPR.
4. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING THE SAWCUTTING OPERATION AND ALL OTHER DEMOLITION ACTIVITIES. CLEANUP SHALL USE A VACUUM SWEEPER.
5. ASPHALT MILLINGS SHALL BE HAULED OFF SITE.
6. REFER TO PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
7. CONTRACTOR AND RPR SHALL INSPECT EXISTING CRACKS WITHIN ASPHALT PAVEMENT AREAS NOT AFFECTED BY PAVING WORK. EXISTING CRACKS TO BE SAWCUT TO TOLERANCES NOTED IN SECTION 02101.





MATCHLINE, SEE DWG NO C-203

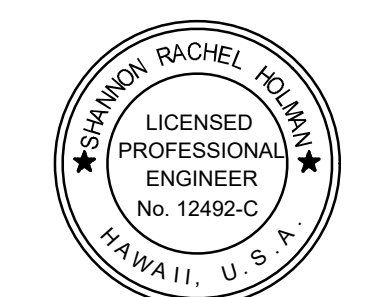
MATCHLINE, SEE DWG NO C-205

LEGEND:

- COLD MILL AC PAVEMENT (3" DEPTH) (02101)
- COLD MILL AC PAVEMENT (4" DEPTH) (02101)
- MARKING TO BE OBLITERATED (02620)
- BORING LOCATION
- B-XX** BORING LOG NUMBER
- AIRFIELD SIGNAGE
- EDGE LIGHT

NOTES:

1. CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES, STRUCTURES, AND PAVED AREAS TO REMAIN. SAWCUTTING SHALL BE CAREFULLY CONTROLLED TO PREVENT DAMAGE TO ADJACENT PAVEMENT, THE UNDERLYING MATERIAL, OR EXISTING STRUCTURES TO REMAIN IN PLACE. ANY DAMAGE TO UTILITIES AND PAVED AREAS SHALL BE RESTORED / REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
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4. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING THE SAWCUTTING OPERATION AND ALL OTHER DEMOLITION ACTIVITIES. CLEANUP SHALL USE A VACUUM SWEEPER.
5. ASPHALT MILLINGS SHALL BE HAULED OFF SITE.
6. REFER TO PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
7. CONTRACTOR AND RPR SHALL INSPECT EXISTING CRACKS WITHIN ASPHALT PAVEMENT AREAS NOT AFFECTED BY PAVING WORK. EXISTING CRACKS TO BE SAWCUT TO TOLERANCES NOTED IN SECTION 02101.



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: *Rachael Holman* 4/30/24 Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

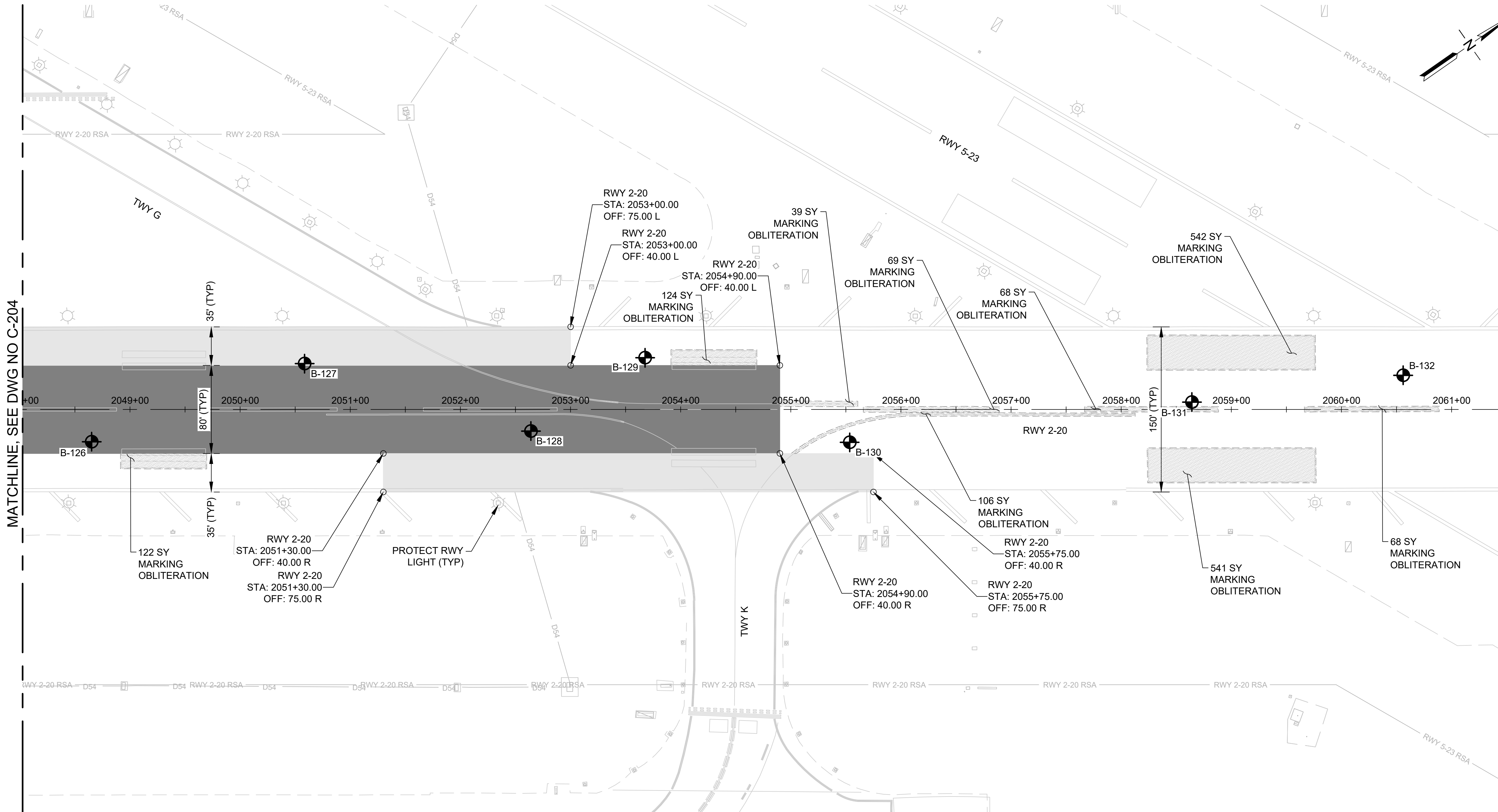
AM1022-21R

SHEET TITLE:

CIVIL DEMOLITION PLAN 4

DATE :	DWG. NO.
11/2022	C-204
SHEET :	
22 OF 46 SHEETS	

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MATCHLINE, SEE DWG NO C-204

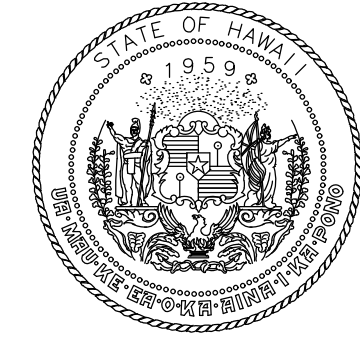
MATCHLINE, SEE DWG NO C-206

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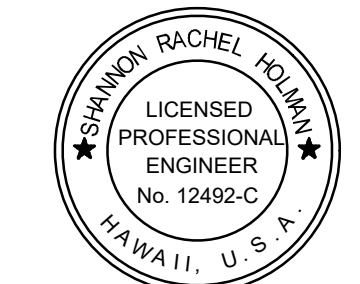
- COLD MILL AC PAVEMENT (3" DEPTH) (02101)
- COLD MILL AC PAVEMENT (4" DEPTH) (02101)
- MARKING TO BE OBLITERATED (02620)
- BORING LOCATION
- B-XX** BORING LOG NUMBER
- AIRFIELD SIGNAGE
- EDGE LIGHT

NOTES:

1. CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES, STRUCTURES, AND PAVED AREAS TO REMAIN. SAWCUTTING SHALL BE CAREFULLY CONTROLLED TO PREVENT DAMAGE TO ADJACENT PAVEMENT, THE UNDERLYING MATERIAL, OR EXISTING STRUCTURES TO REMAIN IN PLACE. ANY DAMAGE TO UTILITIES AND PAVED AREAS SHALL BE RESTORED / REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL SAW CUT PAVEMENT ALONG MILLING WORK LIMITS.
3. FOLLOWING MILL OPERATION, RPR SHALL DETERMINE IF MILL DEPTH IS SUFFICIENT AND CONDITION OF MILLED SURFACE IS SATISFACTORY. CONTRACTOR SHALL MILL ADDITIONAL DEPTH AS DIRECTED BY RPR.
4. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING THE SAWCUTTING OPERATION AND ALL OTHER DEMOLITION ACTIVITIES. CLEANUP SHALL USE A VACUUM SWEEPER.
5. ASPHALT MILLINGS SHALL BE HAULED OFF SITE.
6. REFER TO PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
7. CONTRACTOR AND RPR SHALL INSPECT EXISTING CRACKS WITHIN ASPHALT PAVEMENT AREAS NOT AFFECTED BY PAVING WORK. EXISTING CRACKS TO BE SAWCUT TO TOLERANCES NOTED IN SECTION 02101.



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

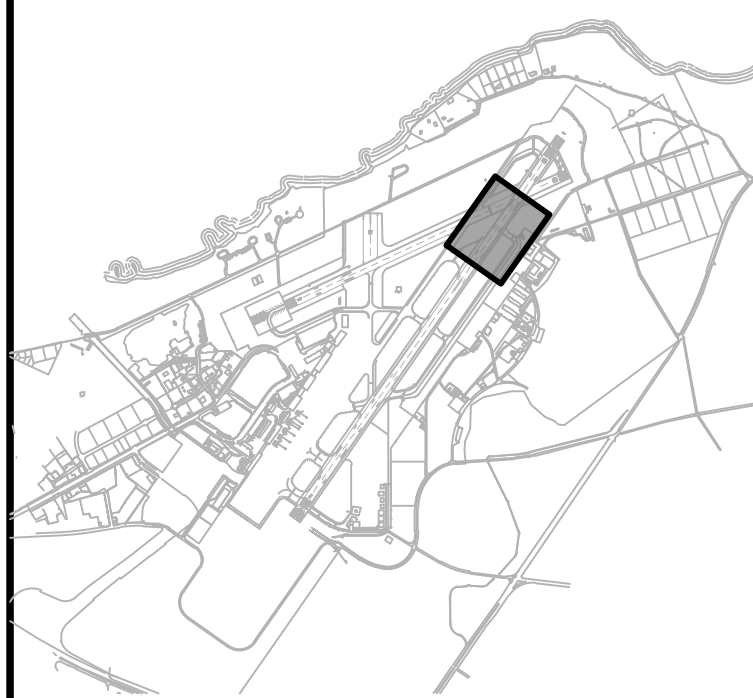


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: *Rachel Holman* 4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

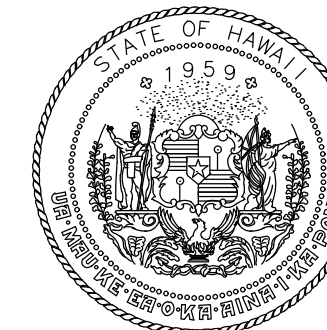
AM1022-21R

SHEET TITLE:

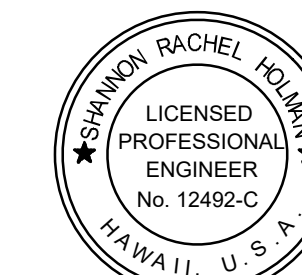
CIVIL DEMOLITION PLAN 5

DATE :	DWG. NO.
11/2022	C-205
SHEET :	
23 OF 46 SHEETS	

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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

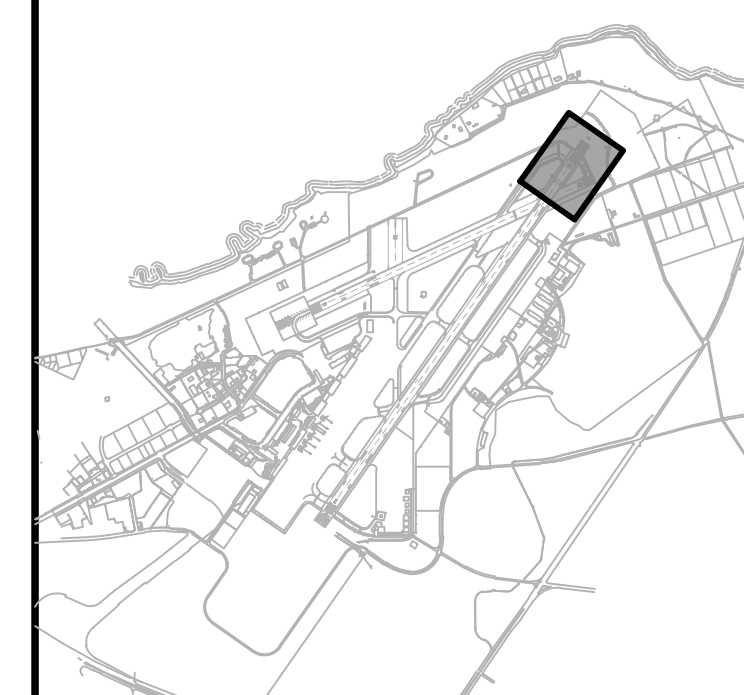


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

CIVIL DEMOLITION PLAN 6

DATE :

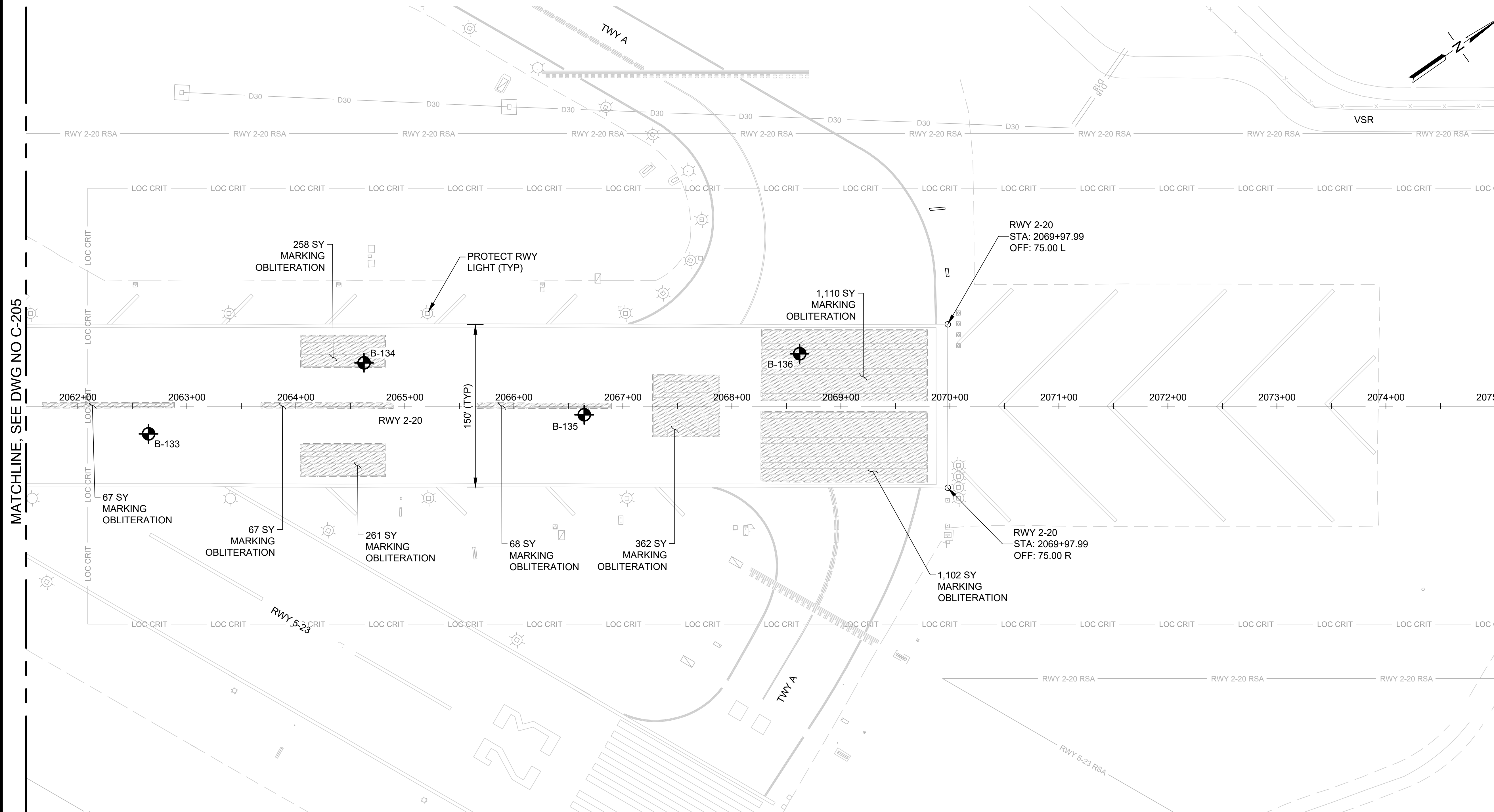
11/2022

SHEET :

24 OF 46 SHEETS

DWG. NO.

C-206



MATCHLINE, SEE DWG NO C-205

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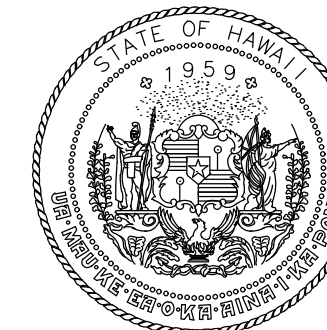
- COLD MILL AC PAVEMENT (3" DEPTH) (02101)
- COLD MILL AC PAVEMENT (4" DEPTH) (02101)
- MARKING TO BE OBLITERATED (02620)
- BORING LOCATION
- B-XX BORING LOG NUMBER
- AIRFIELD SIGNAGE
- EDGE LIGHT

NOTES:

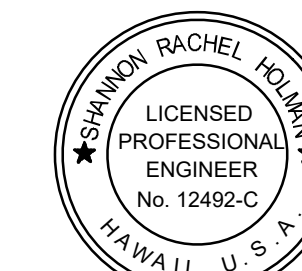
- CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES, STRUCTURES, AND PAVED AREAS TO REMAIN. SAWCUTTING SHALL BE CAREFULLY CONTROLLED TO PREVENT DAMAGE TO ADJACENT PAVEMENT, THE UNDERLYING MATERIAL, OR EXISTING STRUCTURES TO REMAIN IN PLACE. ANY DAMAGE TO UTILITIES AND PAVED AREAS SHALL BE RESTORED / REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL SAW CUT PAVEMENT ALONG MILLING WORK LIMITS.
- FOLLOWING MILL OPERATION, RPR SHALL DETERMINE IF MILL DEPTH IS SUFFICIENT AND CONDITION OF MILLED SURFACE IS SATISFACTORY. CONTRACTOR SHALL MILL ADDITIONAL DEPTH AS DIRECTED BY RPR.
- CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING THE SAWCUTTING OPERATION AND ALL OTHER DEMOLITION ACTIVITIES. CLEANUP SHALL USE A VACUUM SWEEPER.
- ASPHALT MILLINGS SHALL BE HAULED OFF SITE.
- REFER TO PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
- CONTRACTOR AND RPR SHALL INSPECT EXISTING CRACKS WITHIN ASPHALT PAVEMENT AREAS NOT AFFECTED BY PAVING WORK. EXISTING CRACKS TO BE SAWCUT TO TOLERANCES NOTED IN SECTION 02101.



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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

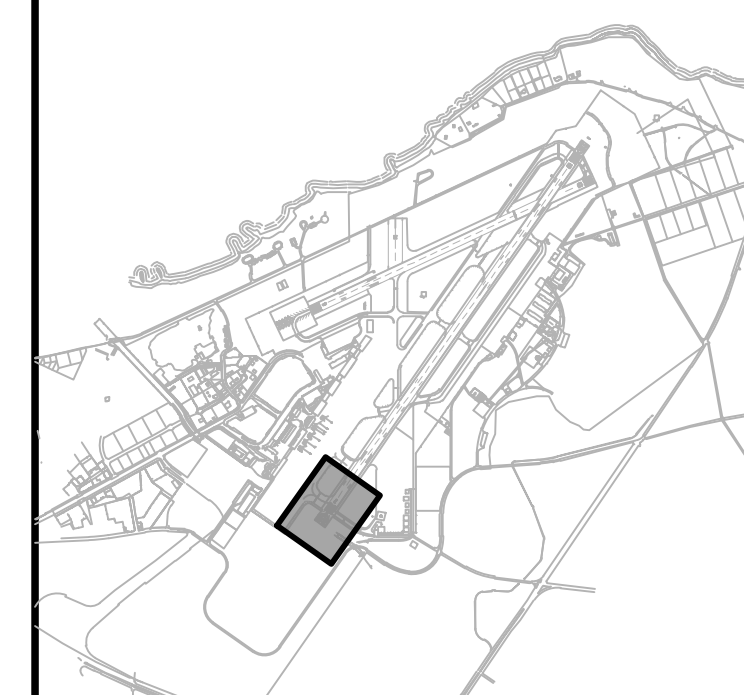


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVING LAYOUT
PLAN 1

DATE :

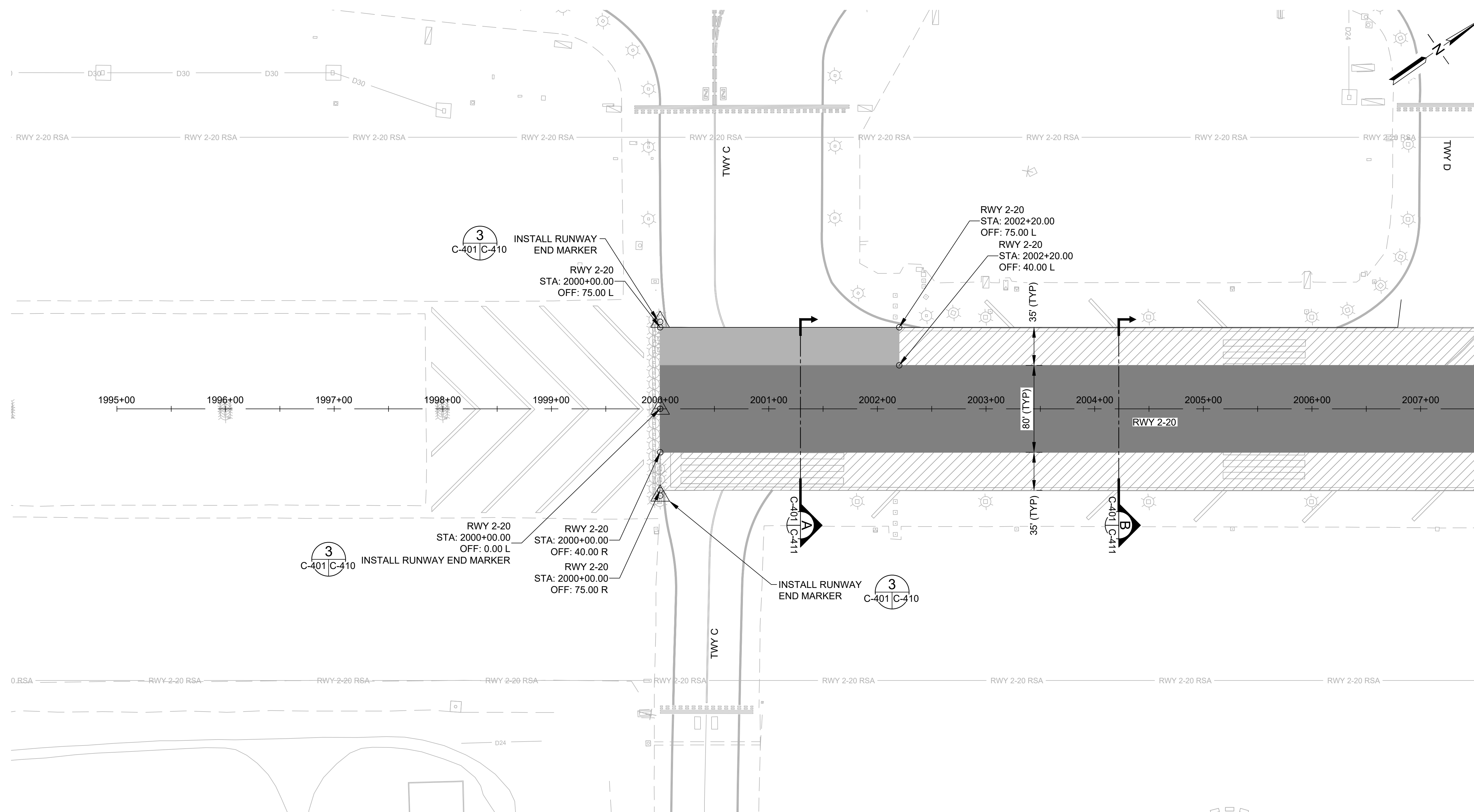
11/2022

SHEET :

25 OF 46 SHEETS

DWG. NO.

