

Airports Division

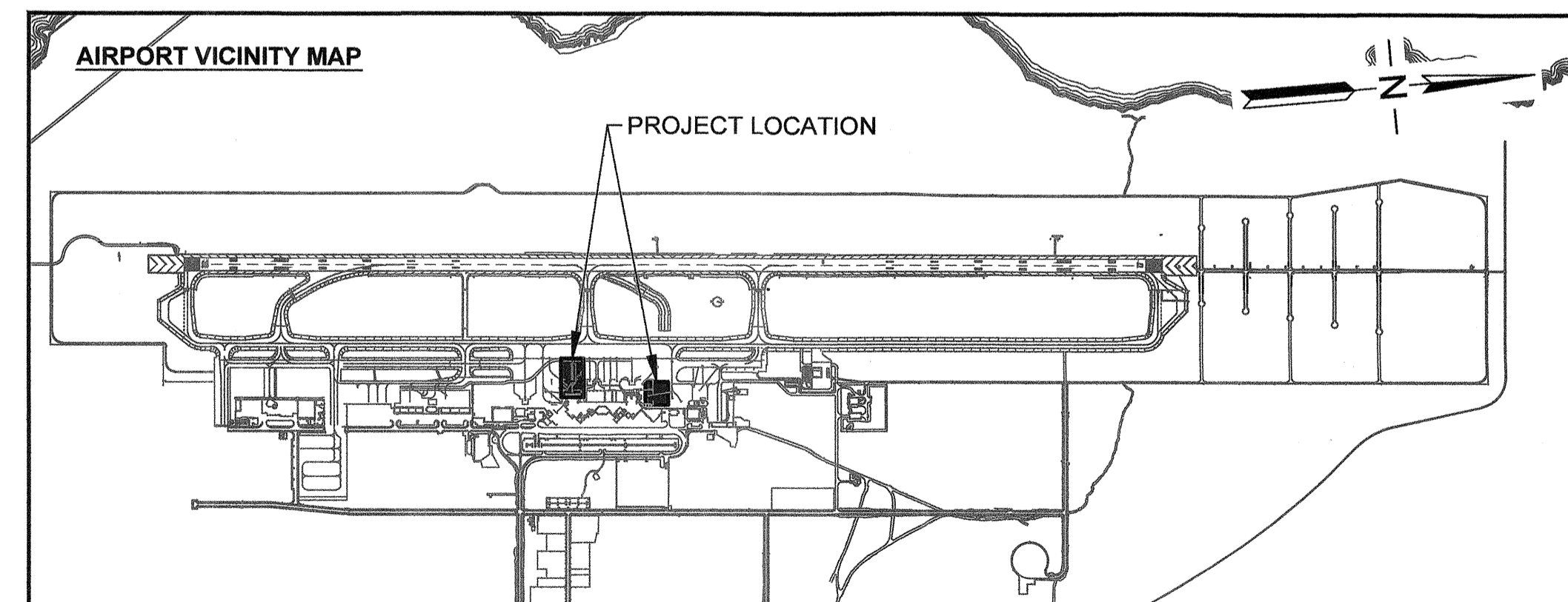
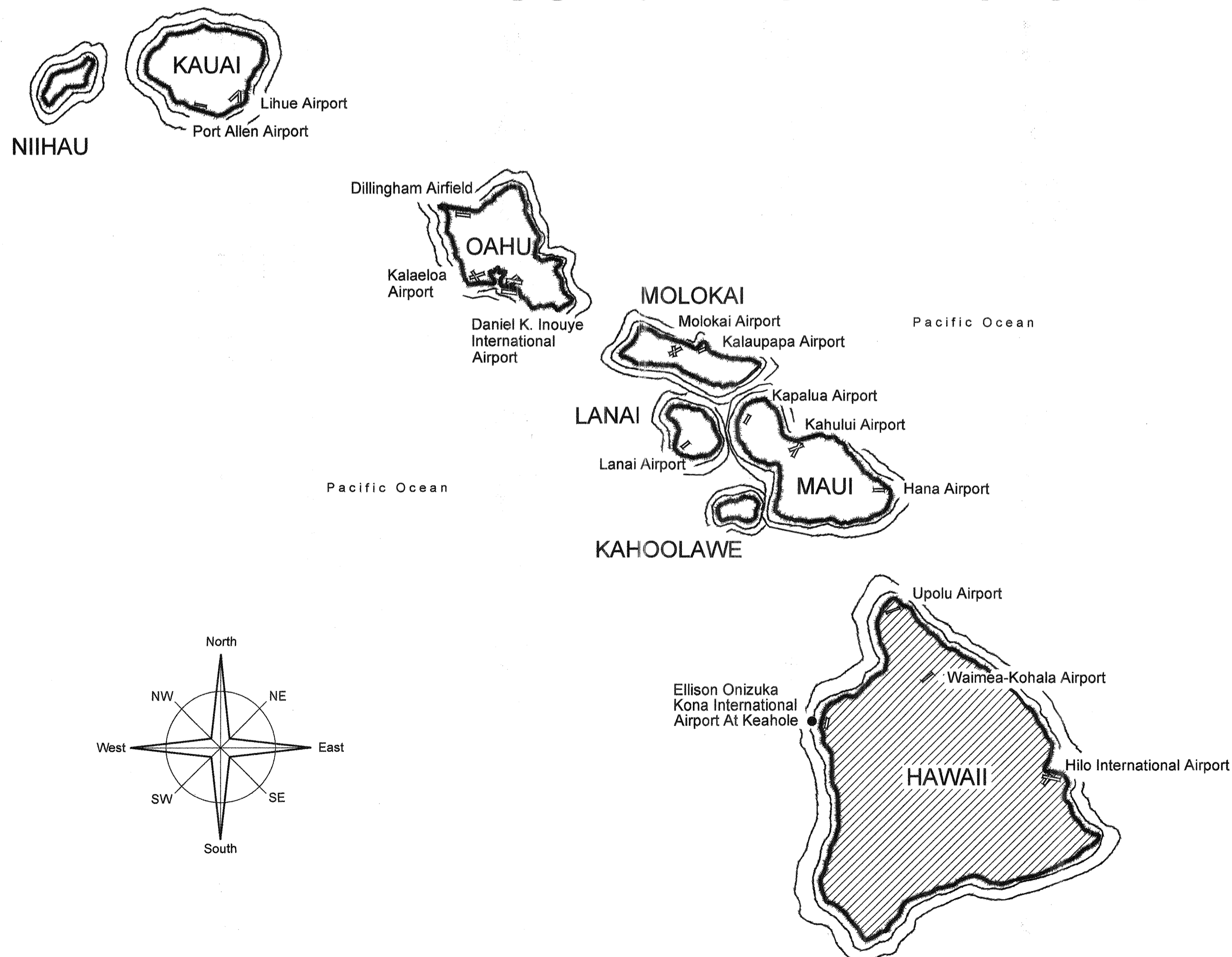
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

PLANS FOR

APRON IMPROVEMENTS

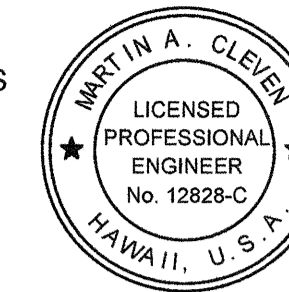
AT

ELLISON ONIZUKA KONA INTERNATIONAL AIRPORT AT KEAHOLE KAILUA-KONA, HAWAII PROJECT NO. AH2023-17



PROJECT TEAM

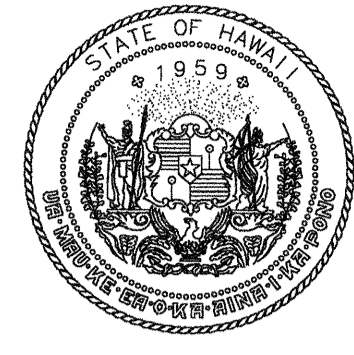
CIVIL:
ORION ENGINEERS & ASSOCIATES
1003 BISHOP STREET, SUITE 2020
HONOLULU HI 96813
(808) 685-7204



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

M. Aren Clevén
M. AREN CLEVEN
CIVIL ENGINEER

4/30/24
Expiration Date



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Expiration Date

| DSGN. | DRWN. | CHKD. | APPD. |
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| AC | AT | TR | SH |

KEY PLAN / NOTES:

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

CONSTRUCTION DOCUMENTS
SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS
AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

PROJECT NO. :
AH2023-17

SHEET TITLE:
**TITLE SHEET,
PROJECT LOCATION,
& AIRPORT VICINITY
MAP**

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

APPROVED:
Mary Et
DIRECTOR OF TRANSPORTATION

10/27/22
DATE

DATE :
09/23/2022

SHEET :
G-101

DWG. NO.
G-101

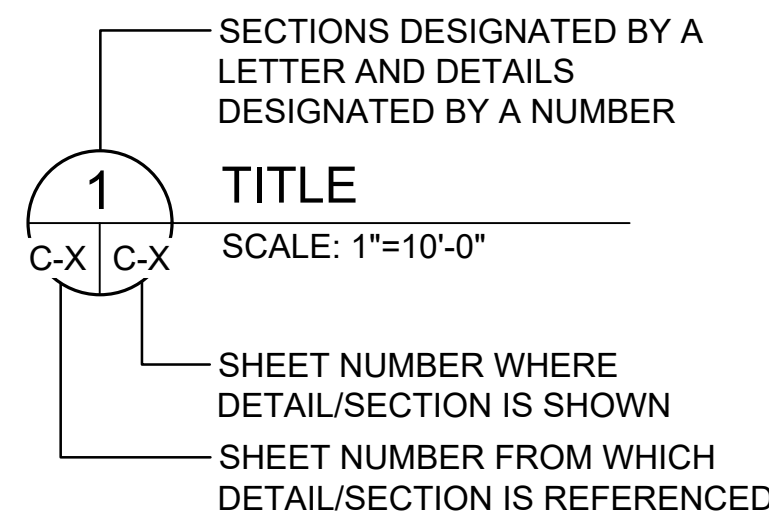
1 OF 12 SHEETS

| INDEX OF DRAWINGS | | |
|-------------------|------------|---|
| SHEET NUMBER | DRAWING NO | SHEET TITLE |
| 1 | G-101 | TITLE SHEET, PROJECT LOCATION, & AIRPORT VICINITY MAP |
| 2 | G-102 | INDEX OF DRAWINGS, ABBREVIATIONS, AND NOTES |
| 3 | G-103 | CONSTRUCTION PHASING PLAN |
| 4 | G-104 | EROSION CONTROL PLAN AND DETAILS |
| 5 | C-101 | EXISTING CONDITIONS AND DEMOLITION PLAN 1 |
| 6 | C-102 | EXISTING CONDITIONS AND DEMOLITION PLAN 2 |
| 7 | C-103 | PAVING LAYOUT PLAN 1 |
| 8 | C-104 | PAVING LAYOUT PLAN 2 |
| 9 | C-105 | PAVEMENT SECTION |
| 10 | C-106 | PAVING DETAILS |
| 11 | C-107 | PAVEMENT MARKING PLAN |
| 12 | C-108 | PAVEMENT MARKING DETAILS |

SHEET NUMBERING SCHEME

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

X-0
 L SEQUENTIAL DRAWING NO.
 DISCIPLINE LETTER KEY
 G - TITLE, GENERAL
 C - CIVIL



ABBREVIATION

| | | | |
|--------|--|-----------|--------------------------------------|
| AC | ASPHALT CONCRETE | MH | MANHOLE |
| ADG | AIRPLANE DESIGN GROUP | MIN | MINIMUM |
| AGG | AGGREGATE | MPH | MILES PER HOUR |
| AOA | AIRPORT OPERATIONS AREA | N | NORTH |
| APPROX | APPROXIMATE | NAVAID | NAVIGATIONAL AID |
| ARFF | AIRPORT RESCUE FIRE FIGHTING | NO | NUMBER |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | NOTAM | NOTICE TO AIRMEN |
| ATCT | AIRPORT TRAFFIC CONTROL TOWER | NTP | NOTICE TO PROCEED |
| BL | BASELINE | NTS | NOT TO SCALE |
| BMP | BEST MANAGEMENT PRACTICE | OC | ON CENTER |
| CL | CENTER LINE | OD | OUTSIDE DIAMETER |
| CONC | CONCRETE | OFF | OFFSET |
| CSO | CONTRACTOR SECURITY OFFICER | PCC | PORTLAND CEMENT CONCRETE |
| CSPP | CONSTRUCTION SAFETY AND PHASING PLAN | PROP | PROPOSED |
| CY | CUBIC YARD | QA | QUALITY ASSURANCE |
| DI | DRAIN INLET | RAD | RADIUS |
| DIA | DIAMETER | REF | REFERENCE |
| DOH | DEPARTMENT OF HEALTH | RON | REMAIN OVERNIGHT |
| DPW | DEPARTMENT OF PUBLIC WORKS | RPR | RESIDENT PROJECT REPRESENTATIVE |
| DWG | DRAWING(S) | RT | RIGHT |
| E | EAST | RWY | RUNWAY |
| EA | EACH | S | SOUTH |
| ELEC | ELECTRIC | SD | STORM DRAIN |
| ELEV | ELEVATION | SECT | SECTION |
| EW | EACH WAY | SF | SQUARE FEET |
| EX | EXISTING | SIDA | SECURITY IDENTIFICATION DISPLAY AREA |
| FAA | FEDERAL AVIATION ADMINISTRATION | SPCD | SAFETY PLAN COMPLIANCE DOCUMENT |
| FG | FINISH GRADE | SPEC | SPECIFICATIONS |
| FOD | FOREIGN OBJECT DEBRIS | SQ | SQUARE |
| FPS | FEET PER SECOND | ST | STREET |
| FT | FEET | STA | STATION |
| HDOT | HAWAII DEPARTMENT OF TRANSPORTATION | STD, STND | STANDARD |
| HMA | HOT MIX ASPHALT | SY | SQUARE YARD |
| HORZ | HORIZONTAL | TEMP | TEMPORARY |
| HRS | HOURS | TOFA | TAXIWAY OBJECT FREE AREA |
| INV | INVERT | TSA | TAXIWAY SAFETY AREA |
| L | LENGTH | TWY | TAXIWAY |
| LAT | LATITUDE | TXL | TAXILANE |
| LB | POUND | TYP | TYPICAL |
| LF | LINEAR FEET | VERT | VERTICAL |
| LT | LEFT | VSR | VEHICLE SERVICE ROAD |
| LONG | LONGITUDE | W | WEST |
| MAX | MAXIMUM | W/ | WITH |
| MBX | METAL BOX | YR | YEAR |
| | | % | PERCENT |

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 RESIDENT PROJECT REPRESENTATIVE (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

- 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 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 RECORDING 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 SHALL 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 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. FOR UNPAVED PORTIONS OF THE HAUL ROUTES, THE CONTRACTOR SHALL IMPLEMENT BMP DUST CONTROL MEASURES AND PRACTICES TO PREVENT AIRBORNE DUST. FAILURE TO MAINTAIN THE HAUL ROUTE IN AN 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 IMMEDIATELY CLEAN AND REMOVE THE MATERIAL.

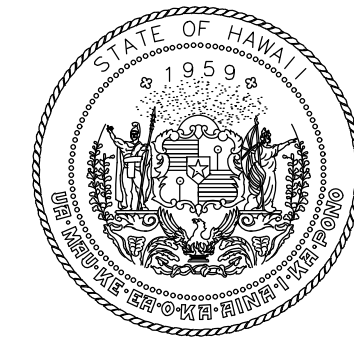
- ALL MATERIALS AND EQUIPMENT, WHEN NOT IN USE, SHALL BE MOVED TO THE CONTRACTOR'S STAGING AREA. ANY OTHER AREAS TO BE USED FOR STORAGE MUST BE APPROVED BY THE RPR AND AIRPORT OPERATIONS. EQUIPMENT AND STOCKPILED MATERIAL SHALL BE CONstrained IN A MANNER ACCEPTABLE TO THE RPR AND AIRPORT OPERATIONS.
- THE CONTRACTOR'S ACCESS POINTS TO THE SITE SHALL BE AS SHOWN ON THE CONSTRUCTION PHASING 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).
- THE CONTRACTOR SHALL FURNISH ALL ESCORTS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND COMMUNICATION DEVICES SPECIFIED IN THE 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 CONTRACTOR 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, GROOVE 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 SHALL 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 PROJECT MANAGER: HANY SOKAR, 808-838-8848
 AIRPORT MANAGER: CHAUNCEY WONG-YUEN, 808-327-9522



Airports Division
 DEPARTMENT OF TRANSPORTATION
 STATE OF HAWAII



I HEREBY CERTIFY THAT THIS WORK
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 SUPERVISION

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

| DSGN. | DRWN. | CHKD. | APPD. |
|-------|-------|-------|-------|
| AC | AT | TR | SH |

KEY PLAN / NOTES:

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

CONSTRUCTION DOCUMENTS

SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS

AT
 ELLISON ONIZUKA
 KONA INTERNATIONAL AIRPORT AT KEAHOLE
 KAILUA-KONA, HAWAII

PROJECT NO.:

