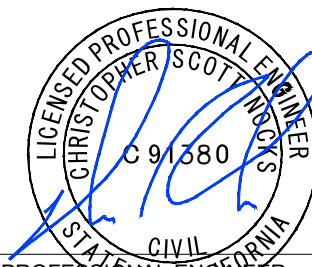
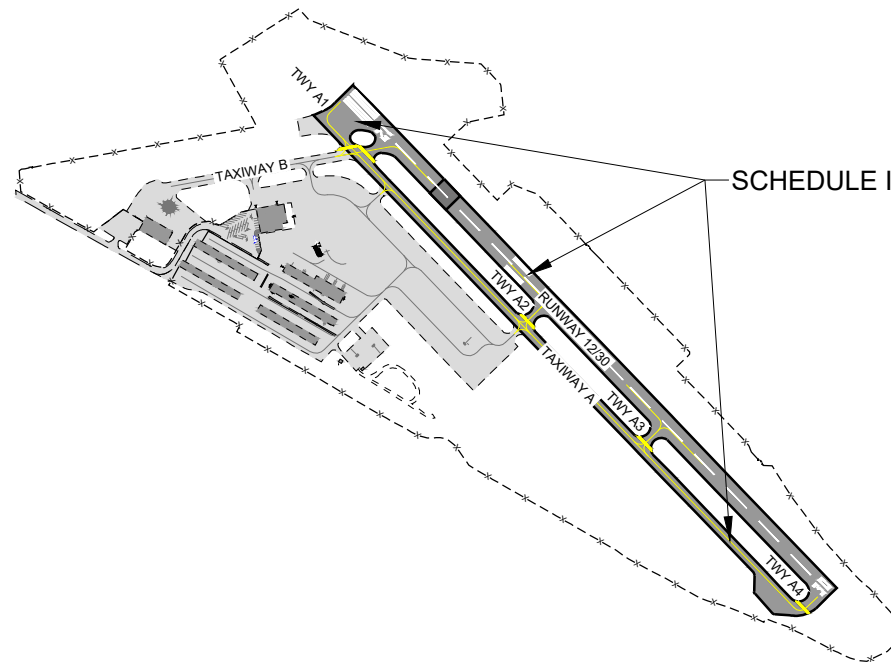
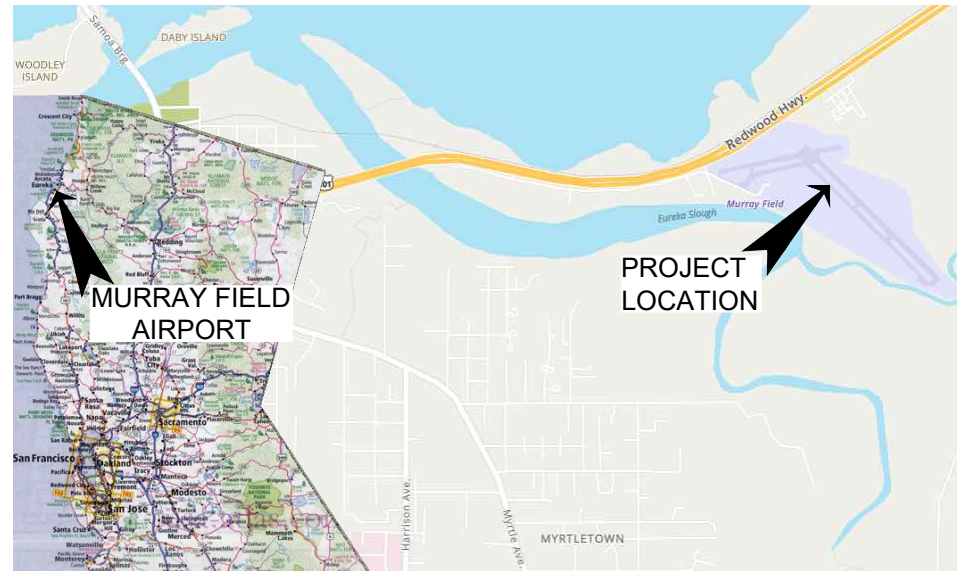


MURRAY FIELD AIRPORT (EKA) EUREKA, CALIFORNIA

**FOR BIDDING PURPOSES ONLY
NOT FOR CONSTRUCTION**

AIP No. TBD
ACI No. 236967
APRIL 2024



04/04/2024

DESIGNED BY: _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER DATE
REVIEWED BY AND PREPARED UNDER MY DIRECT SUPERVISION

INDEX TO SHEETS

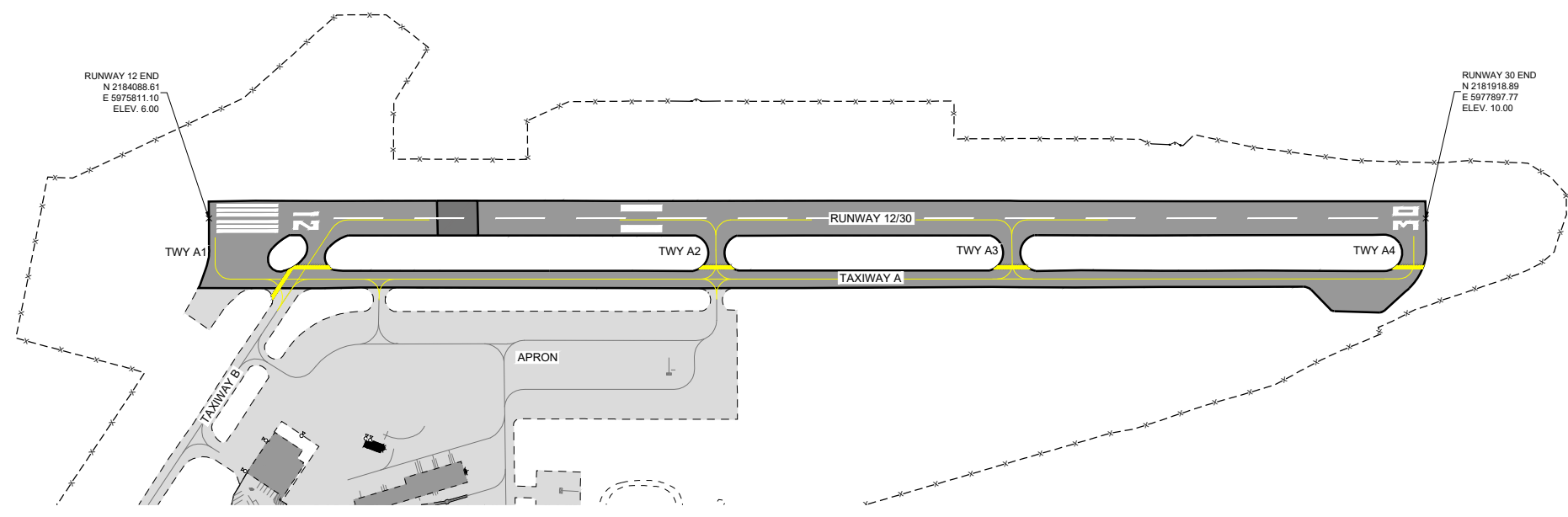
COVER SHEET	1.1
GENERAL NOTES, LEGEND & SURVEY CONTROL	1.2
REMOVAL PLAN	2.1 - 2.2
SEAL AND MARKING PLAN	3.1 - 3.2
DETAILS	4.1
CONSTRUCTION SAFETY & PHASING PLAN	ATTACHED