C-401



MATCHLINE, SEE DWG NO C-402

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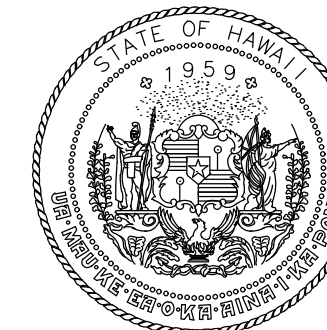
- AC 3" PAVEMENT (02401)
- AC 4" PAVEMENT (02401)
- AC PAVEMENT CRACK SAWCUT / PREPARATION (02101) AND CRACK SEALING (02605)
- AIRFIELD SIGNAGE
- EDGE LIGHT
- RUNWAY END MARKER

NOTES:

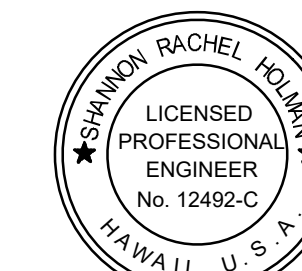
1. SEE PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
2. UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING PAVING OPERATION AND ALL OTHER CONSTRUCTION ACTIVITIES. CLEANUPS SHALL USE A VACUUM SWEEPER.
4. WHENEVER PAVING EQUIPMENT IS PARKED OR IDLE, THE EQUIPMENT SHALL BE PLACED ON FULL DROP PROTECTION MEASURES.



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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

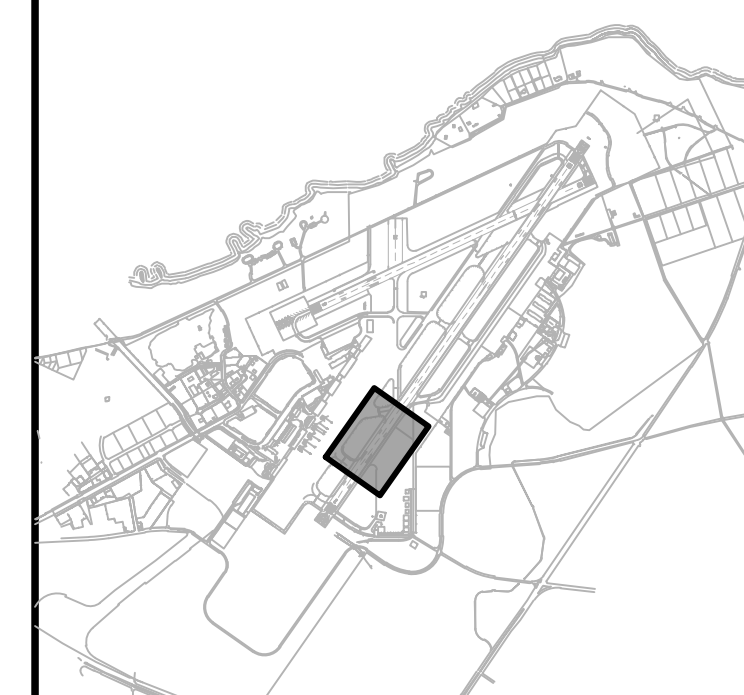


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachel K. Hui
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVING LAYOUT
PLAN 2

DATE :

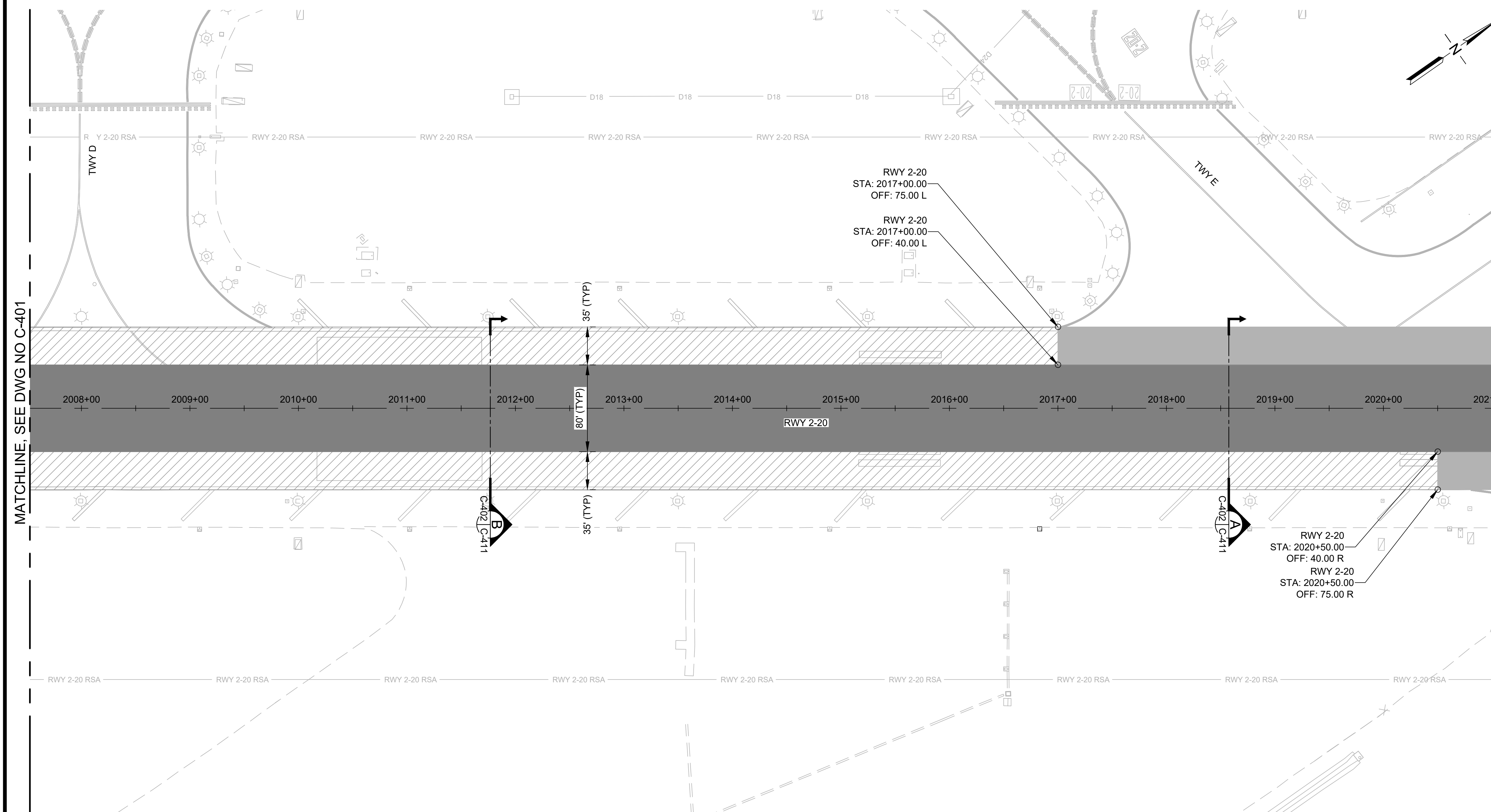
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SHEET :

26 OF 46 SHEETS

DWG. NO.







C-402



MATCHLINE, SEE DWG NO C-401

MATCHLINE, SEE DWG NO C-403

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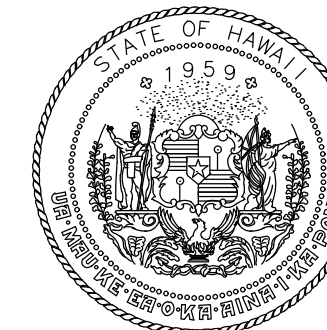
-  AC 3" PAVEMENT (02401)
-  AC 4" PAVEMENT (02401)
-  AC PAVEMENT CRACK SAWCUT / PREPARATION (02101) AND CRACK SEALING (02605)
-  AIRFIELD SIGNAGE
-  EDGE LIGHT
-  RUNWAY END MARKER

NOTES:

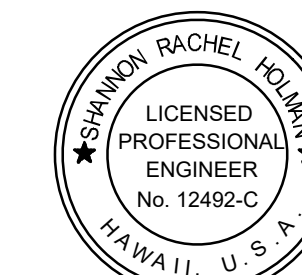
1. SEE PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
2. UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING PAVING OPERATION AND ALL OTHER CONSTRUCTION ACTIVITIES. CLEANUPS SHALL USE A VACUUM SWEEPER.
4. WHENEVER PAVING EQUIPMENT IS PARKED OR IDLE, THE EQUIPMENT SHALL BE PLACED ON FULL DROP PROTECTION MEASURES.



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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

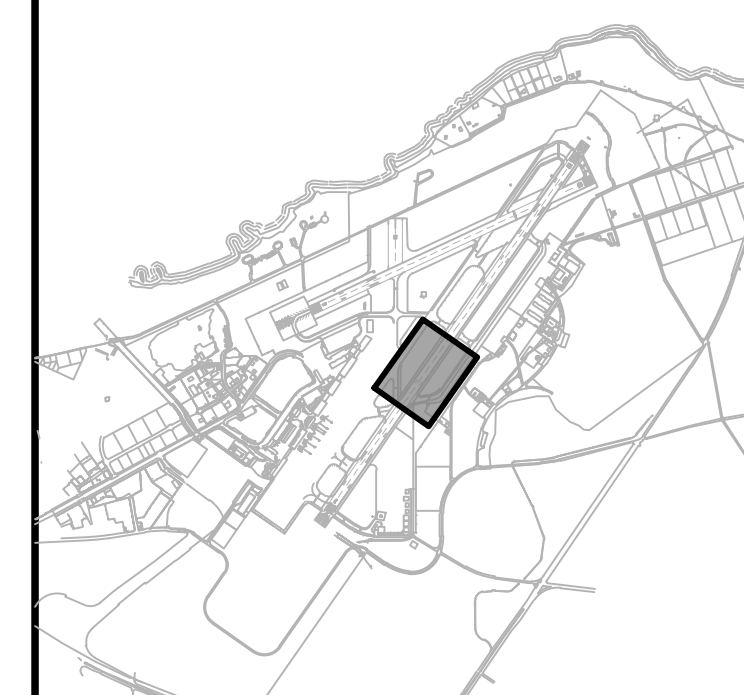


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVING LAYOUT
PLAN 3

DATE :

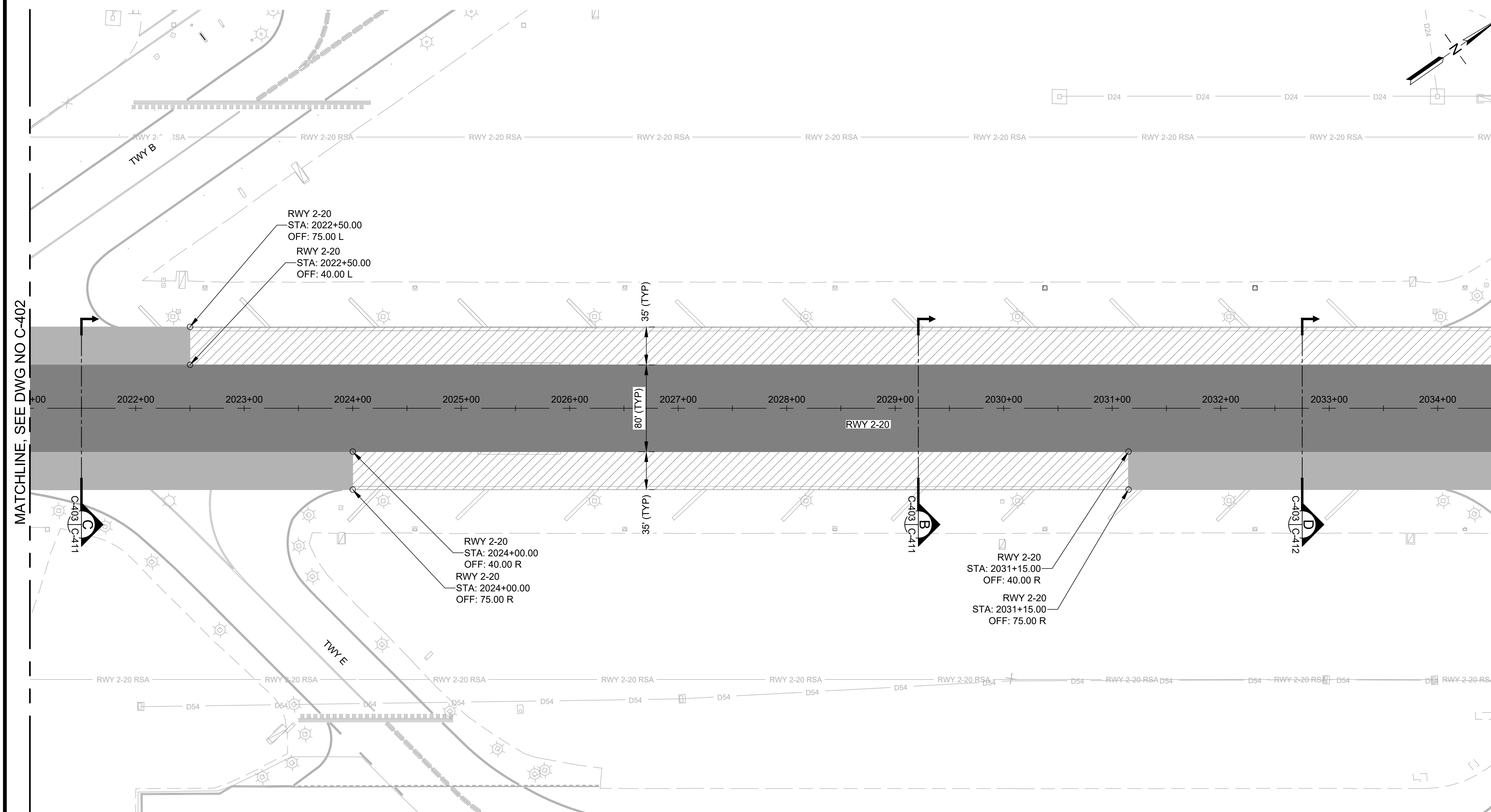
11/2022

SHEET :

27 OF 46 SHEETS

DWG. NO.

C-403



LEGEND:

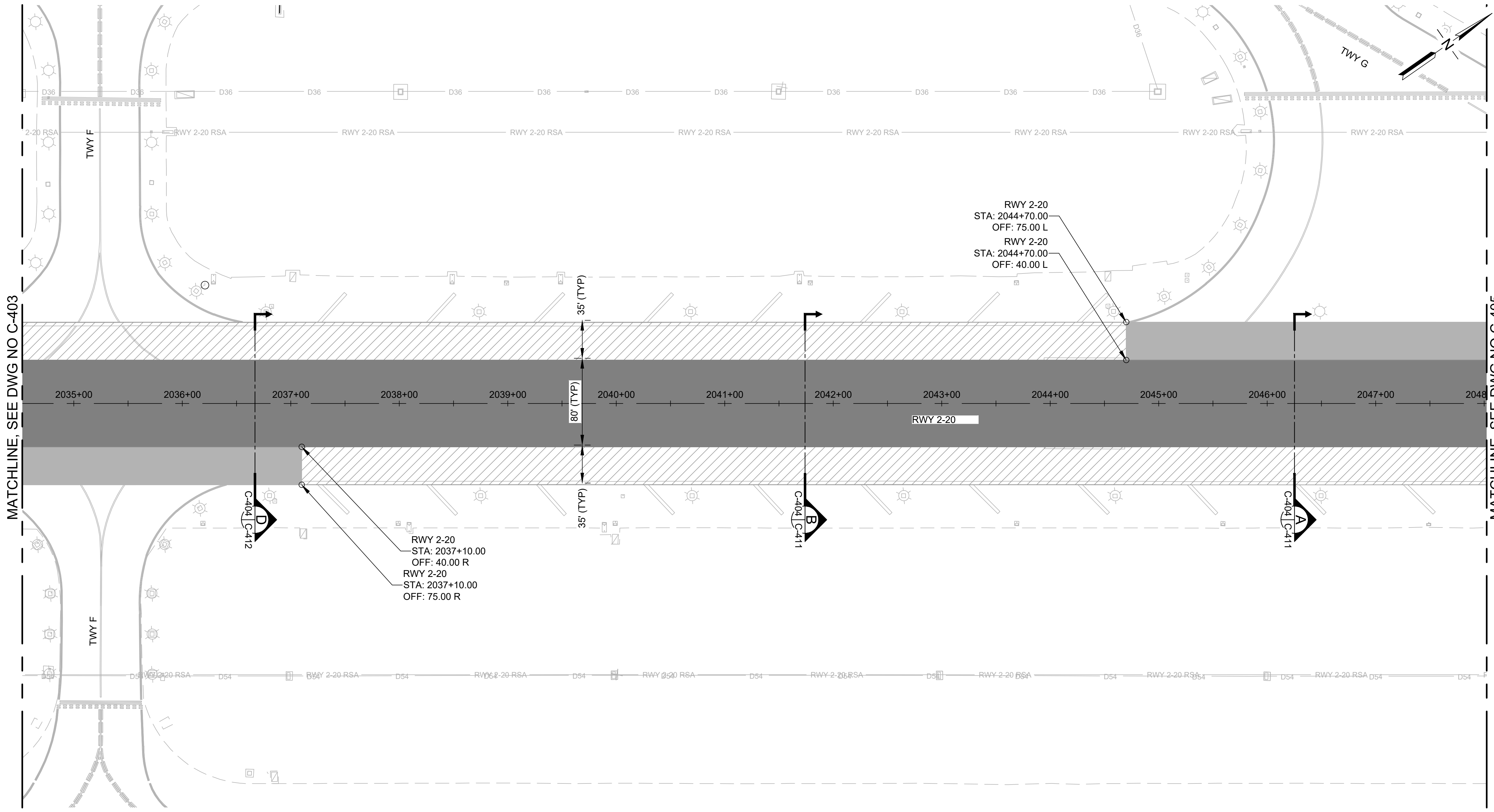
- AC 3" PAVEMENT (02401)
- AC 4" PAVEMENT (02401)
- AC PAVEMENT CRACK SAWCUT / PREPARATION (02101) AND CRACK SEALING (02605)
- AIRFIELD SIGNAGE
- EDGE LIGHT
- RUNWAY END MARKER

NOTES:

1. SEE PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
2. UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING PAVING OPERATION AND ALL OTHER CONSTRUCTION ACTIVITIES. CLEANUPS SHALL USE A VACUUM SWEEPER.
4. WHENEVER PAVING EQUIPMENT IS PARKED OR IDLE, THE EQUIPMENT SHALL BE PLACED ON FULL DROP PROTECTION MEASURES.



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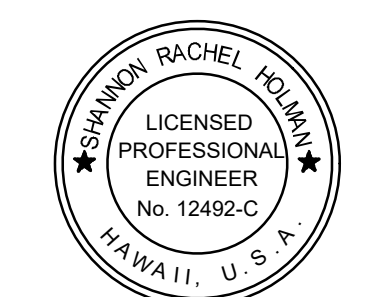
MATCHLINE, SEE DWG NO C-403

MATCHLINE, SEE DWG NO C-405

LEGEND:

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	AC PAVEMENT CRACK SAWCUT / PREPARATION (02101) AND CRACK SEALING (02605)
	AIRFIELD SIGNAGE
	EDGE LIGHT
	RUNWAY END MARKER

- NOTES:**
- SEE PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
 - UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
 - CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING PAVING OPERATION AND ALL OTHER CONSTRUCTION ACTIVITIES. CLEANUPS SHALL USE A VACUUM SWEEPER.
 - WHENEVER PAVING EQUIPMENT IS PARKED OR IDLE, THE EQUIPMENT SHALL BE PLACED ON FULL DROP PROTECTION MEASURES.

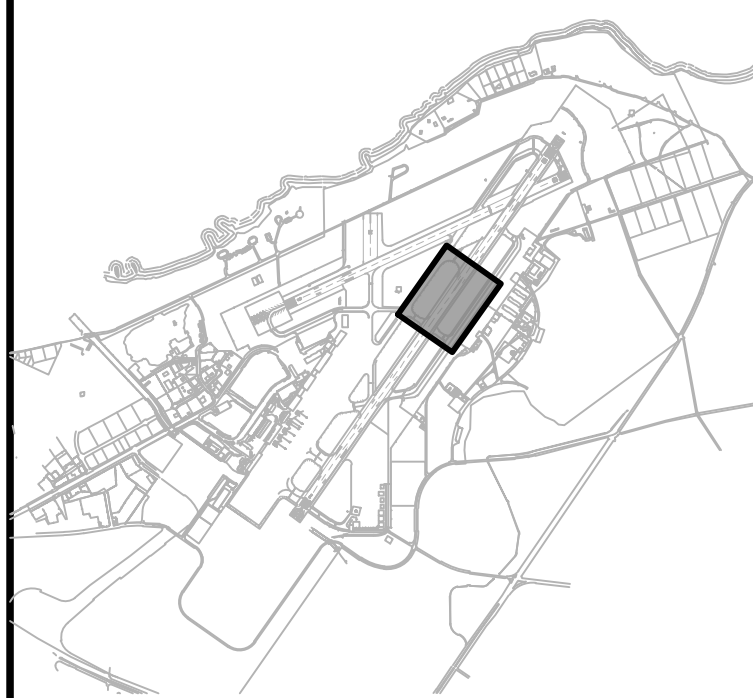


I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: *Shannon Rachel Holman* 4/30/24 Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

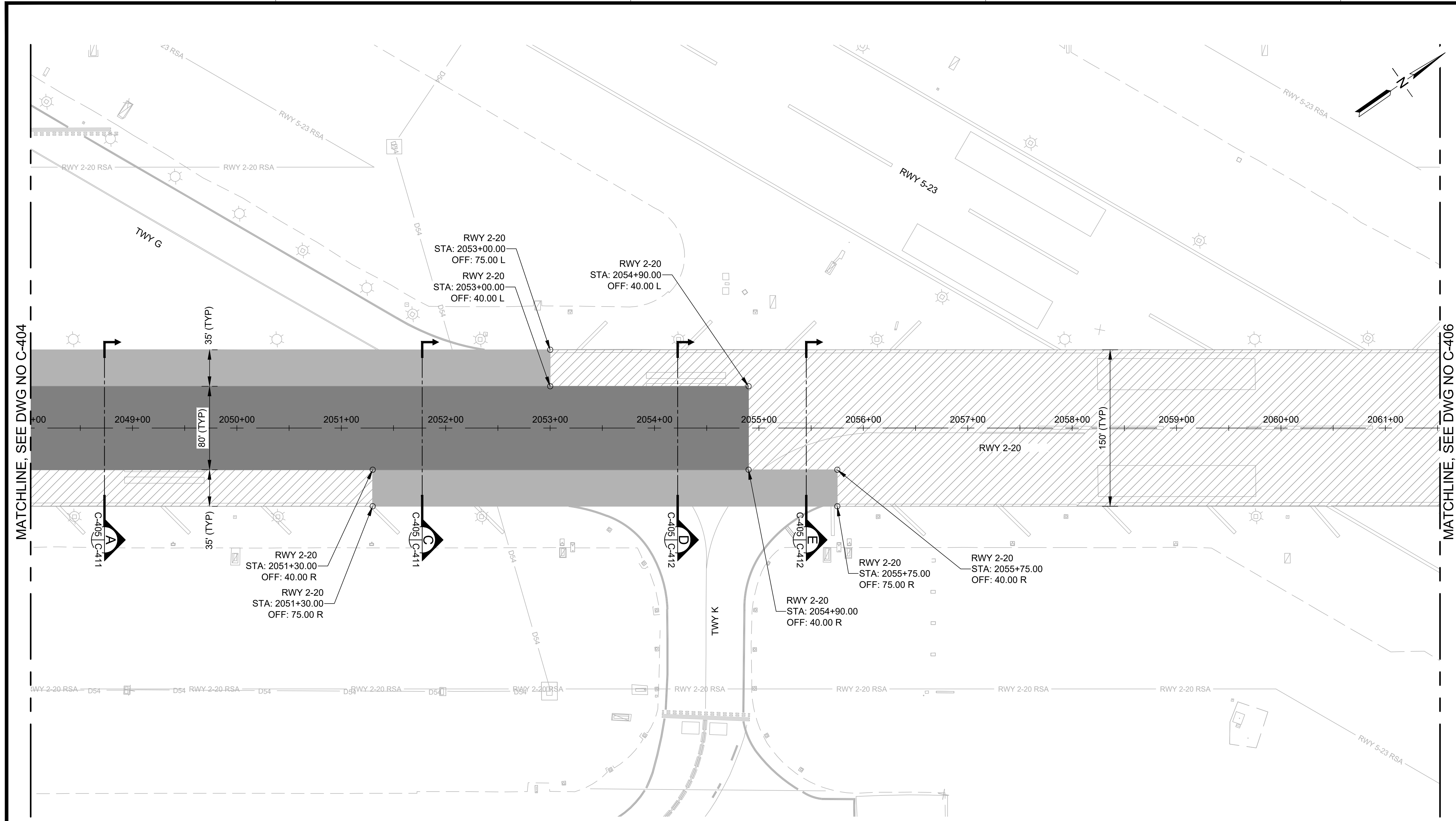
AM1022-21R

SHEET TITLE:

PAVING LAYOUT PLAN 4

DATE :	DWG. NO.
11/2022	C-404
SHEET :	
28 OF 46 SHEETS	

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MATCHLINE, SEE DWG NO C-404

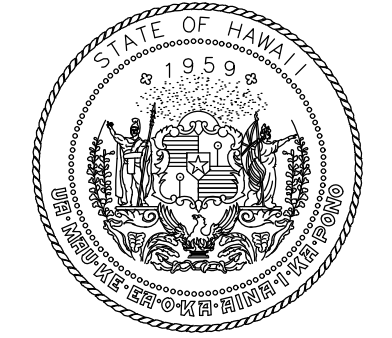
MATCHLINE, SEE DWG NO C-406

LEGEND:

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- AC PAVEMENT CRACK SAWCUT / PREPARATION (02101) AND CRACK SEALING (02605)
- AIRFIELD SIGNAGE
- EDGE LIGHT
- RUNWAY END MARKER

NOTES:

1. SEE PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
2. UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING PAVING OPERATION AND ALL OTHER CONSTRUCTION ACTIVITIES. CLEANUPS SHALL USE A VACUUM SWEEPER.
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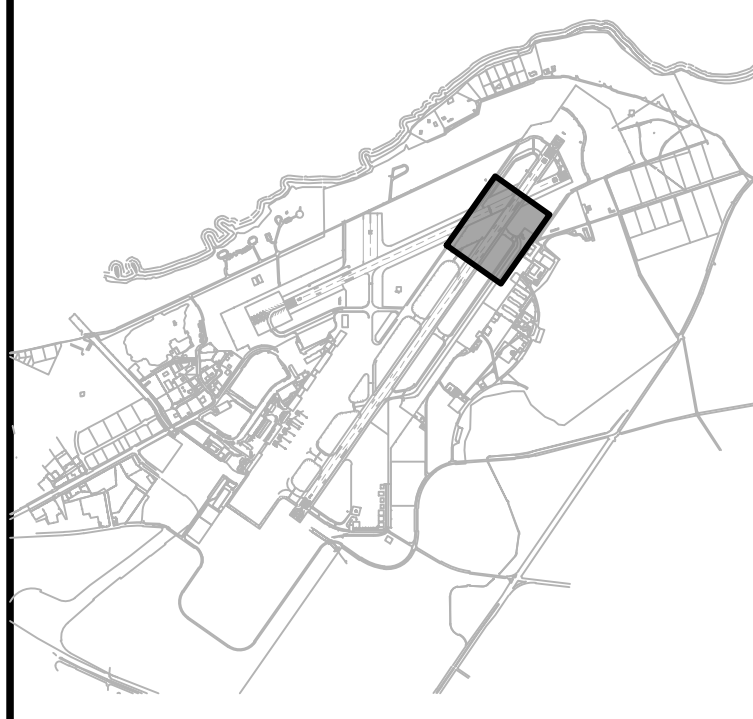
Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Signature: *Rachael Holman* 4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

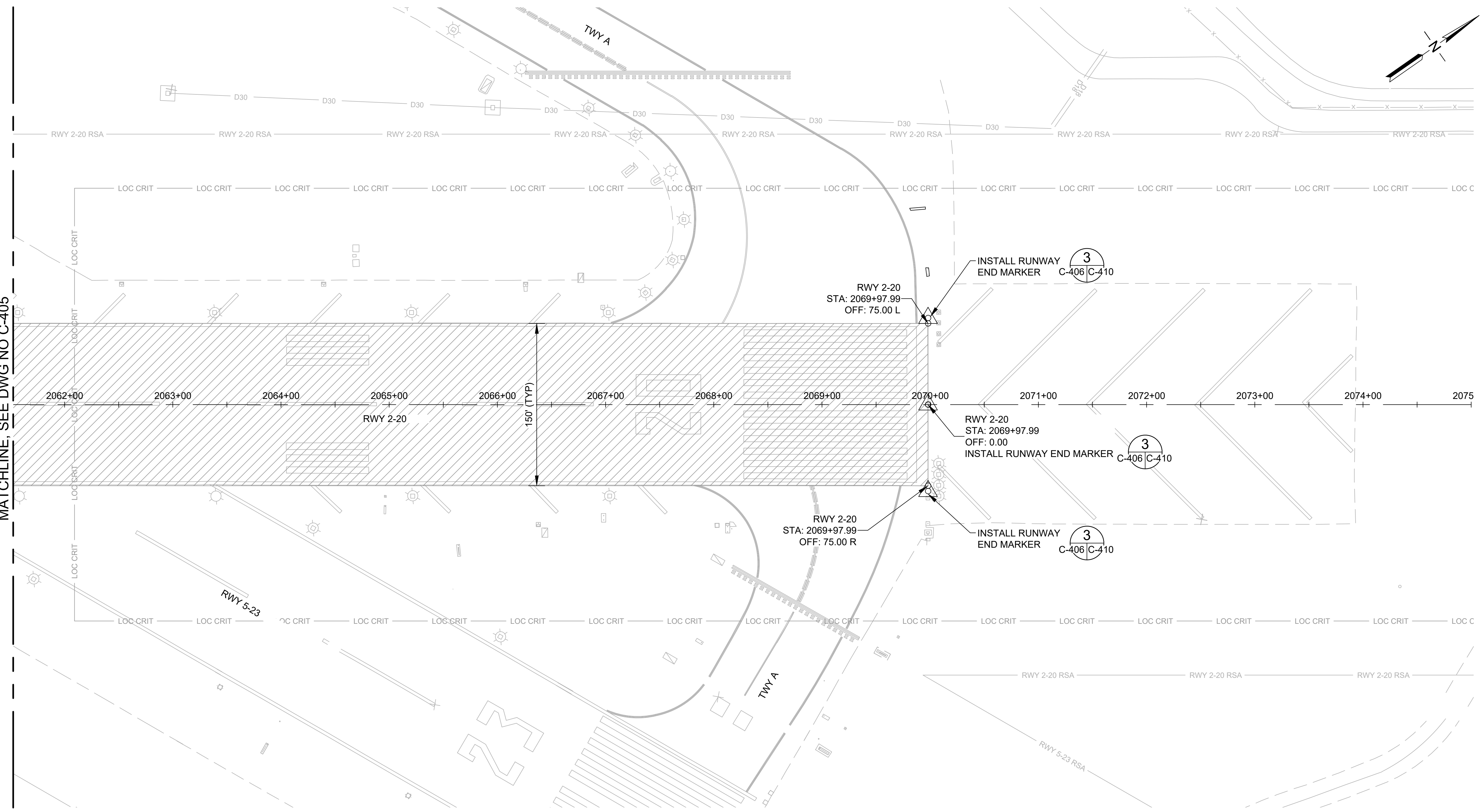
SHEET TITLE:

PAVING LAYOUT PLAN 5

DATE :	DWG. NO.
11/2022	C-405
SHEET :	
29 OF 46 SHEETS	

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MATCHLINE, SEE DWG NO C-405

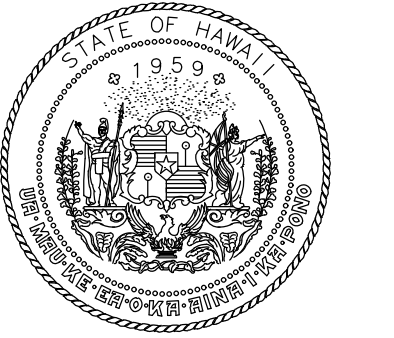


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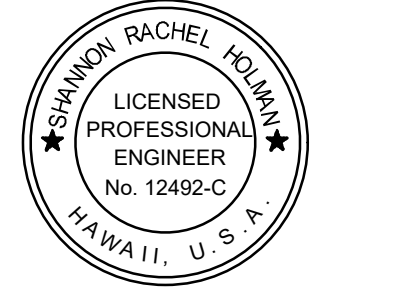
- AC 3" PAVEMENT (02401)
- AC 4" PAVEMENT (02401)
- AC PAVEMENT CRACK SAWCUT / PREPARATION (02101) AND CRACK SEALING (02605)
- AIRFIELD SIGNAGE
- EDGE LIGHT
- RUNWAY END MARKER

NOTES:

1. SEE PHASING PLANS FOR HAUL ROUTES AND STAGING AREAS.
2. UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. CLEANUP OF WASTE MATERIAL SHALL BE CONTINUOUS DURING PAVING OPERATION AND ALL OTHER CONSTRUCTION ACTIVITIES. CLEANUPS SHALL USE A VACUUM SWEEPER.
4. WHENEVER PAVING EQUIPMENT IS PARKED OR IDLE, THE EQUIPMENT SHALL BE PLACED ON FULL DROP PROTECTION MEASURES.



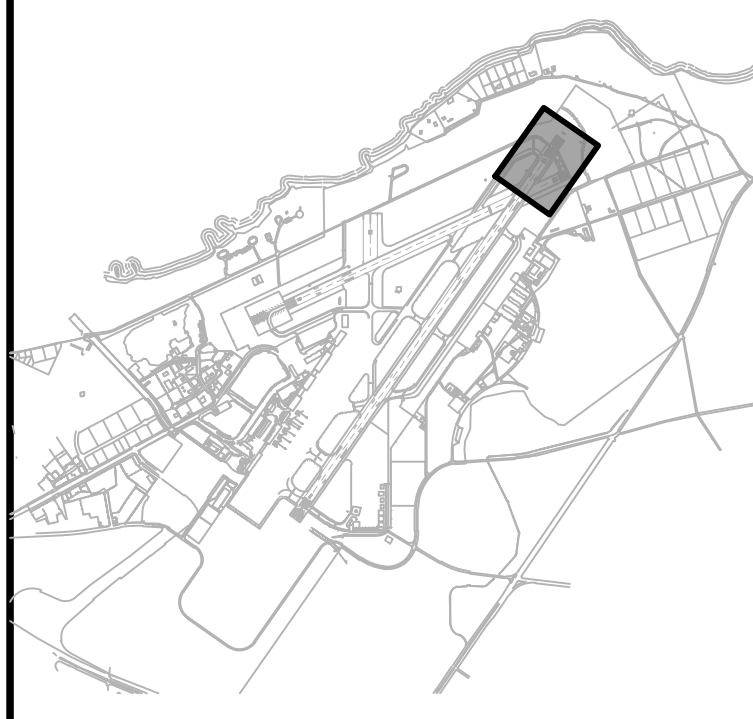
Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Signature: *Rachel Holman* 4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

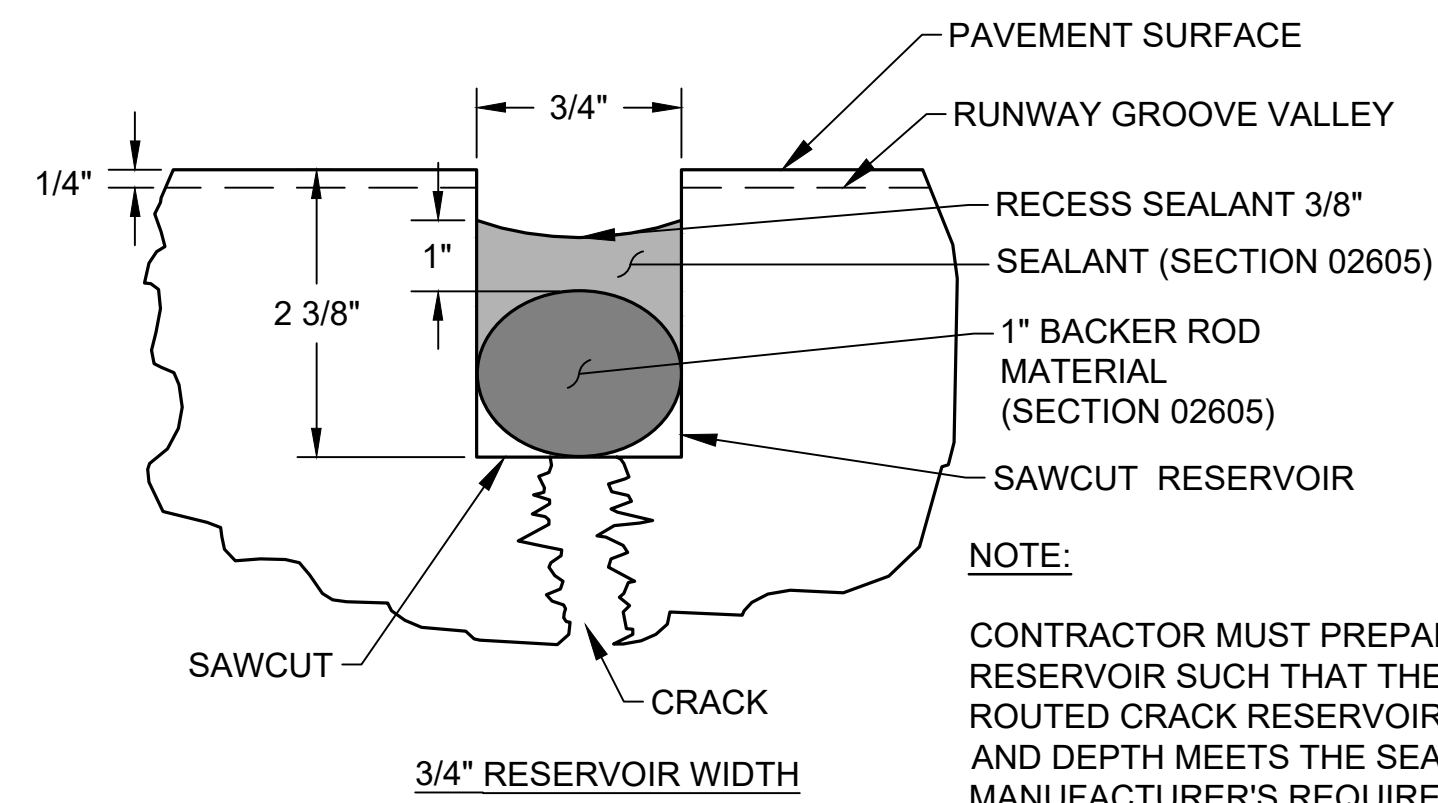
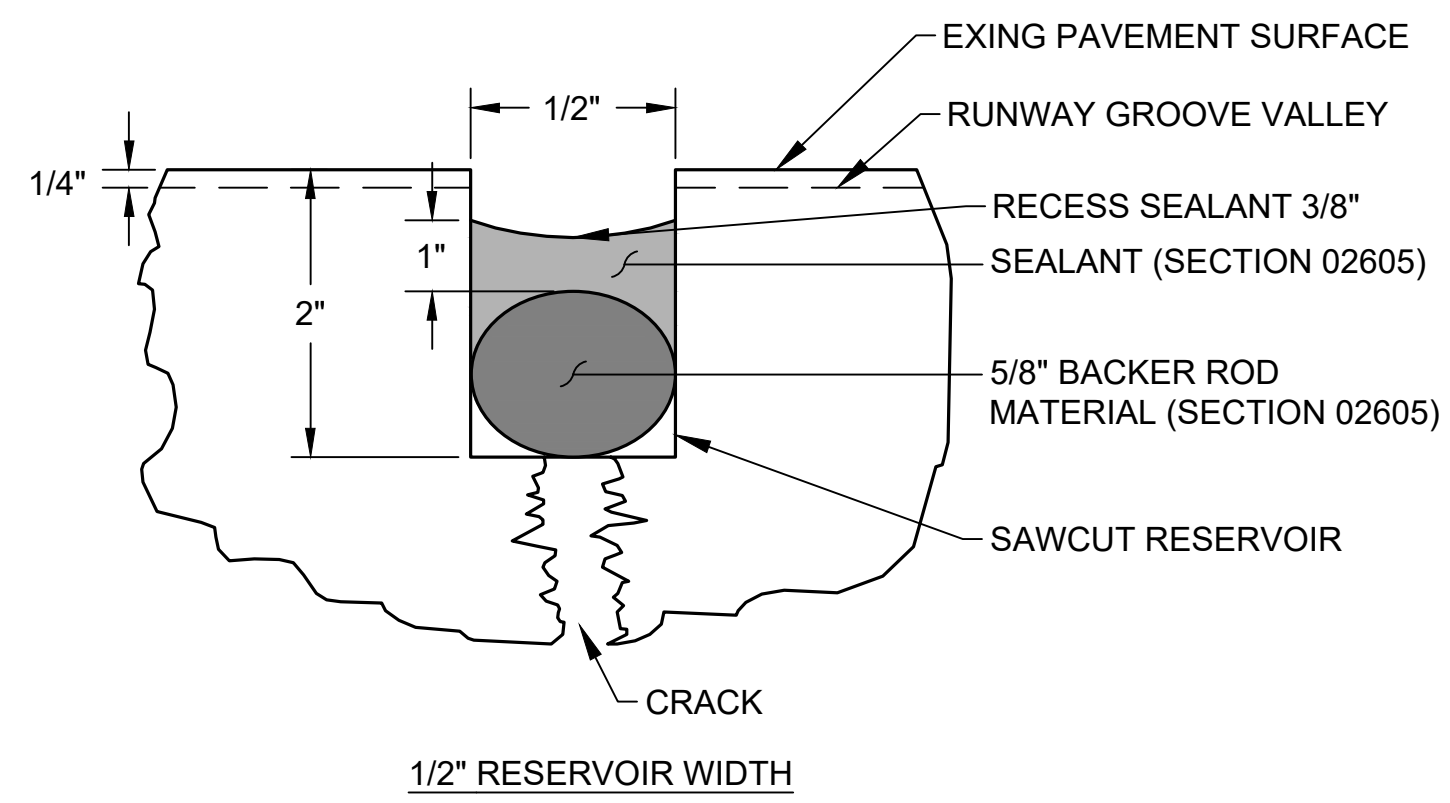
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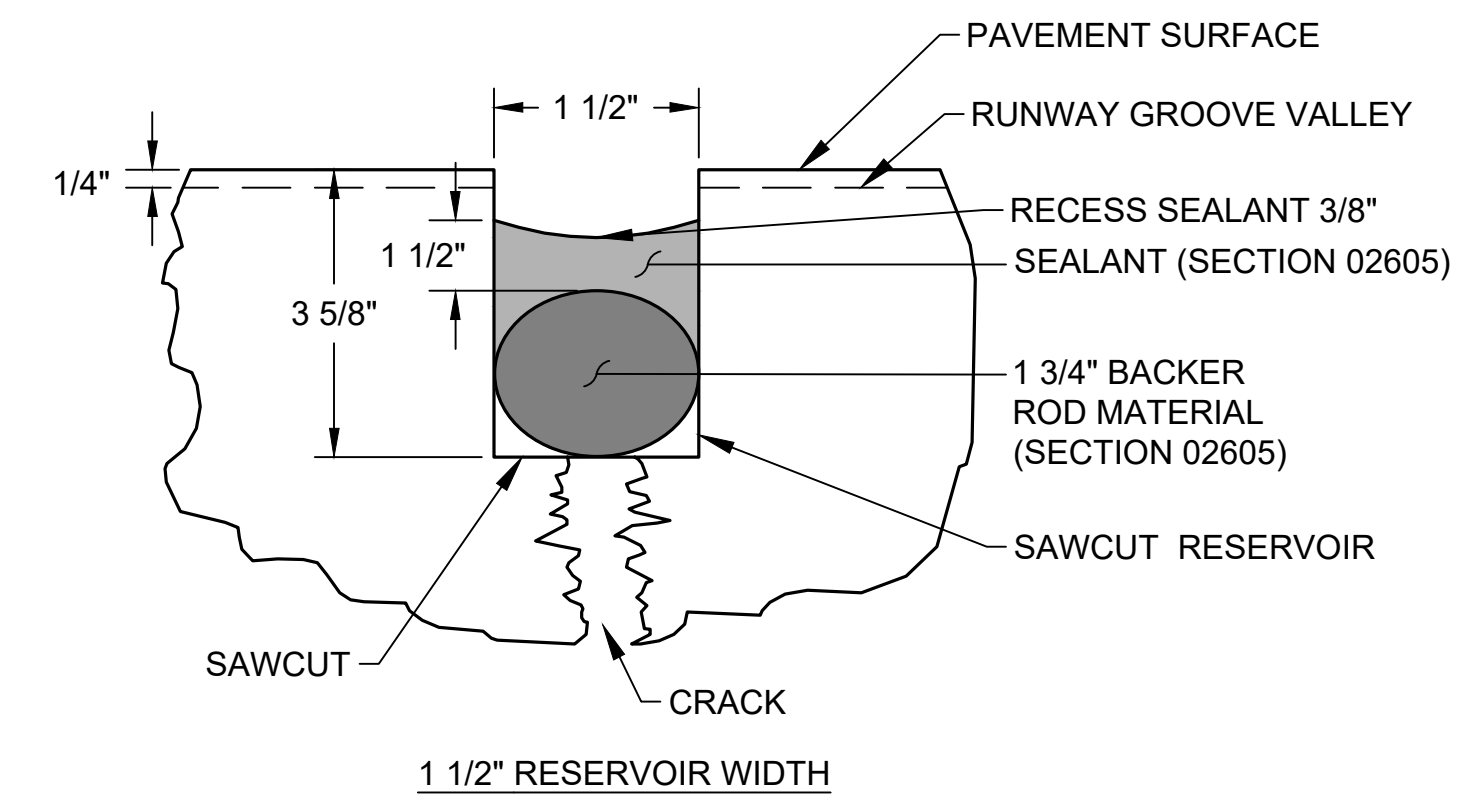
**PAVING LAYOUT
PLAN 6**

DATE : 11/2022	DWG. NO. C-406
SHEET : 30 OF 46 SHEETS	

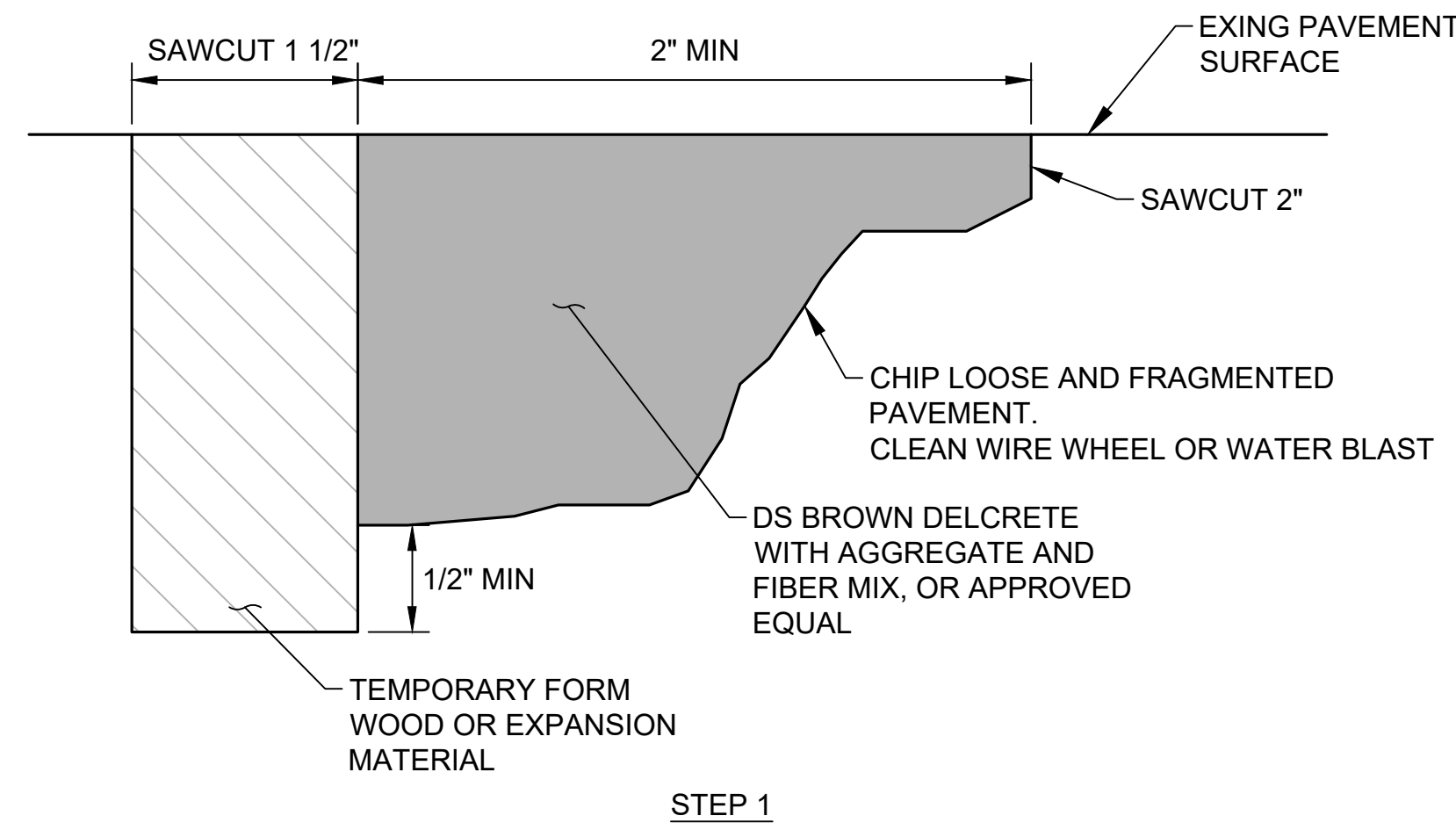
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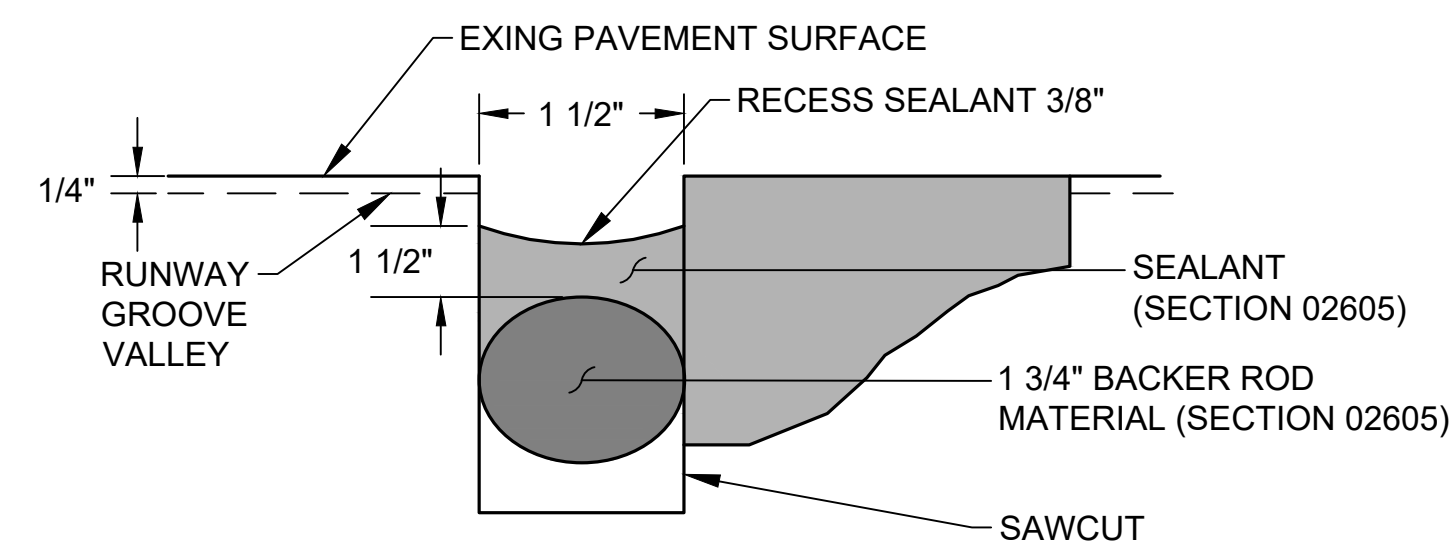
NOTE:
CONTRACTOR MUST PREPARE THE RESERVOIR SUCH THAT THE ROUTED CRACK RESERVOIR WIDTH AND DEPTH MEETS THE SEALANT MANUFACTURER'S REQUIREMENTS.