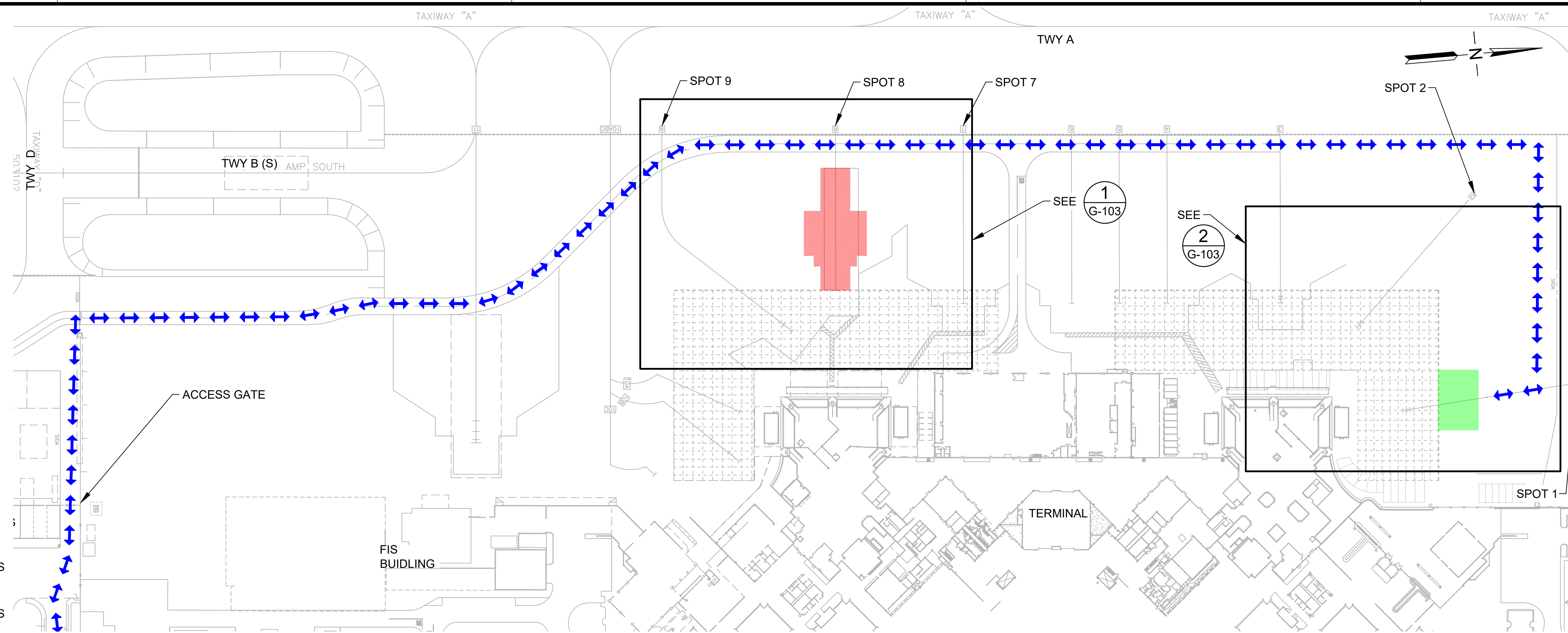
AH2023-17

SHEET TITLE:

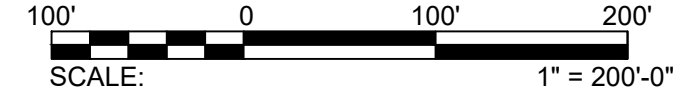
INDEX OF DRAWINGS, ABBREVIATIONS, AND NOTES

| | |
|----------------|----------|
| DATE : | DWG. NO. |
| 09/23/2022 | G-102 |
| SHEET : | |
| 2 OF 12 SHEETS | |

C:\USERS\JBENTON\ENGINEERS & ASSOCIATES\HDOT_MISC\AIRFIELD DESIGN SERV - 18-KOA\APRON IMPROVEMENTS\G05_DRAWING\AH2023-17_02-COND\0TABBR.DWG



PHASING PLAN OVERVIEW
SCALE: 1"=100'



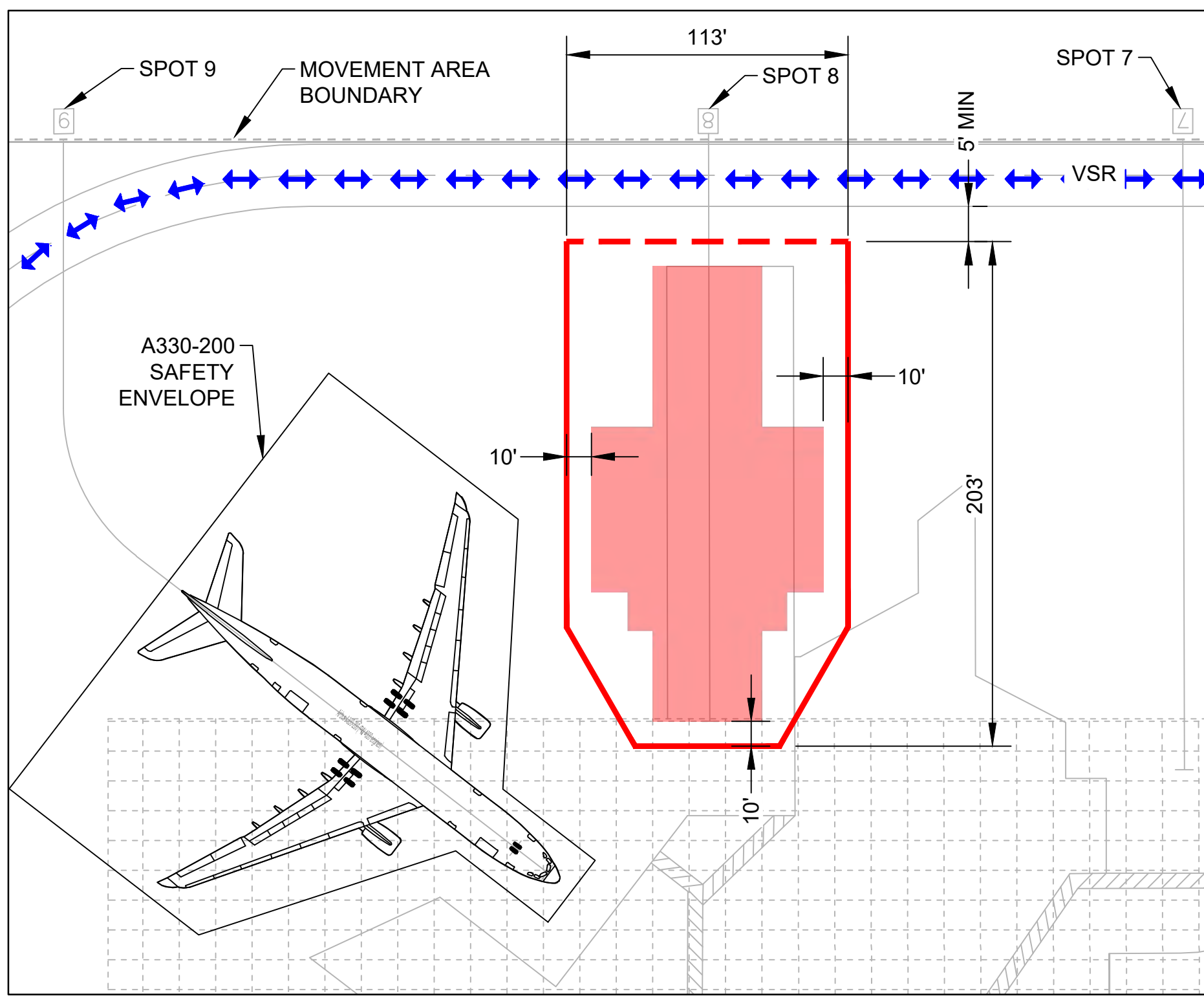
LEGEND:

- PHASE 1 WORK AREA
- PHASE 2 WORK AREA
- HAUL ROUTE (2-WAY)
- LOW-PROFILE BARRICADES (WITH GAPS)
- LOW-PROFILE BARRICADES (CONTINUOUS)



| | | | |
|-------|-------|-------|-------|
| DSGN. | DRWN. | CHKD. | APPD. |
| AC | AT | TR | SH |

KEY PLAN / NOTES:



1 PHASE 1
G-103 SCALE: NTS

DESCRIPTION OF WORK:
DEMOLITION OF EXISTING APRON, CONSTRUCT APRON IMPROVEMENTS, PAVEMENT MARKINGS

WORK HOURS:
2230-0630, MONDAY - FRIDAY

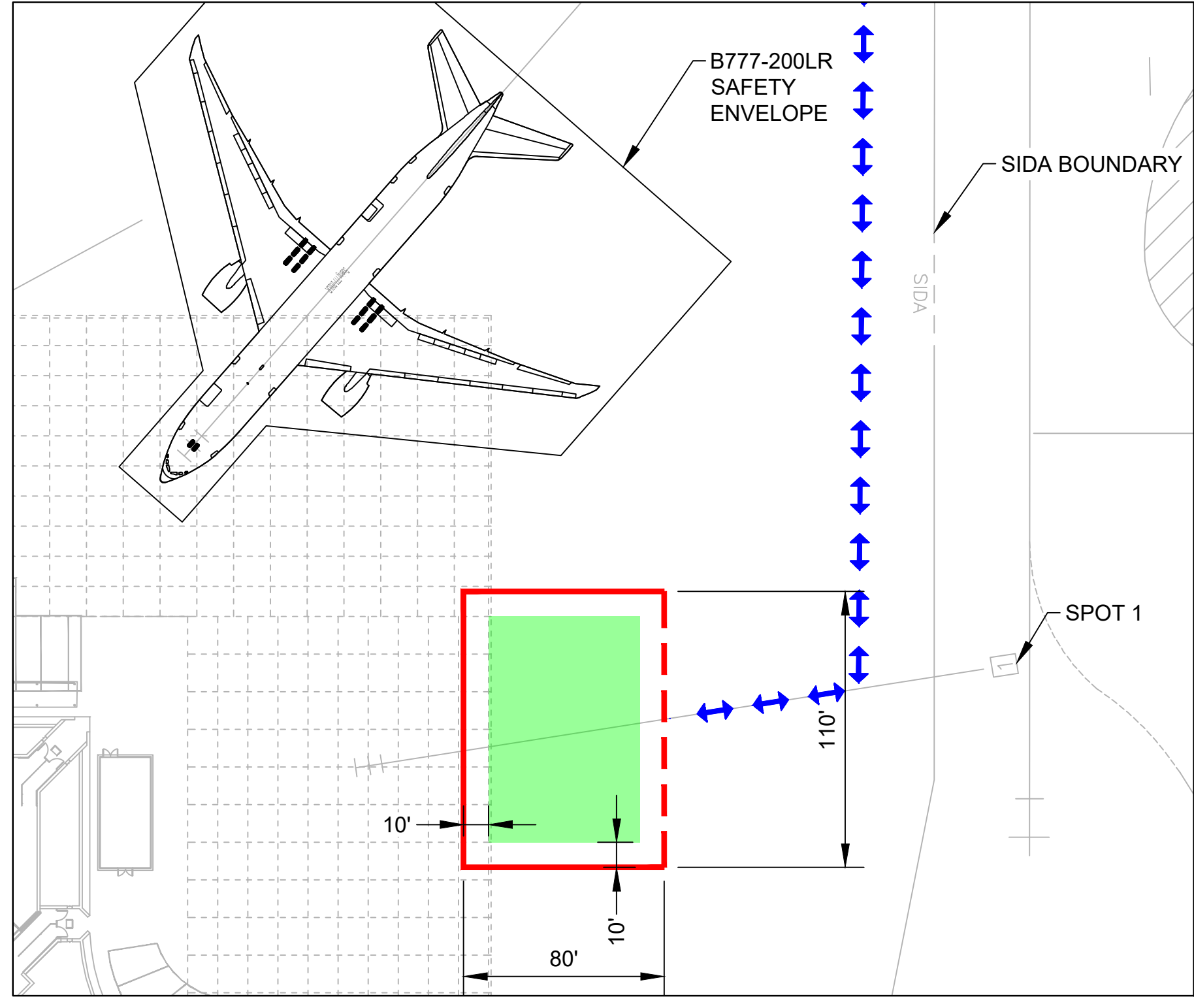
DURATION:
45 CALENDAR DAYS - CONTINUOUS CLOSURE

PHASING NOTES:

- PRIOR TO ENTERING THE AOA, CONTRACTOR SHALL CONTACT AIRPORT OPERATIONS.
- CONTRACTOR SHALL REMAIN OUTSIDE THE AIRCRAFT MOVEMENT AREA AT ALL TIMES DURING CONSTRUCTION AND HAULING.
- CONTRACTOR SHALL WORK WITHIN THE BARRICADED AREA AS SHOWN.
- FOLLOWING COMPLETION OF THE TEMPORARY PAVEMENT MARKING, CONTRACTOR SHALL REMOVE BARRICADES AND REOPEN THE AREA TO AIRCRAFT TRAFFIC. SEE PAVEMENT MARKING PLAN AND DETAILS.
- CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS TO SCHEDULE ADDITIONAL CLOSURE FOR FINAL MARKINGS.

OPERATIONAL IMPACTS

- PARKING SPOT 8 CLOSED.
- NO RON PARKING IN SPOT 9.



2 PHASE 2
G-103 SCALE: NTS

DESCRIPTION OF WORK:
DEMOLITION OF EXISTING APRON, CONSTRUCT APRON IMPROVEMENTS, PAVEMENT MARKINGS

WORK HOURS:
2230-0630, MONDAY - FRIDAY

DURATION:
45 CALENDAR DAYS - CONTINUOUS CLOSURE

PHASING NOTES:

- PRIOR TO ENTERING THE AOA, CONTRACTOR SHALL CONTACT AIRPORT OPERATIONS.
- CONTRACTOR SHALL REMAIN OUTSIDE THE AIRCRAFT MOVEMENT AREA AT ALL TIMES DURING CONSTRUCTION AND HAULING.
- CONTRACTOR SHALL WORK WITHIN THE BARRICADED AREA AS SHOWN.
- FOLLOWING COMPLETION OF THE TEMPORARY PAVEMENT MARKING, CONTRACTOR SHALL REMOVE BARRICADES AND REOPEN THE AREA TO AIRCRAFT TRAFFIC. SEE PAVEMENT MARKING PLAN AND DETAILS.
- CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS TO SCHEDULE ADDITIONAL CLOSURE FOR FINAL MARKINGS.

OPERATIONAL IMPACTS

- PARKING SPOT 1 CLOSED.



| NO. | DATE | REVISIONS |
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CONSTRUCTION DOCUMENTS
SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS
AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

PROJECT NO.:

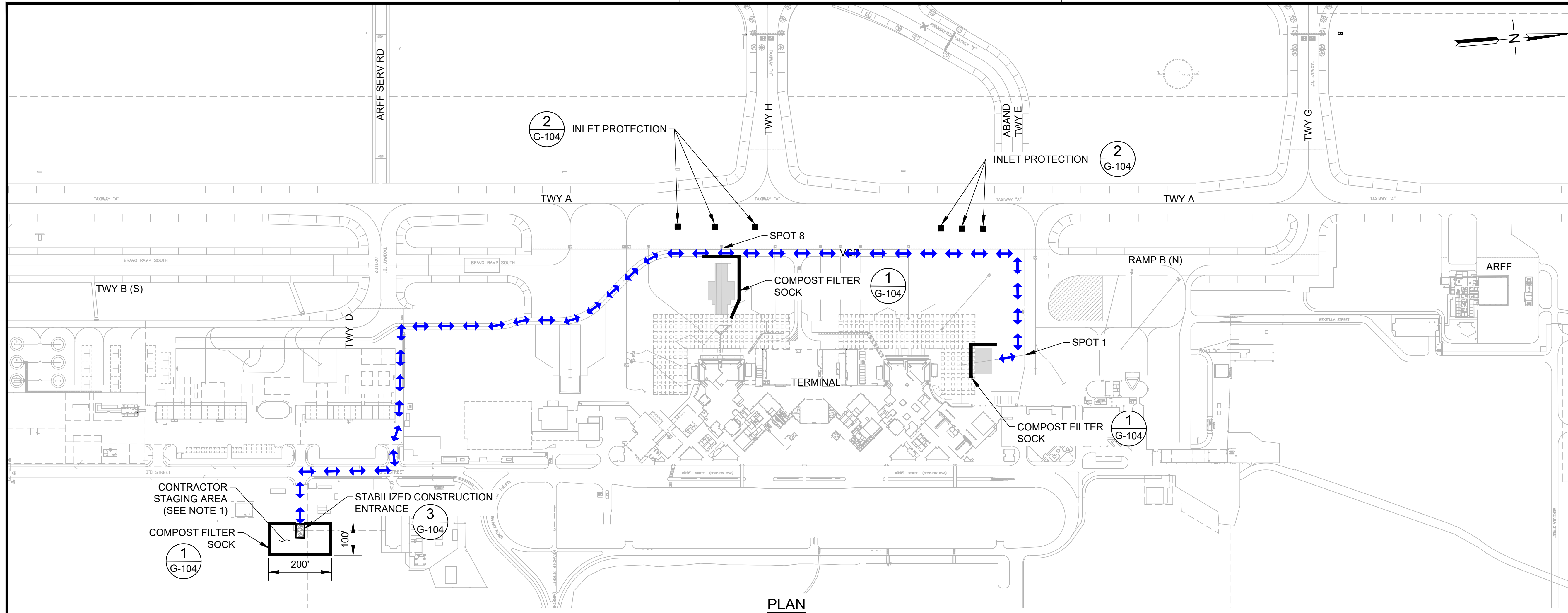
AH2023-17

SHEET TITLE:

CONSTRUCTION PHASING PLAN

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|----------------|----------|
| DATE : | DWG. NO. |
| 09/23/2022 | G-103 |
| SHEET : | |
| 3 OF 12 SHEETS | |

C:\USERS\TOLVENTINO\ENGINEERS & ASSOCIATES\SHOOT MISC\AIRFIELD DESIGN SERV - 16-KOA APRON IMPROVEMENTS\DC2 ENGINEERING\05 DRAWING\AH2023-17_02-PHSPIN.DWG