SCHEDULE I
REHABILITATE RUNWAY 12/30, TAXIWAY A,
& TAXIWAYS A1 - A4

SHEET 1.1



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LEGEND

x 0.00	EXISTING	x 99.99	PROPOSED
	EXISTING SPOT ELEVATION		PROPOSED FINISHED GRADE ELEVATION
	EXISTING GROUND CONTOUR (5' INTERVAL)		PROPOSED GROUND CONTOUR (1' INTERVAL)
	EXISTING RUNWAY EDGE LIGHT		PROPOSED RUNWAY EDGE LIGHT
	EXISTING TAXIWAY EDGE LIGHT		PROPOSED TAXIWAY EDGE LIGHT
	EXISTING RETROREFLECTIVE MARKER		PROPOSED RETROREFLECTIVE MARKER
	EXISTING SPLICE BASE / PULL BOX		PROPOSED SPLICE BASE / PULL BOX
	EXISTING AIRFIELD SIGN		PROPOSED AIRFIELD SIGN
	EXISTING BEACON		PROPOSED BEACON AND TOWER
	EXISTING WIND CONE		PROPOSED LIGHTED WIND CONE
	EXISTING SEGMENTED CIRCLE		PROPOSED SUPPLEMENTAL WIND CONE
	EXISTING PAPI / VASI		PROPOSED SEGMENTED CIRCLE
	EXISTING REIL		PROPOSED PAPI
	EXISTING AWOS/ASOS/UNICOM		PROPOSED REIL
	EXISTING TIEDOWN ANCHOR		PROPOSED AWOS
	EXISTING UTILITY POLE		PROPOSED TIEDOWN ANCHOR
	EXISTING AREA LIGHT		PROPOSED UTILITY POLE
	EXISTING GUY		PROPOSED AREA LIGHT (S)
	EXISTING PAD MOUNTED TRANSFORMER		PROPOSED ELECTRIC TRANSFORMER
	EXISTING UTILITY PEDESTAL		PROPOSED MANHOLE
	EXISTING UTILITY METER		PROPOSED SANITARY SEWER CLEAN-OUT
	EXISTING MANHOLE / CLEAN-OUT		PROPOSED STORM DRAIN INLET
	EXISTING AREA INLET / CATCH BASIN		PROPOSED FIRE HYDRANT
	EXISTING FIRE HYDRANT		PROPOSED WATER VALVE
	EXISTING WATER VALVE		PROPOSED SURVEY MONUMENT
	EXISTING TREE		PROPOSED AIRFIELD POWER CABLE(S)
	EXISTING ROAD SIGN(S)		PROPOSED COUNTERPOISE CABLE
	EXISTING SECTION CORNER		PROPOSED CONCRETE ENCASED DUCT BANK
	EXISTING SURVEY CONTROL MONUMENT		PROPOSED CULVERT W/END SECTIONS
	EXISTING PROPERTY CORNER PIN/CAP		PROPOSED SWALE DIRECTION
	EXISTING AIRFIELD POWER CABLE(S)		PROPOSED BARBED WIRE FENCE
	EXISTING CONCRETE DUCT BANK		PROPOSED CHAIN LINK FENCE
	EXISTING CULVERT		PROPOSED WILDLIFE FENCE
	EXISTING SWALE DIRECTION		PROPOSED SANITARY SEWER LINE
	EXISTING BARB WIRE FENCE		PROPOSED STORM DRAIN LINE
	EXISTING CHAIN LINK FENCE		PROPOSED WATERLINE
	EXISTING WILDLIFE FENCE		PROPOSED GAS LINE
	EXISTING SANITARY SEWER LINE		PROPOSED UNDERGROUND POWER/TELE
	EXISTING STORM DRAIN LINE		PROPOSED PERFORATED UNDERDRAIN W/ CLEAN-OUT
	EXISTING WATER LINE		PROPOSED NON-PERFORATED UNDERDRAIN
	EXISTING GAS LINE		PROPOSED SEDIMENT LOG
	EXISTING UNDERGROUND POWER OR TELE. LINE		PROPOSED SILT FENCE
	EXISTING OVERHEAD POWER CABLE		PROPOSED CONCRETE PAVEMENT
	EXISTING UNDERGROUND COMMUNICATION LINE		PROPOSED ASPHALT PAVEMENT
	EXISTING FIBER OPTIC CABLE		PROPOSED ASPHALT/CONCRETE REMOVAL
	EXISTING UNDERDRAIN W/ CLEAN-OUT		PROPOSED GRAVEL
	EXISTING CONCRETE PAVEMENT		PROPOSED ROCK RIPRAP
	EXISTING ASPHALT PAVEMENT		PROPOSED BUILDING
	EXISTING GRAVEL		PROPOSED SEEDING AREA
	EXISTING BUILDING		PROPOSED GRADING AREA
	EXISTING WETLANDS		

NOTE: LEGEND APPLIES TO ALL SHEETS IN THIS PLAN SET, IS GENERIC, AND NOT ALL SYMBOLS MAY BE IN PLAN SHEETS.



AIRPORT LAYOUT & SURVEY CONTROL



GENERAL NOTES

- ESTIMATED QUANTITIES ARE CONSIDERED APPROXIMATE ONLY EXCEPT WHERE PLAN QUANTITIES ARE SPECIFIED FOR PAYMENT. ACTUAL QUANTITIES SHALL BE DETERMINED BY FIELD MEASUREMENT OR SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS FOR THE ENGINEER'S APPROVAL PRIOR TO ORDERING.
- THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY CONSTRUCTION PERMITS AS NECESSARY FOR THE PROJECT.
- THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A WORK SCHEDULE AND PROPOSED CONSTRUCTION METHODS AT THE PRE-CONSTRUCTION CONFERENCE.
- THE CONTRACTOR SHALL OBTAIN APPROVAL FROM AIRPORT MANAGEMENT AND THE ENGINEER PRIOR TO ESTABLISHING CONSTRUCTION ACCESS OR HAUL ROADS. EXISTING PAVEMENT SURFACES OTHER THAN AIRFIELD PAVEMENTS SHALL BE USED TO THE MAXIMUM EXTENT POSSIBLE.
- THE CONTRACTOR SHALL MINIMIZE DISTURBANCE INCLUDING RUTS PRODUCED BY VEHICLES AND EQUIPMENT IN NON-PAVEMENT AREAS WITHIN ALL CONSTRUCTION AREAS. ALL DISTURBED AREAS IN THESE LOCATIONS SHALL BE RECLAIMED AT NO ADDITIONAL COST TO THE SPONSOR. DAMAGE CAUSED TO EXISTING AIRFIELD PAVEMENTS, AIRFIELD CABLE CIRCUITS OR FACILITIES DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE SPONSOR.
- CONTRACTOR SHALL COORDINATE ALL ON-SITE WASTE MATERIAL DISPOSAL WITH ENGINEER AND AIRPORT.

NOTES TO SURVEYOR:

- THE PROJECT CONTROL IS A MODIFIED STATE PLANE COORDINATE SYSTEM.
- ALL DISTANCE UNITS ARE IN FEET AT GROUND.
- A BASE LINE WITH STATIONS AND OFFSETS HAS BEEN SET AT THE RUNWAY CENTERLINE FOR PROJECT CONTROL. ALL INFORMATION FOR THIS PROJECT WILL BE BASED ON THIS BASE LINE.
- BEFORE ANY CONSTRUCTION OPERATIONS BEGIN, CONSTRUCTION SURVEYOR TO RUN A TRAVERSE, LEVEL LOOP, AND VERIFY CONTROL. ANY DISCREPANCIES SHALL BE RESOLVED WITH PROJECT ENGINEER.
- FOR QUALITY CONTROL AND VERIFICATION PURPOSES, ANY WRITTEN SURVEY INFORMATION SUPPLIED TO ACI SHALL BE IN STATION, OFFSET, ELEVATION FORMAT.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS IN THE FIELD. THE INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL CALIFORNIA 811 (1-800-824-2444) AT LEAST 48 HOURS BEFORE ANY EXCAVATION / EMBANKMENT TO REQUEST FIELD LOCATION OF UTILITIES.



MURRAY FIELD AIRPORT
EUREKA, CALIFORNIA
REHABILITATE RUNWAY
12/30 & TAXIWAY A
AIP No.