1 CRACK SEALANT DETAILS
C-410 C-410 SCALE: NTS

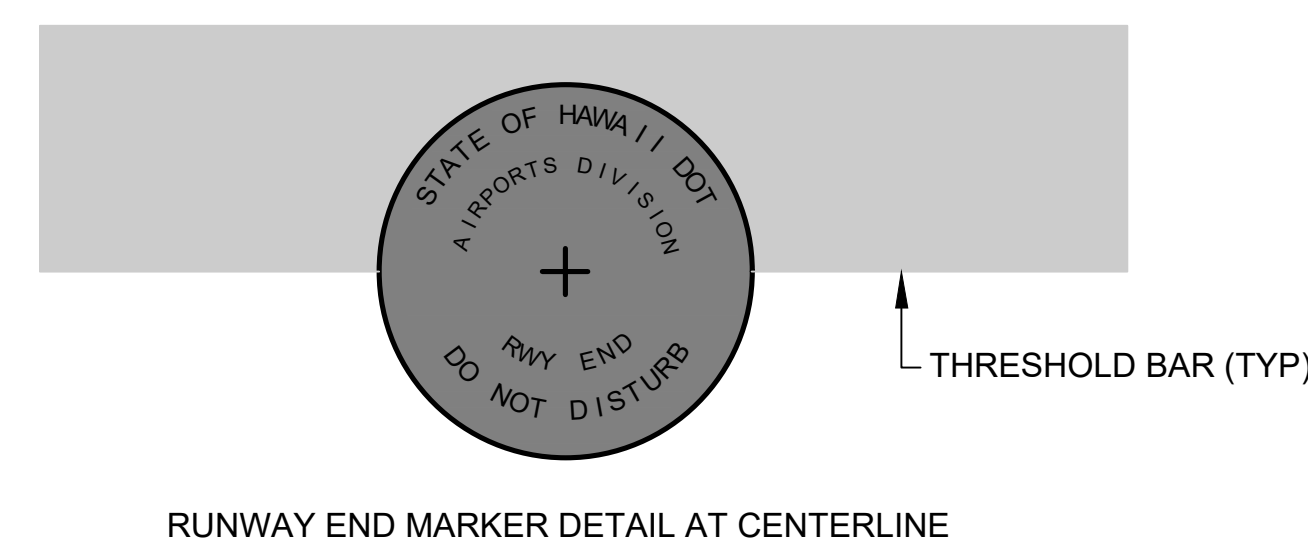
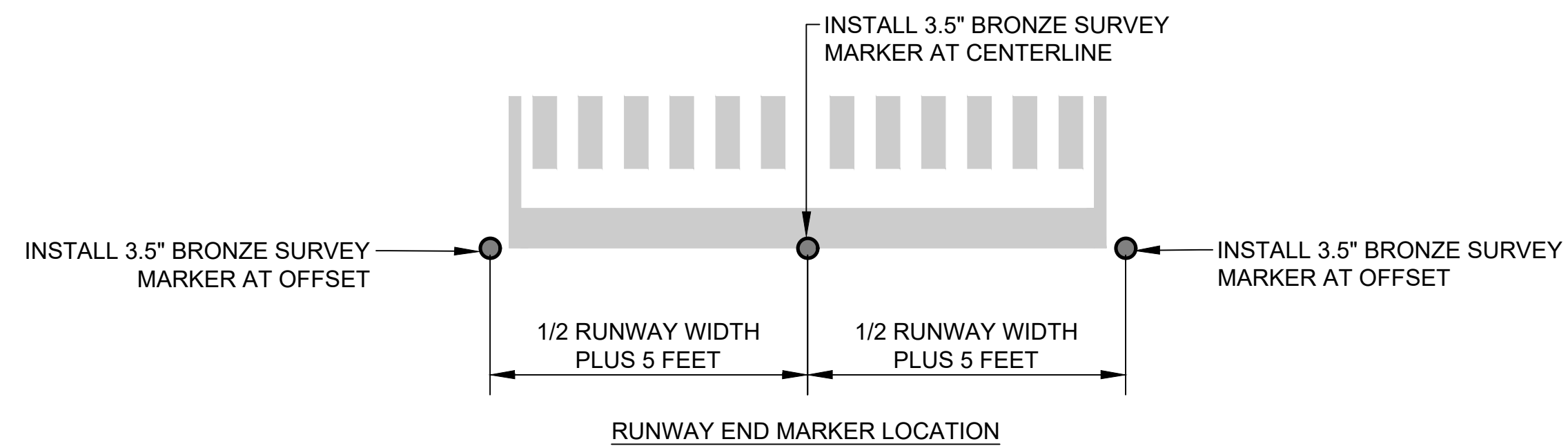


STEP 1

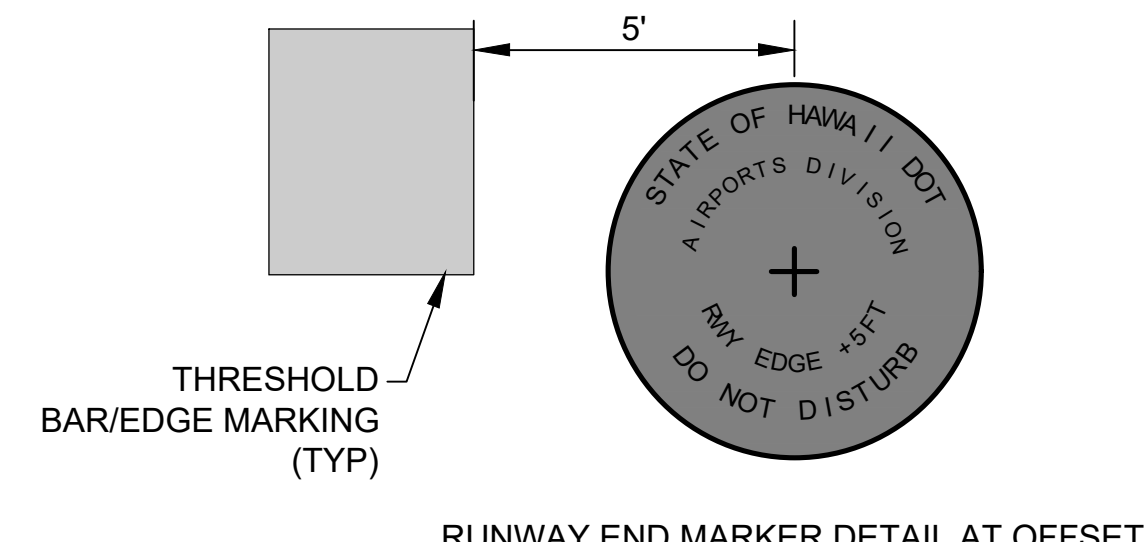


STEP 2

2 SPALL REPAIR
C-410 C-410 SCALE: NTS

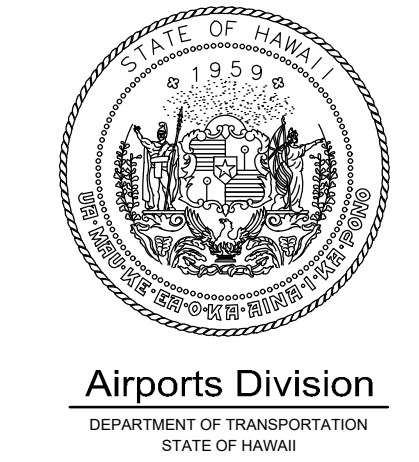


RUNWAY END MARKER DETAIL AT CENTERLINE



RUNWAY END MARKER DETAIL AT OFFSET

3 RUNWAY END MARKER
C-401, C-406 C-410 SCALE: NTS



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Signature: Rachel Holm
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

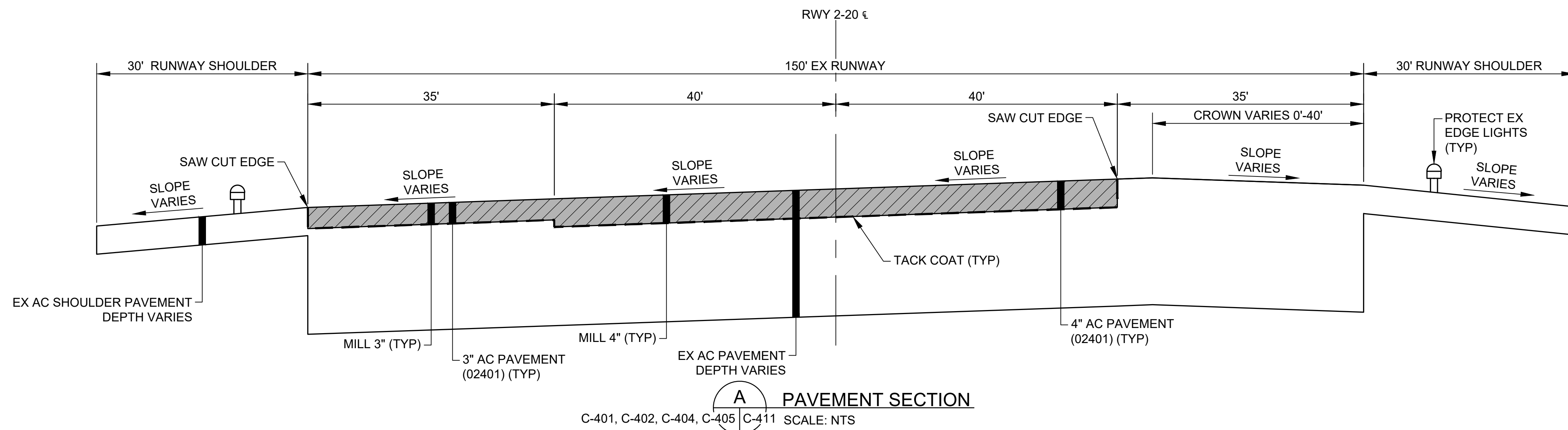
AM1022-21R

SHEET TITLE:

PAVING DETAILS

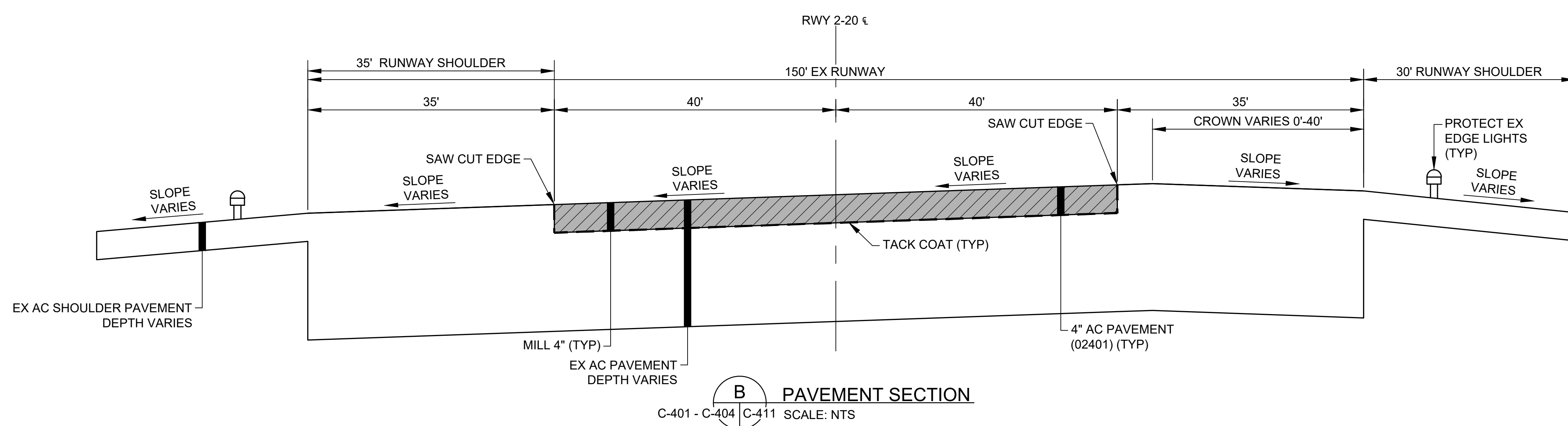
DATE :	11/2022
SHEET :	31 OF 46 SHEETS

DWG. NO.	C-410
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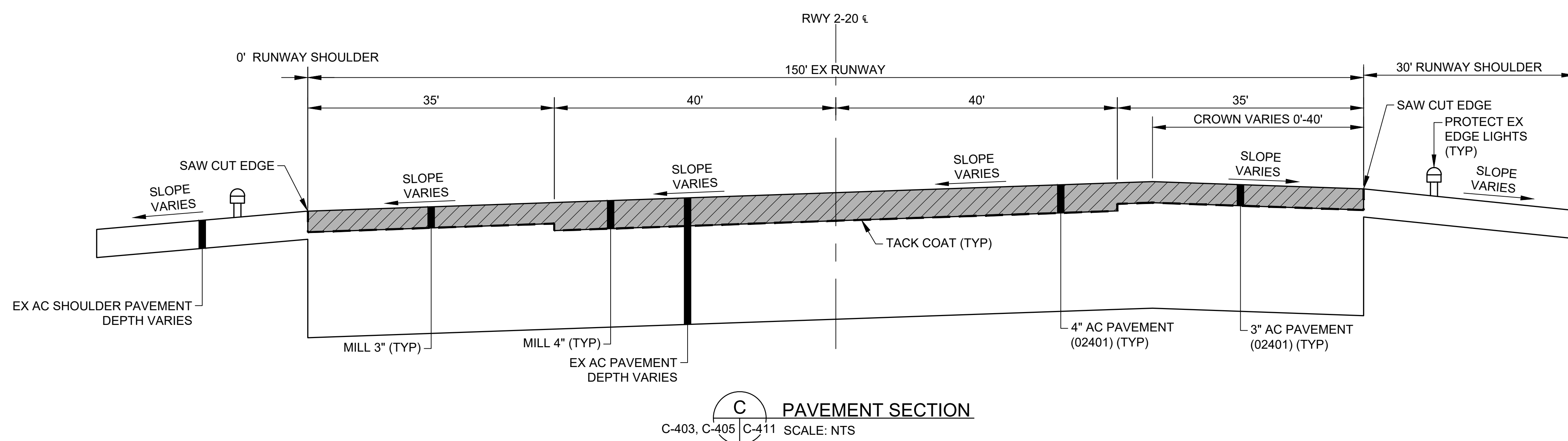
A PAVEMENT SECTION

C-401, C-402, C-404, C-405 | C-411 SCALE: NTS



B PAVEMENT SECTION

C-401 - C-404 | C-411 SCALE: NTS

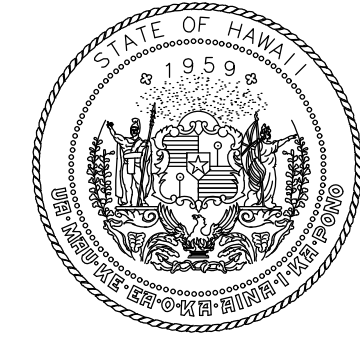


C PAVEMENT SECTION

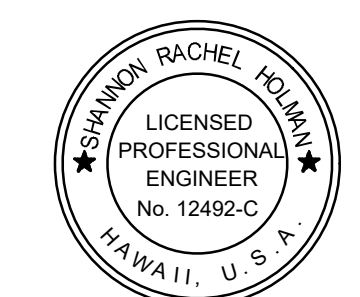
C-403, C-405 | C-411 SCALE: NTS

NOTES:

- AC EX PAVEMENT THICKNESS VARIES. REFER TO BORING LOCATION PLAN (DWG NO G-104) FOR AC THICKNESS AND VARIOUS LOCATIONS ON RUNWAY.



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TR	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

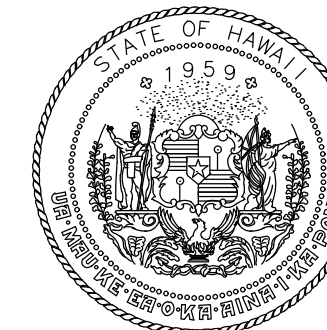
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SHEET TITLE:

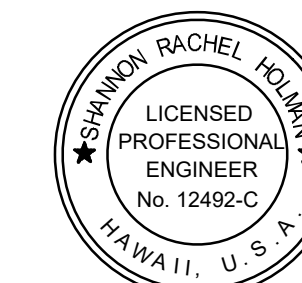
PAVEMENT SECTIONS 1

DATE :	DWG. NO.
11/2022	C-411
SHEET :	
32 OF 46 SHEETS	

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STATE OF HAWAII



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4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

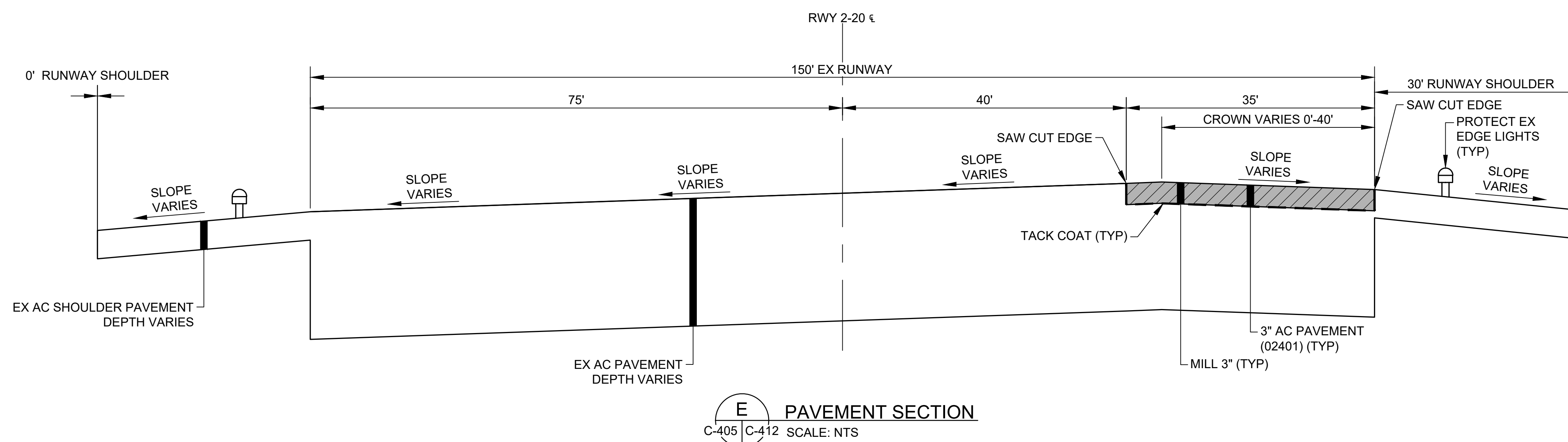
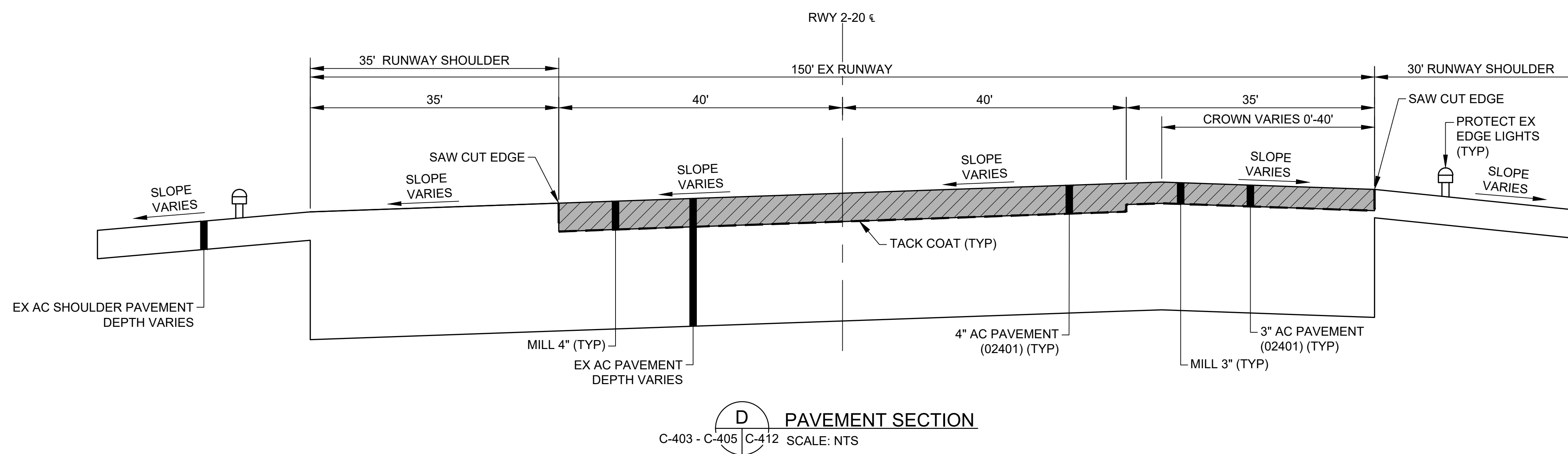
PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVEMENT SECTIONS 2

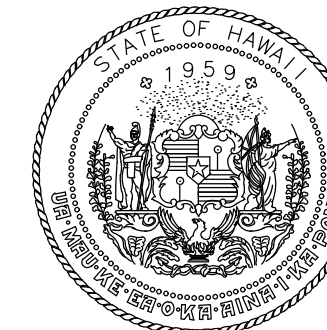
DATE :	DWG. NO.
11/2022	C-412
SHEET :	
33 OF 46 SHEETS	



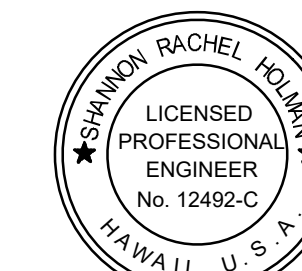
NOTES:

- AC EX PAVEMENT THICKNESS VARIES. REFER TO BORING LOCATION PLAN (DWG NO G-104) FOR AC THICKNESS AND VARIOUS LOCATIONS ON RUNWAY.