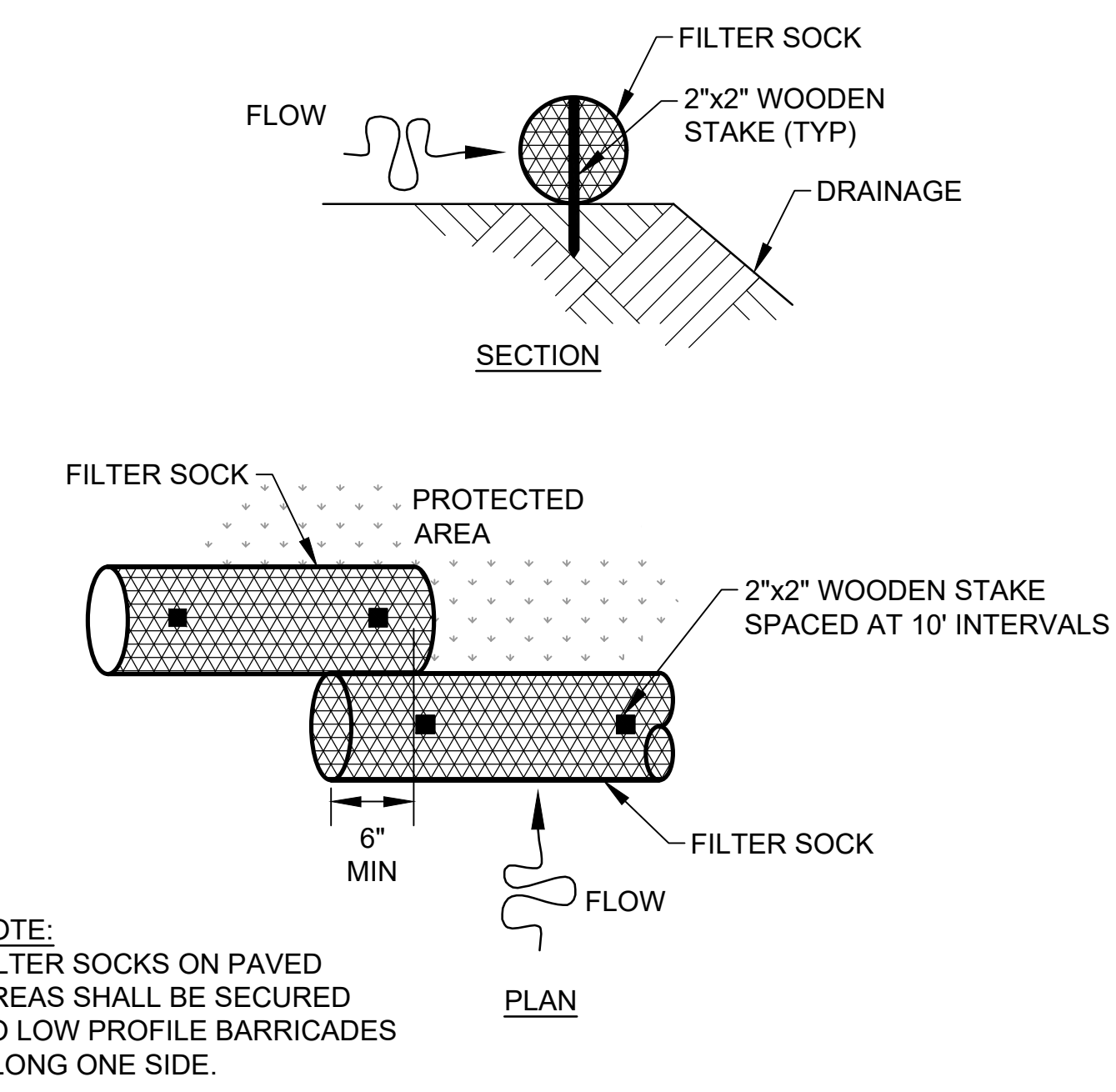


PLAN
SCALE: 1"=200'

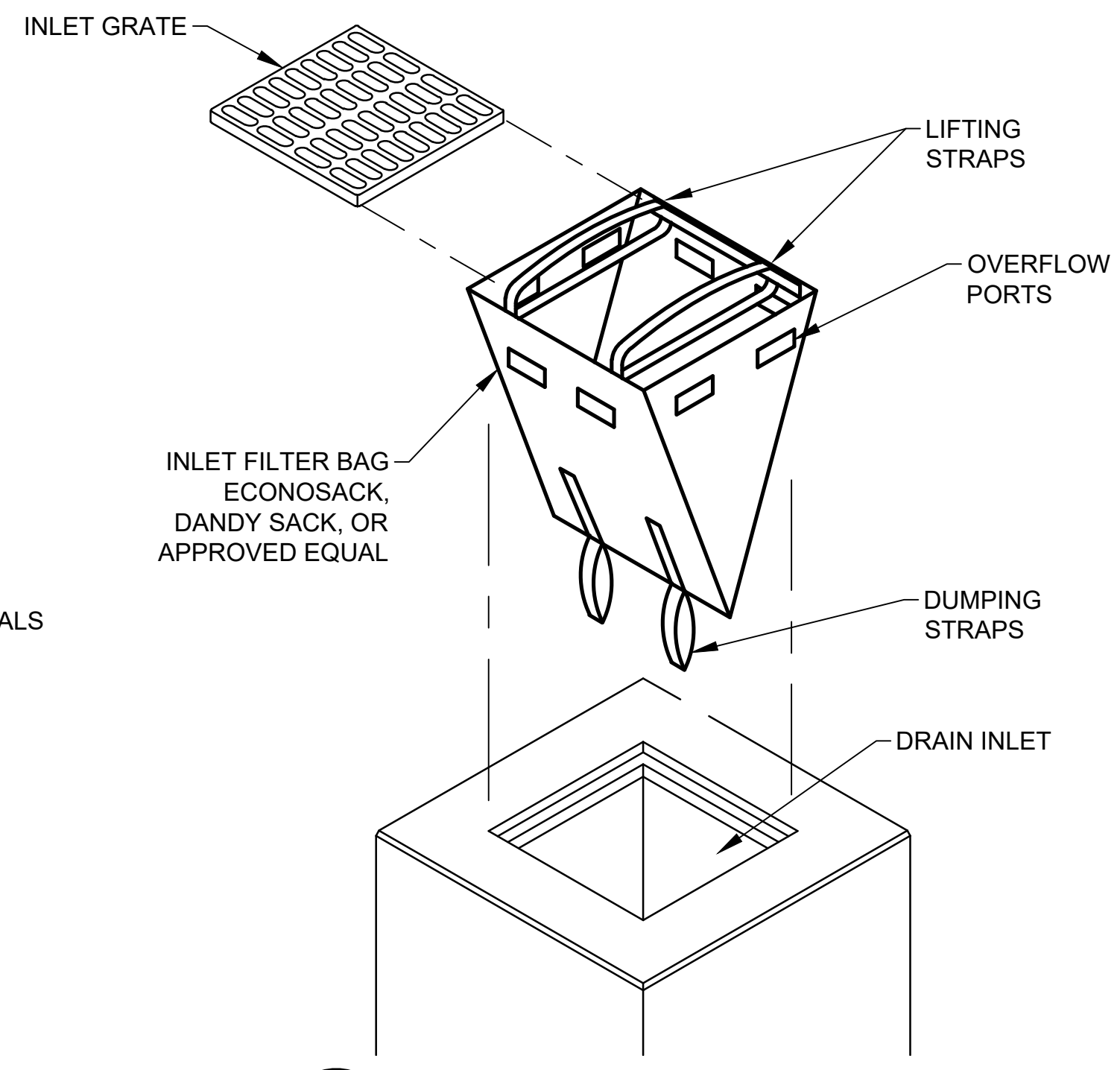
LEGEND:

- WORK AREA
- CONTRACTOR HAUL ROUTE (2-WAY)

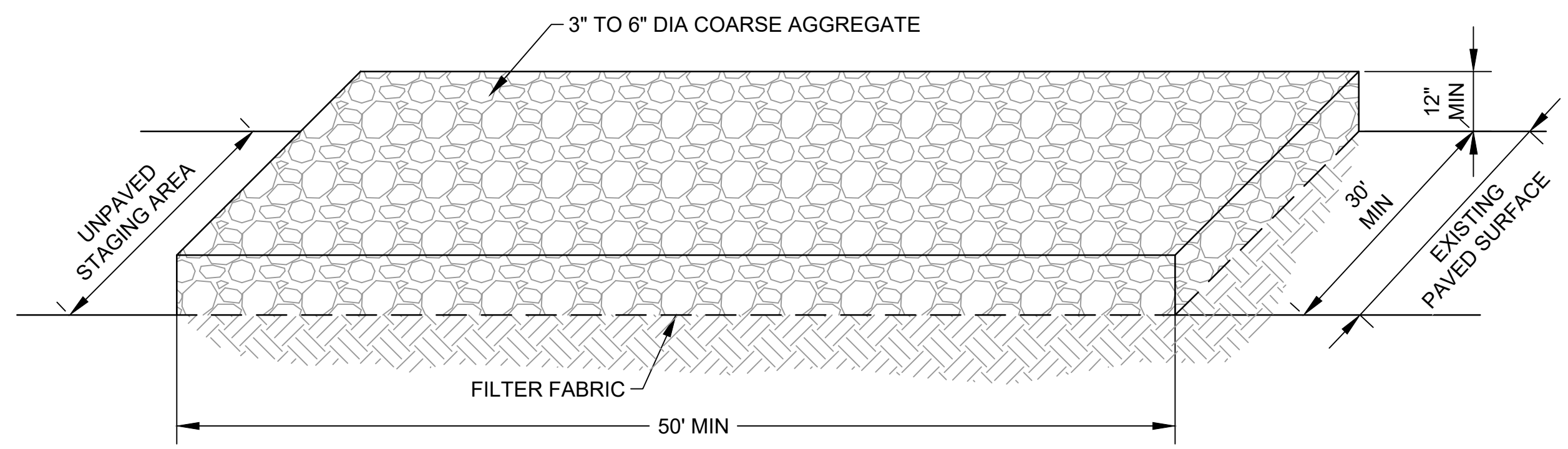
NOTE:
1. EXACT LOCATION OF CONTRACTOR STAGING AREA TO BE COORDINATED WITH AIRPORT OPERATIONS.



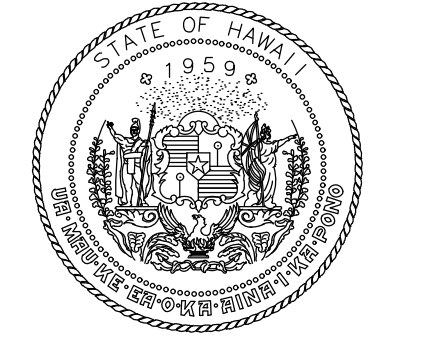
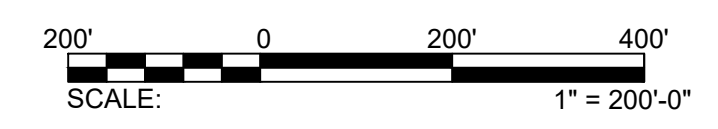
1
G-104 COMPOST FILTER SOCK
SCALE: NTS



2
G-104 INLET PROTECTION
SCALE: NTS



3
G-104 STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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

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SEPTEMBER 23, 2022
DATE

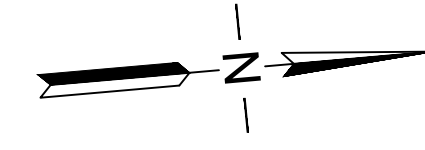
PROJECT TITLE :
APRON IMPROVEMENTS
AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

PROJECT NO.:
AH2023-17

SHEET TITLE:
EROSION CONTROL PLAN AND DETAILS

| | |
|----------------|----------|
| DATE : | DWG. NO. |
| 09/23/2022 | G-104 |
| SHEET : | |
| 4 OF 12 SHEETS | |

C:\USERS\JBERTO\ORON ENGINEERS & ASSOCIATES\HSDOT_MISC\AIRFIELD DESIGN SERV - 18-KOA-APRON IMPROVEMENTS\102 ENGINEERING\G05_DRAWING\AH2023-17_02-EROSION PLAN\INDET.DWG

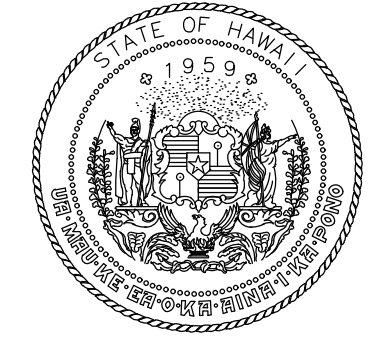


SPOT 8

TWY A

SPOT 7

SPOT 6



Airports Division
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STATE OF HAWAII



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Expiration Date

| | | | |
|-------|-------|-------|-------|
| DSGN. | DRWN. | CHKD. | APPD. |
| AC | AT | TR | SH |

KEY PLAN / NOTES:



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

CONSTRUCTION DOCUMENTS
SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS

AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

PROJECT NO.:

AH2023-17

SHEET TITLE:

**EXISTING CONDITIONS
AND DEMOLITION
PLAN 1**

DATE :

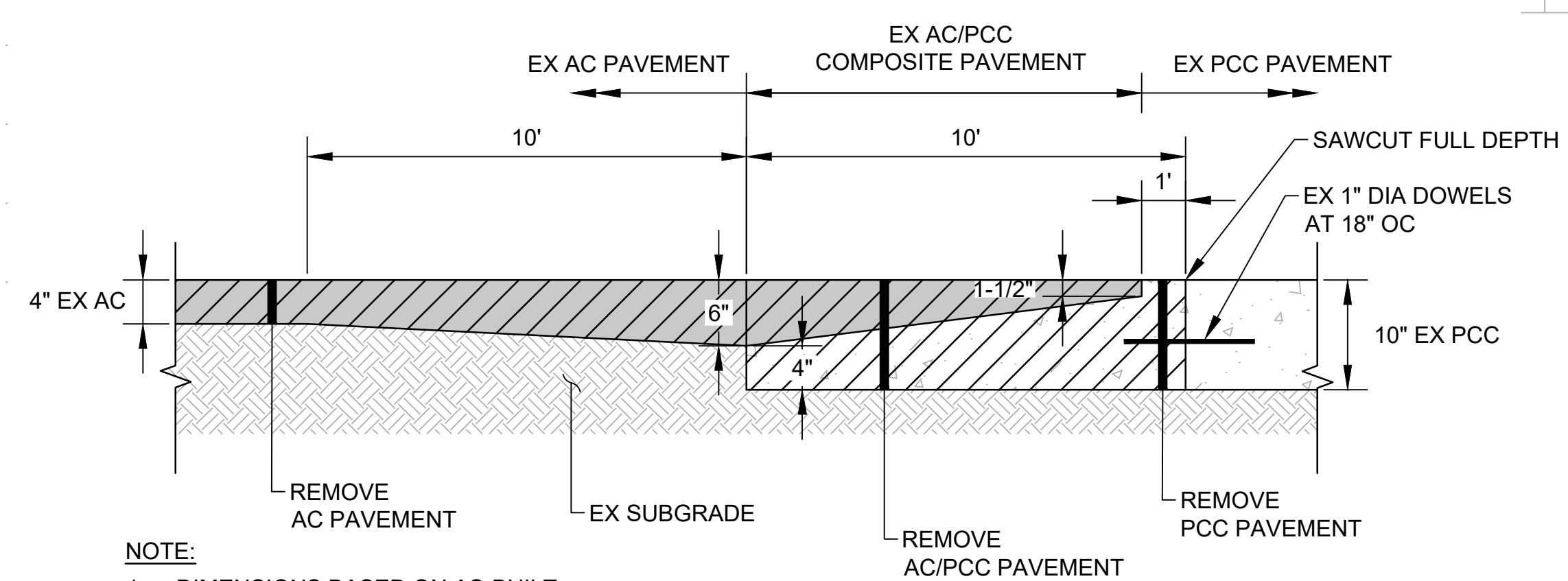
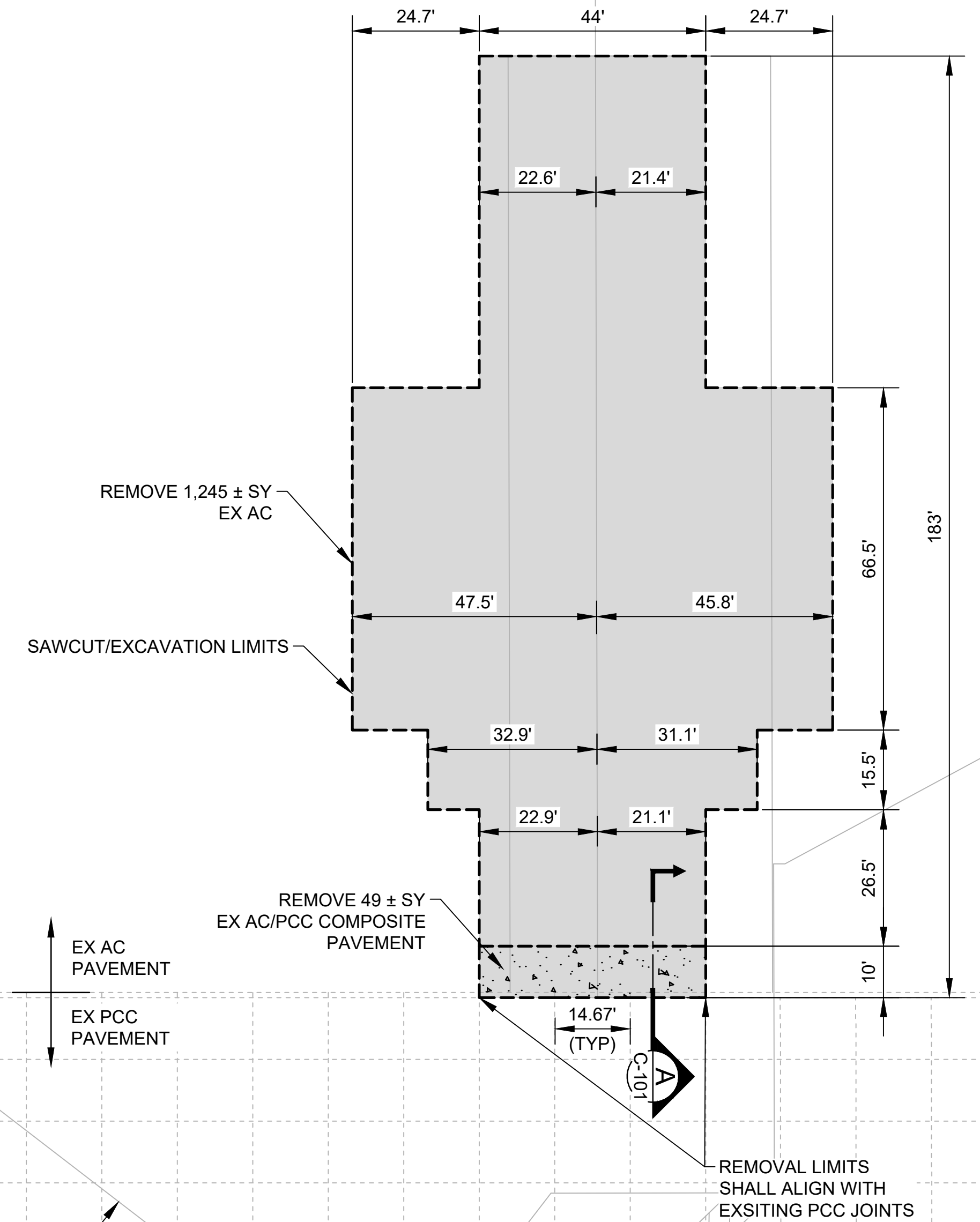
09/23/2022

SHEET :

5 OF 12 SHEETS

DWG. NO.