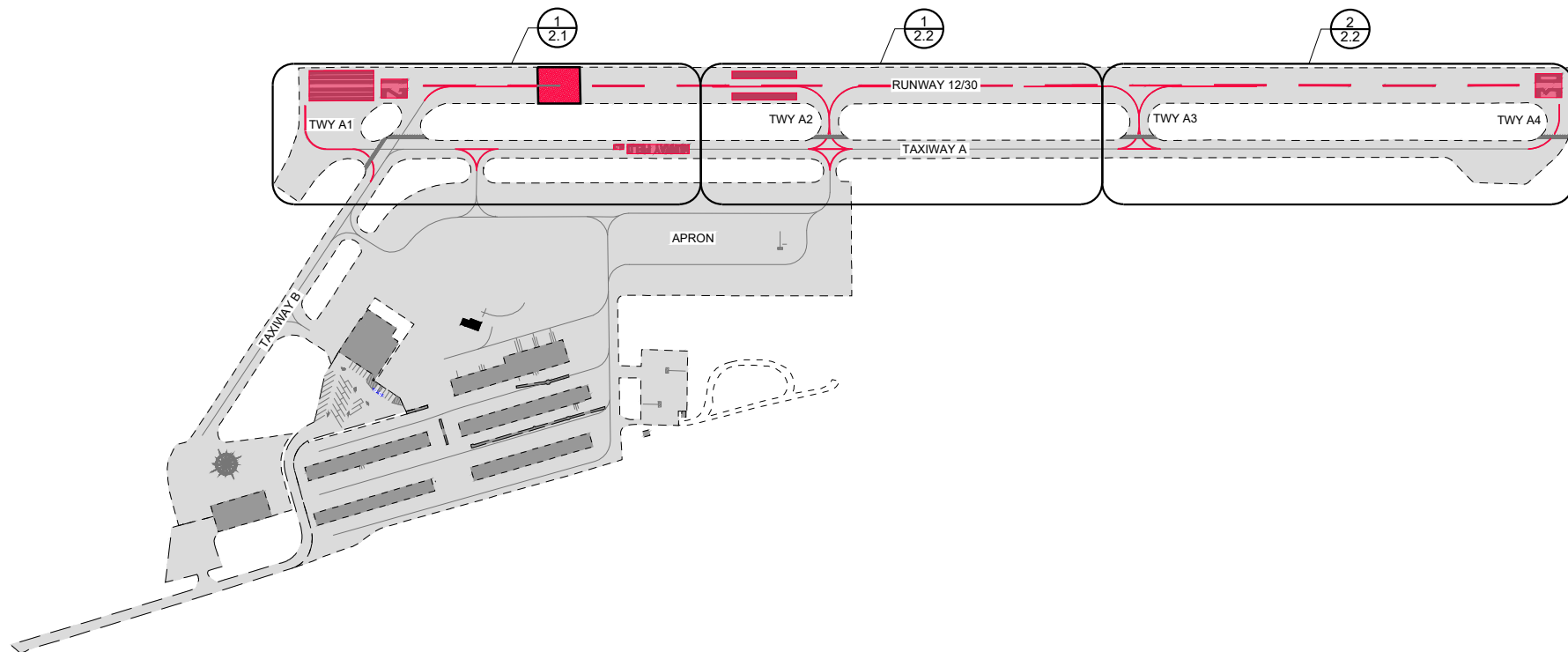
No.	Revision	Date	By

ACI No. 236967
Date: 04/2024
File Name: 236967101

Drawn: JEF
Checked: IXW
Approved: CSN

GENERAL NOTES, LEGEND & SURVEY CONTROL

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NOTES AND ABBREVIATIONS

1. ALL DIMENSIONS ARE TO THE CENTER OF WHITE AND YELLOW MARKINGS, UNLESS OTHERWISE NOTED.

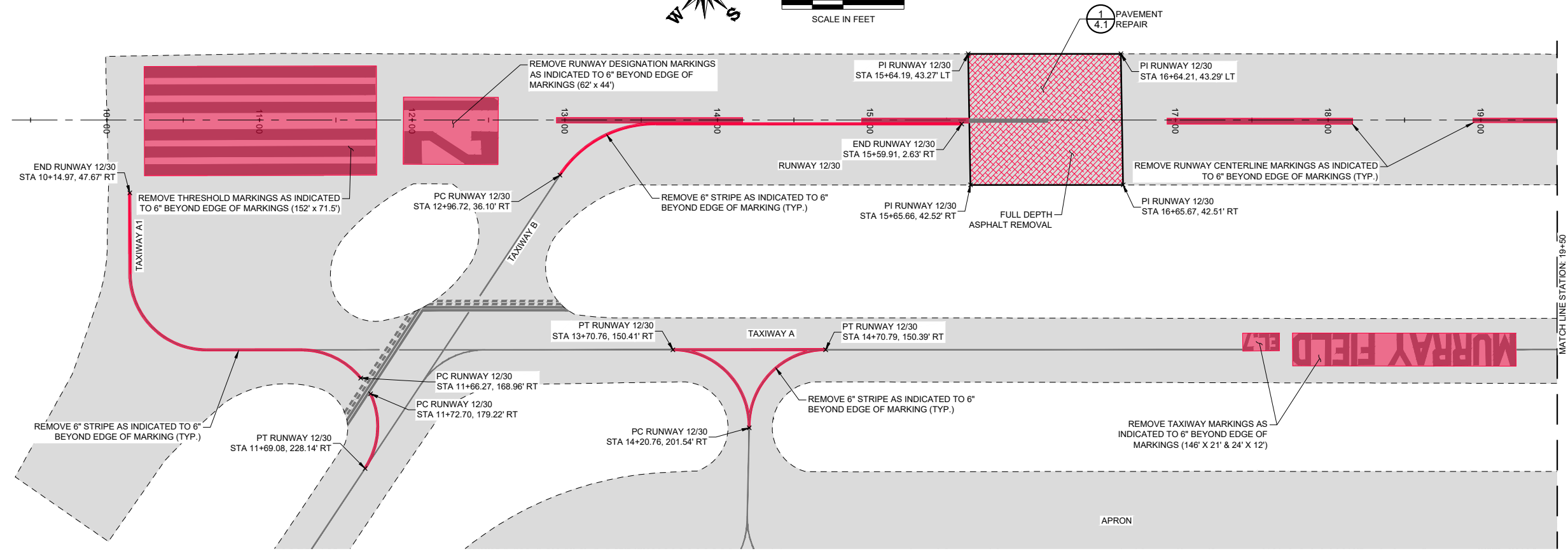
PI POINT OF INTERSECTION/POINT ON LINE
 PT POINT OF TANGENCY
 PC POINT OF CURVATURE
 LT LEFT
 RT RIGHT

LEGEND

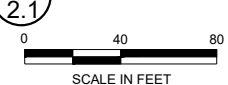
■ LIMITS OF MARKING REMOVAL



REMOVAL KEY MAP



REMOVAL PLAN



MURRAY FIELD AIRPORT
 EUREKA, CALIFORNIA
 REHABILITATE RUNWAY
 12/30 & TAXIWAY A
 AIP No.