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STATE OF HAWAII

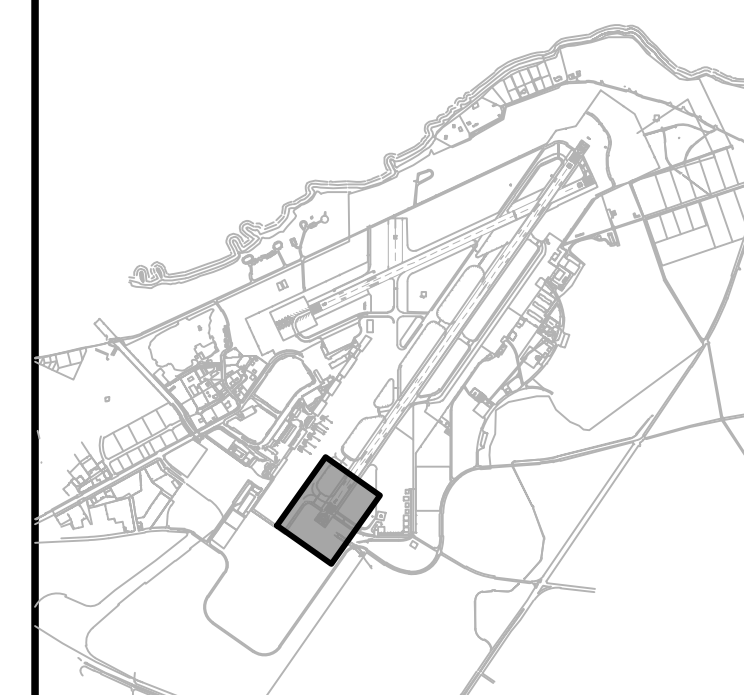


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4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVEMENT MARKING
PLAN 1

DATE :

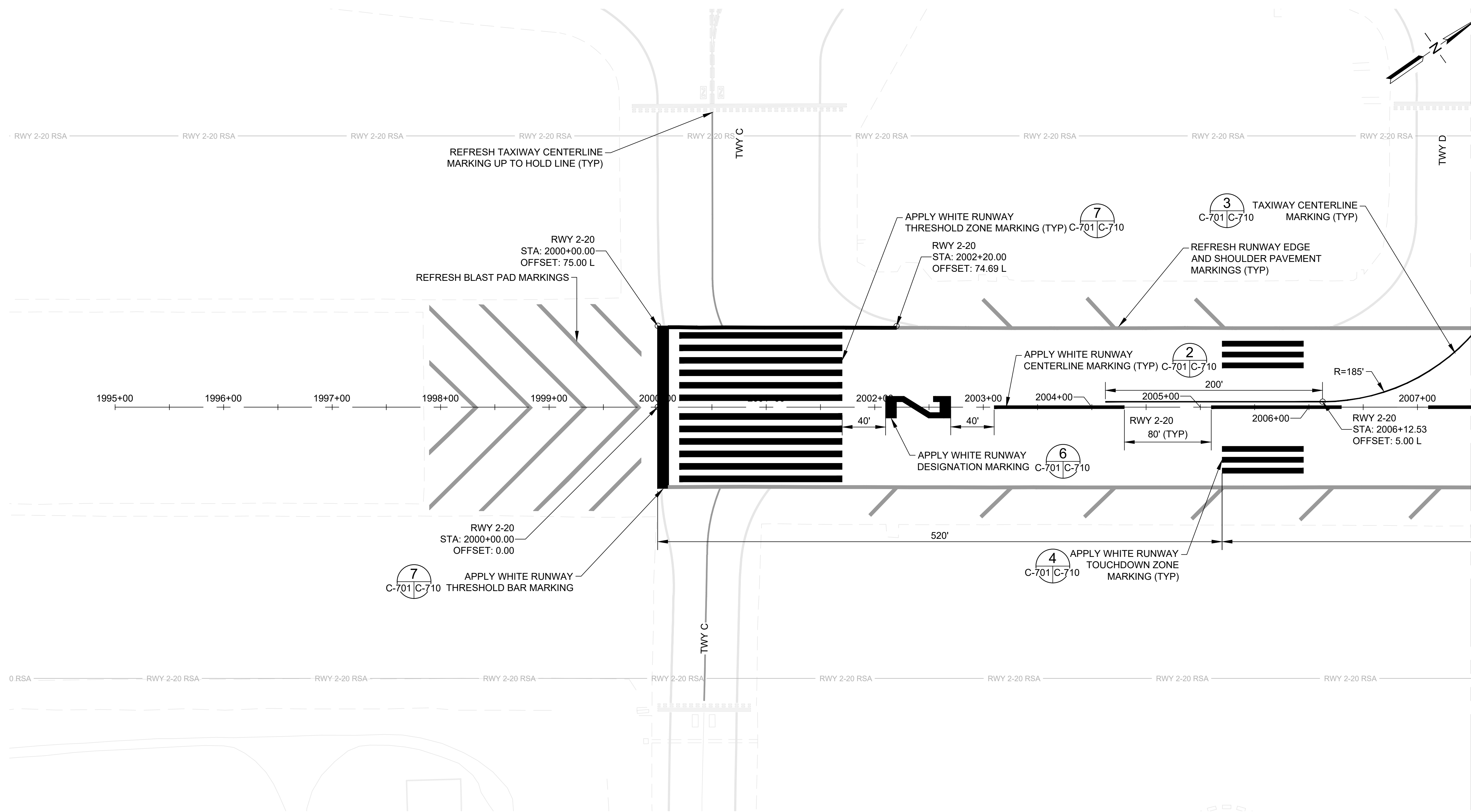
11/2022

SHEET :

34 OF 46 SHEETS

DWG. NO.

C-701



MATCHLINE, SEE DWG NO C-702

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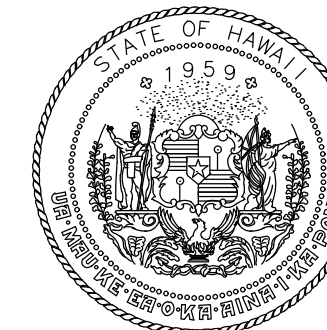
- NEW MARKING
- REFRESH MARKING

NOTES:

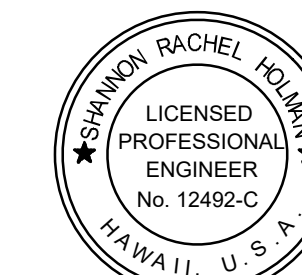
- TAXIWAY CENTERLINE MARKINGS SHALL NOT OVERLAP RUNWAY MARKINGS, RUNWAY MARKINGS TAKE PRECEDENCE.
- HALF APPLICATION MARKINGS ON NEW AC PAVEMENT TO BE PLACED AFTER EACH PAVING WORK SHIFT AND PRIOR TO OPENING RUNWAY.
- REFRESHED MARKINGS SHALL MATCH EXISTING ALIGNMENTS AND MEET THE REQUIREMENTS OF SECTION 02620.
- EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
- EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.



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STATE OF HAWAII

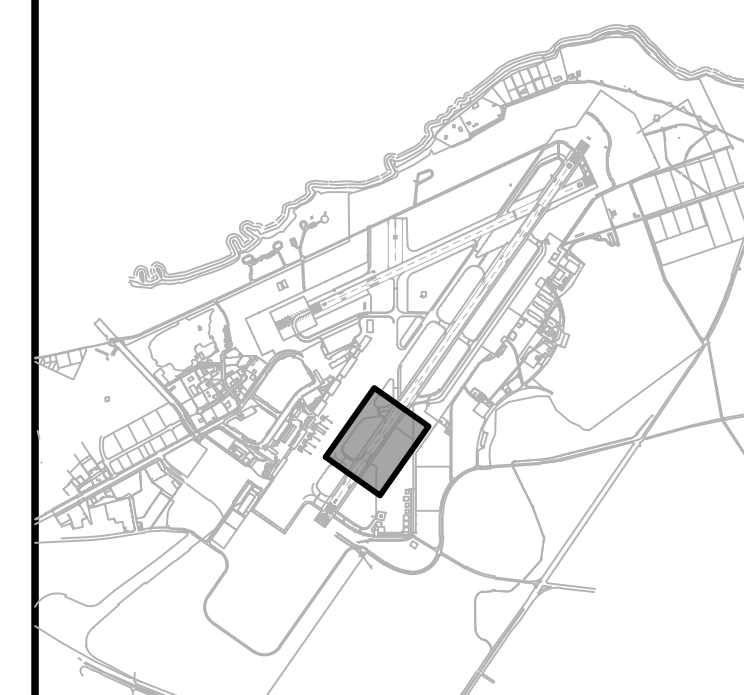


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TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVEMENT MARKING
PLAN 2

DATE :

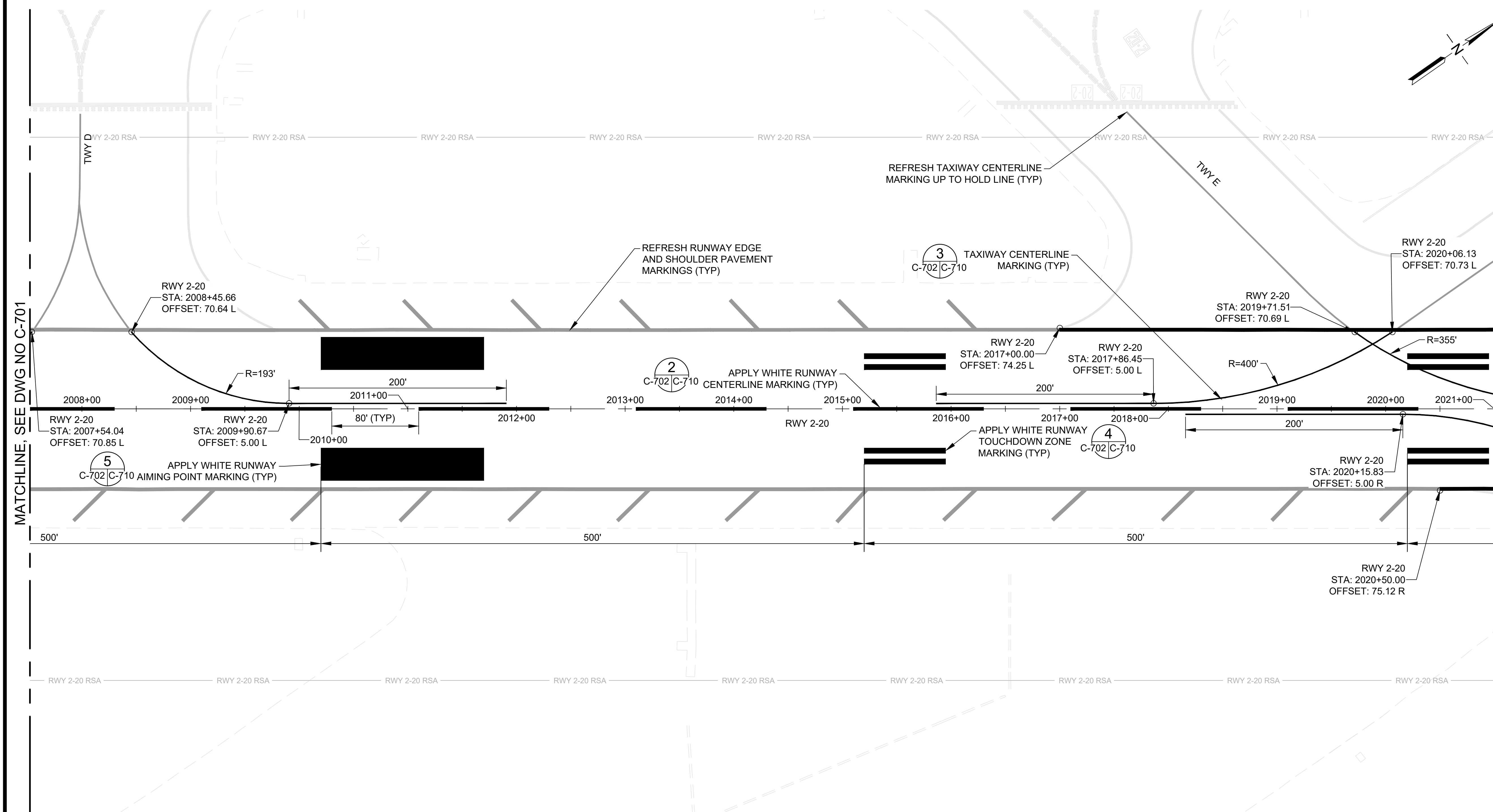
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SHEET :

35 OF 46 SHEETS

DWG. NO.

C-702



MATCHLINE, SEE DWG NO C-701

MATCHLINE, SEE DWG NO C-703

LEGEND:

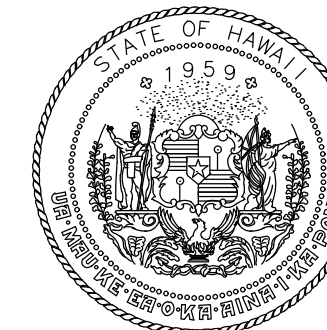
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- REFRESH MARKING

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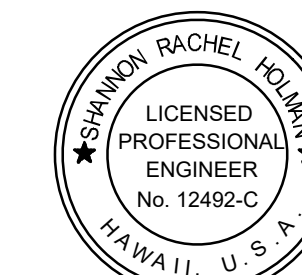
- TAXIWAY CENTERLINE MARKINGS SHALL NOT OVERLAP RUNWAY MARKINGS, RUNWAY MARKINGS TAKE PRECEDENCE.
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- EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
- EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.



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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

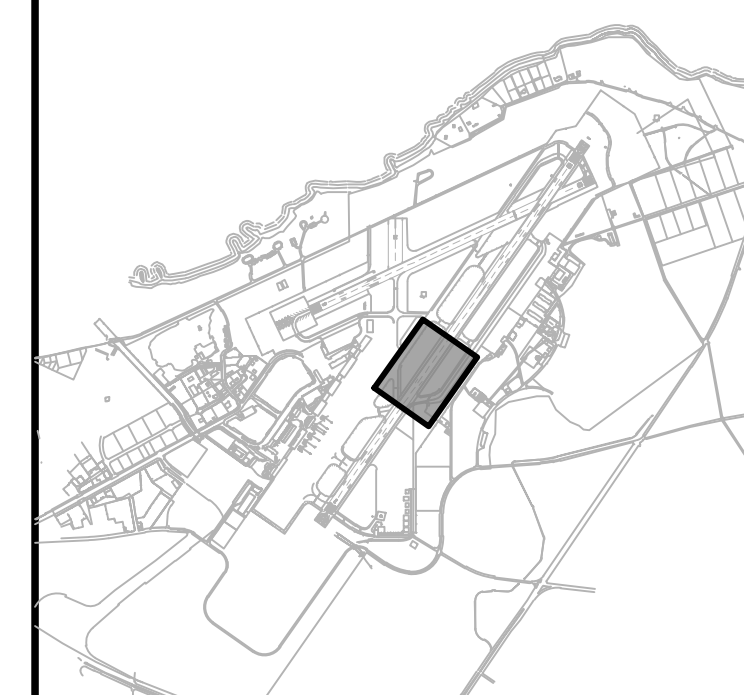


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Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVEMENT MARKING
PLAN 3

DATE :

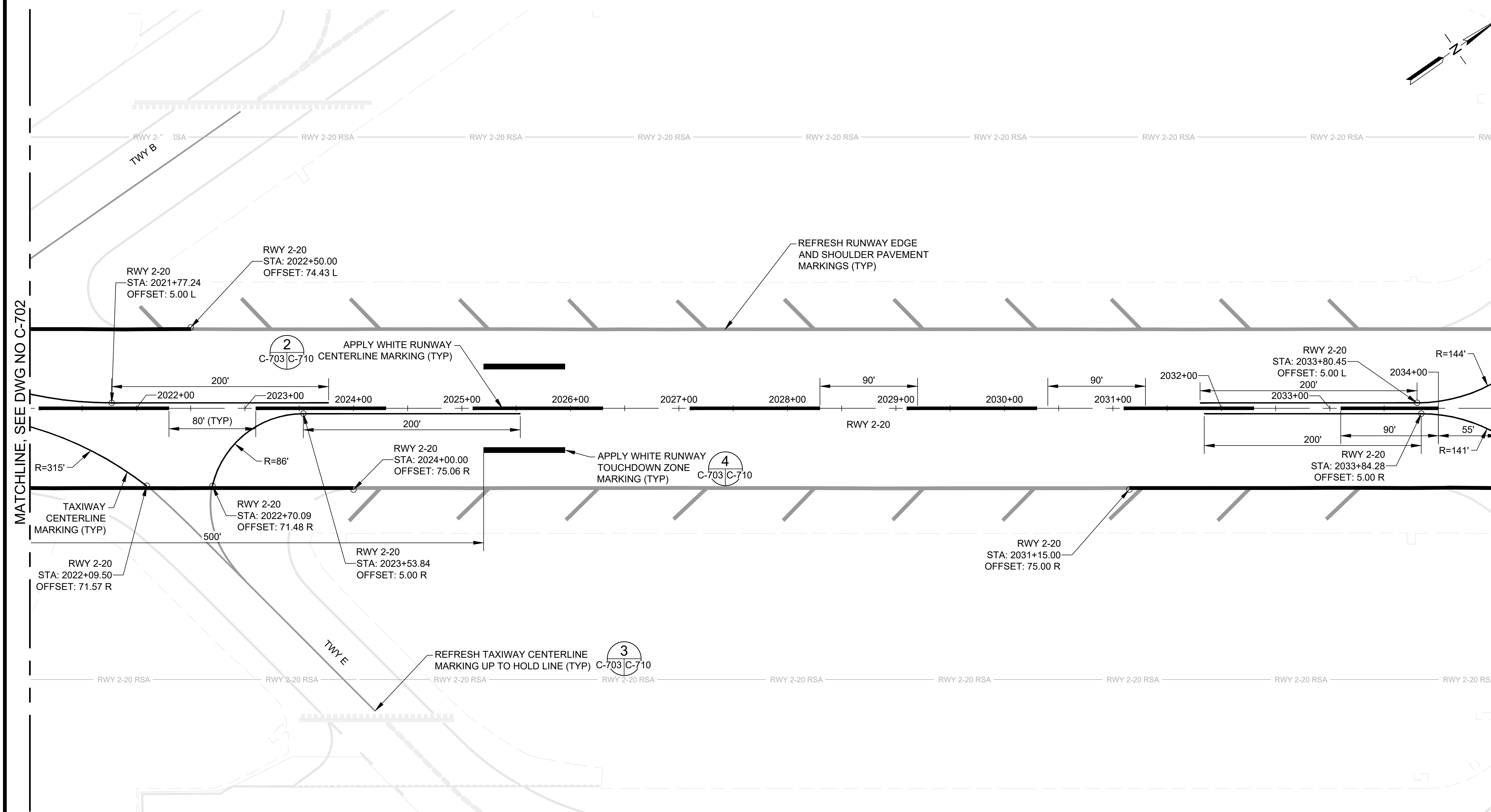
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SHEET :

36 OF 46 SHEETS

DWG. NO.

C-703



MATCHLINE, SEE DWG NO C-702

MATCHLINE, SEE DWG NO C-704

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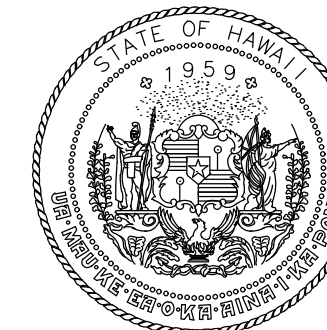
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- REFRESH MARKING

NOTES:

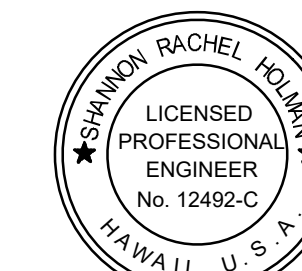
- TAXIWAY CENTERLINE MARKINGS SHALL NOT OVERLAP RUNWAY MARKINGS, RUNWAY MARKINGS TAKE PRECEDENCE.
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- EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
- EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.



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DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

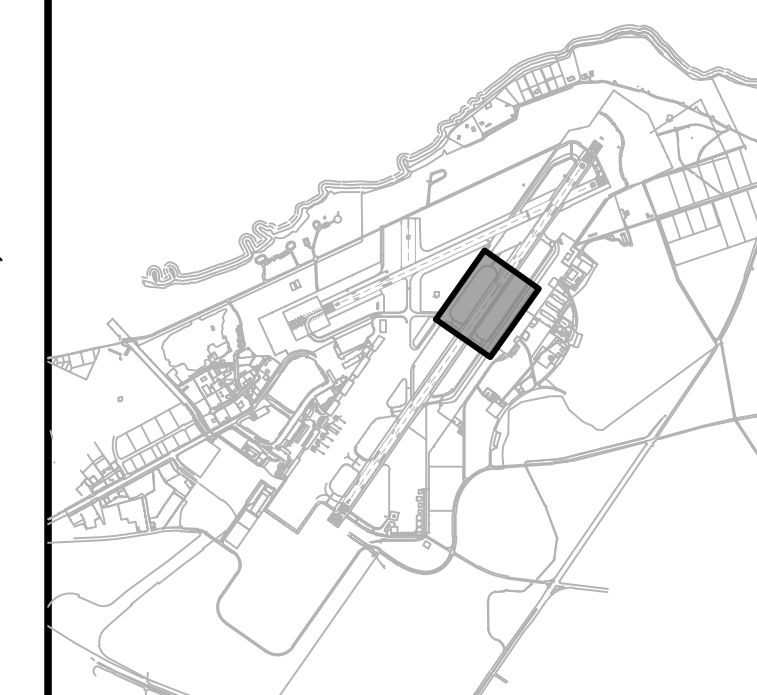


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Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVEMENT MARKING
PLAN 4

DATE :

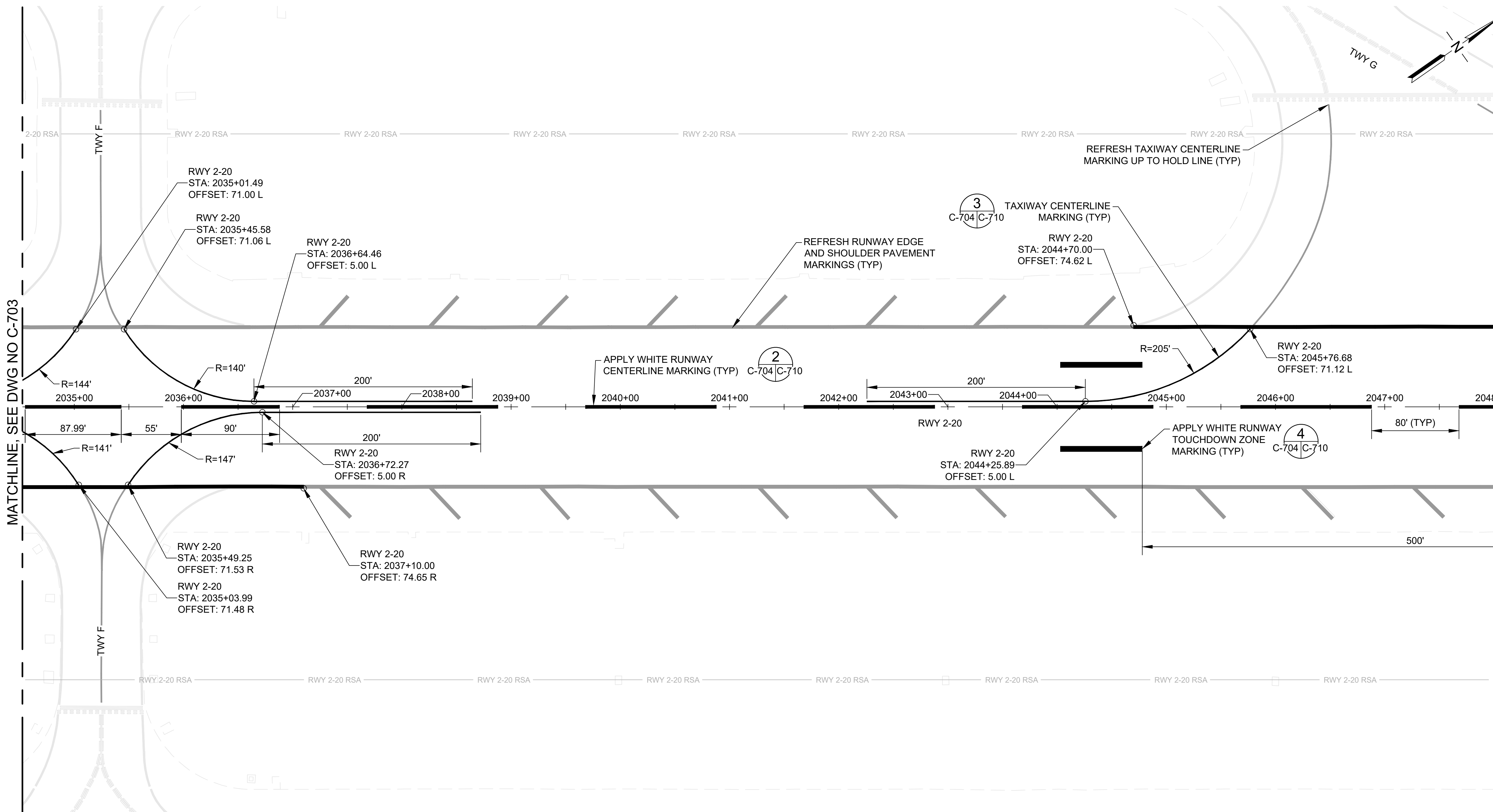
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SHEET :

37 OF 46 SHEETS

DWG. NO.

C-704



MATCHLINE, SEE DWG NO C-703

MATCHLINE, SEE DWG NO C-705

LEGEND:

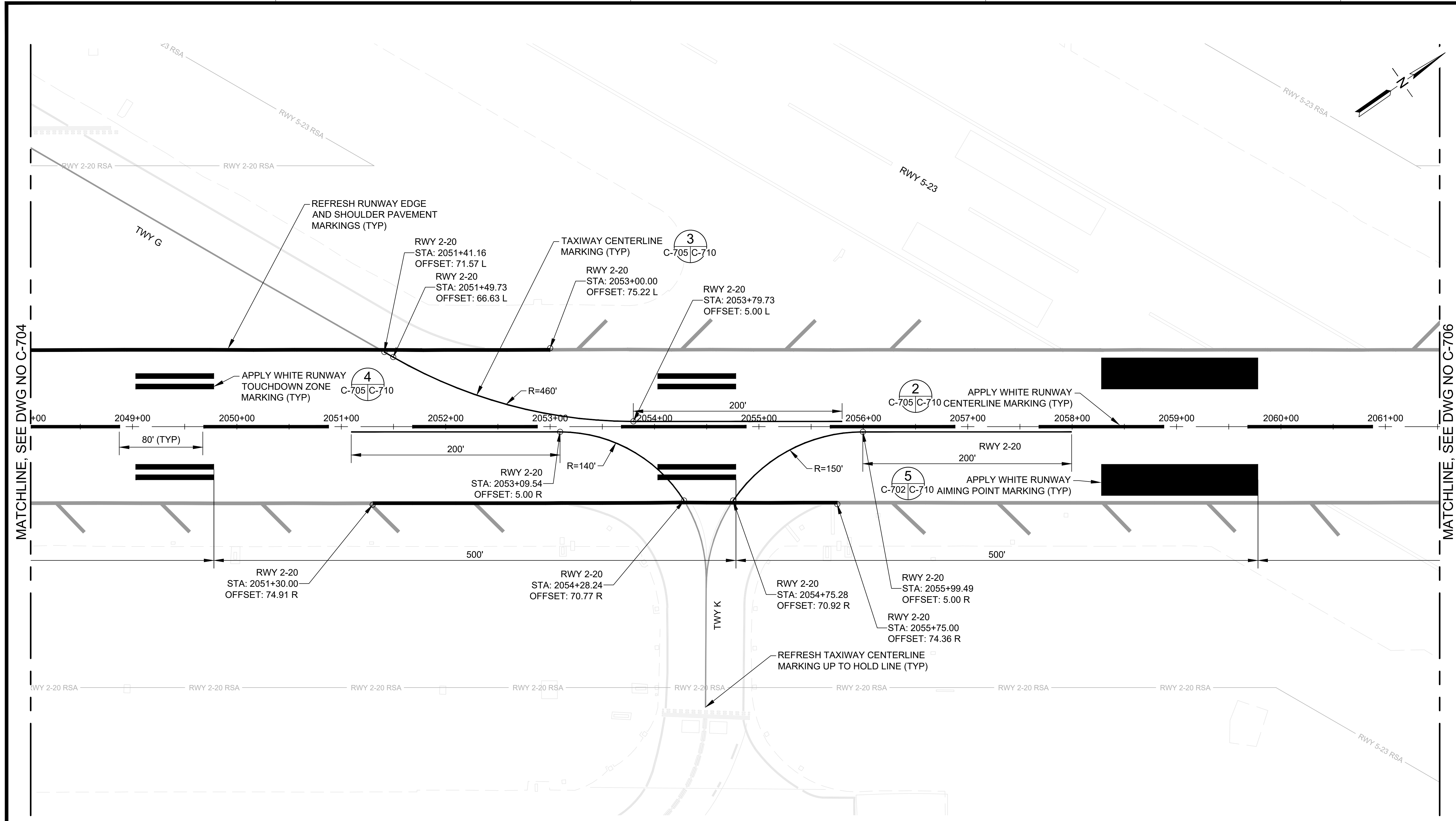
- NEW MARKING
- REFRESH MARKING

NOTES:

- TAXIWAY CENTERLINE MARKINGS SHALL NOT OVERLAP RUNWAY MARKINGS, RUNWAY MARKINGS TAKE PRECEDENCE.
- HALF APPLICATION MARKINGS ON NEW AC PAVEMENT TO BE PLACED AFTER EACH PAVING WORK SHIFT AND PRIOR TO OPENING RUNWAY.
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- EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
- EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.