C-101



NOTE:
1. DIMENSIONS BASED ON AS-BUILT RECORDS, ACTUAL THICKNESS MAY VARY.

LEGEND:

- AC PAVEMENT REMOVAL (4" TO 6" DEPTH)
- AC/PCC COMPOSITE PAVEMENT REMOVAL (10" DEPTH)

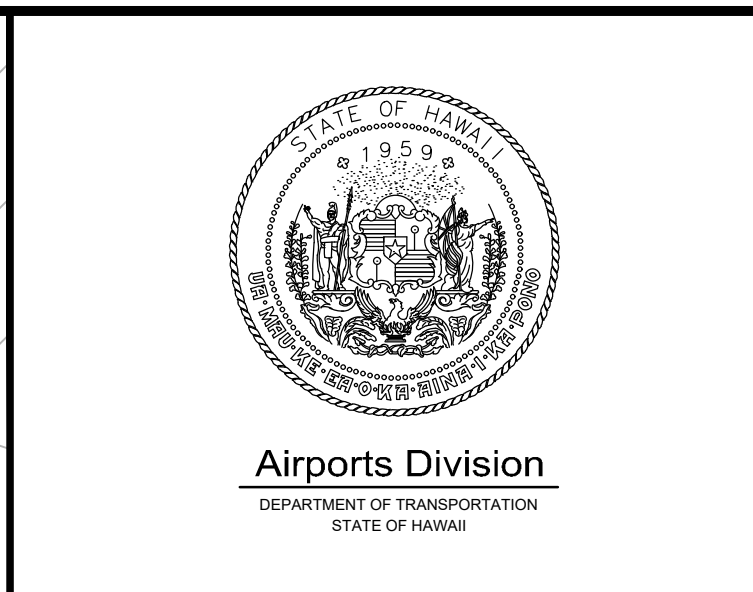
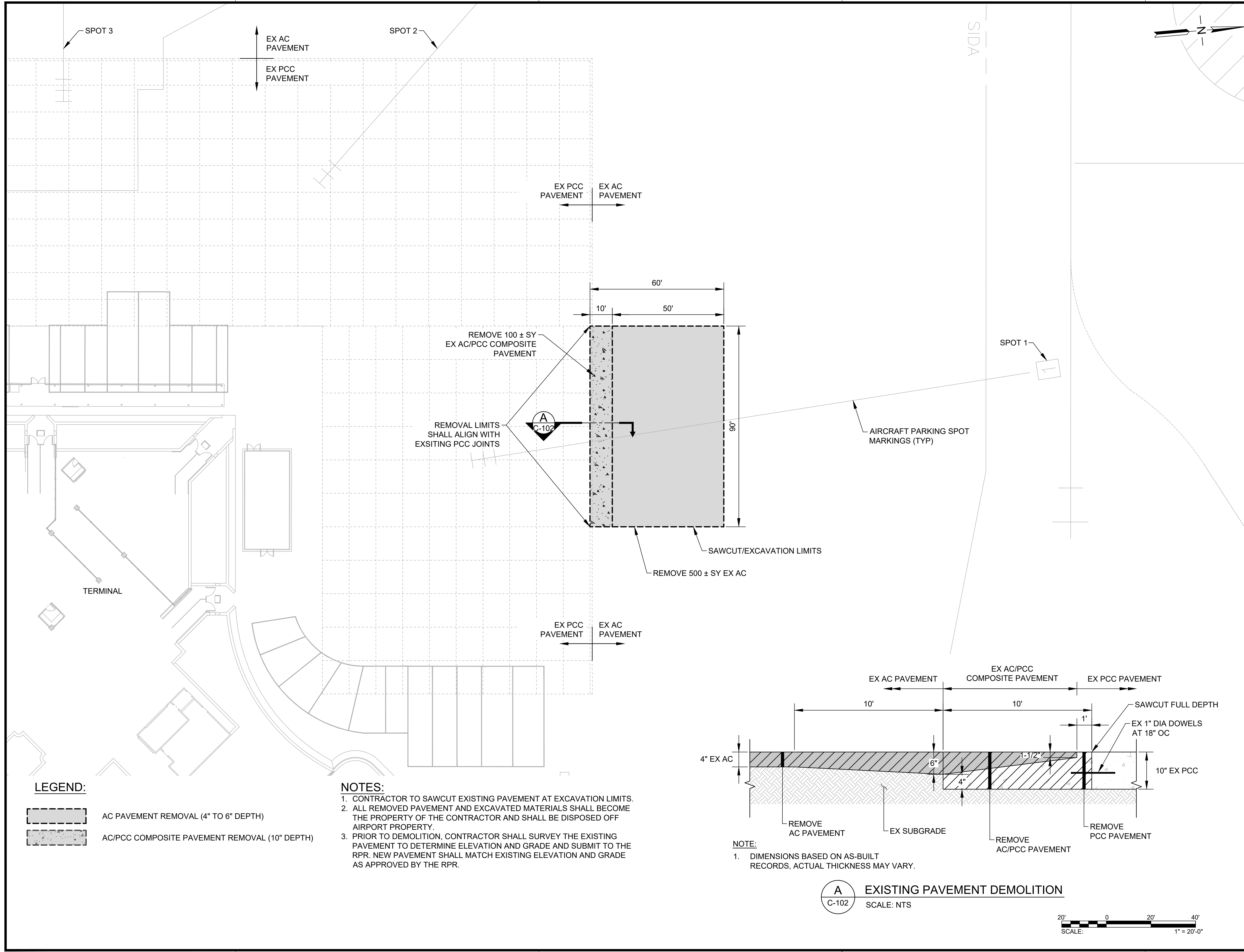
NOTES:

1. CONTRACTOR TO SAWCUT EXISTING PAVEMENT AT EXCAVATION LIMITS.
2. ALL REMOVED PAVEMENT AND EXCAVATED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OFF AIRPORT PROPERTY.
3. PRIOR TO DEMOLITION, CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT TO DETERMINE ELEVATION AND GRADE AND SUBMIT TO THE RPR. NEW PAVEMENT SHALL MATCH EXISTING ELEVATION AND GRADE AS APPROVED BY THE RPR.

A
C-101 **EXISTING PAVEMENT DEMOLITION**
SCALE: NTS



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 Expiration Date

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| AC | AT | TR | SH |

KEY PLAN / NOTES:



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

CONSTRUCTION DOCUMENTS
 SEPTEMBER 23, 2022
 DATE

PROJECT TITLE :

APRON IMPROVEMENTS
 AT
 ELLISON ONIZUKA
 KONA INTERNATIONAL AIRPORT AT KEAHOLE
 KAILUA-KONA, HAWAII

PROJECT NO.:



AH2023-17

SHEET TITLE:

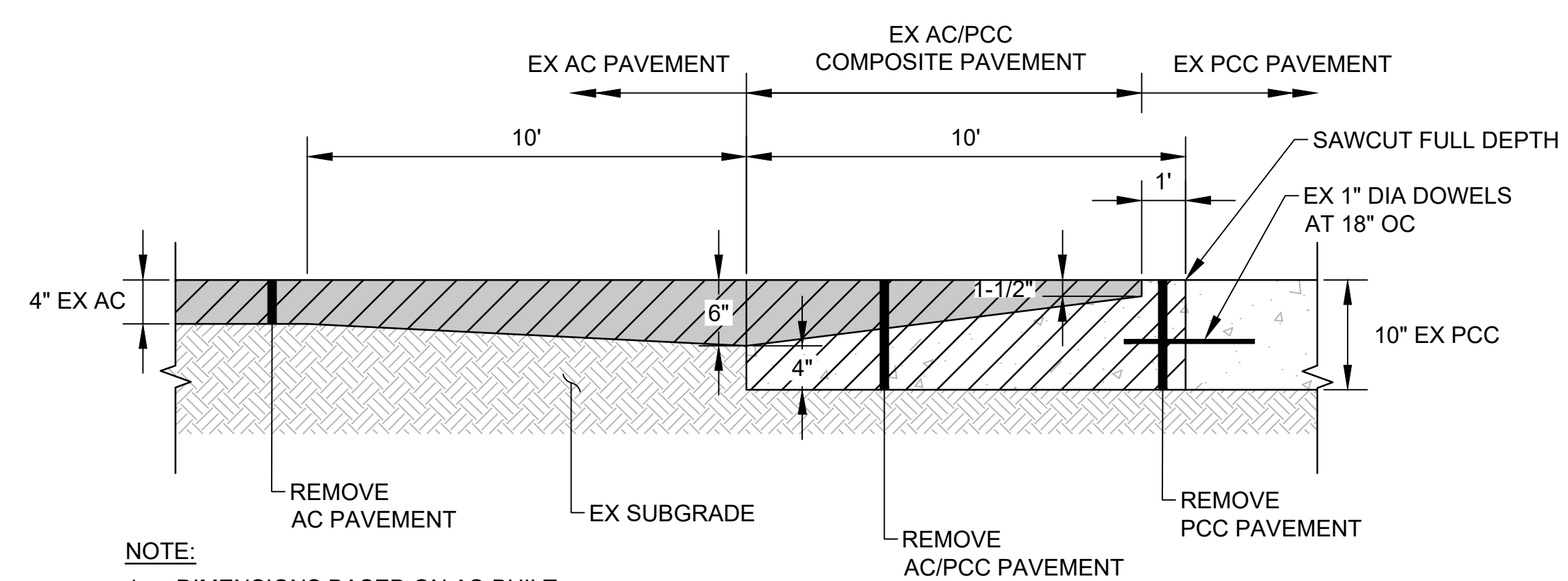
**EXISTING CONDITIONS
 AND DEMOLITION
 PLAN 2**

| | |
|----------------|----------|
| DATE : | DWG. NO. |
| 09/23/2022 | C-102 |
| SHEET : | |
| 6 OF 12 SHEETS | |

LEGEND:

 AC PAVEMENT REMOVAL (4" TO 6" DEPTH)
 AC/PCC COMPOSITE PAVEMENT REMOVAL (10" DEPTH)

- NOTES:**
- CONTRACTOR TO SAWCUT EXISTING PAVEMENT AT EXCAVATION LIMITS.
 - ALL REMOVED PAVEMENT AND EXCAVATED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OFF AIRPORT PROPERTY.
 - PRIOR TO DEMOLITION, CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT TO DETERMINE ELEVATION AND GRADE AND SUBMIT TO THE RPR. NEW PAVEMENT SHALL MATCH EXISTING ELEVATION AND GRADE AS APPROVED BY THE RPR.

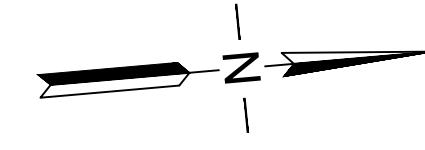


NOTE:
 1. DIMENSIONS BASED ON AS-BUILT RECORDS, ACTUAL THICKNESS MAY VARY.

(A) EXISTING PAVEMENT DEMOLITION
 SCALE: NTS



C:\USERS\BENTON\ORION ENGINEERS & ASSOCIATES\HSDOT_MISC AIRFIELD DESIGN SERV - 18-KOA\APRON IMPROVEMENTS\02 ENGINEERING\05 DRAWING\AH2023-17_02-EXIST-DEMO.DWG

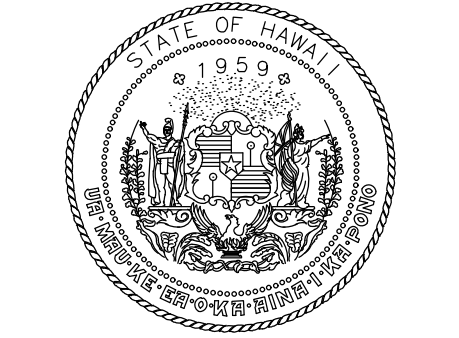


SPOT 8

TWY A

SPOT 7

SPOT 6



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DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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Expiration Date

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| DSGN. | DRWN. | CHKD. | APPD. |
| AC | AT | TR | SH |

KEY PLAN / NOTES:



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

CONSTRUCTION DOCUMENTS
SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS

AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

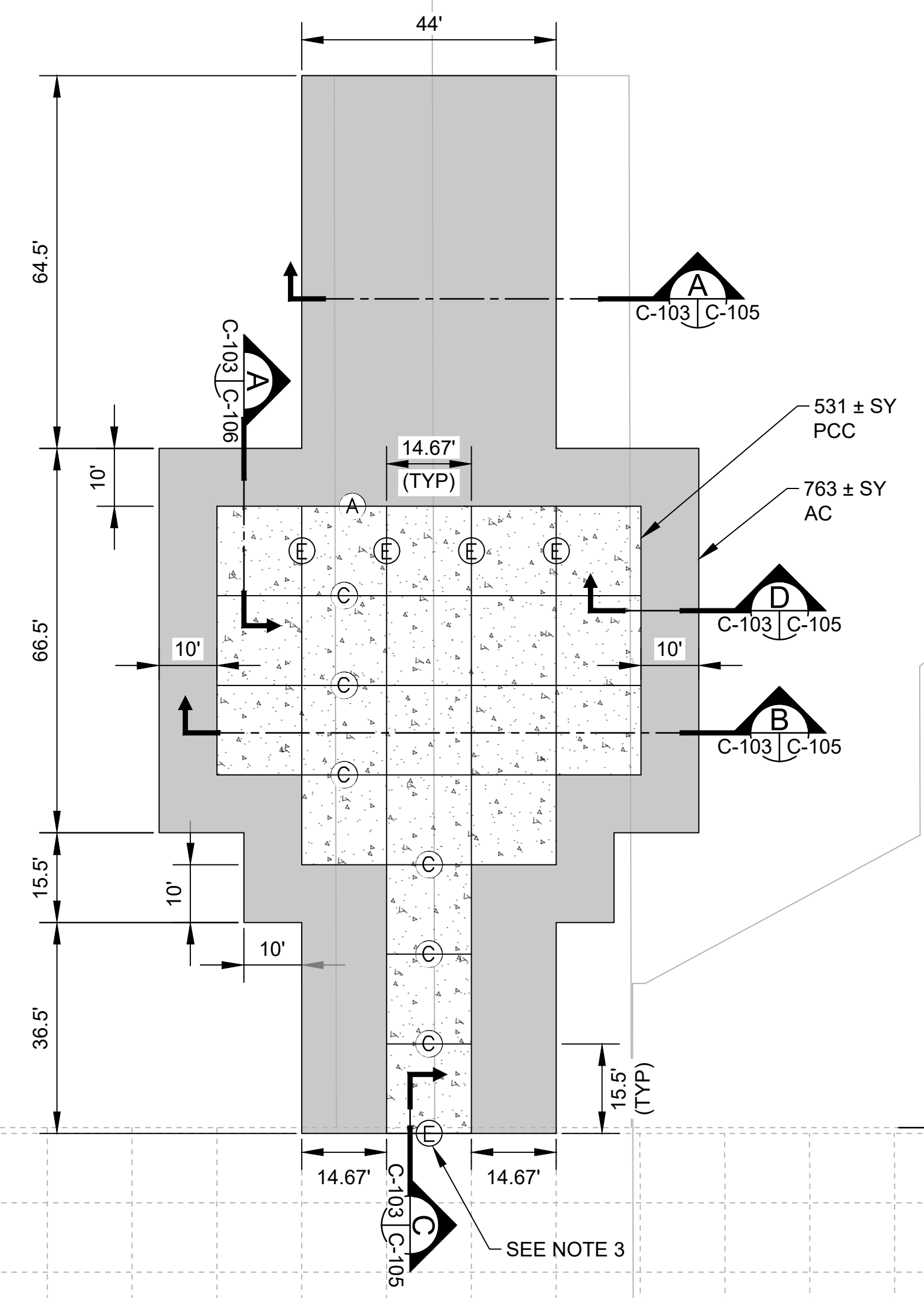
PROJECT NO.:

AH2023-17

SHEET TITLE:

PAVING LAYOUT PLAN
1

| | |
|----------------|----------|
| DATE : | DWG. NO. |
| 09/23/2022 | C-103 |
| SHEET : | |
| 7 OF 12 SHEETS | |



EX AC PAVEMENT
EX PCC PAVEMENT

EX AC PAVEMENT
EX PCC PAVEMENT

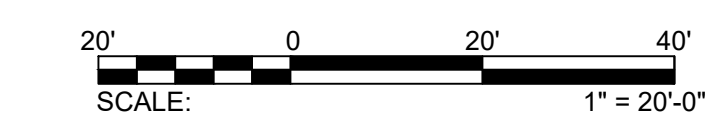
SEE NOTE 3

LEGEND:

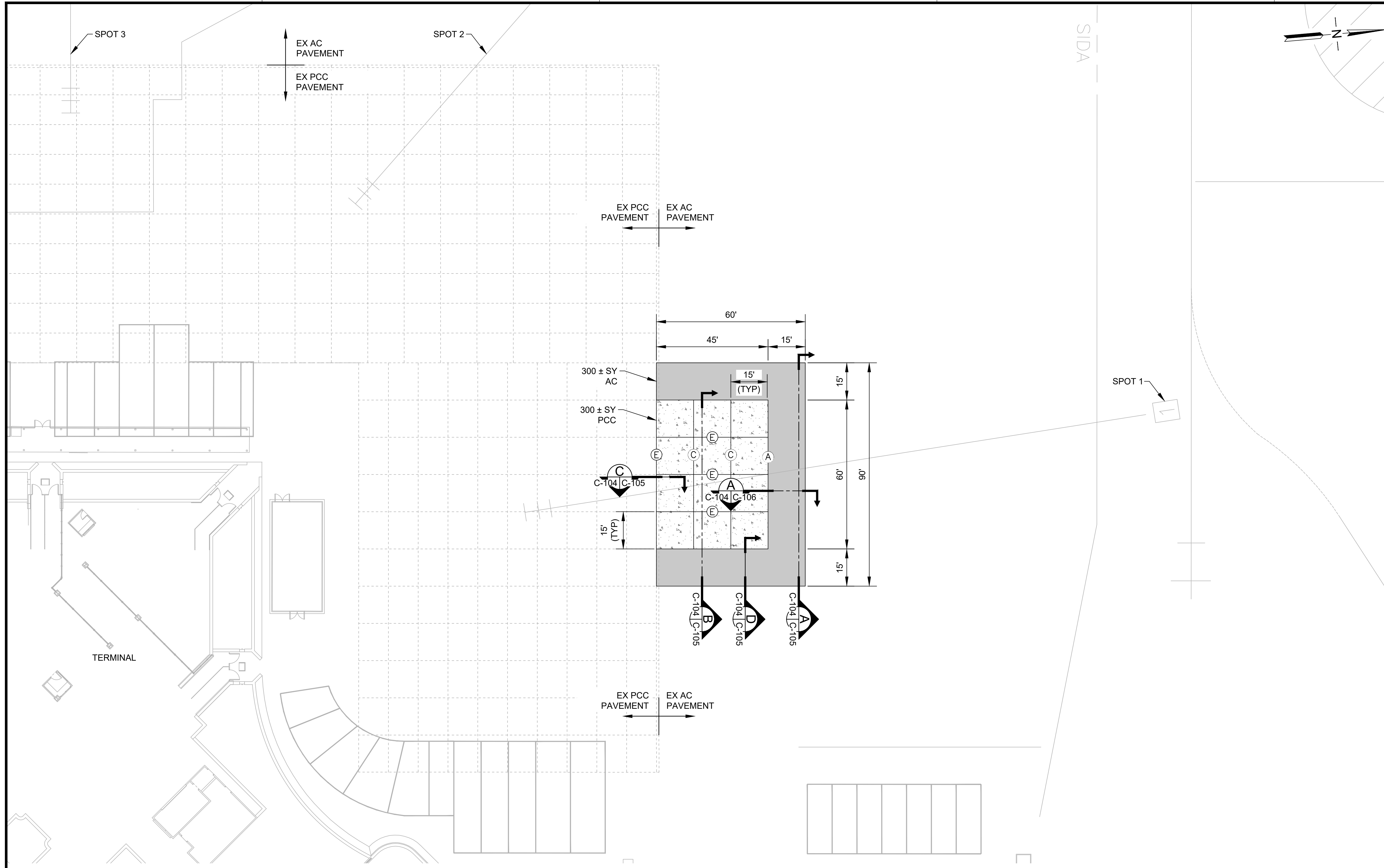
- NEW AC PAVEMENT
- NEW PCC PAVEMENT
- PCC JOINT TYPE

NOTE:


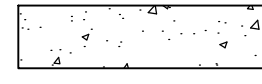

1. PRIOR TO DEMOLITION, CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT TO DETERMINE ELEVATION AND GRADE AND SUBMIT TO THE RPR. NEW PAVEMENT SHALL MATCH EXISTING ELEVATION AND GRADE AS APPROVED BY THE RPR.
2. SEE PAVING DETAILS SHEET FOR JOINT TYPE DETAILS.
3. AT CONNECTION TO EXISTING PCC, NEW DOWELS SHALL BE SPACED AT 18" OC AND LOCATED AT LEAST 6" AWAY FROM EXISTING DOWELS.



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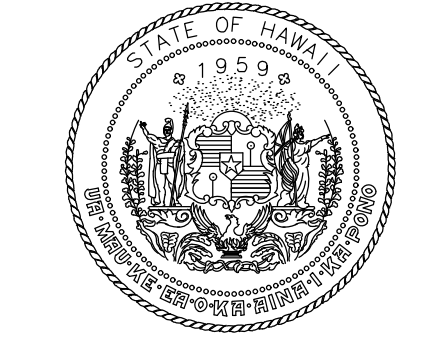


LEGEND:

-  NEW AC PAVEMENT
-  NEW PCC PAVEMENT
-  PCC JOINT TYPE

NOTE:

1. PRIOR TO DEMOLITION, CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT TO DETERMINE ELEVATION AND GRADE AND SUBMIT TO THE RPR. NEW PAVEMENT SHALL MATCH EXISTING ELEVATION AND GRADE AS APPROVED BY THE RPR.
2. SEE PAVING DETAILS SHEET FOR JOINT TYPE DETAILS.
3. AT CONNECTION TO EXISTING PCC, NEW DOWELS SHALL BE SPACED AT 18" OC AND LOCATED AT LEAST 6" AWAY FROM EXISTING DOWELS.



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| AC | AT | TR | SH |

KEY PLAN / NOTES:



| NO. | DATE | REVISIONS |
|-----|------|-----------|
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CONSTRUCTION DOCUMENTS
SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS

AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

PROJECT NO.:

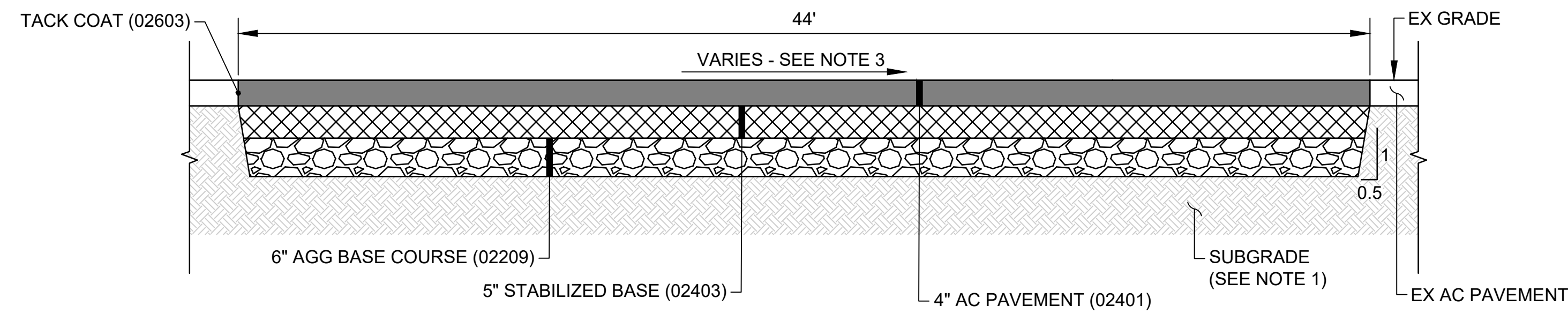
AH2023-17

SHEET TITLE:

**PAVING LAYOUT PLAN
2**

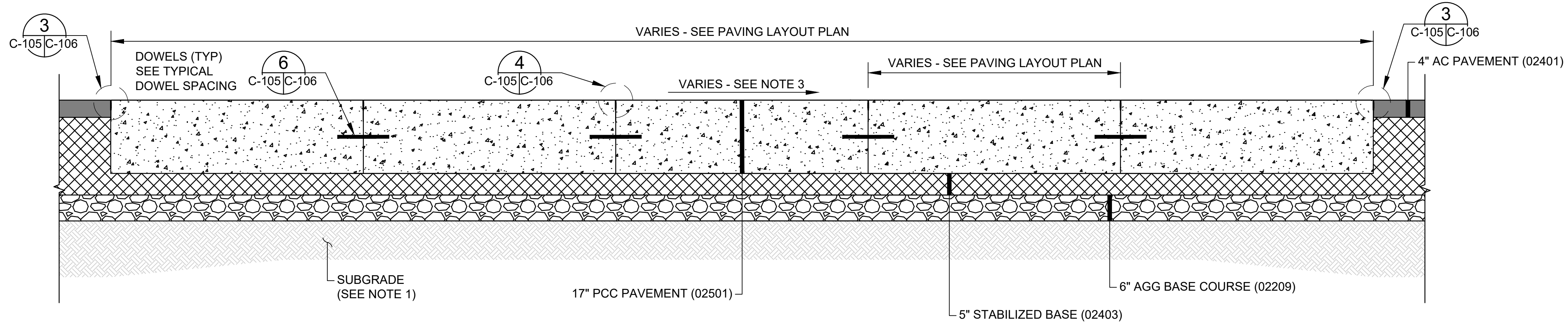
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|----------------|----------|
| DATE : | DWG. NO. |
| 09/23/2022 | C-104 |
| SHEET : | |
| 8 OF 12 SHEETS | |

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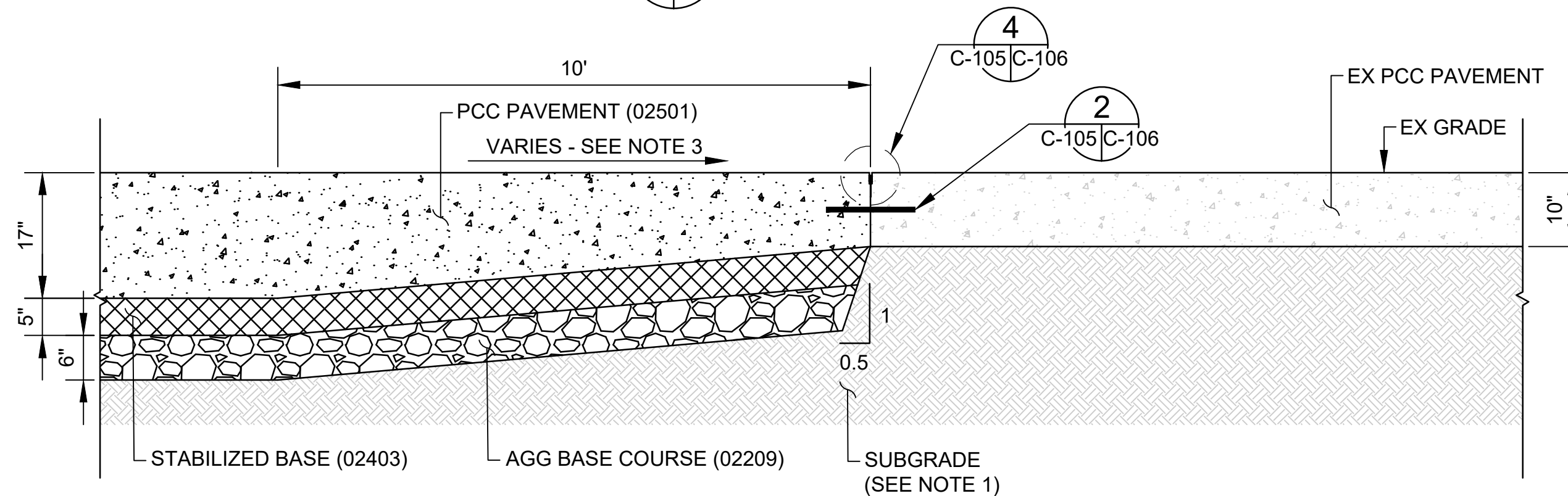


A NEW AC APRON
C-103 | C-105 SCALE: NTS

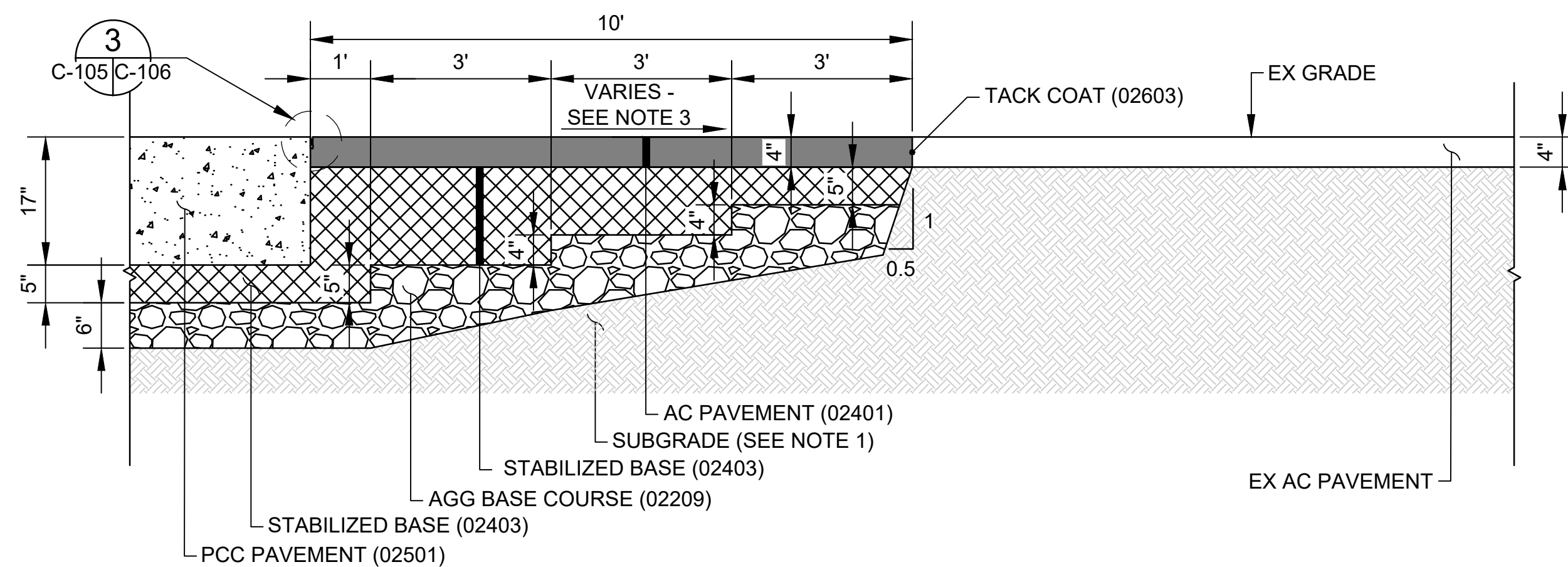
- NOTE:**
- EXISTING SUBGRADE UNDER NEW PAVEMENT SHALL BE 95% MAXIMUM DENSITY. CONTRACTOR TO PREPARE SUBGRADE PER SPEC 02152 IF EXISTING SUBGRADE IS LESS THAN 95% DENSITY.
 - AT CONNECTION TO EXISTING PCC, NEW DOWELS SHALL BE SPACED AT 18" OC AND LOCATED AT LEAST 6" AWAY FROM EXISTING DOWELS.
 - PRIOR TO DEMOLITION, CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT TO DETERMINE ELEVATION AND GRADE AND SUBMIT TO THE RPR. NEW PAVEMENT SHALL MATCH EXISTING ELEVATION AND GRADE AS APPROVED BY THE RPR.



B NEW PCC APRON
C-103 | C-105 SCALE: NTS



C NEW PCC TO EXISTING PCC
C-103 | C-105 SCALE: NTS



D PCC TO AC PAVEMENT TRANSITION
C-103 | C-105 SCALE: NTS



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| AC | AT | TR | SH |

KEY PLAN / NOTES:

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

CONSTRUCTION DOCUMENTS
SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS

AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

PROJECT NO.:

AH2023-17

SHEET TITLE:

PAVEMENT SECTION

DATE :

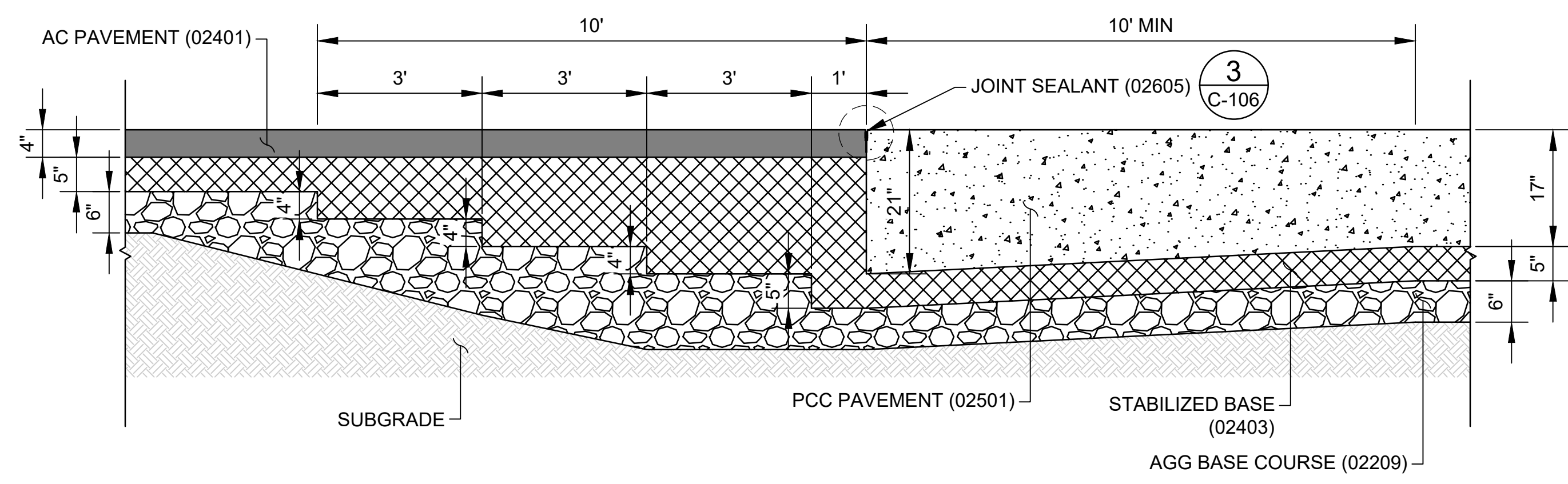
09/23/2022

SHEET :

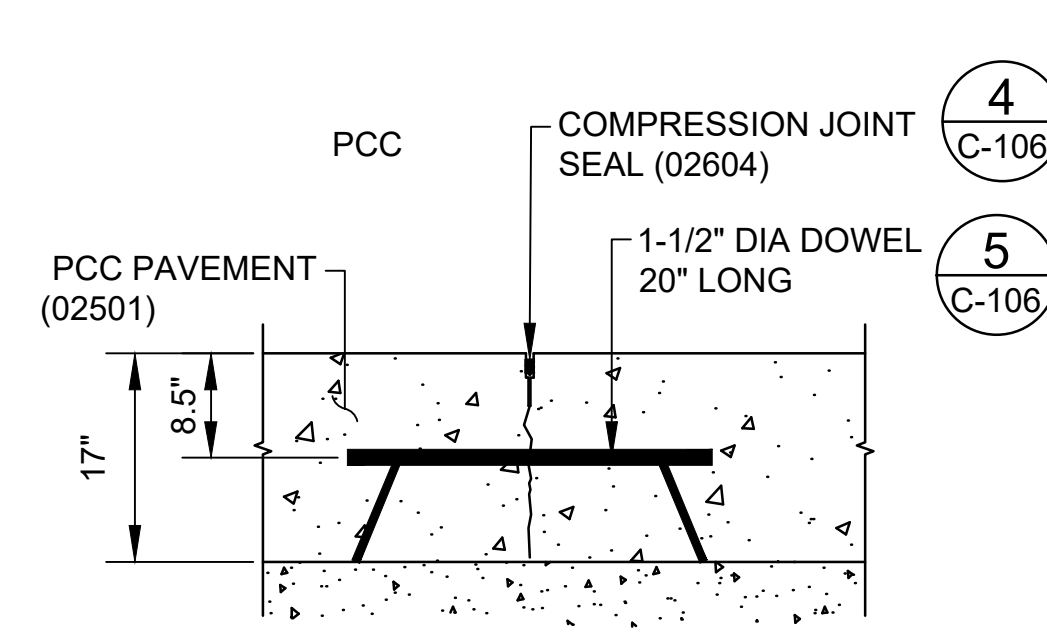
9 OF 12 SHEETS

DWG. NO.