No.	Revision	Date	By

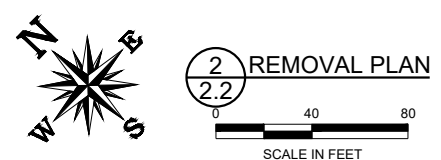
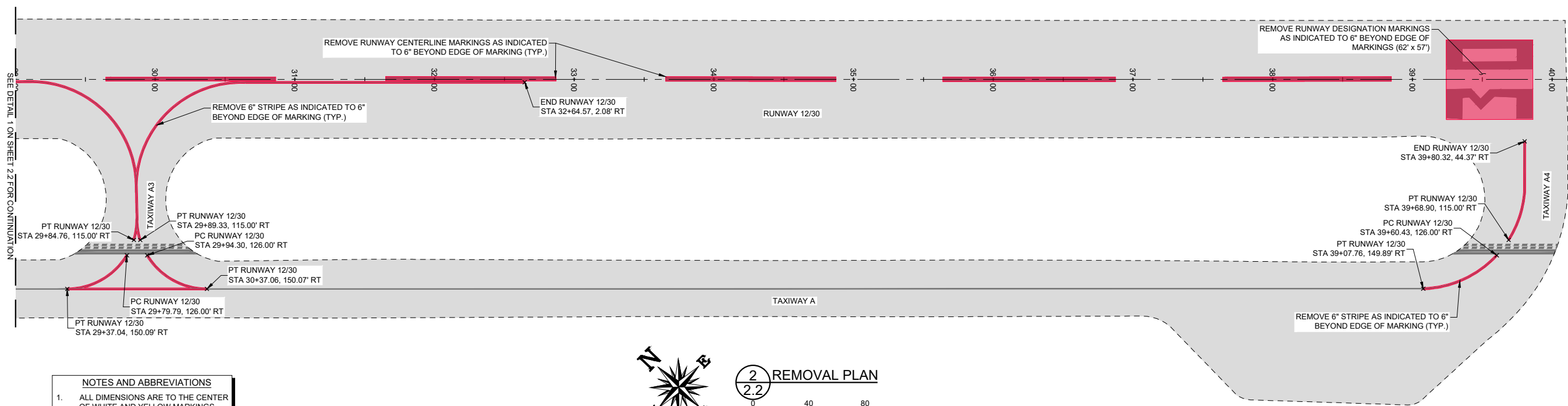
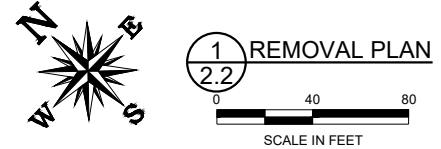
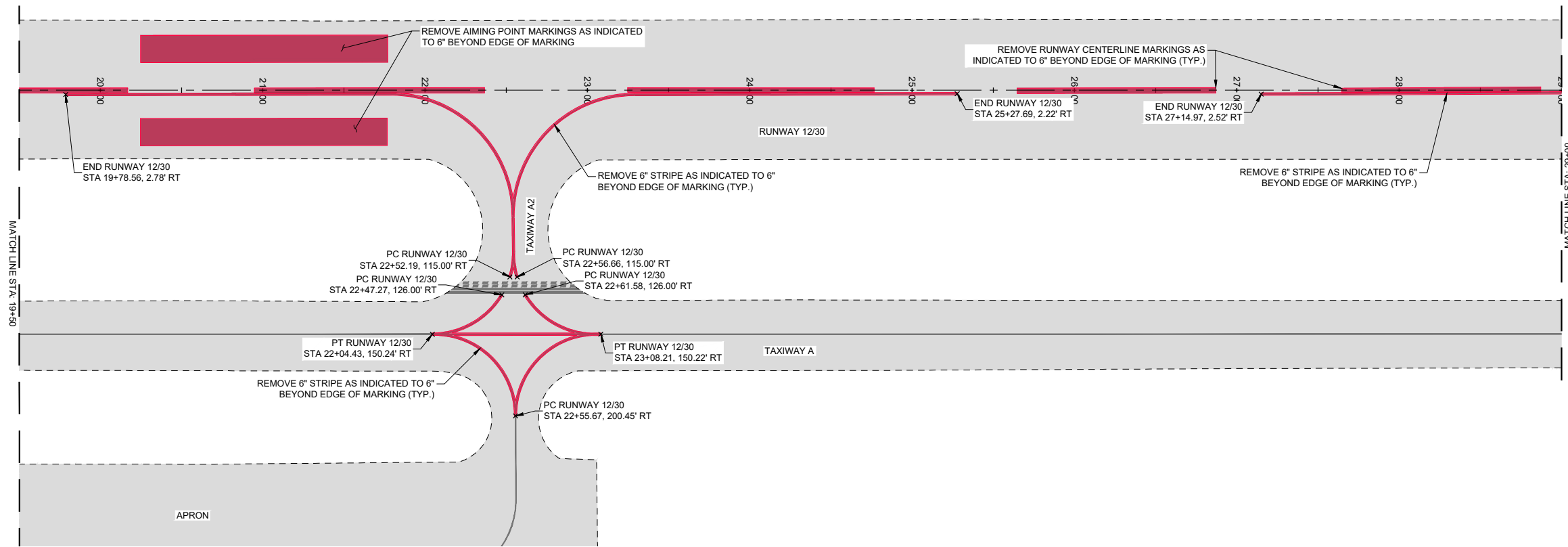
ACI No. 236967
 Date: 04/2024
 File Name: 236967102

Drawn: JEF
 Checked: IXW
 Approved: CSN

REMOVAL PLAN

Sheet: **2.1**

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NOTES AND ABBREVIATIONS

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PT POINT OF TANGENCY
 PC POINT OF CURVATURE
 RT RIGHT

LEGEND

— LIMITS OF MARKING REMOVAL



MURRAY FIELD AIRPORT
 EUREKA, CALIFORNIA
 REHABILITATE RUNWAY
 12/30 & TAXIWAY A
 AIP No.

No.	Revision	Date	By

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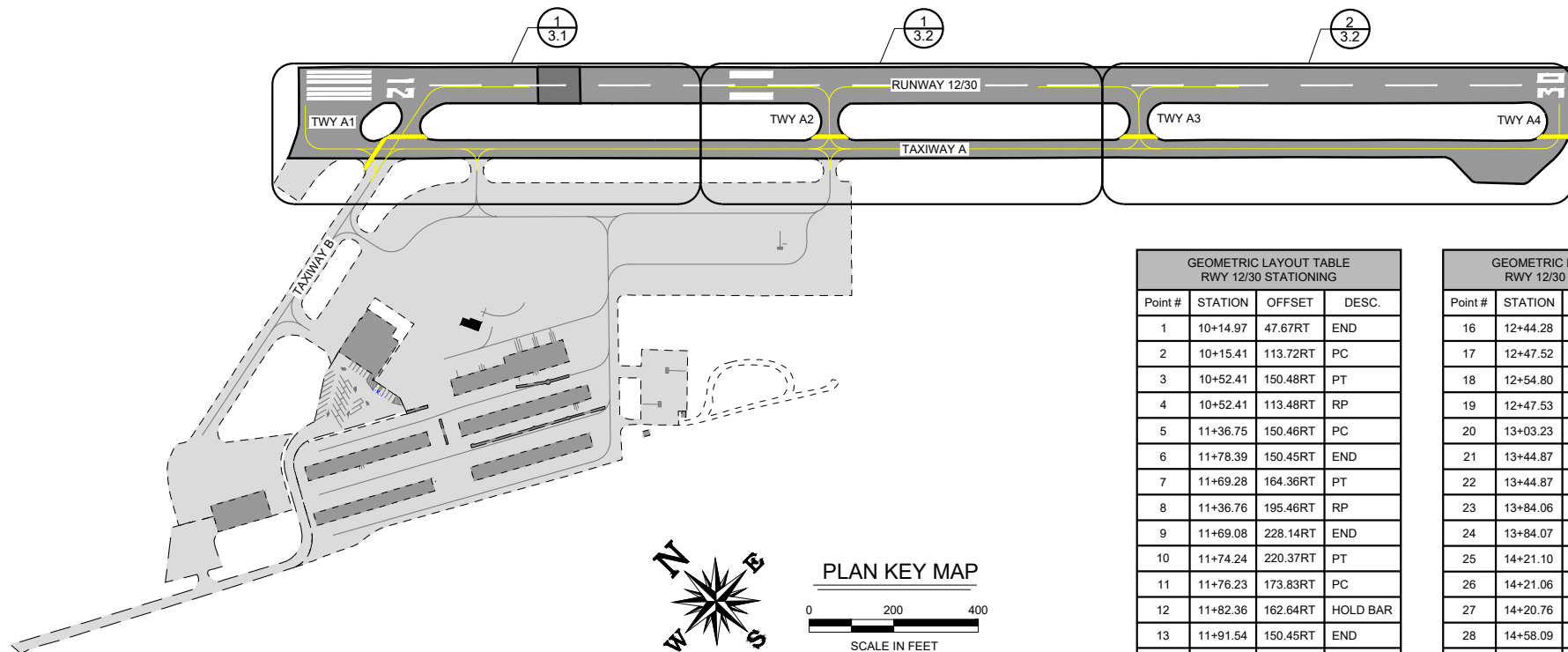
Drawn: JEF
 Checked: IXW
 Approved: CSN