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MATCHLINE, SEE DWG NO C-704

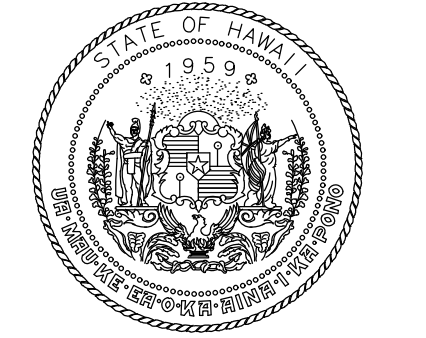
MATCHLINE, SEE DWG NO C-706

LEGEND:

- NEW MARKING
- REFRESH MARKING

NOTES:

1. TAXIWAY CENTERLINE MARKINGS SHALL NOT OVERLAP RUNWAY MARKINGS, RUNWAY MARKINGS TAKE PRECEDENCE.
2. HALF APPLICATION MARKINGS ON NEW AC PAVEMENT TO BE PLACED AFTER EACH PAVING WORK SHIFT AND PRIOR TO OPENING RUNWAY.
3. REFRESHED MARKINGS SHALL MATCH EXISTING ALIGNMENTS AND MEET THE REQUIREMENTS OF SECTION 02620.
4. EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
5. EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.



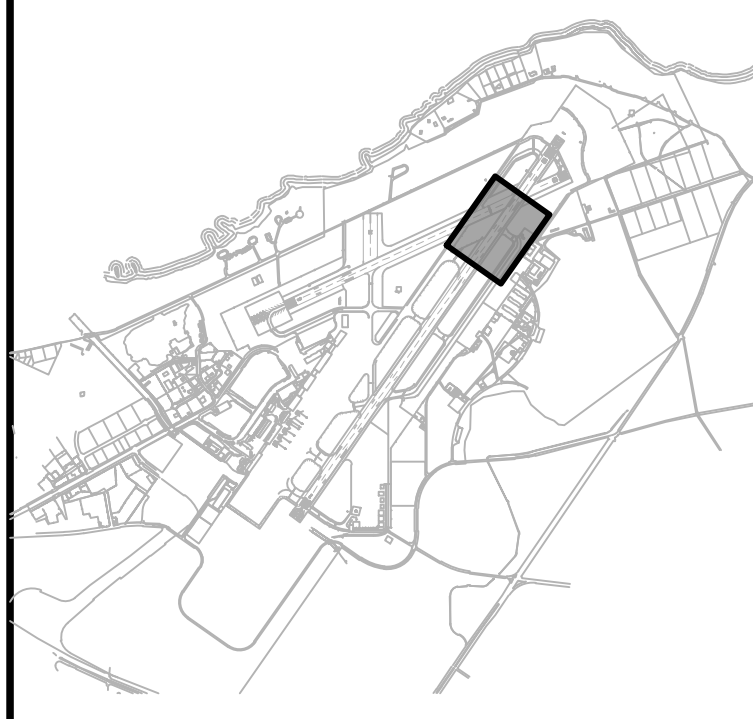
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STATE OF HAWAII



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Signature: *Rachel Holman* 4/30/24
Expiration Date

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TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVEMENT MARKING PLAN 5

DATE : 11/2022

SHEET : 38 OF 46 SHEETS

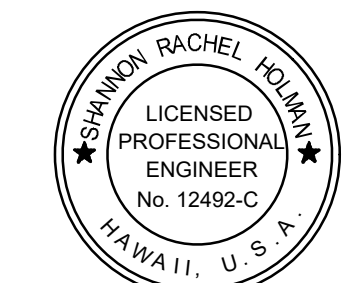
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C-705

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STATE OF HAWAII

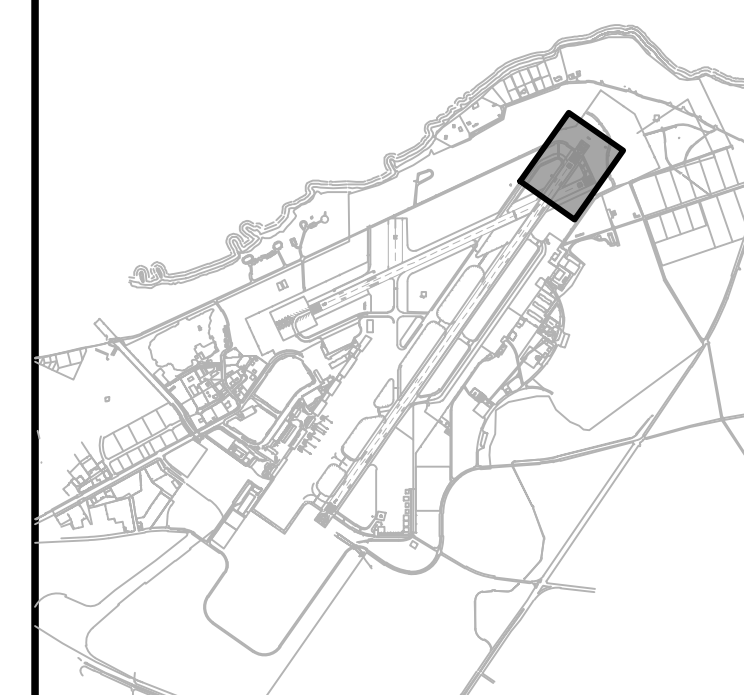


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4/30/24
Expiration Date

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TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

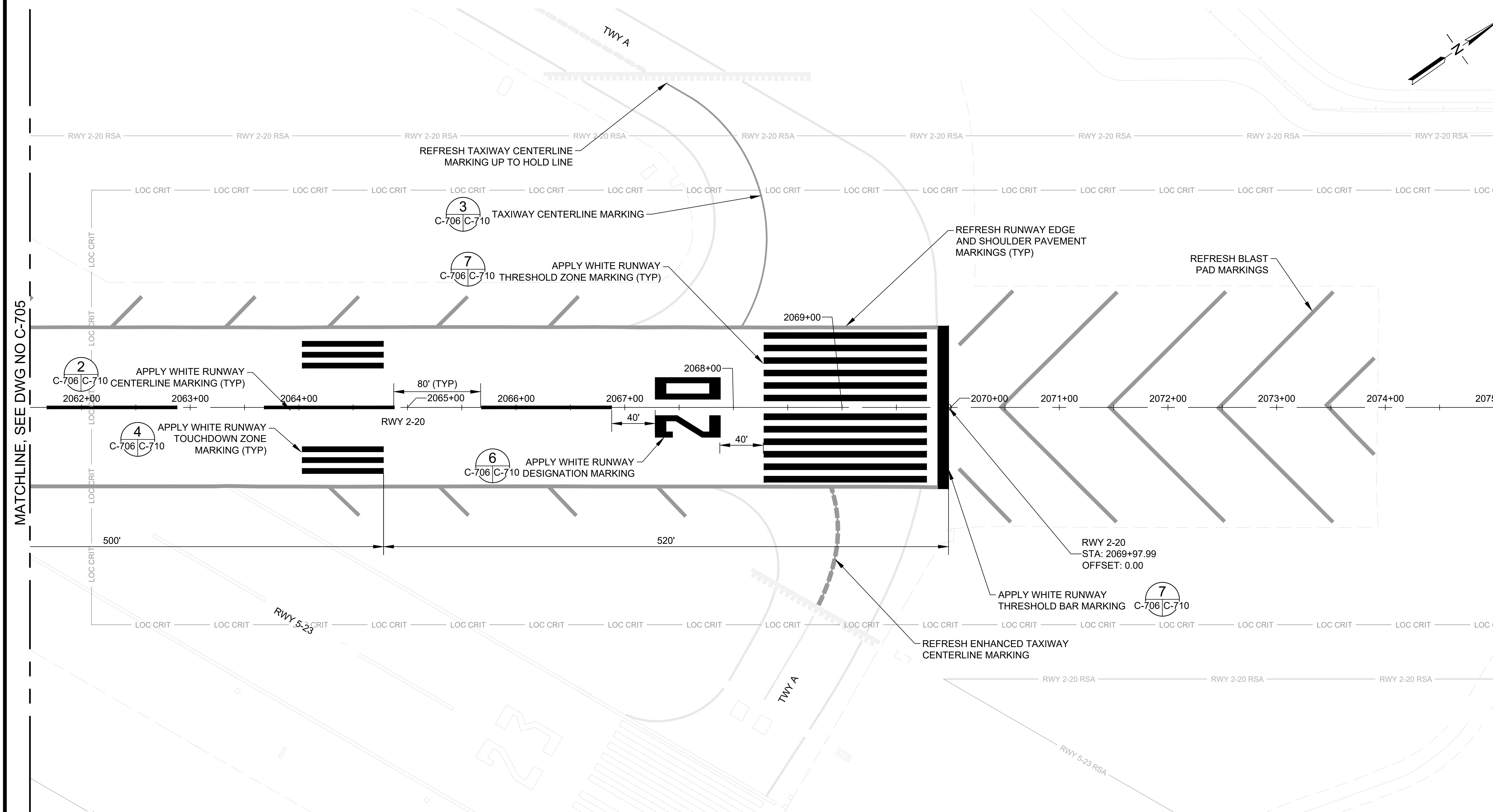
PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVEMENT MARKING
PLAN 6

DATE :	DWG. NO.
11/2022	C-706
SHEET :	
39 OF 46 SHEETS	



MATCHLINE, SEE DWG NO C-705

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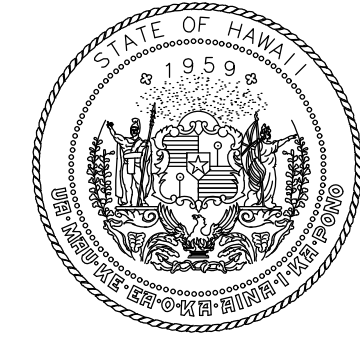
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- REFRESH MARKING

NOTES:

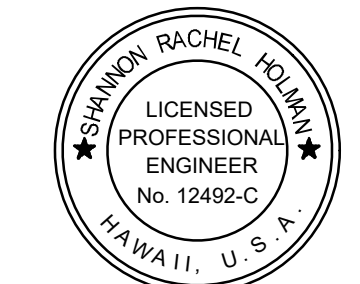
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- EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.



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DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Signature: Rachel Holm
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS

NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

PAVEMENT MARKING DETAILS

DATE :

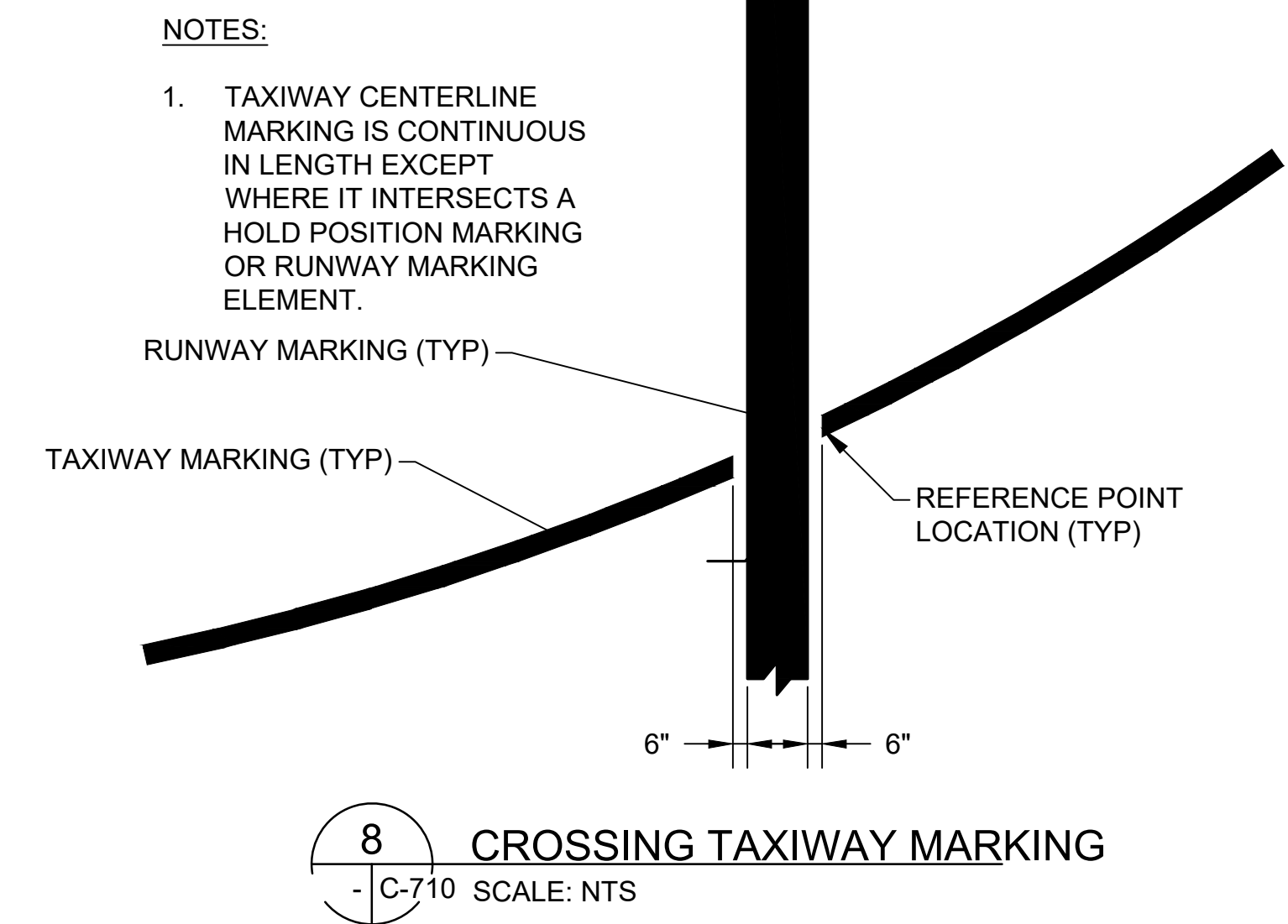
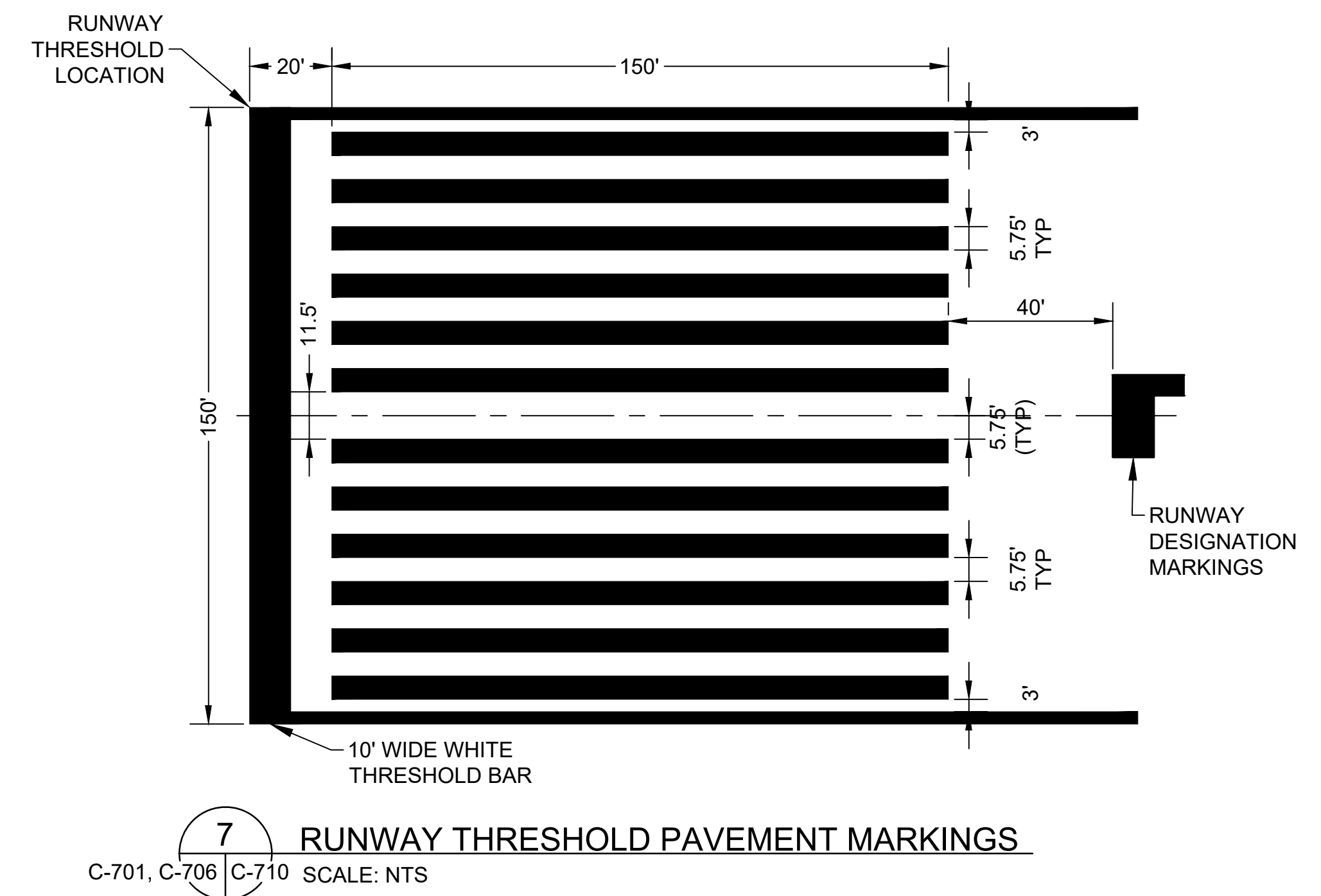
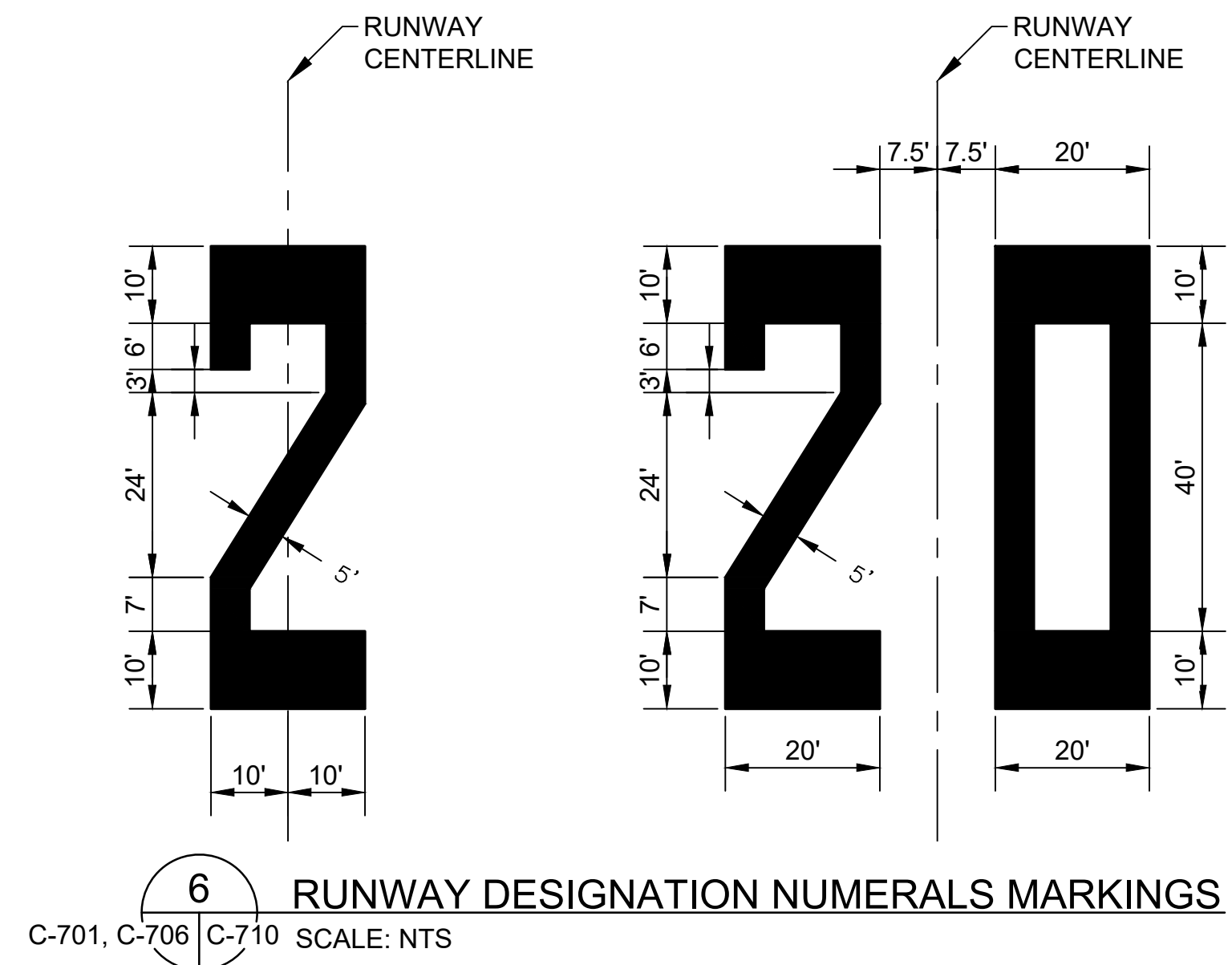
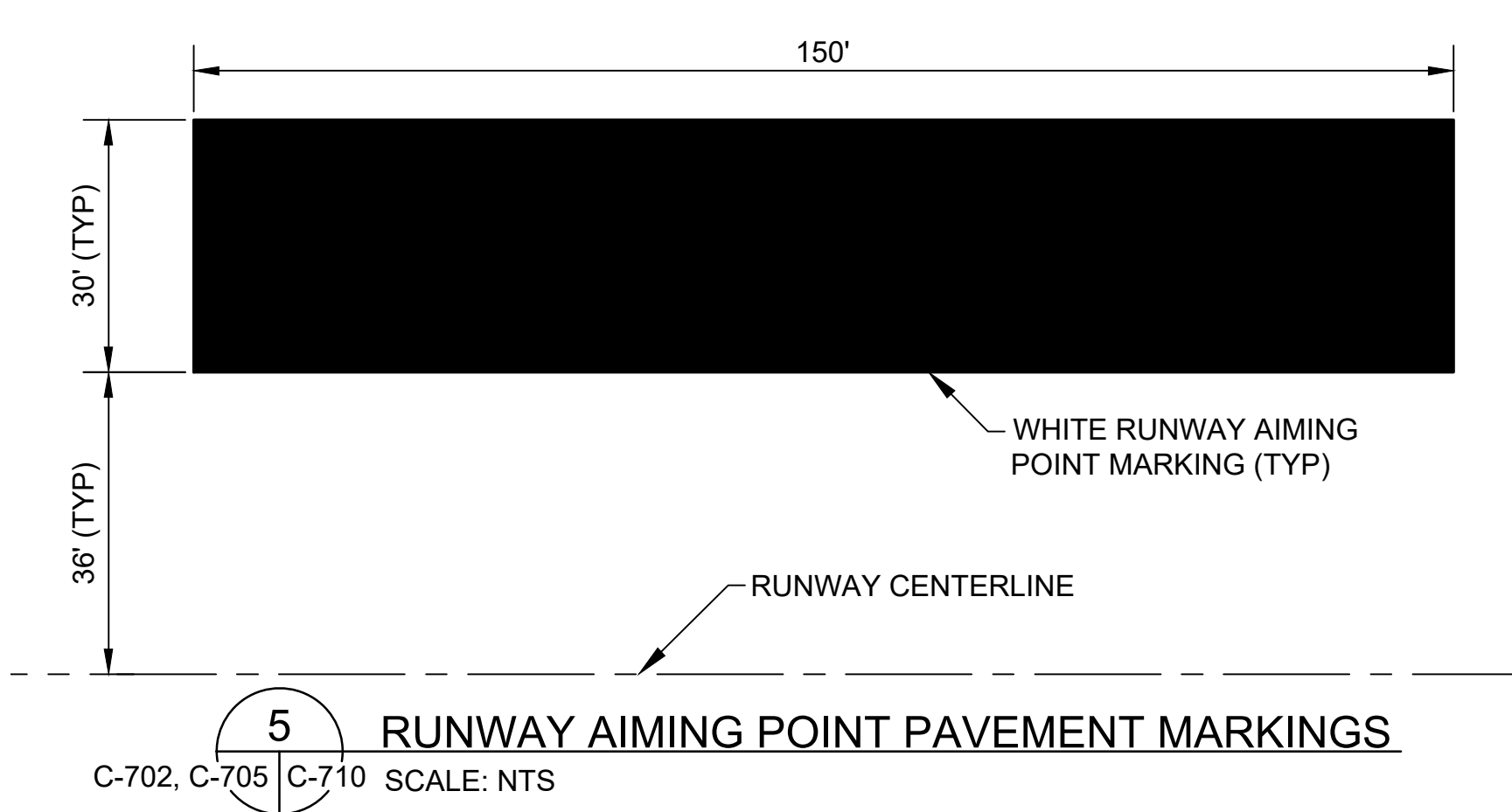
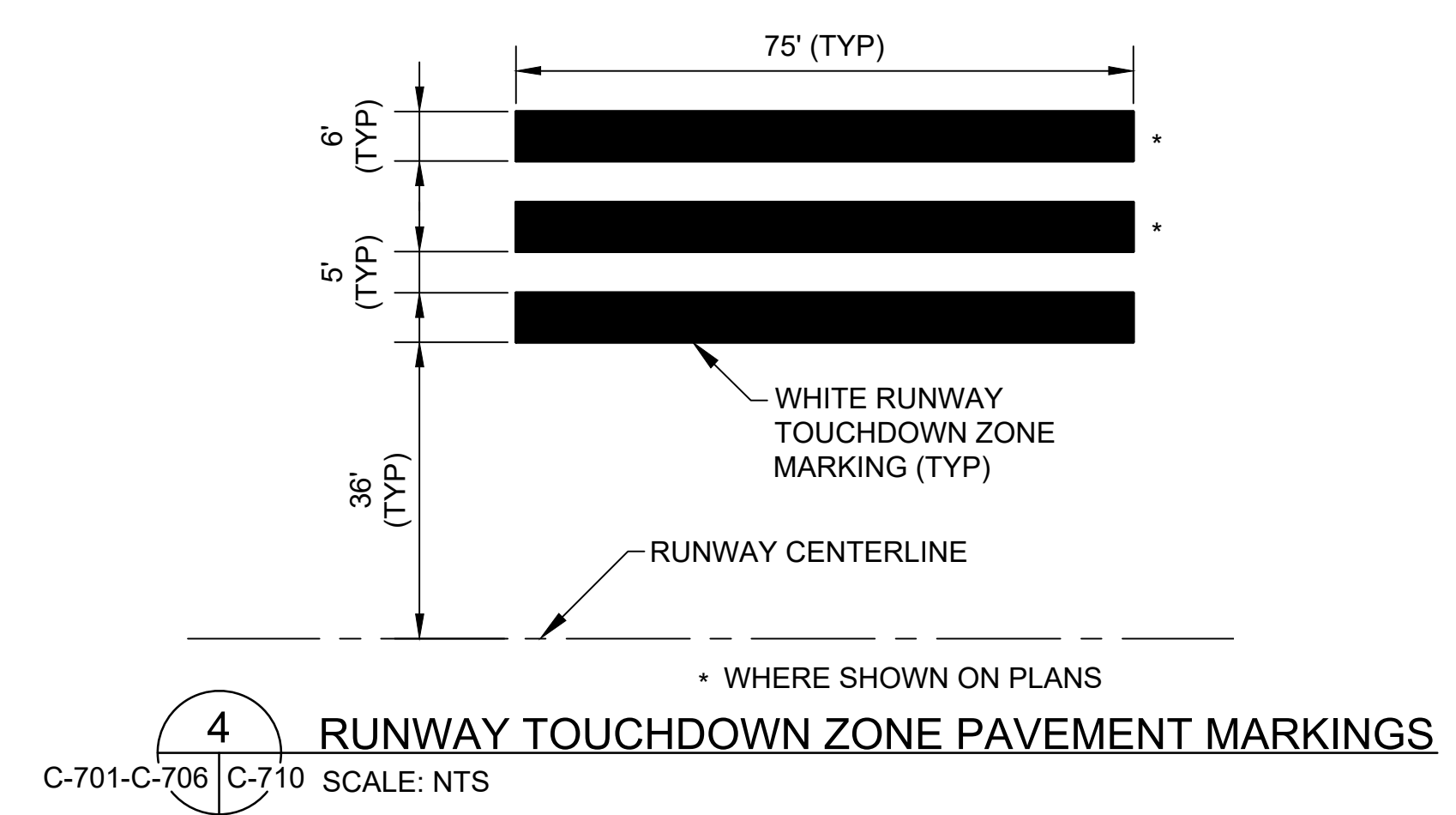
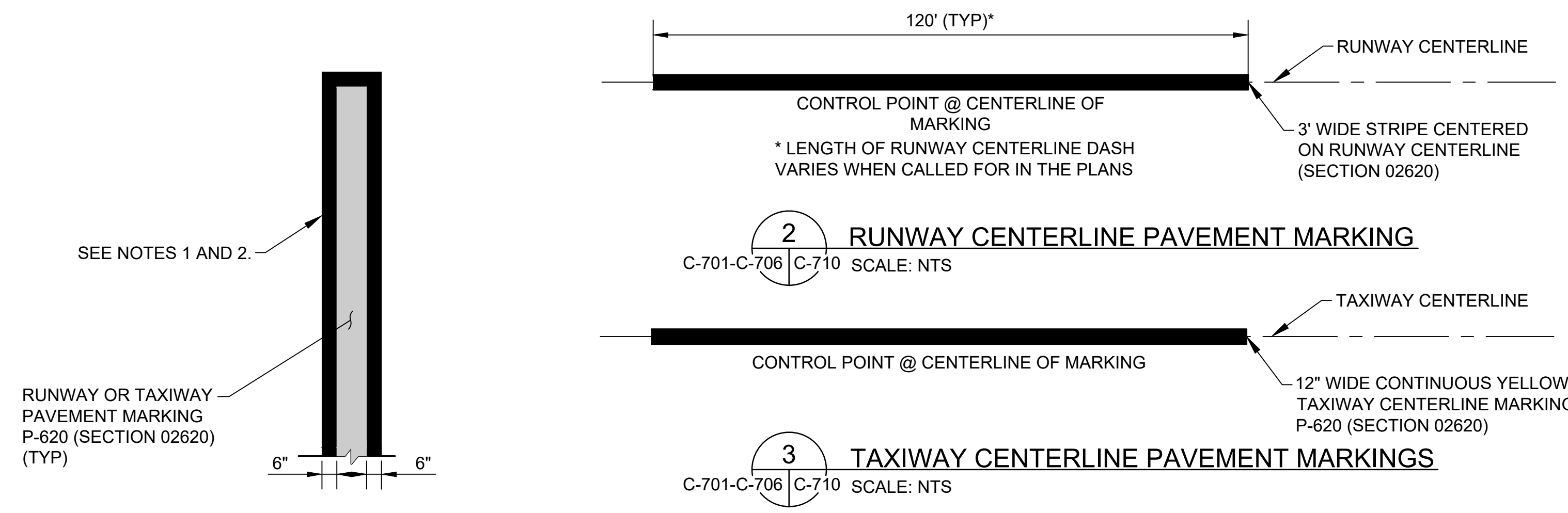
11/2022