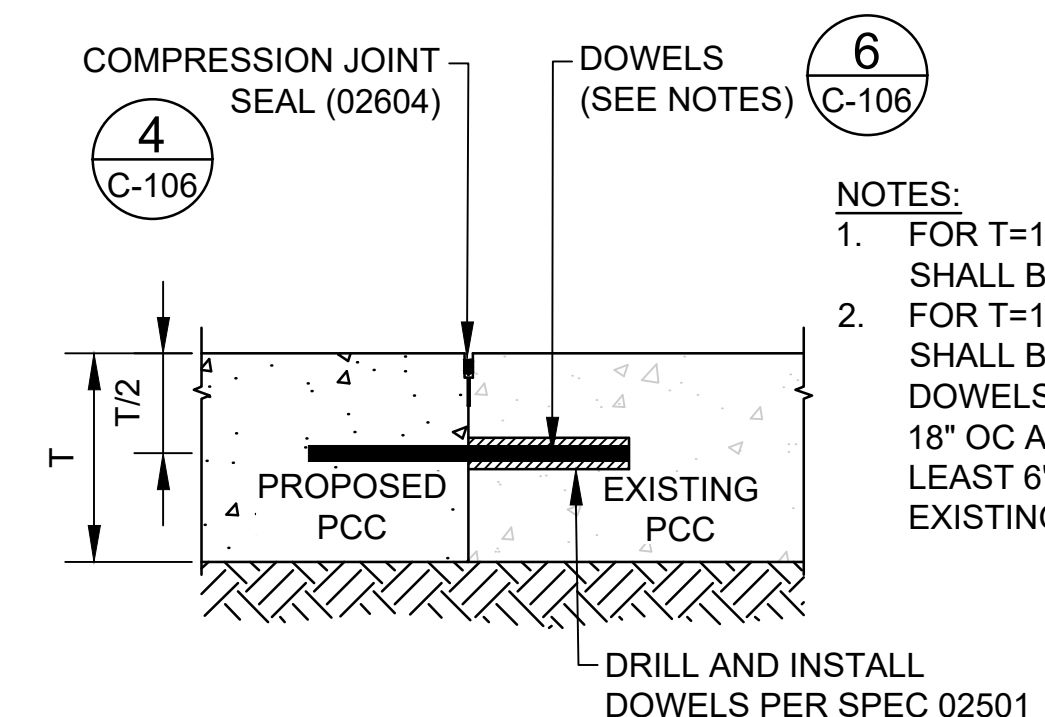
C-105



A THICKENED EDGE ISOLATION JOINT - TYPE A
C-103 | C-106 SCALE: NTS

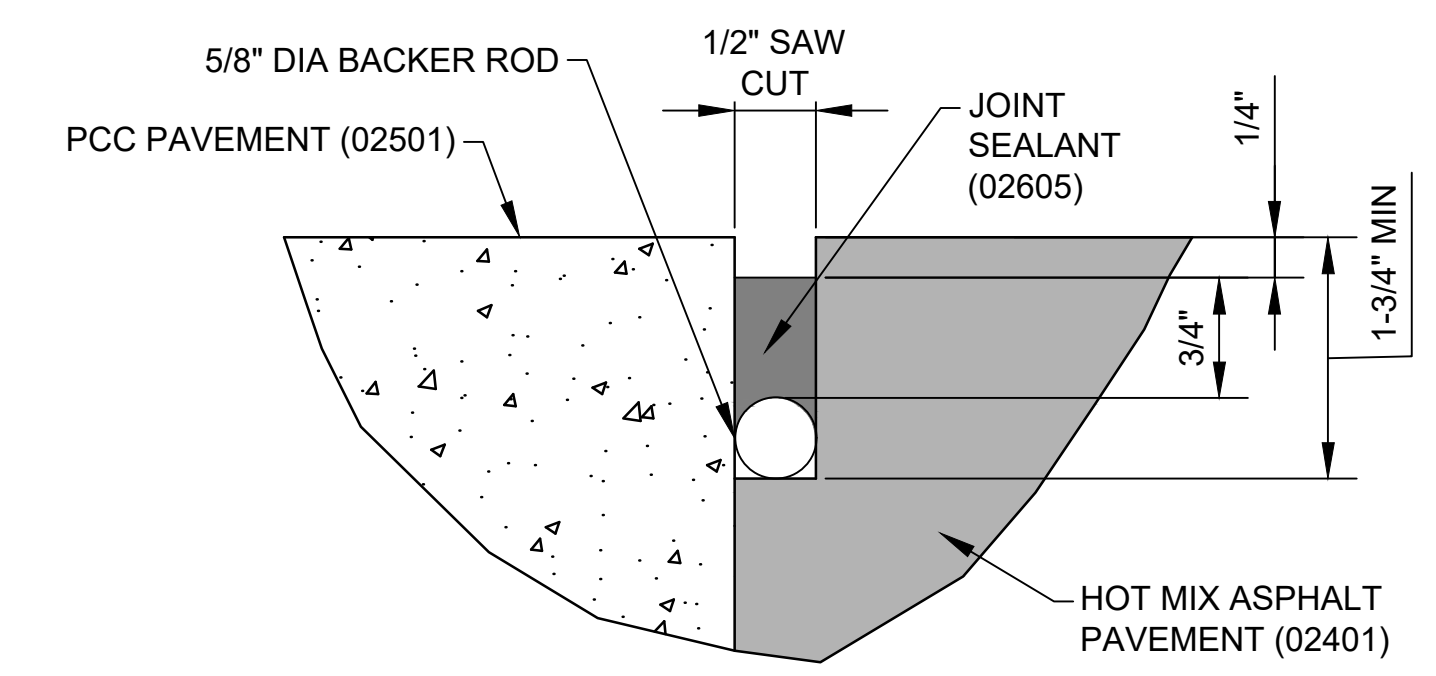


1 CONTRACTION JOINT - TYPE C
C-103 | C-106 SCALE: NTS

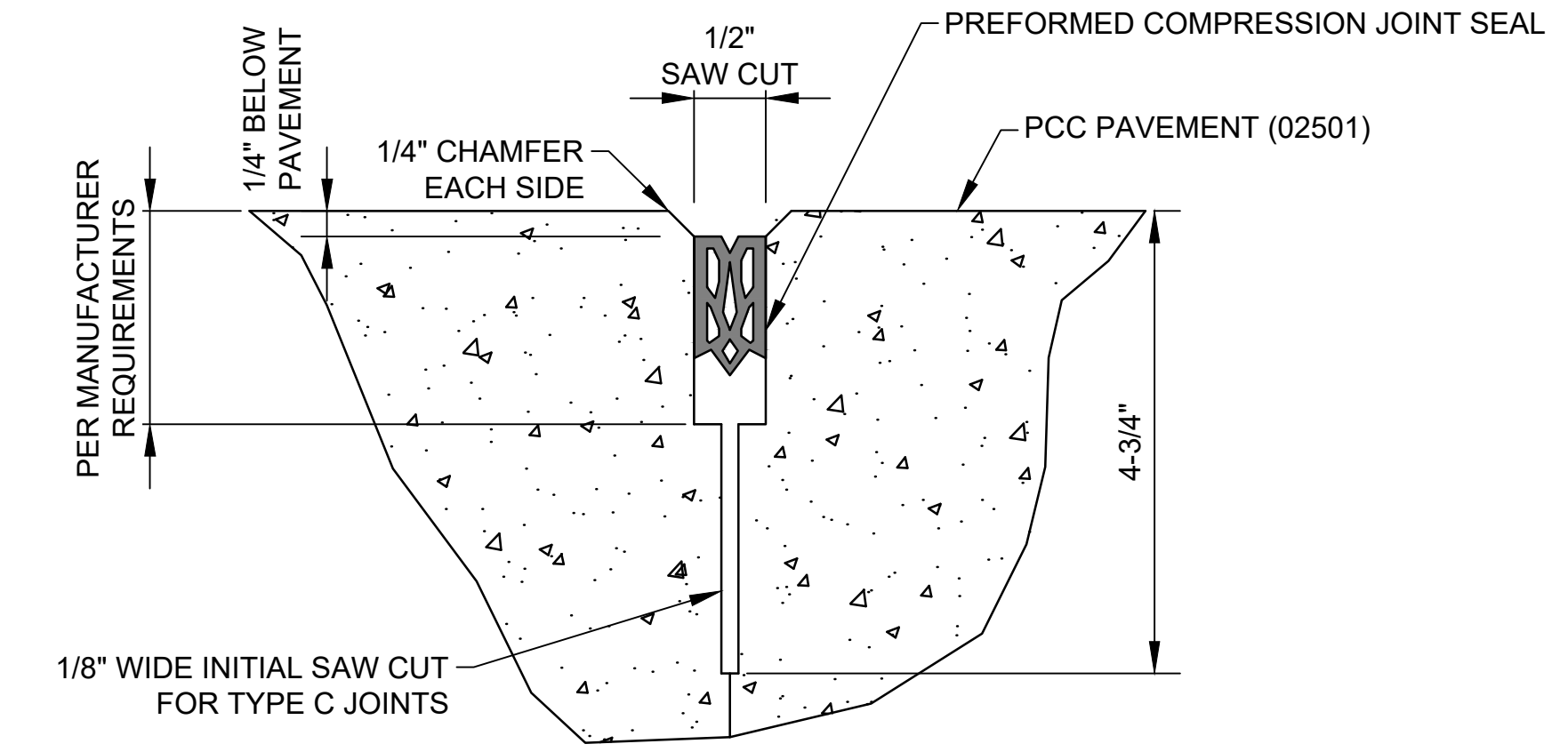


2 CONSTRUCTION JOINT - TYPE E
C-103 | C-106 SCALE: NTS

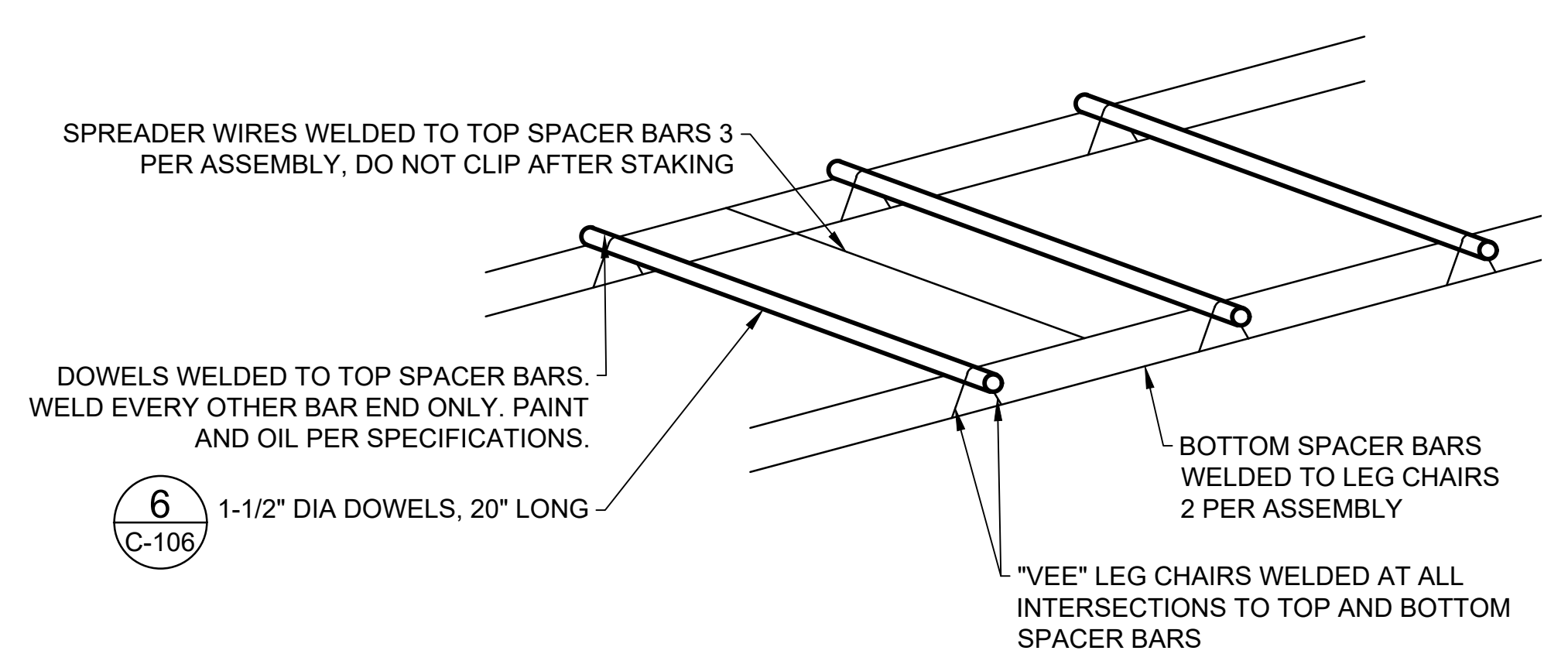
NOTES:
1. FOR T=17" PCC, DOWELS SHALL BE 1-1/2" DIA, 20" LONG.
2. FOR T=10" PCC, DOWELS SHALL BE 1" DIA, 18" LONG. DOWELS SHALL BE SPACED AT 18" OC AND LOCATED AT LEAST 6" AWAY FROM EXISTING DOWELS.



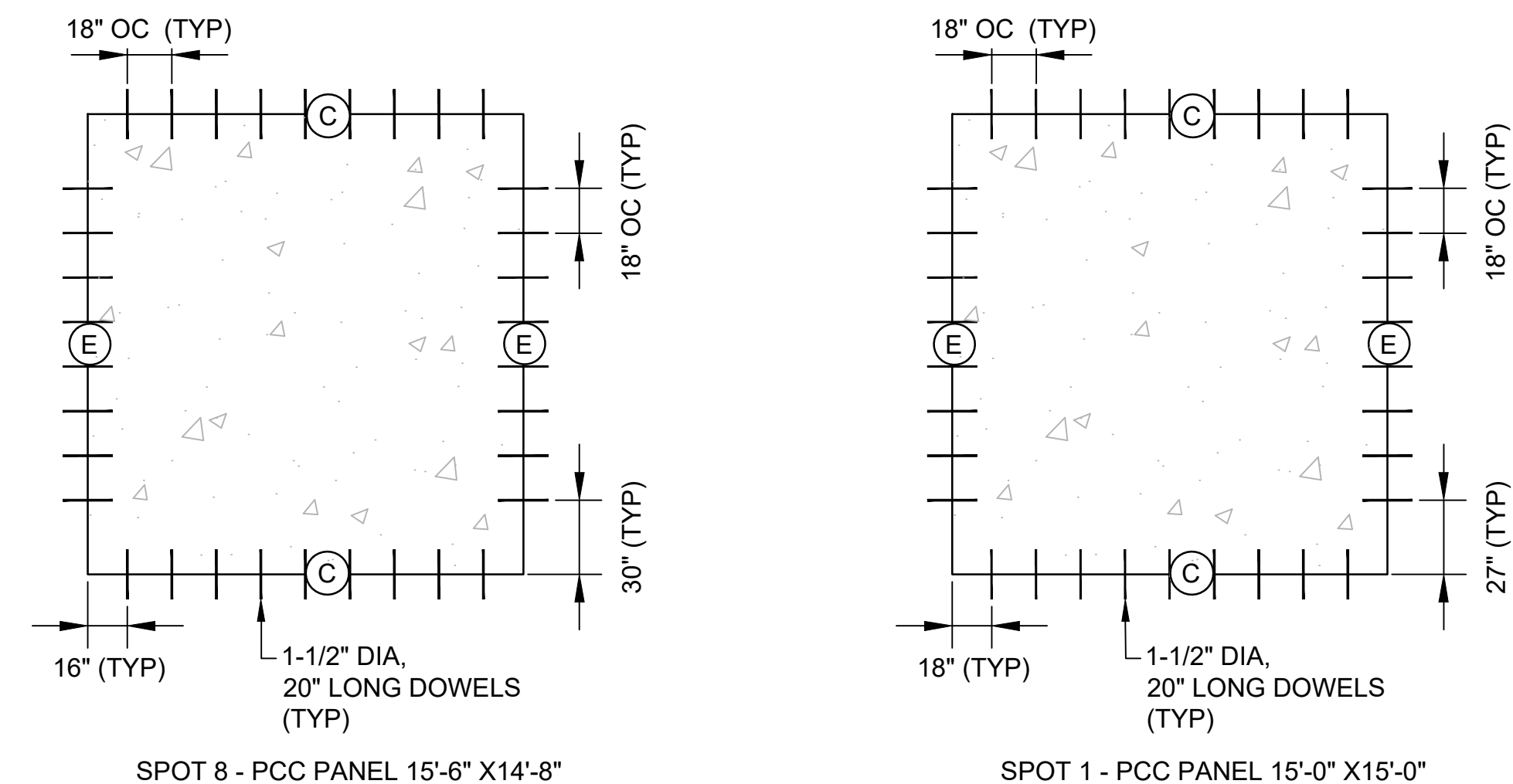
3 JOINT SEALANT DETAIL
C-105, C-106 | C-106 SCALE: NTS