REMOVAL PLAN

Sheet: **2.2**

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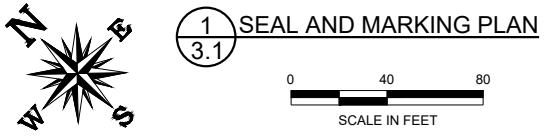
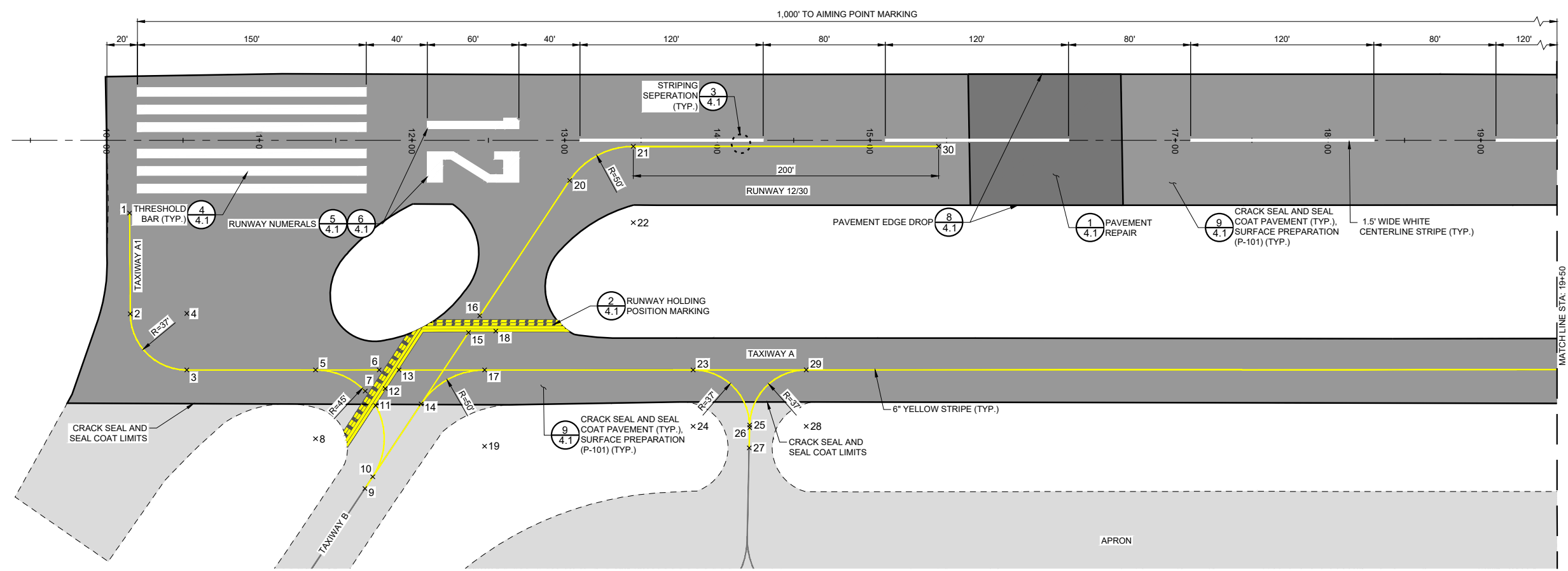
GEOMETRIC LAYOUT TABLE RWY 12/30 STATIONING			
Point #	STATION	OFFSET	DESC.
1	10+14.97	47.67RT	END
2	10+15.41	113.72RT	PC
3	10+52.41	150.48RT	PT
4	10+52.41	113.48RT	RP
5	11+36.75	150.46RT	PC
6	11+78.39	150.45RT	END
7	11+69.28	164.36RT	PT
8	11+36.76	195.46RT	RP
9	11+69.08	228.14RT	END
10	11+74.24	220.37RT	PT
11	11+76.23	173.83RT	PC
12	11+82.36	162.64RT	HOLD BAR
13	11+91.54	150.45RT	END
14	12+05.89	172.76RT	PT
15	12+36.97	126.00RT	END

GEOMETRIC LAYOUT TABLE RWY 12/30 STATIONING			
Point #	STATION	OFFSET	DESC.
16	12+44.28	115.00RT	END
17	12+47.52	150.44RT	PC
18	12+54.80	125.00RT	HOLDBAR
19	12+47.53	200.44RT	RP
20	13+03.23	26.32RT	PT
21	13+44.87	4.00RT	PC
22	13+44.87	54.00RT	RP
23	13+84.06	150.41RT	PC
24	13+84.07	187.41RT	RP
25	14+21.10	186.56RT	PT
26	14+21.06	188.24RT	PT
27	14+20.76	201.54RT	END
28	14+58.09	187.39RT	RP
29	14+58.08	150.39RT	PC
30	15+44.87	4.00RT	END

NOTES AND ABBREVIATIONS

1. ALL DIMENSIONS ARE TO THE OUTSIDE OF WHITE AND YELLOW MARKINGS, UNLESS OTHERWISE NOTED.

PT POINT OF TANGENCY
 PC POINT OF CURVATURE
 RP RADIUS POINT
 RT RIGHT



MURRAY FIELD AIRPORT
 EUREKA, CALIFORNIA
 REHABILITATE RUNWAY
 12/30 & TAXIWAY A
 AIP No.

No.	Revision	Date	By

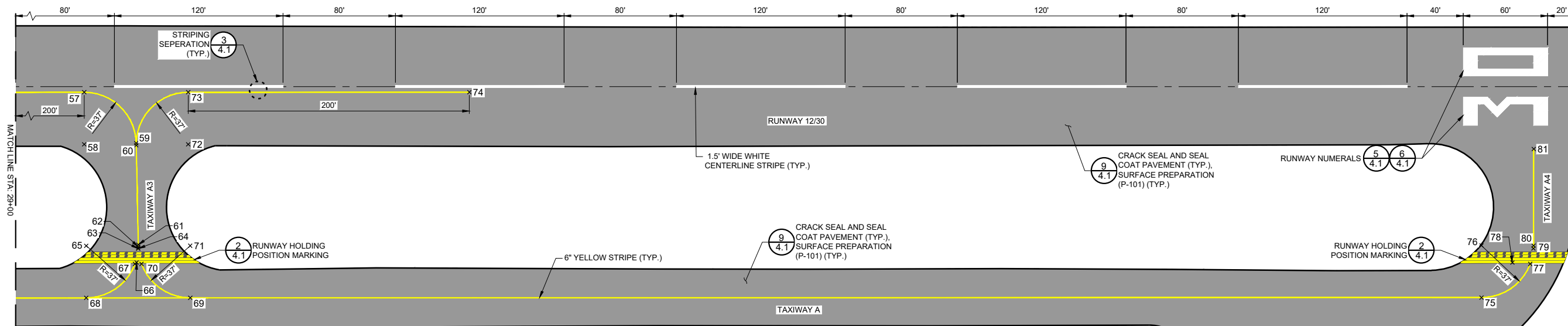
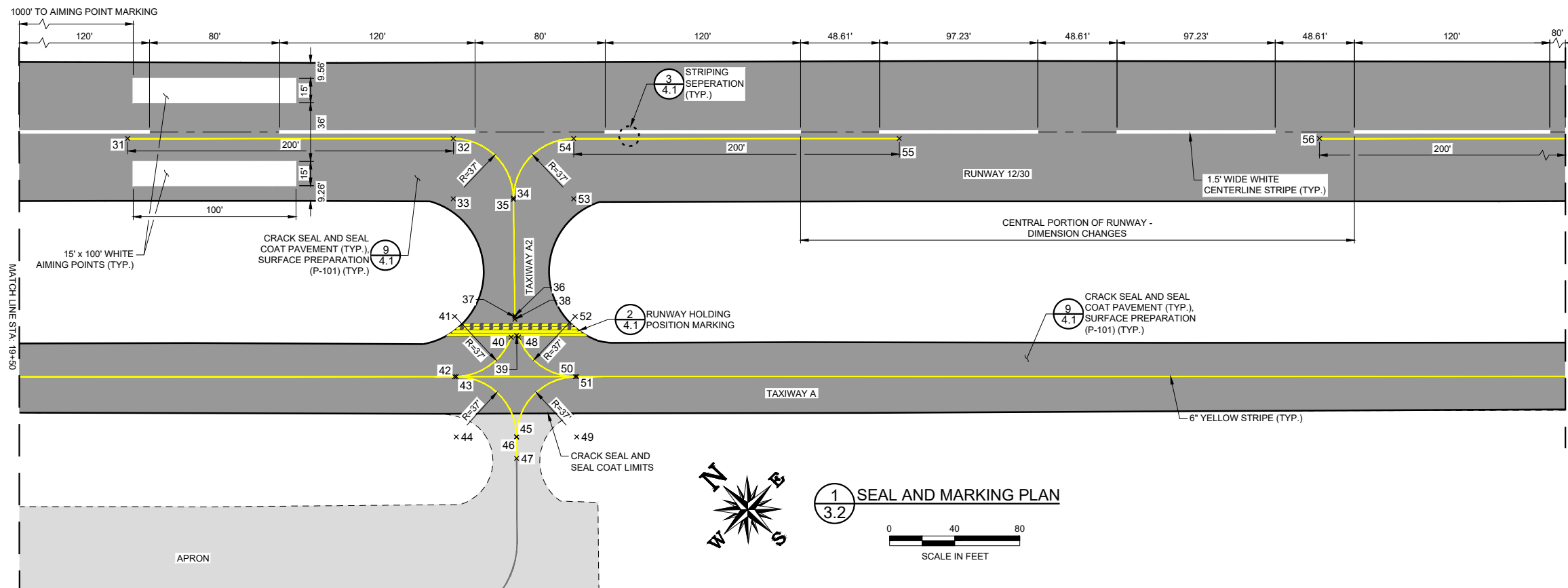
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 File Name: 236967103