SHEET :

40 OF 46 SHEETS

DWG. NO.

C-710



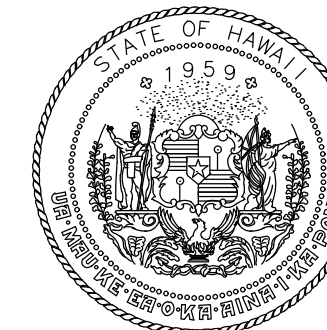
NOTES:

- TAXIWAY CENTERLINE MARKING IS CONTINUOUS IN LENGTH EXCEPT WHERE IT INTERSECTS A HOLD POSITION MARKING OR RUNWAY MARKING ELEMENT.

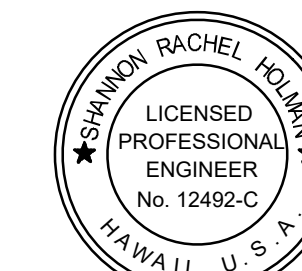
NOTES:

- MARKINGS SHALL BE OUTLINED IN BLACK PAINT. THE BLACK PAINT EXTENDS AT LEAST 6 INCHES BEYOND THE OUTSIDE EDGE OF THE MARKINGS AND FULLY SURROUNDS THE MARKING.
- ALL SPACES BETWEEN PAINT LINES IN MARKINGS COMPOSED OF TWO OR MORE LINES OR DASHES ARE PAINTED IN BLACK.

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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

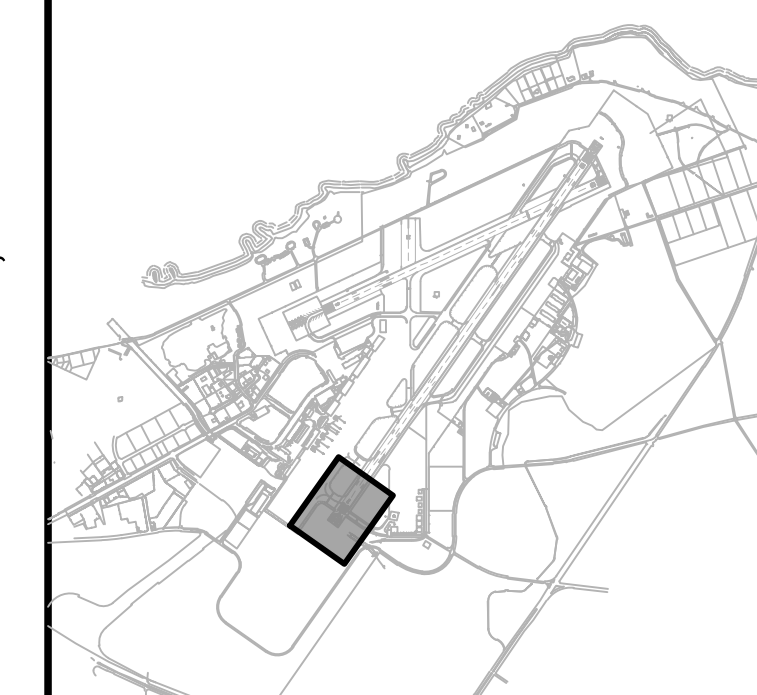


I HEREBY CERTIFY THAT THIS
WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

**SPOT ELEVATION
PLAN 1**

DATE :

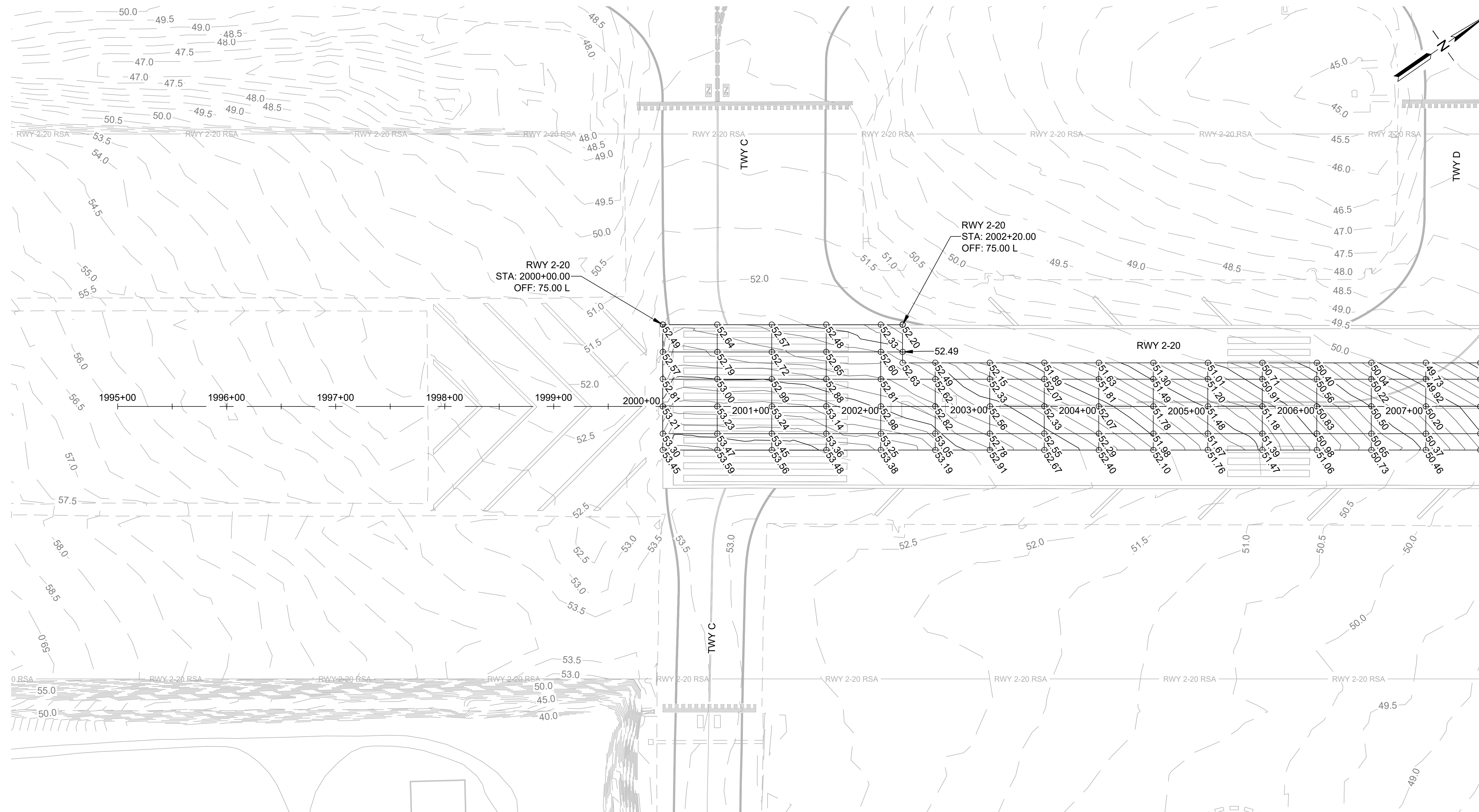
11/2022

SHEET :

41 OF 46 SHEETS

DWG. NO.

C-801



MATCHLINE; SEE DWG NO C-802

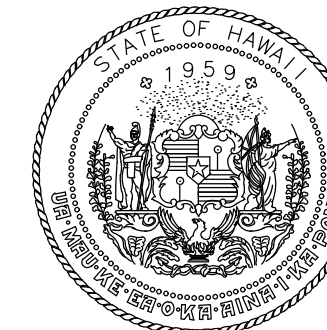
LEGEND:

- - 45.0 - - EXISTING CONTOUR
- 45.0 — PROPOSED MAJOR CONTOUR
- - - - - PROPOSED MINOR CONTOUR
- ④ 49.56 ④ 49.11 ④ 49.32 SPOT ELEVATION ON 50' X 25' GRID
- ④ 49.69 ④ 49.32 ④ 49.12 SPOT ELEVATION ON 50' X 15' GRID

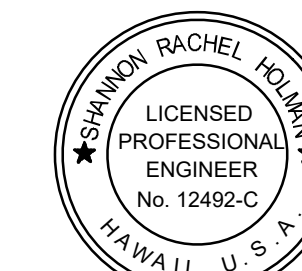
NOTES:

1. SEE PAVING PLANS FOR COORDINATE LAYOUT.
2. EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.
4. FINAL AC PAVEMENT GRADES TO MATCH EXISTING GRADES. SPOT ELEVATIONS ARE PROVIDED FOR P401 COMPLIANCE AND PAYMENT CRITERIA. CONTRACTOR SHALL MAKE OWN DETERMINATION OR COMPLETE TOPOGRAPHIC SURVEY TO ENSURE FINAL GRADIENTS MATCH EXISTING PAVEMENT GRADES.





Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

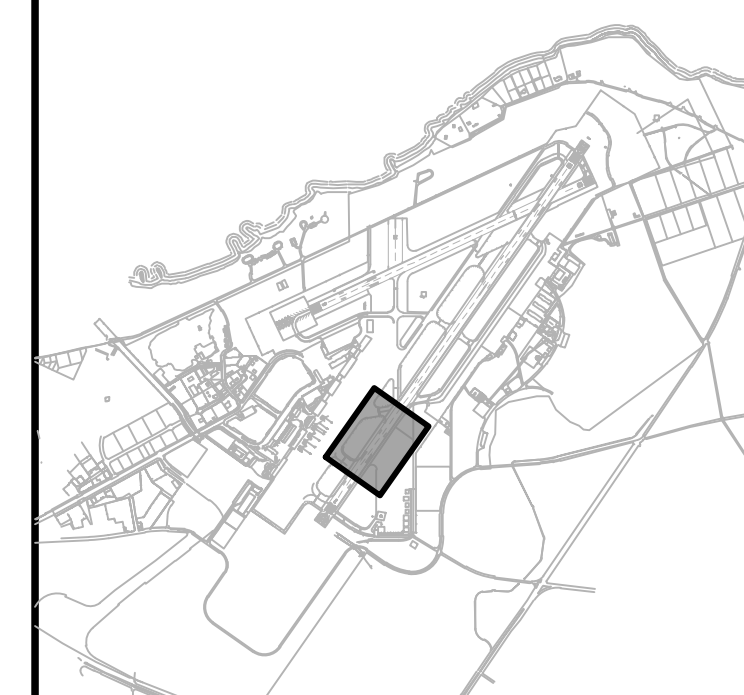


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Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

SPOT ELEVATION
PLAN 2

DATE :

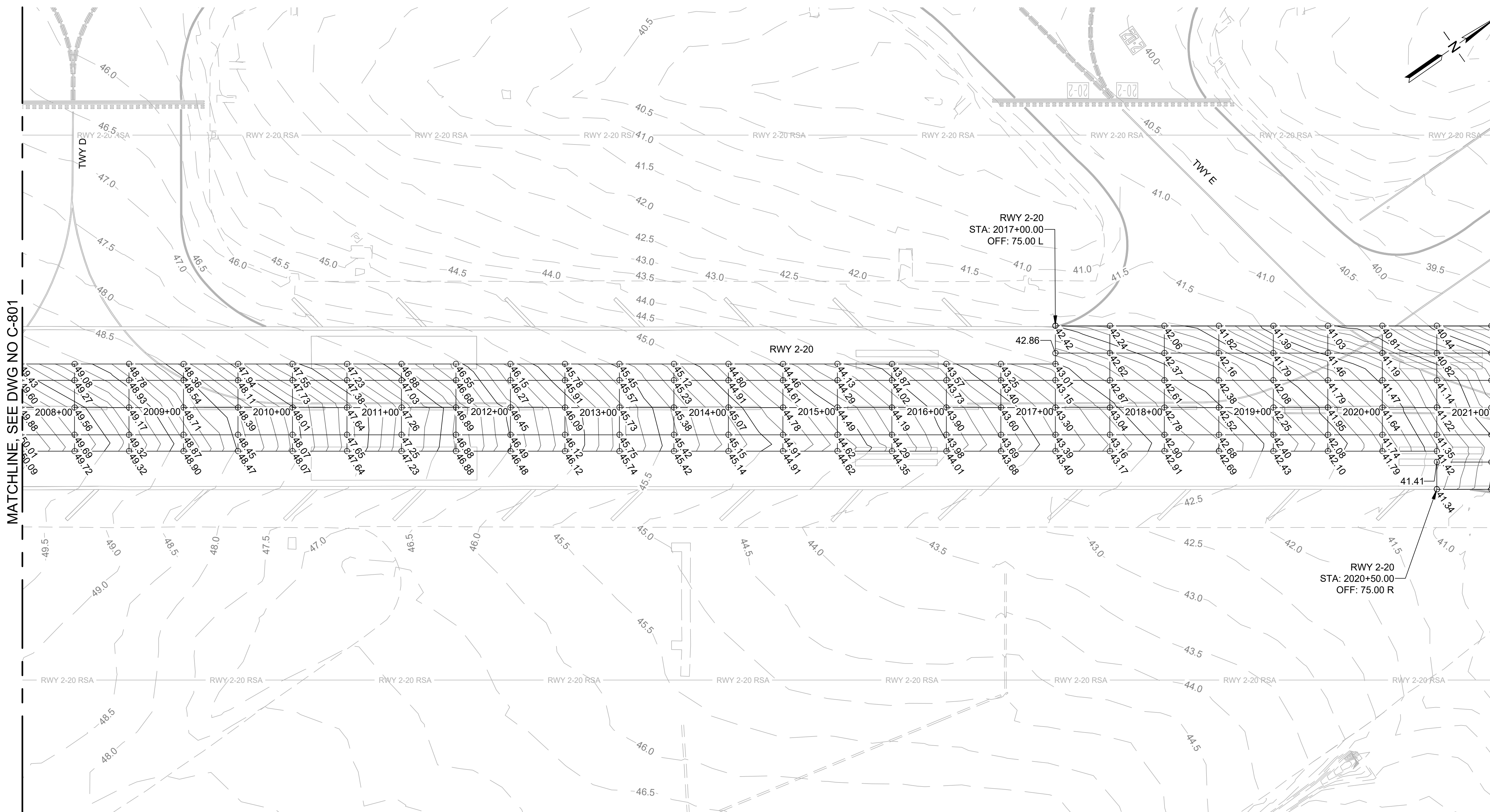
11/2022

SHEET :

42 OF 46 SHEETS

DWG. NO.

C-802



MATCHLINE, SEE DWG NO C-801

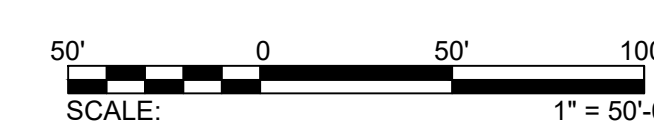
MATCHLINE, SEE DWG NO C-803

LEGEND:

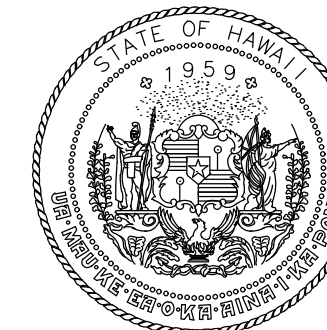
- - 45.0 - - EXISTING CONTOUR
- 45.0 — PROPOSED MAJOR CONTOUR
- - - - - PROPOSED MINOR CONTOUR
- Spot Elevation Symbols:
 - 50' X 25' GRID
 - 50' X 15' GRID

NOTES:

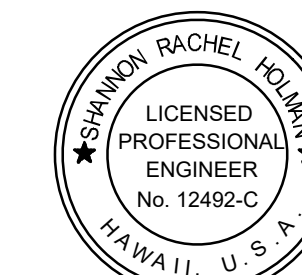
- SEE PAVING PLANS FOR COORDINATE LAYOUT.
- EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
- EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.
- FINAL AC PAVEMENT GRADES TO MATCH EXISTING GRADES. SPOT ELEVATIONS ARE PROVIDED FOR P401 COMPLIANCE AND PAYMENT CRITERIA. CONTRACTOR SHALL MAKE OWN DETERMINATION OR COMPLETE TOPOGRAPHIC SURVEY TO ENSURE FINAL GRADIENTS MATCH EXISTING PAVEMENT GRADES.