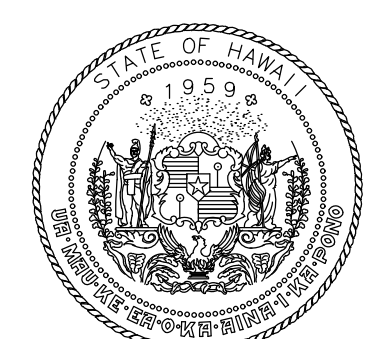
4 COMPRESSION JOINT SEAL DETAIL
C-105, C-106 | C-106 SCALE: NTS



5 TYPICAL DOWEL ASSEMBLY
C-106 SCALE: NTS



6 TYPICAL DOWEL SPACING
C-106 SCALE: NTS



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| AC | AT | TR | SH |

KEY PLAN / NOTES:

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

CONSTRUCTION DOCUMENTS
SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS

AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

PROJECT NO.:

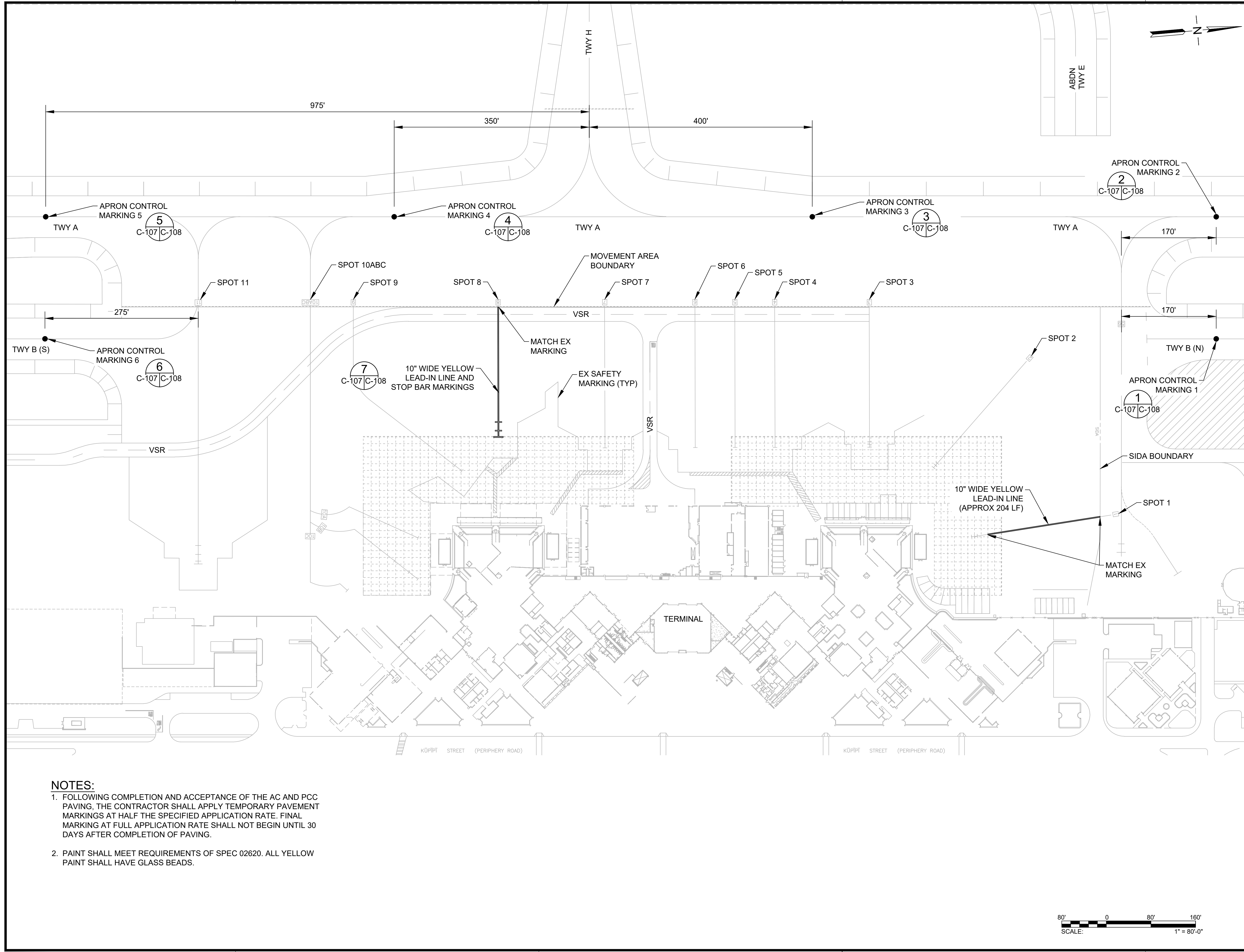
AH2023-17

SHEET TITLE:

PAVING DETAILS

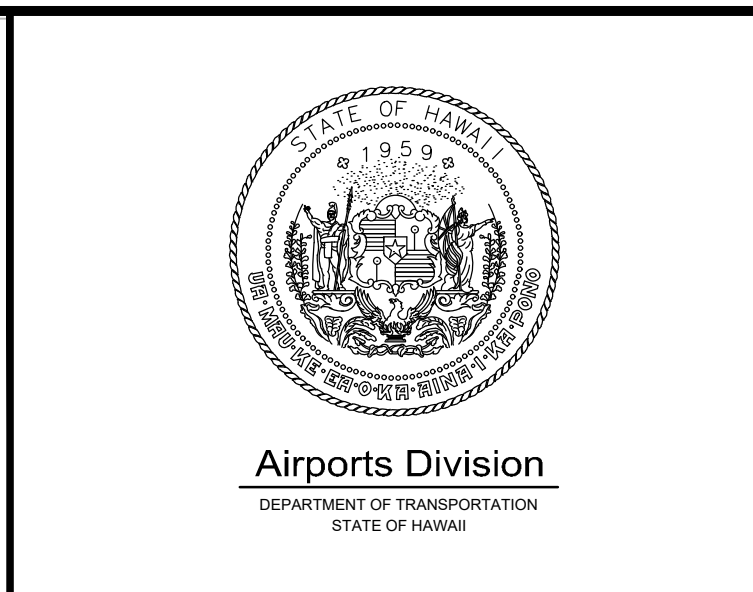
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|------------|-----------------|
| DATE : | DWG. NO. |
| 09/23/2022 | C-106 |
| SHEET : | 10 OF 12 SHEETS |


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NOTES:

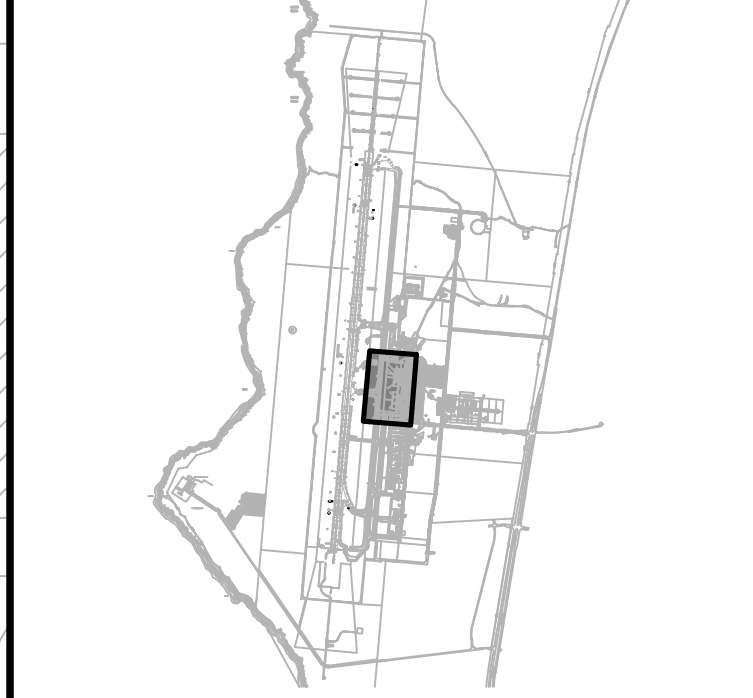
1. FOLLOWING COMPLETION AND ACCEPTANCE OF THE AC AND PCC PAVING, THE CONTRACTOR SHALL APPLY TEMPORARY PAVEMENT MARKINGS AT HALF THE SPECIFIED APPLICATION RATE. FINAL MARKING AT FULL APPLICATION RATE SHALL NOT BEGIN UNTIL 30 DAYS AFTER COMPLETION OF PAVING.
2. PAINT SHALL MEET REQUIREMENTS OF SPEC 02620. ALL YELLOW PAINT SHALL HAVE GLASS BEADS.




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 Expiration Date

| | | | |
|-------|-------|-------|-------|
| DSGN. | DRWN. | CHKD. | APPD. |
| AC | AT | TR | SH |

KEY PLAN / NOTES:



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

CONSTRUCTION DOCUMENTS
 SEPTEMBER 23, 2022
 DATE

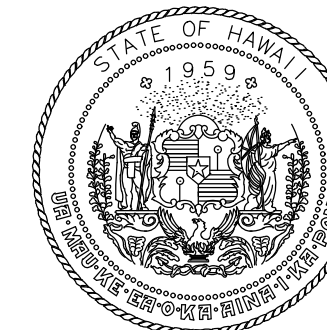
PROJECT TITLE :
APRON IMPROVEMENTS
 AT
 ELLISON ONIZUKA
 KONA INTERNATIONAL AIRPORT AT KEAHOLE
 KAILUA-KONA, HAWAII

PROJECT NO.:
AH2023-17

SHEET TITLE:
PAVEMENT MARKING PLAN

| | |
|-----------------|----------|
| DATE : | DWG. NO. |
| 09/23/2022 | C-107 |
| SHEET : | |
| 11 OF 12 SHEETS | |

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STATE OF HAWAII



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Expiration Date

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|-------|-------|-------|-------|
| DSGN. | DRWN. | CHKD. | APPD. |
| AC | AT | TR | SH |

KEY PLAN / NOTES:



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

CONSTRUCTION DOCUMENTS
SEPTEMBER 23, 2022
DATE

PROJECT TITLE :

APRON IMPROVEMENTS

AT
ELLISON ONIZUKA
KONA INTERNATIONAL AIRPORT AT KEAHOLE
KAILUA-KONA, HAWAII

PROJECT NO.:

AH2023-17

SHEET TITLE:

**PAVEMENT MARKING
DETAILS**

DATE :

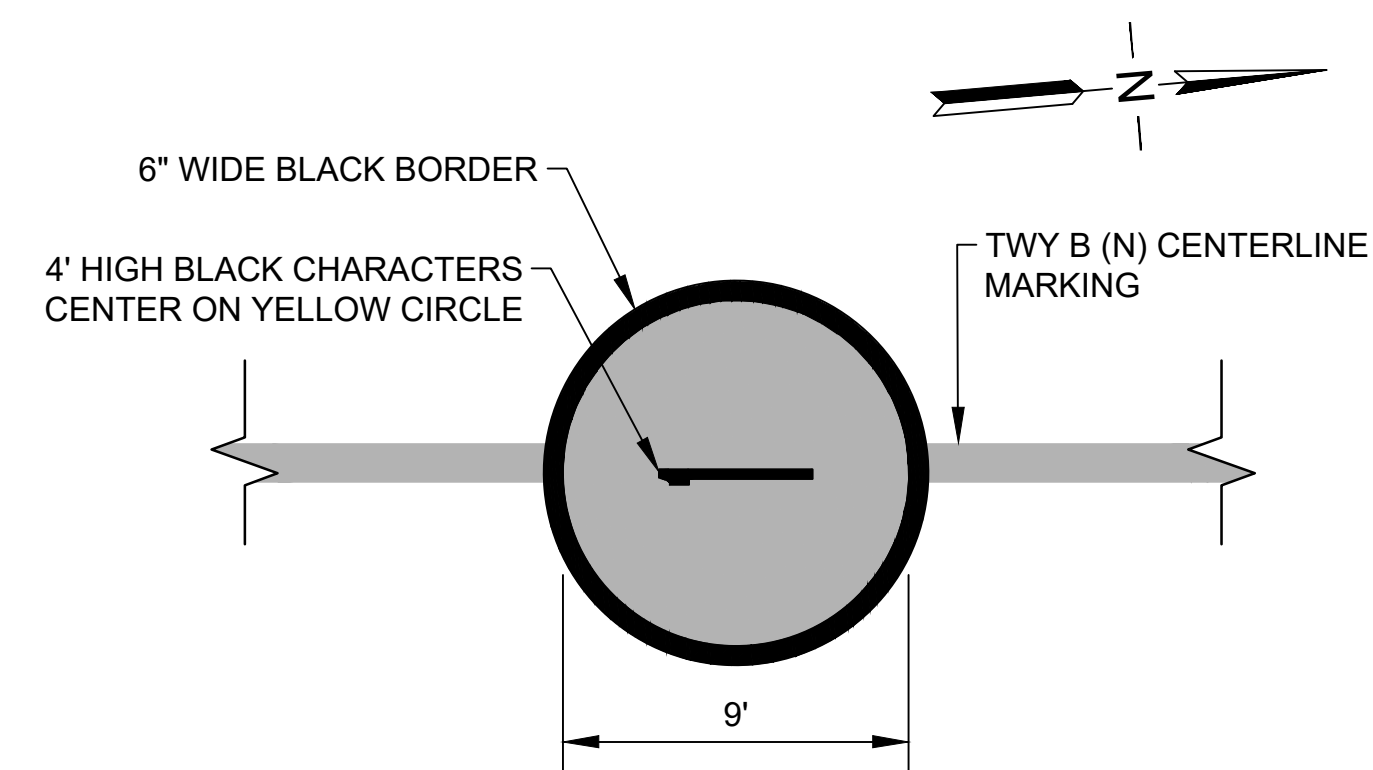
09/23/2022

SHEET :

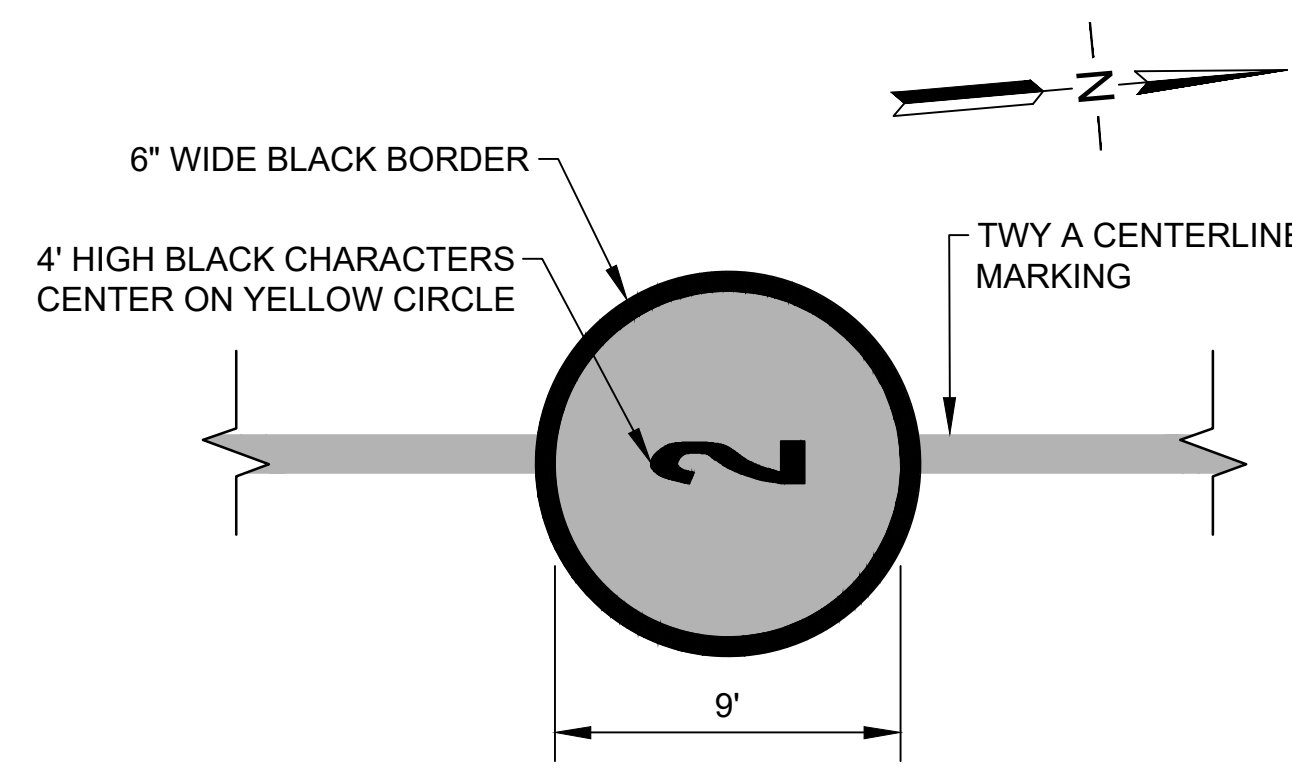
12 OF 12 SHEETS

DWG. NO.