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 Checked: IXW
 Approved: CSN

SEAL AND MARKING PLAN

Sheet: **3.1**

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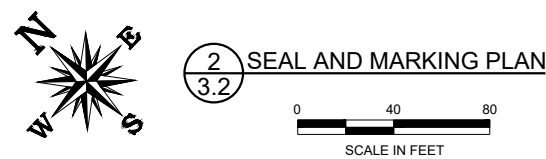


Point #	STATION	OFFSET	DESC.
31	20+16.69	4.00RT	END
32	22+16.69	4.00RT	PC
33	22+16.69	41.00RT	RP
34	22+53.69	40.54RT	PT
35	22+53.70	41.46RT	PC
36	22+54.57	112.80RT	PC
37	22+54.58	113.66RT	PC
38	22+54.53	115.00RT	END
39	22+55.67	125.00RT	HOLD BAR
40	22+52.30	126.00RT	PC
41	22+17.57	113.24RT	RP
42	22+17.58	150.24RT	PT
43	22+18.60	150.24RT	PC

Point #	STATION	OFFSET	DESC.
44	22+18.60	187.24RT	RP
45	22+55.60	187.06RT	PT
46	22+55.60	187.40RT	PT
47	22+55.67	200.45RT	END
48	22+56.85	126.00RT	PC
49	22+92.60	187.22RT	RP
50	22+91.58	150.22RT	PT
51	22+92.60	150.22RT	PC
52	22+91.58	113.22RT	RP
53	22+90.69	41.00RT	RP
54	22+90.69	4.00RT	PC
55	24+90.69	4.00RT	END
56	27+48.86	4.00RT	END

Point #	STATION	OFFSET	DESC.
57	29+48.86	4.00RT	PC
58	29+48.86	41.00RT	RP
59	29+85.85	40.26RT	PT
60	29+85.88	41.74RT	PT
61	29+87.29	112.35RT	PC
62	29+87.31	113.81RT	PC
63	29+87.24	115.00RT	PT
64	29+87.36	115.00RT	PT
65	29+50.29	113.09RT	RP
66	29+86.17	125.00RT	HOLD BAR
67	29+84.97	126.00RT	PC
68	29+50.30	150.09RT	PT
69	30+24.31	150.07RT	PT

Point #	STATION	OFFSET	DESC.
70	29+89.64	126.00RT	PC
71	30+24.31	113.07RT	RP
72	30+22.87	41.00RT	RP
73	30+22.87	4.00RT	PC
74	32+22.87	4.00RT	END
75	39+43.21	149.88RT	PT
76	39+43.21	112.88RT	RP
77	39+77.80	126.00RT	PC
78	39+65.11	125.00RT	HOLD BAR
79	39+80.14	115.00RT	PT
80	39+80.21	112.95RT	PC
81	39+80.32	44.37RT	END



NOTES AND ABBREVIATIONS

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PT POINT OF TANGENCY
PC POINT OF CURVATURE
RP RADIUS POINT
RT RIGHT



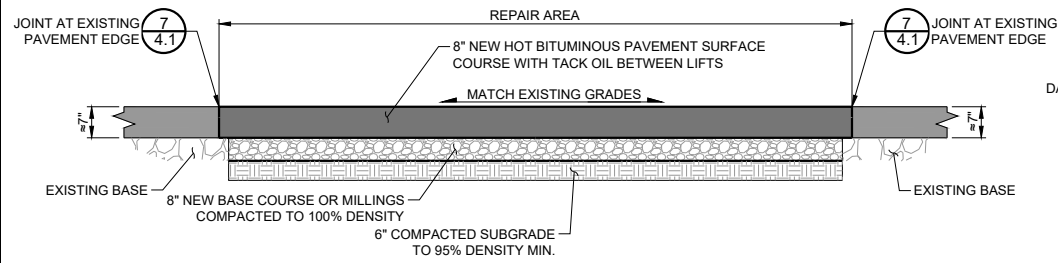
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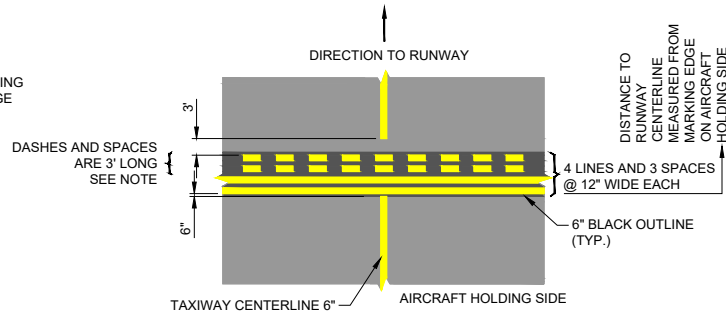
SEAL AND MARKING PLAN

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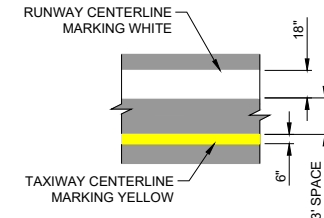
1 PAVEMENT REPAIR DETAIL
4.1 NOT TO SCALE

NOTE: ASPHALT, BASE COURSE, AND SUBGRADE WILL BE INCIDENTAL TO PAVEMENT REPAIR. MATERIALS MUST MEET STANDARD STATE APPROVED MATERIAL SPECIFICATIONS AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE ON THE PROJECT.

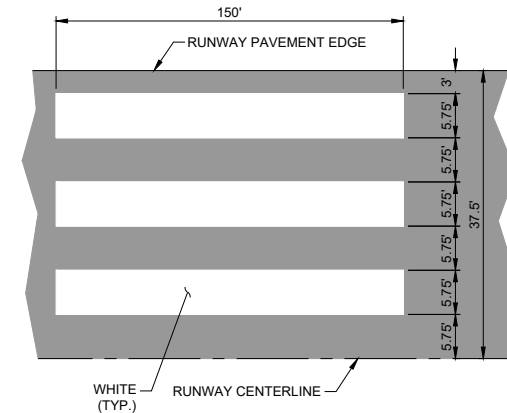


2 RUNWAY HOLDING POSITION MARKING - PATTERN A
4.1 NOT TO SCALE

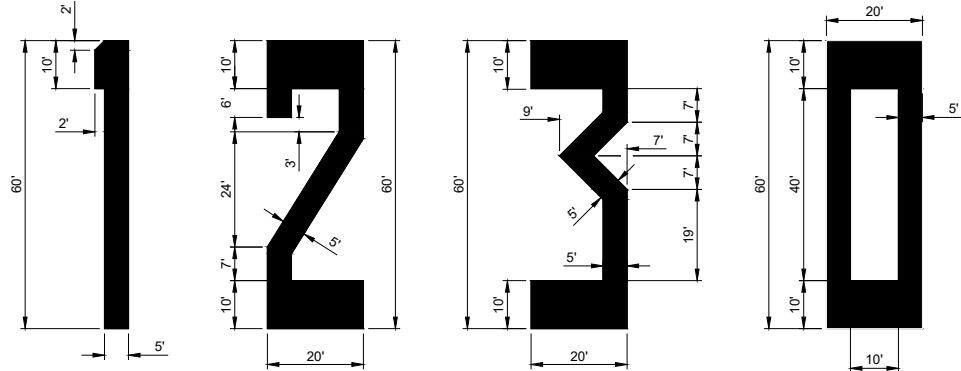
NOTES:
UNLESS OTHERWISE NOTED ALL LINES ARE YELLOW.
BLACK BACKGROUND TO BE CONTINUOUS BETWEEN LINES & STRIPES.