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Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

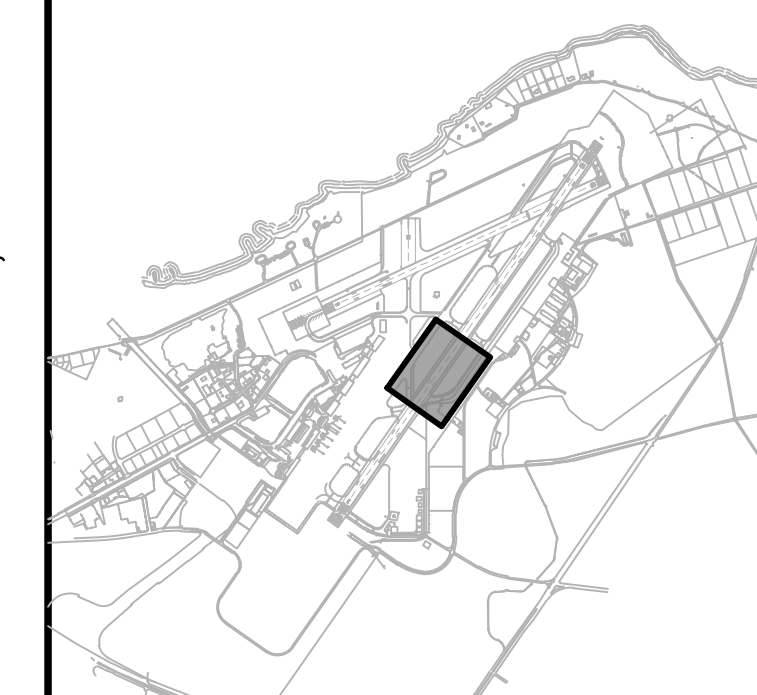


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WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Signature: [Signature] 4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

AM1022-21R

SHEET TITLE:

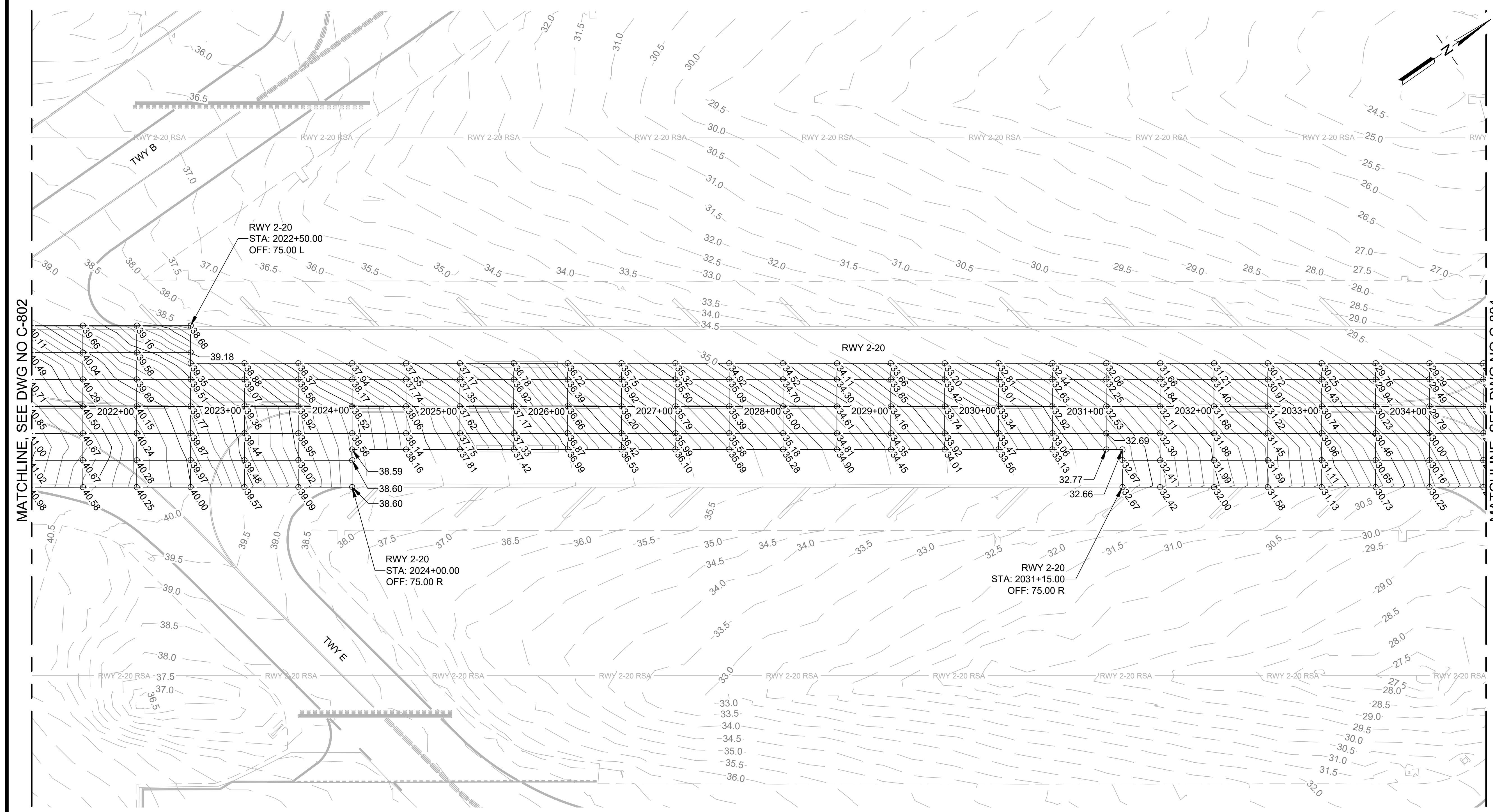
SPOT ELEVATION
PLAN 3

DATE :
11/2022

SHEET :
43 OF 46 SHEETS

DWG. NO.

C-803



MATCHLINE, SEE DWG NO C-802

MATCHLINE, SEE DWG NO C-804

LEGEND:

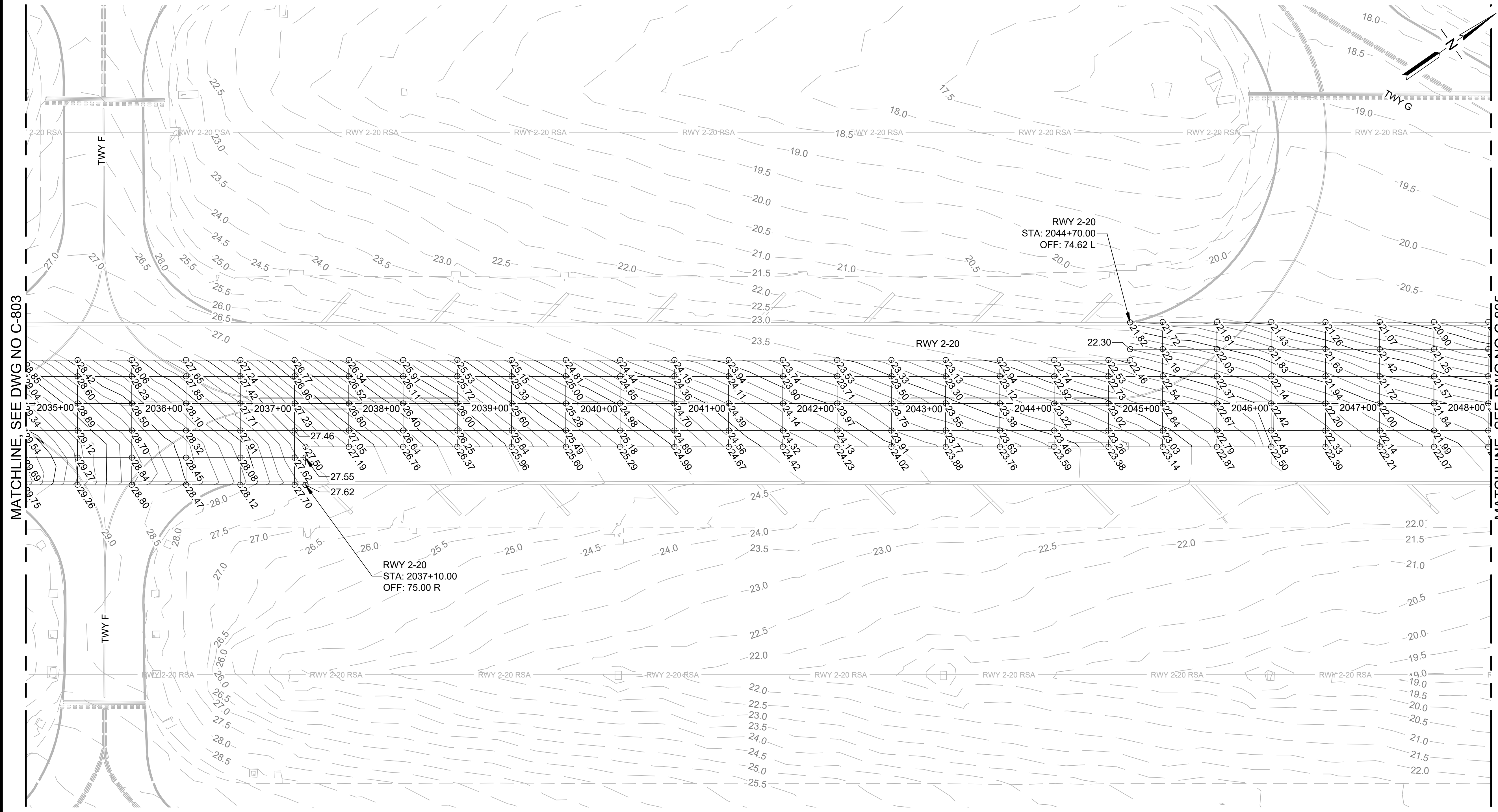
- - 45.0 - - EXISTING CONTOUR
- 45.0 — PROPOSED MAJOR CONTOUR
- - - - - PROPOSED MINOR CONTOUR
- ④ 49.56 ④ 49.32 SPOT ELEVATION ON 50' X 25' GRID
- ④ 49.69 ④ 49.32 SPOT ELEVATION ON 50' X 15' GRID

NOTES:

1. SEE PAVING PLANS FOR COORDINATE LAYOUT.
2. EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.
4. FINAL AC PAVEMENT GRADES TO MATCH EXISTING GRADES. SPOT ELEVATIONS ARE PROVIDED FOR P401 COMPLIANCE AND PAYMENT CRITERIA. CONTRACTOR SHALL MAKE OWN DETERMINATION OR COMPLETE TOPOGRAPHIC SURVEY TO ENSURE FINAL GRADIENTS MATCH EXISTING PAVEMENT GRADES.



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MATCHLINE, SEE DWG NO C-803

MATCHLINE, SEE DWG NO C-805

LEGEND:

- 45.0 EXISTING CONTOUR
- 45.0 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- SPOT ELEVATION ON 50' X 25' GRID
- SPOT ELEVATION ON 50' X 15' GRID

NOTES:

1. SEE PAVING PLANS FOR COORDINATE LAYOUT.
2. EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.
4. FINAL AC PAVEMENT GRADES TO MATCH EXISTING GRADES. SPOT ELEVATIONS ARE PROVIDED FOR P401 COMPLIANCE AND PAYMENT CRITERIA. CONTRACTOR SHALL MAKE OWN DETERMINATION OR COMPLETE TOPOGRAPHIC SURVEY TO ENSURE FINAL GRADIENTS MATCH EXISTING PAVEMENT GRADES.



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

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Rachel Holman
Signature
4/30/24
Expiration Date

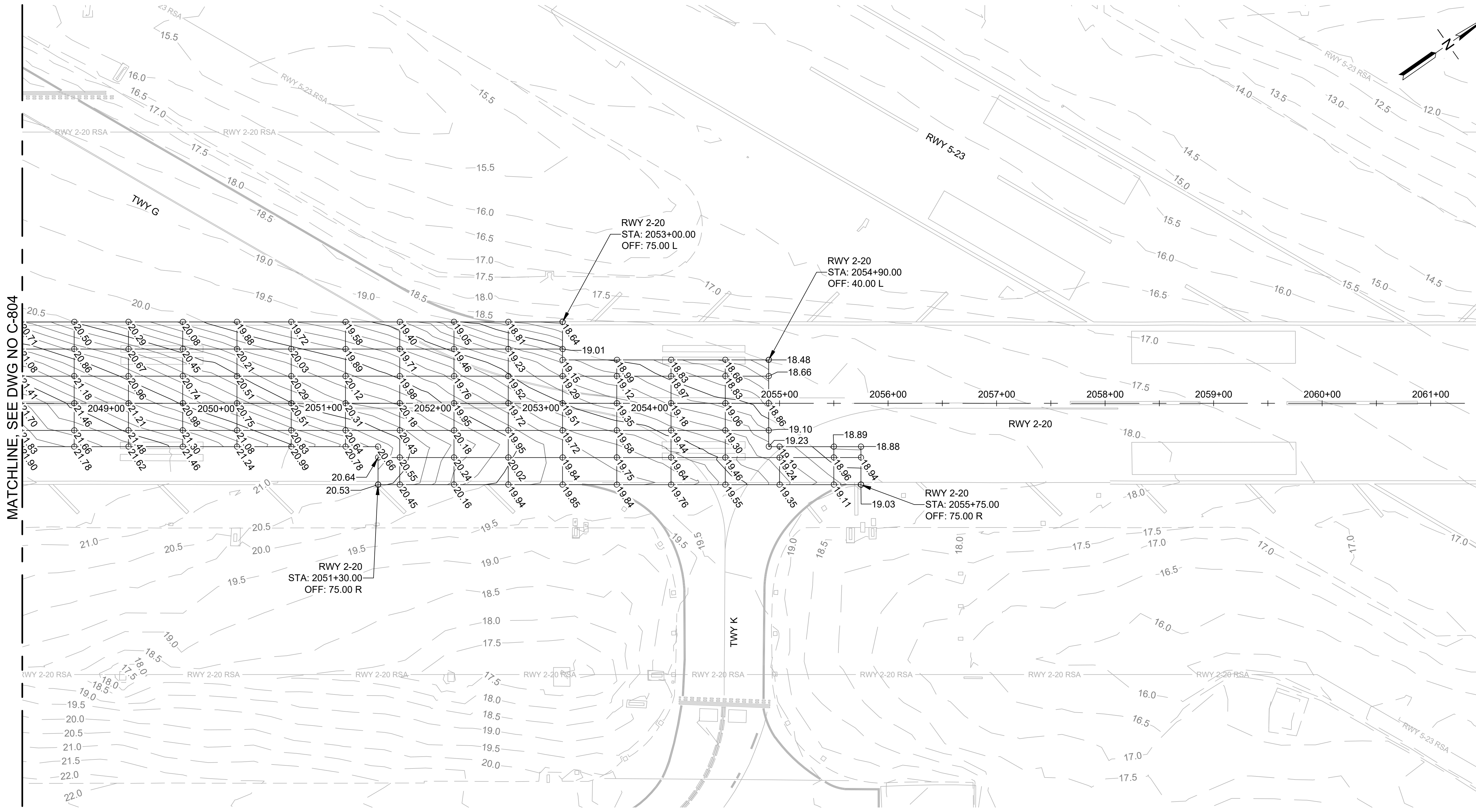
DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
CONSTRUCTION DOCUMENTS		
NOVEMBER 2022		
DATE		
PROJECT TITLE :		
RESURFACE RUNWAY 2-20		
AT KAHULUI AIRPORT KAHULUI, MAUI, HAWAII		
PROJECT NO.:		
AM1022-21R		
SHEET TITLE:		
SPOT ELEVATION PLAN 4		

CONSTRUCTION DOCUMENTS	
NOVEMBER 2022	
DATE	
PROJECT TITLE :	
RESURFACE RUNWAY 2-20	
AT KAHULUI AIRPORT KAHULUI, MAUI, HAWAII	
PROJECT NO.:	
AM1022-21R	
SHEET TITLE:	
SPOT ELEVATION PLAN 4	
DATE :	DWG. NO.
11/2022	C-804
SHEET :	
44 OF 46 SHEETS	

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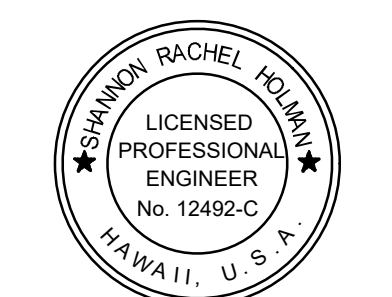
MATCHLINE, SEE DWG NO C-804

LEGEND:

- - - 45.0 - - - EXISTING CONTOUR
- 45.0 — PROPOSED MAJOR CONTOUR
- - - PROPOSED MINOR CONTOUR
- ① 19.56 ① 19.11 ① 19.32 SPOT ELEVATION ON 50' X 25' GRID
- ① 19.69 ① 19.32 ① 19.12 SPOT ELEVATION ON 50' X 15' GRID

NOTES:

1. SEE PAVING PLANS FOR COORDINATE LAYOUT.
2. EXISTING UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY.
3. EXISTING AIRFIELD LIGHTING NOT SHOWN FOR CLARITY.
4. FINAL AC PAVEMENT GRADES TO MATCH EXISTING GRADES. SPOT ELEVATIONS ARE PROVIDED FOR P401 COMPLIANCE AND PAYMENT CRITERIA. CONTRACTOR SHALL MAKE OWN DETERMINATION OR COMPLETE TOPOGRAPHIC SURVEY TO ENSURE FINAL GRADIENTS MATCH EXISTING PAVEMENT GRADES.

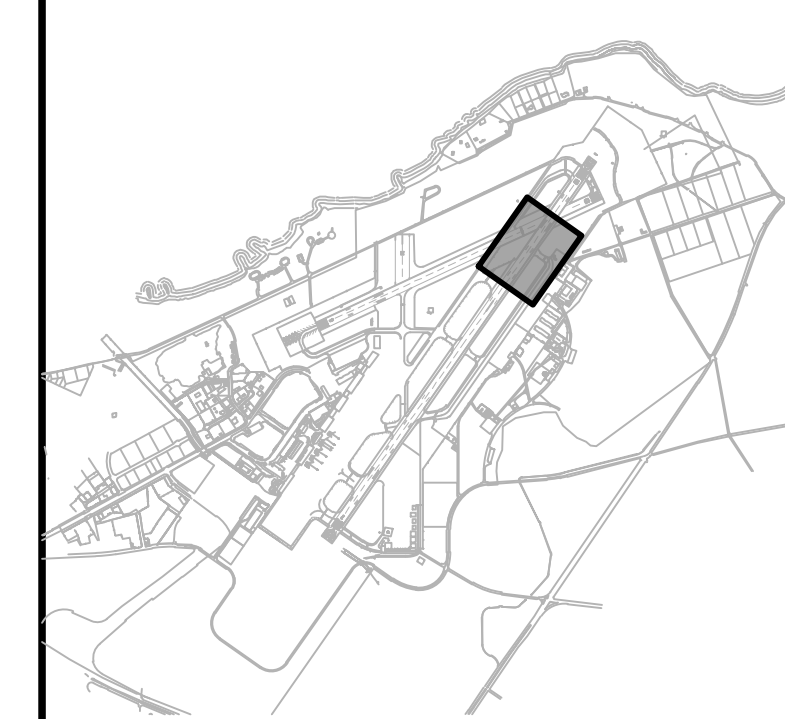


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Signature: [Signature] 4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

PROJECT NO.:

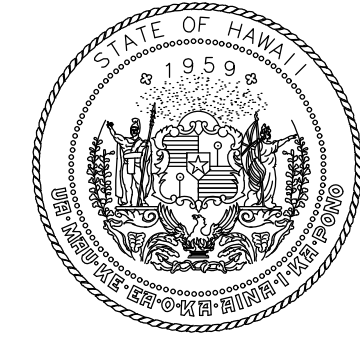
AM1022-21R

SHEET TITLE:

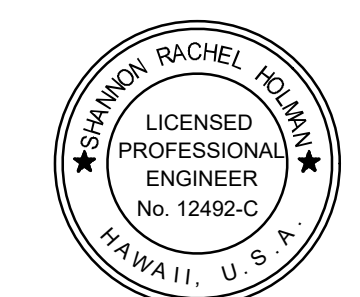
SPOT ELEVATION PLAN 5

DATE :	DWG. NO.
11/2022	C-805
SHEET :	
45 OF 46 SHEETS	

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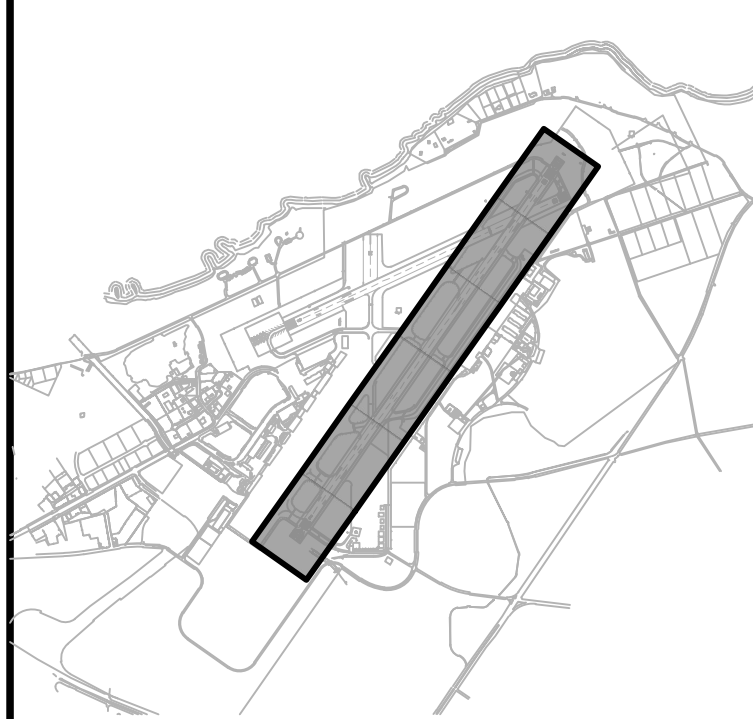
Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Signature: Rachel Holman
4/30/24
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
TR	NM	AC	SH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS
NOVEMBER 2022
DATE

PROJECT TITLE :

RESURFACE RUNWAY 2-20

AT
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII

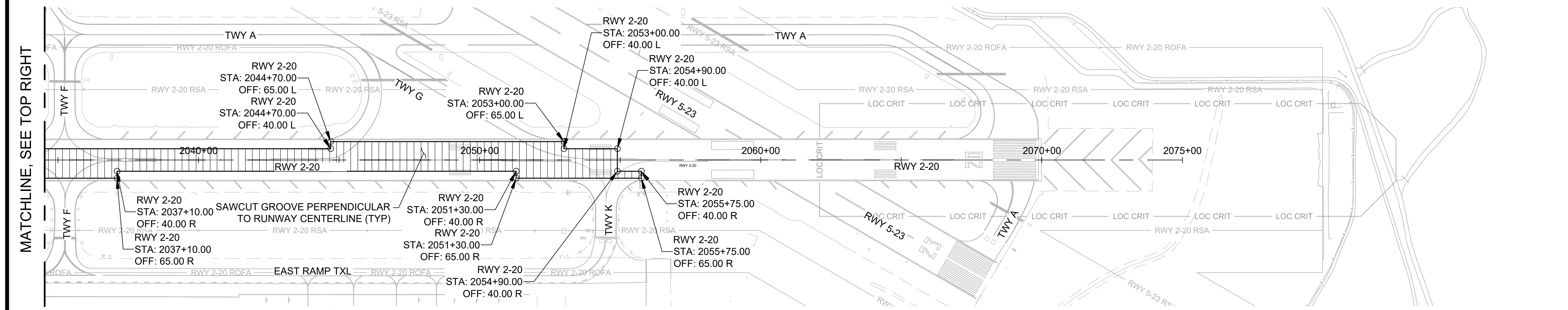
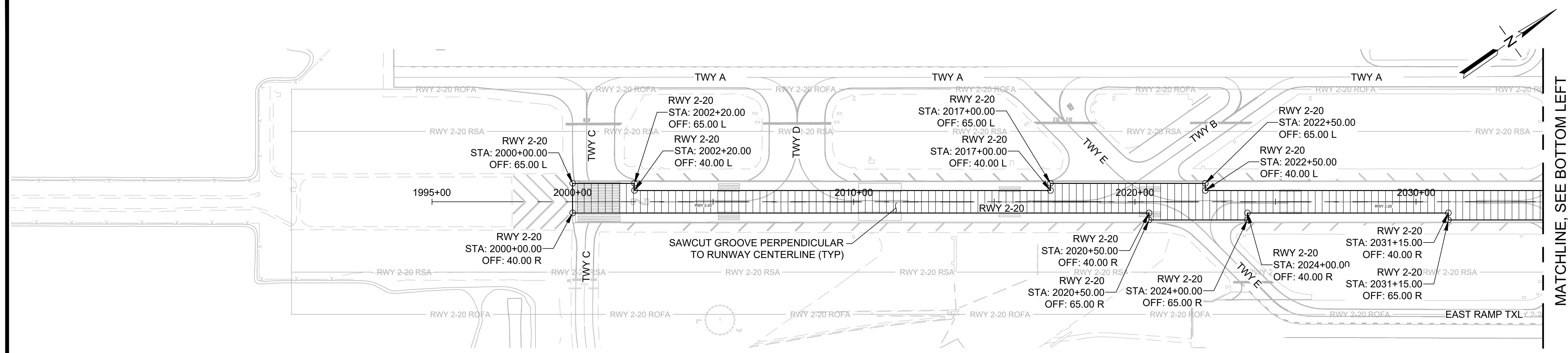
PROJECT NO.:

AM1022-21R

SHEET TITLE:

GROOVING PLAN AND DETAILS

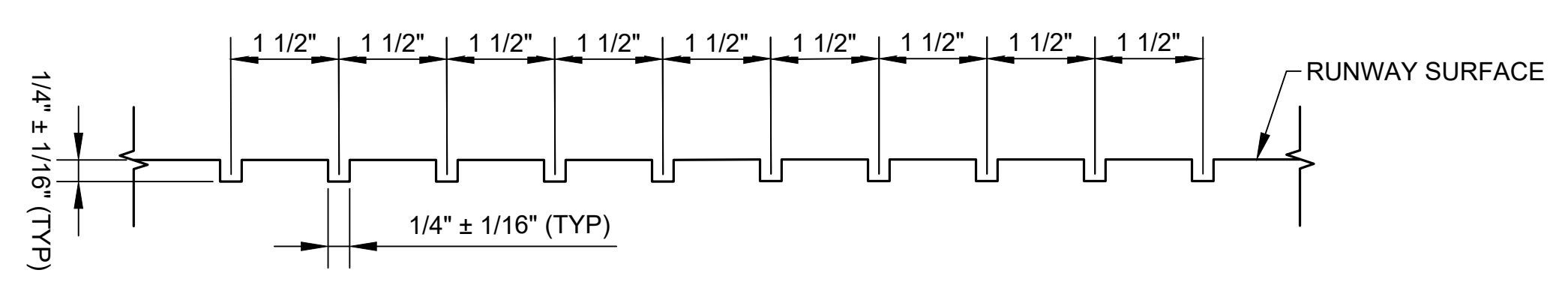
DATE :	DWG. NO.
11/2022	C-901
SHEET :	46 OF 46 SHEETS



GROOVING PLAN
SCALE: 1" = 200'-0"

NOTES:

- RUNWAY GROOVING OPERATIONS TO MEET THE REQUIREMENTS PER SPECIFICATION 02621 SAW CUT GROOVES.
- START RUNWAY GROOVE PLACEMENT ON EAST EDGE OF NEW AC PAVEMENT.
- SAW-CUT GROOVES MUST NOT BE CLOSER THAN 3 INCHES OR MORE THAN 6 INCHES FROM EXISTING GROOVES.



1 SAWCUT GROOVING DETAIL
SCALE: NTS



MATCHLINE, SEE TOP RIGHT

MATCHLINE, SEE BOTTOM LEFT

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