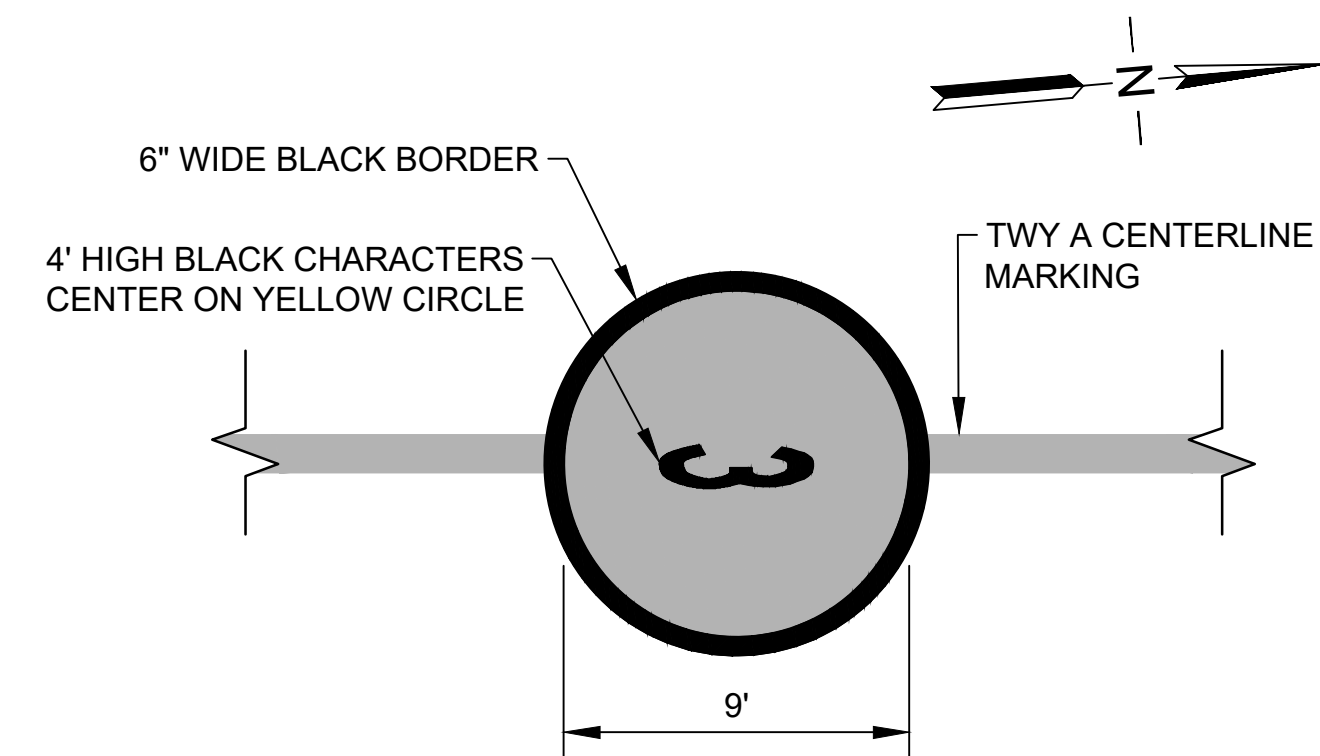
C-108



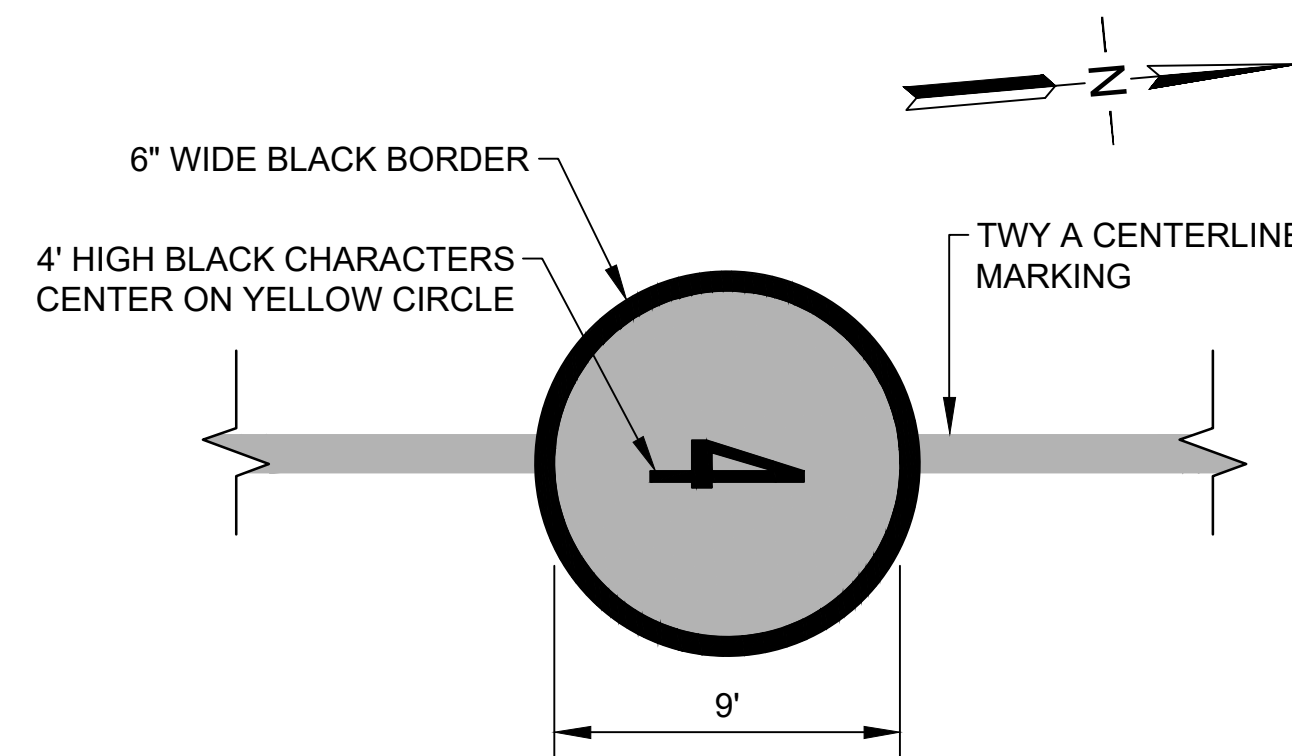
1 APRON CONTROL MARKING 1
C-107 | C-108 SCALE: NTS



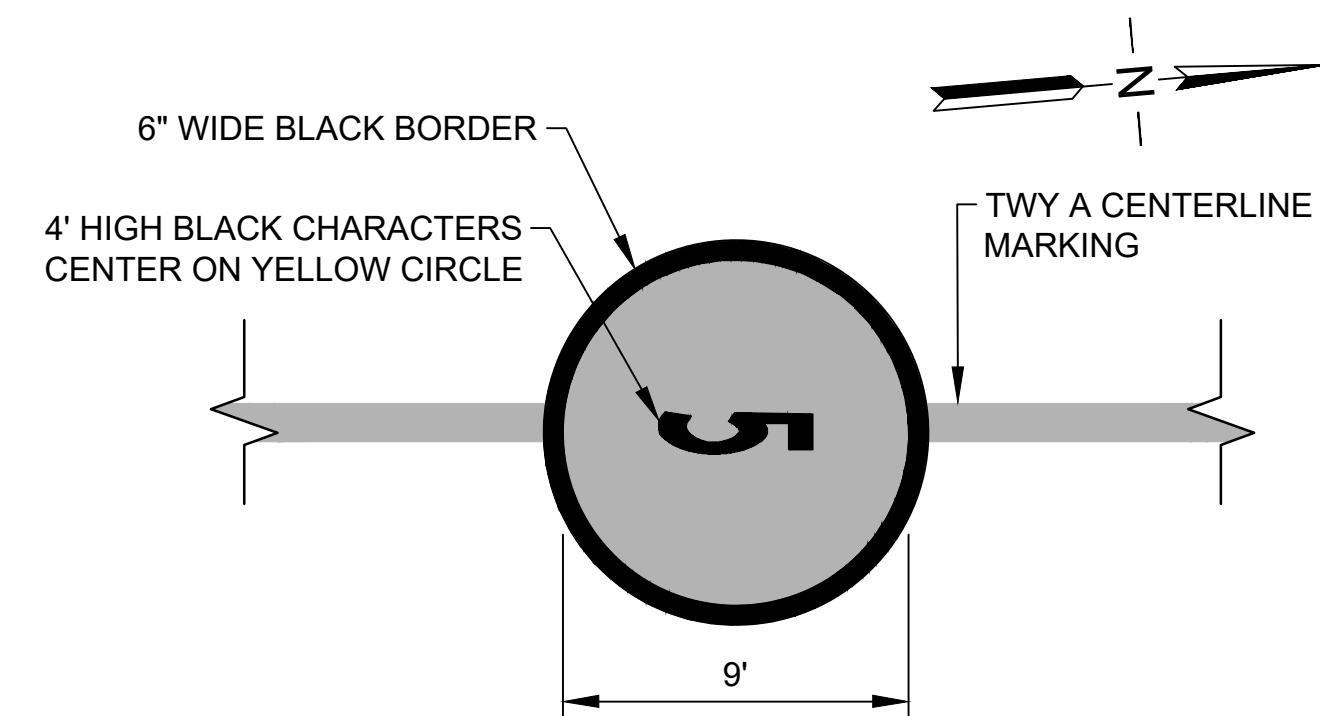
2 APRON CONTROL MARKING 2
C-107 | C-108 SCALE: NTS



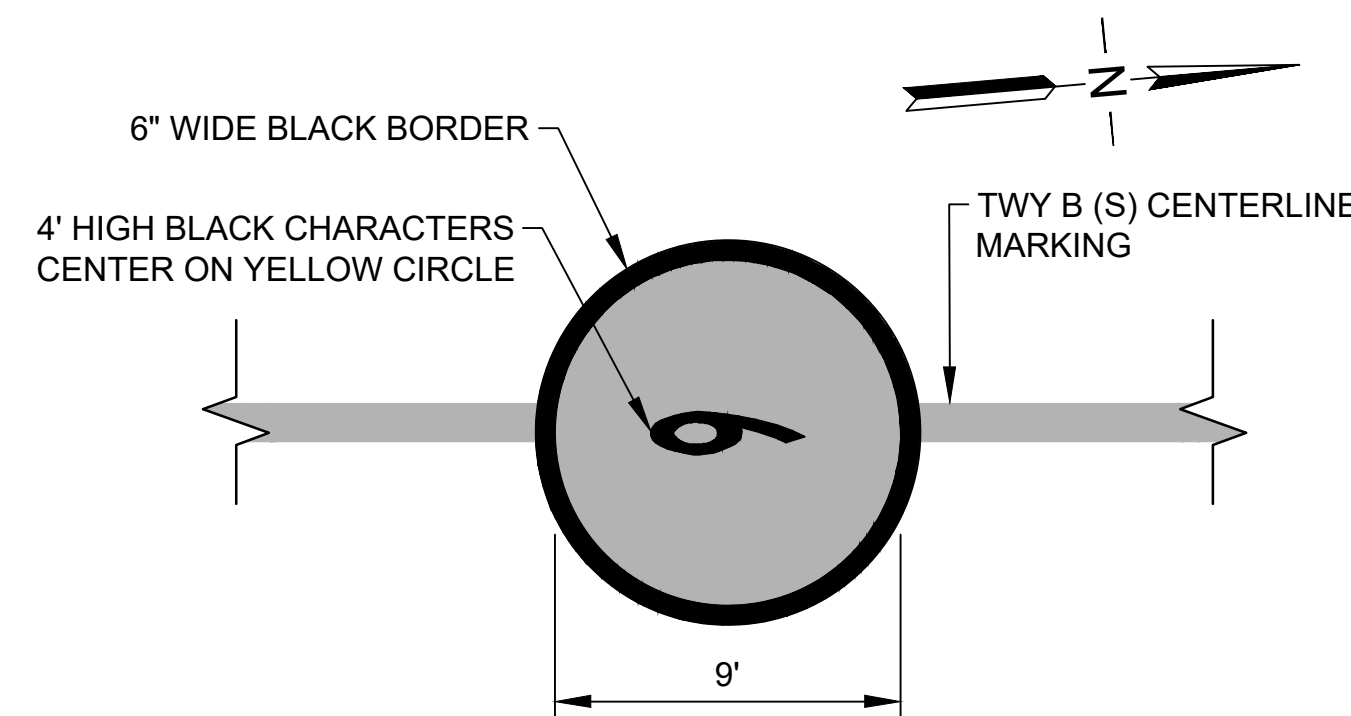
3 APRON CONTROL MARKING 3
C-107 | C-108 SCALE: NTS



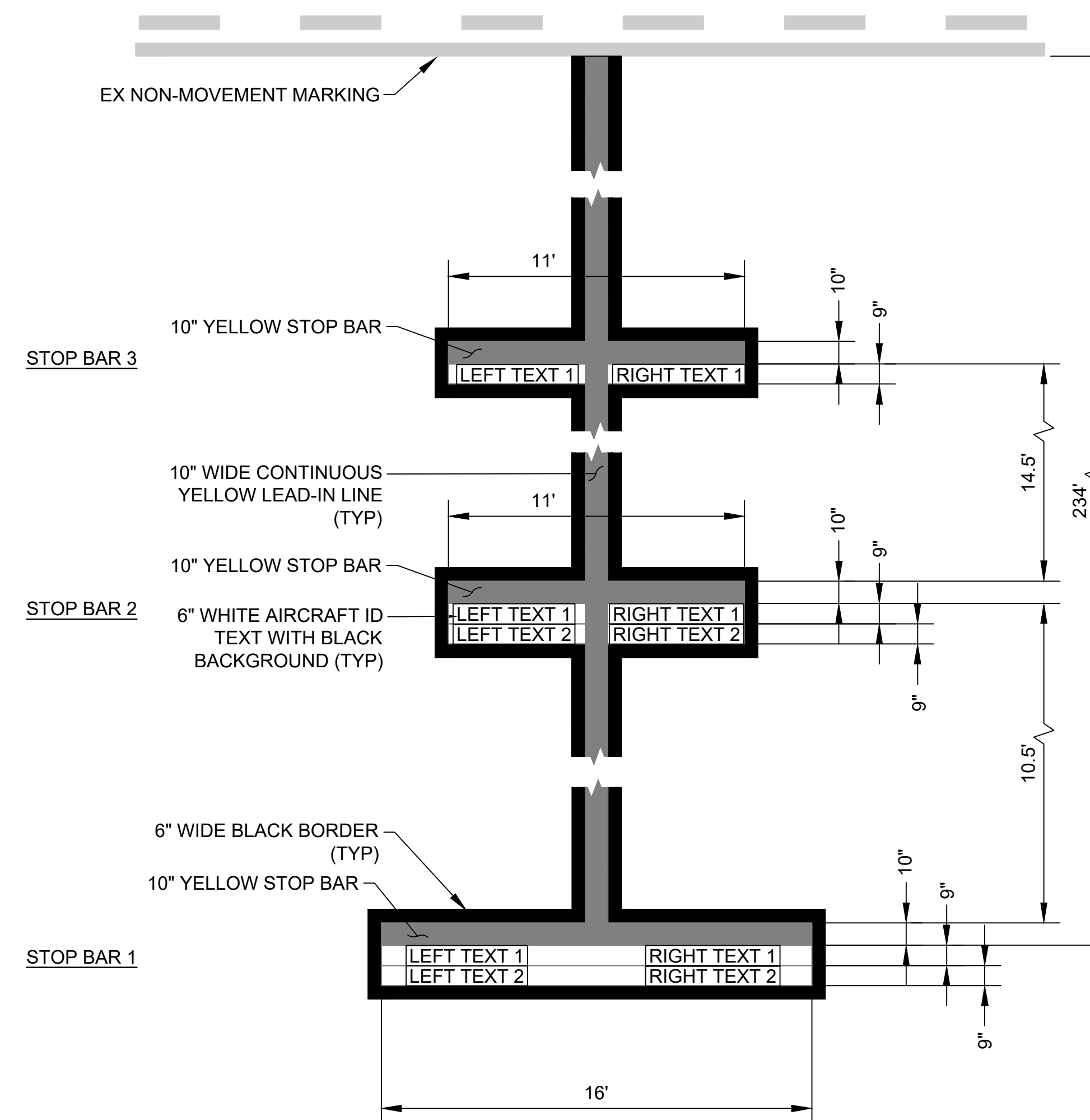
4 APRON CONTROL MARKING 4
C-107 | C-108 SCALE: NTS



5 APRON CONTROL MARKING 5
C-107 | C-108 SCALE: NTS



6 APRON CONTROL MARKING 6
C-107 | C-108 SCALE: NTS



7 SPOT 8 LEAD-IN LINE AND STOP BAR MARKINGS
C-107 | C-108 SCALE: NTS

| STOP BAR | LEFT TEXT 1 | LEFT TEXT 2 | RIGHT TEXT 1 | RIGHT TEXT 2 |
|----------|---------------|----------------------|--------------|--------------|
| 1 | 717-200 | 767-400ER | A321-200/NEO | |
| 2 | 737-700/MAX 7 | 737-800/900/ MAX 8/9 | 757-300 | 767-300ER |
| 3 | A330-200 | | 787-8/9 | |

NOTE:

- CONTRACTOR SHALL PAINT 6-IN HIGH AIRCRAFT STOP BAR ALPHABETS AND NUMERALS ON 9-IN BLACK STOP BAR BORDERS AS SHOWN IN TABLE. AIRCRAFT STOP BAR ALPHABETS AND NUMERALS SHALL BE SIMILAR IN FONT STYLE TO "C.H. HANSEN BRASS INTERLOCKING" STENCILS. STENCILS SHALL BE APPROVED BY AIRPORT OPERATIONS PRIOR TO PAINTING.

C:\USERS\BENTON\ORION ENGINEERS & ASSOCIATES\HSDOT_MISC AIRFIELD DESIGN SERV - 18-KOA-APRON IMPROVEMENTS\102 ENGINEERING\102_DRAWING\AH2023-17_02-PAVE-MARK-PLN.DWG