3 STRIPING SEPARATION
4.1 NOT TO SCALE

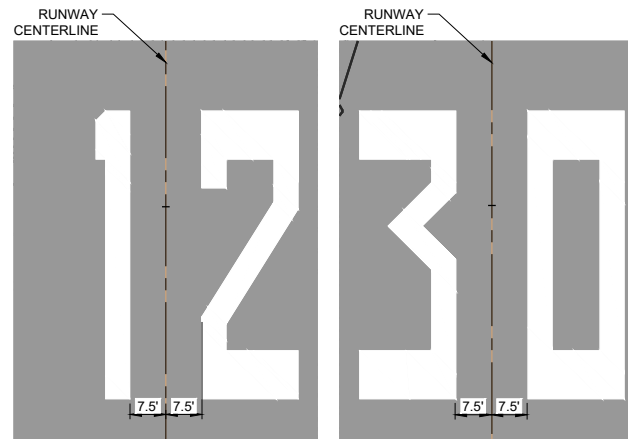


4 THRESHOLD BARS DETAIL
4.1 NOT TO SCALE

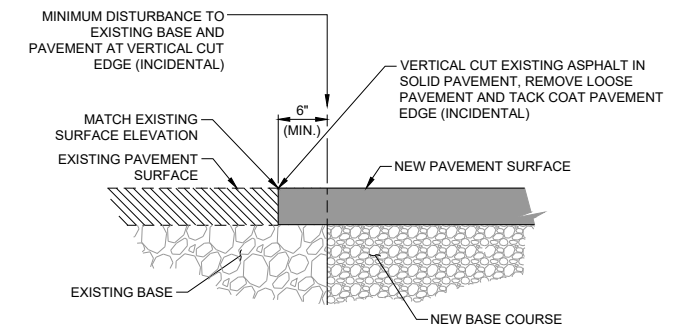


5 RUNWAY NUMERALS
4.1 NOT TO SCALE

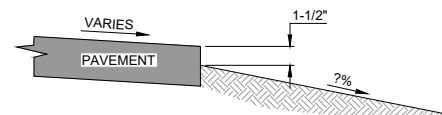
NOTES:
- NUMERALS ARE WHITE
- VERTICAL STRIPES ARE 5' WIDE
- HORIZONTAL STRIPES ARE 10' WIDE
- DIAGONAL STRIPES ARE 5' WIDE
- ALL DIMENSIONS ARE TO THE EDGE OF WHITE



6 RUNWAY NUMERALS PLACEMENT DETAILS
4.1 NOT TO SCALE

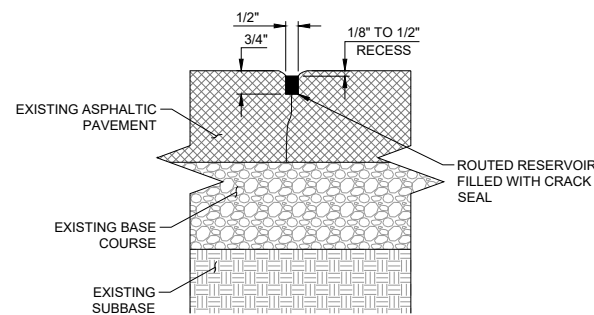


7 JOINT AT EXISTING PAVEMENT EDGE
4.1 NOT TO SCALE

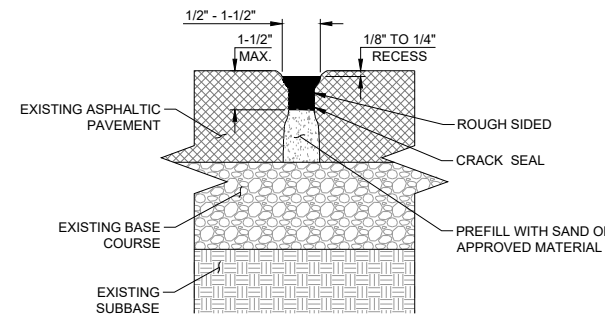


8 PAVEMENT EDGE DROP
4.1 NOT TO SCALE

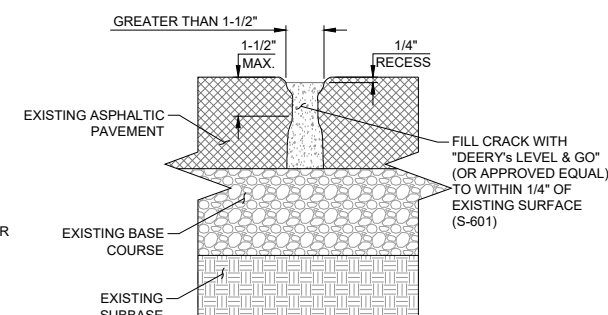
NOTE: EDGE DROP SHALL NOT EXCEED 2 INCHES BELOW ADJACENT PAVEMENT POST COMPACTION.



CRACKS 1/8" - 1/2" TREATMENT



CRACKS 1/2" - 1-1/2" TREATMENT



CRACKS LARGER THAN 1-1/2" TREATMENT

9 P-101 CRACK SEALING
4.1 NOT TO SCALE

No.	Revision	Date	By

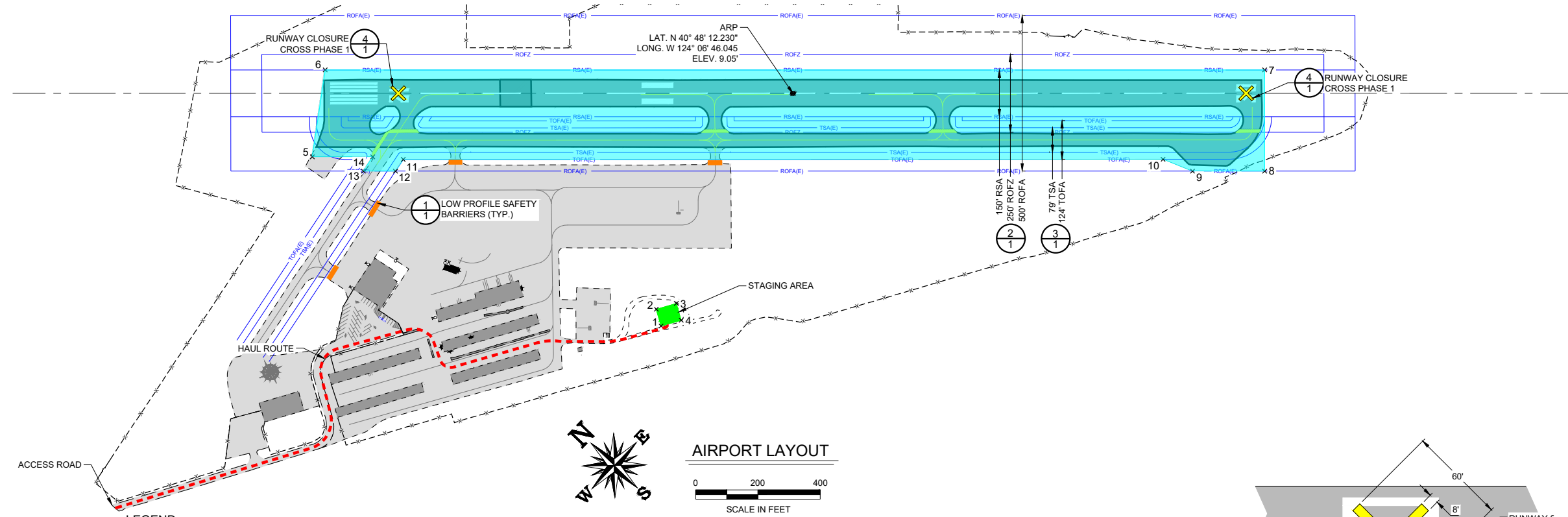
ACI No. 236967
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Drawn: JEF
Checked: IXW
Approved: CSN



DETAILS

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LEGEND

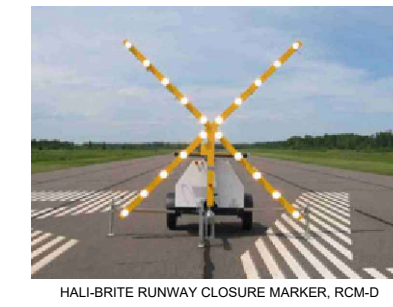
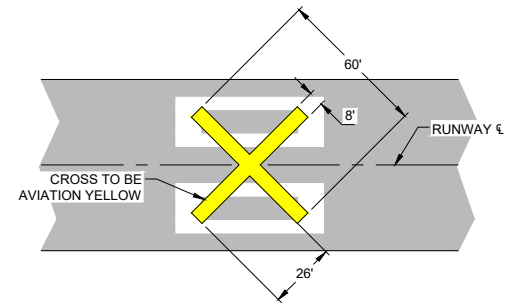
- PHASE 1 WORK AREA
- CONTRACTOR STAGING AREA
- LOW PROFILE BARRIER
- CONTRACTOR HAUL ROUTE
- DETAIL #
- SHEET #
- ROFA = RUNWAY OBJECT FREE AREA
- ROFZ = RUNWAY OBSTACLE FREE ZONE
- RSA = RUNWAY SAFETY AREA
- TOFA = TAXIWAY OBJECT FREE AREA
- TSA = TAXIWAY SAFETY AREA

LATITUDE AND LONGITUDES (LAT/LONG) DELINEATION OF THE CONSTRUCTION AREA AND CONTRACTOR STAGING AREA LIMITS

WORK AREA COORDINATES

POINT #	ELEVATION	LATITUDE	LONGITUDE
1	6'	N040°48'09.93"	W124°06'56.79"
2	7'	N040°48'10.42"	W124°06'56.44"
3	6'	N040°48'10.10"	W124°06'55.68"
4	6'	N040°48'09.61"	W124°06'56.03"
5	6'	N040°48'21.54"	W124°07'02.17"
6	6'	N040°48'23.21"	W124°06'59.23"
7	8'	N040°48'02.22"	W124°06'31.37"
8	10'	N040°47'59.94"	W124°06'34.34"
9	7'	N040°48'01.55"	W124°06'36.48"
10	4'	N040°48'02.48"	W124°06'37.00"
11	7'	N040°48'19.44"	W124°06'59.55"
12	7'	N040°48'19.35"	W124°07'00.12"
13	6'	N040°48'20.07"	W124°07'01.08"
14	6'	N040°48'20.19"	W124°07'00.38"

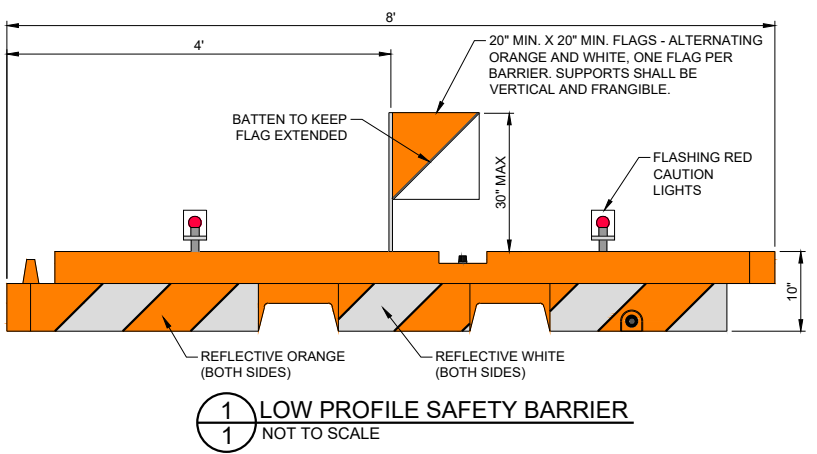
NOTE: ELEVATIONS FROM WILSON SURVEY 05/2022



4 RUNWAY CLOSURE CROSS
1 NOT TO SCALE

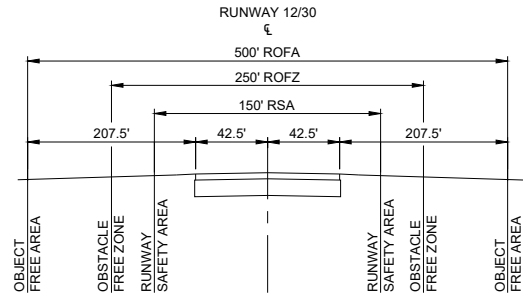
NOTES:
THE CONTRACTOR SHALL PROVIDE AND USE LIGHTED CLOSURE CROSSES FOR THE FULL DURATION OF RUNWAY CLOSURE. THE CONTRACTOR SHALL PLACE ONE MARKER OVER THE RUNWAY DESIGNATION NUMBERS EACH END OF THE RUNWAY. THE CONTRACTOR SHALL PROVIDE ALL FUEL, OIL, LAMPS, AND ANY OTHER MAINTENANCE REQUIRED DURING THE PROJECT. ALL COSTS FOR SUPPLIES, TRANSPORTATION, OPERATION, AND MAINTENANCE OF THE LIGHTED CLOSURE CROSSES SHALL BE INCIDENTAL TO THE PROJECT.

IF THE LIGHTED CLOSURE CROSS BECOMES INOPERABLE DURING THE PROJECT AT ANY TIME, CONVENTIONAL YELLOW CLOSURE MARKERS SHALL BE IMMEDIATELY INSTALLED IN PLACE OF THE LIGHTED CLOSURE CROSS UNTIL IT IS REPAIRED OR REPLACED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE IN POSSESSION OF AT LEAST ONE SET OF CONVENTIONAL CLOSURE CROSSES AT ALL TIMES TO BE INSTALLED IMMEDIATELY IF ONE OF THE LIGHTED CROSSES BECOMES INOPERABLE.



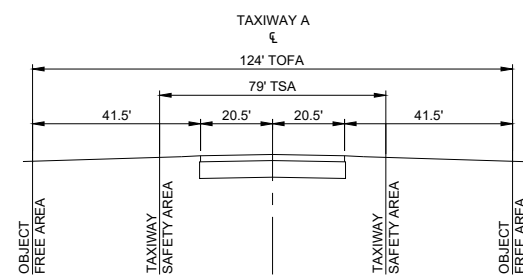
1 LOW PROFILE SAFETY BARRIER
1 NOT TO SCALE

- NOTES:**
- BARRIER SHALL BE SHERWIN INDUSTRIES, 10" x 96" LOW PROFILE AIRPORT BARRIER, AS SHOWN, OR APPROVED EQUAL.
 - THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE REFLECTORIZED WITH SMOOTH SURFACE TYPE REFLECTIVE SHEETING.
 - LIGHTS MUST BE MOUNTED ON BARRIERS AND SPACED AT NO MORE THAN 10 FT.
 - THE BARRIERS SHALL BE WEIGHTED AGAINST PROPWASH AND CAPABLE OF WITHSTANDING UP TO 100 M.P.H. WIND FORCES.
 - FLASHING RED CAUTION LIGHTS SHALL BE BATTERY OPERATED AND SHALL MAINTAIN SUCH INTENSITY SO AS TO BE READILY IDENTIFIED FROM DISTANCES OF AT LEAST 200 FEET DURING DARKNESS.
 - THE CONTRACTOR SHALL CHECK ALL BARRIERS AND LIGHTS EACH DAY BEFORE LEAVING THE AIRPORT TO ENSURE LIGHTS ARE WORKING PROPERLY AND MAY NOT LEAVE WITHOUT ALL BARRIERS AND LIGHTS BEING IN PROPER WORKING ORDER.



ALL STATIONARY CONSTRUCTION EQUIPMENT AND STOCKPILES MUST REMAIN CLEAR OF ANY OPEN RUNWAY OBJECT FREE AREA. ALL CONSTRUCTION EQUIPMENT AND TRAFFIC MUST REMAIN CLEAR OF ANY OPEN RUNWAY OBSTACLE FREE ZONE.

2 SAFETY AREAS
1 NOT TO SCALE



ALL CONSTRUCTION EQUIPMENT, STOCKPILES, AND TRAFFIC MUST REMAIN CLEAR OF ANY OPEN TAXIWAY OBJECT FREE AREA.

3 SAFETY AREAS
1 NOT TO SCALE



No.	Revision	Date	By

ACI No. 236967
Date: 04/2024
File Name: 236967150

Drawn: JEF
Checked: IXW
Approved: CSN