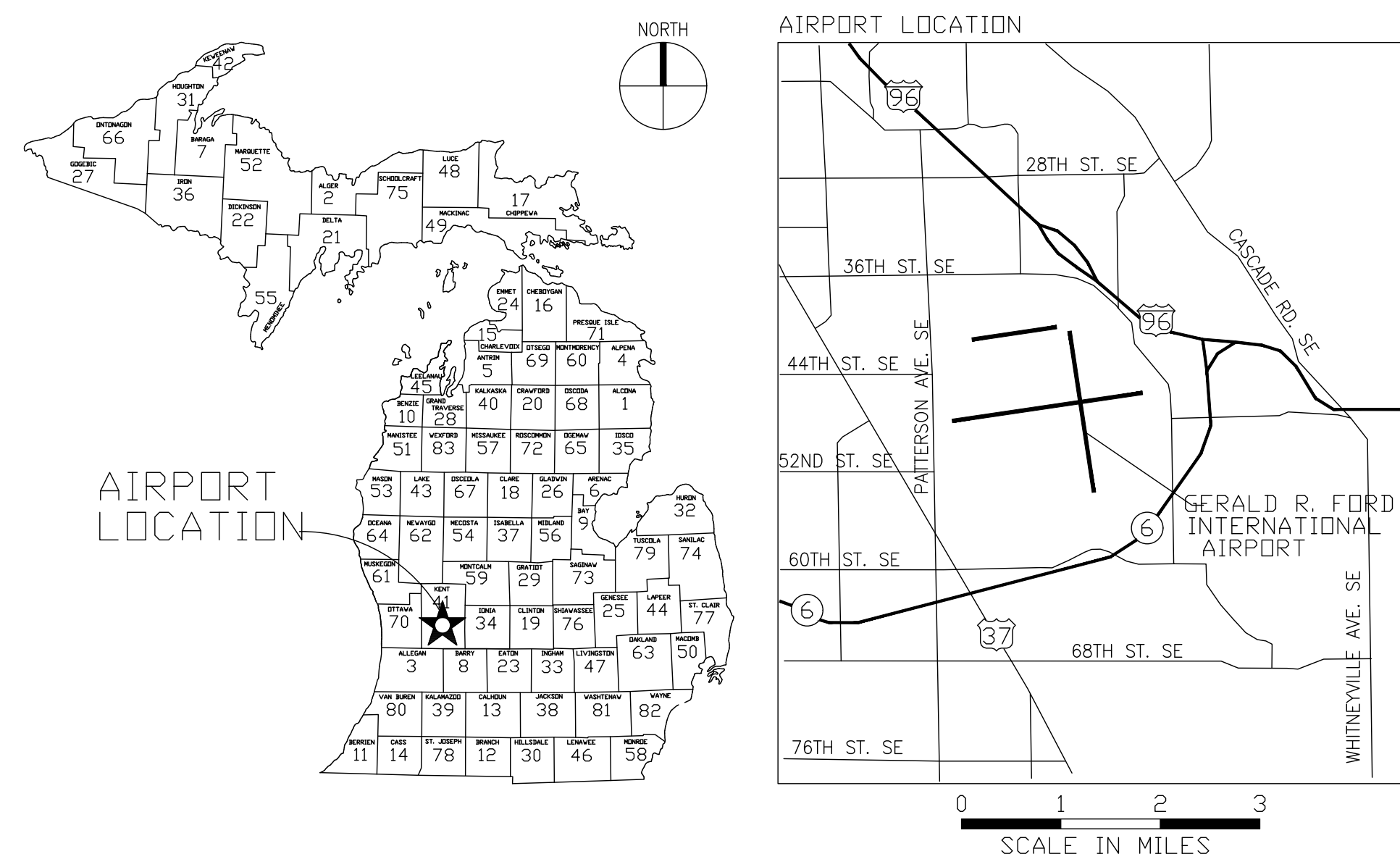




**CONTRACT DRAWINGS
FOR THE CONSTRUCTION OF
AIRSIDE PAVEMENT REPAIRS 2022**

GERALD R. FORD INTERNATIONAL AIRPORT

**GERALD R. FORD INTERNATIONAL AIRPORT AUTHORITY
GRAND RAPIDS, MI**



LOCATION MAP

SHEET	SHEET REFERENCE	TITLE
1	GI001	TITLE SHEET
2	GC101	CONSTRUCTION SAFETY AND PHASING PLAN OVERALL
3	GC102	CONSTRUCTION SAFETY AND PHASING PLAN
5	GC501	DETAILS AND GENERAL NOTES
6	GC502	DETAILS AND GENERAL NOTES

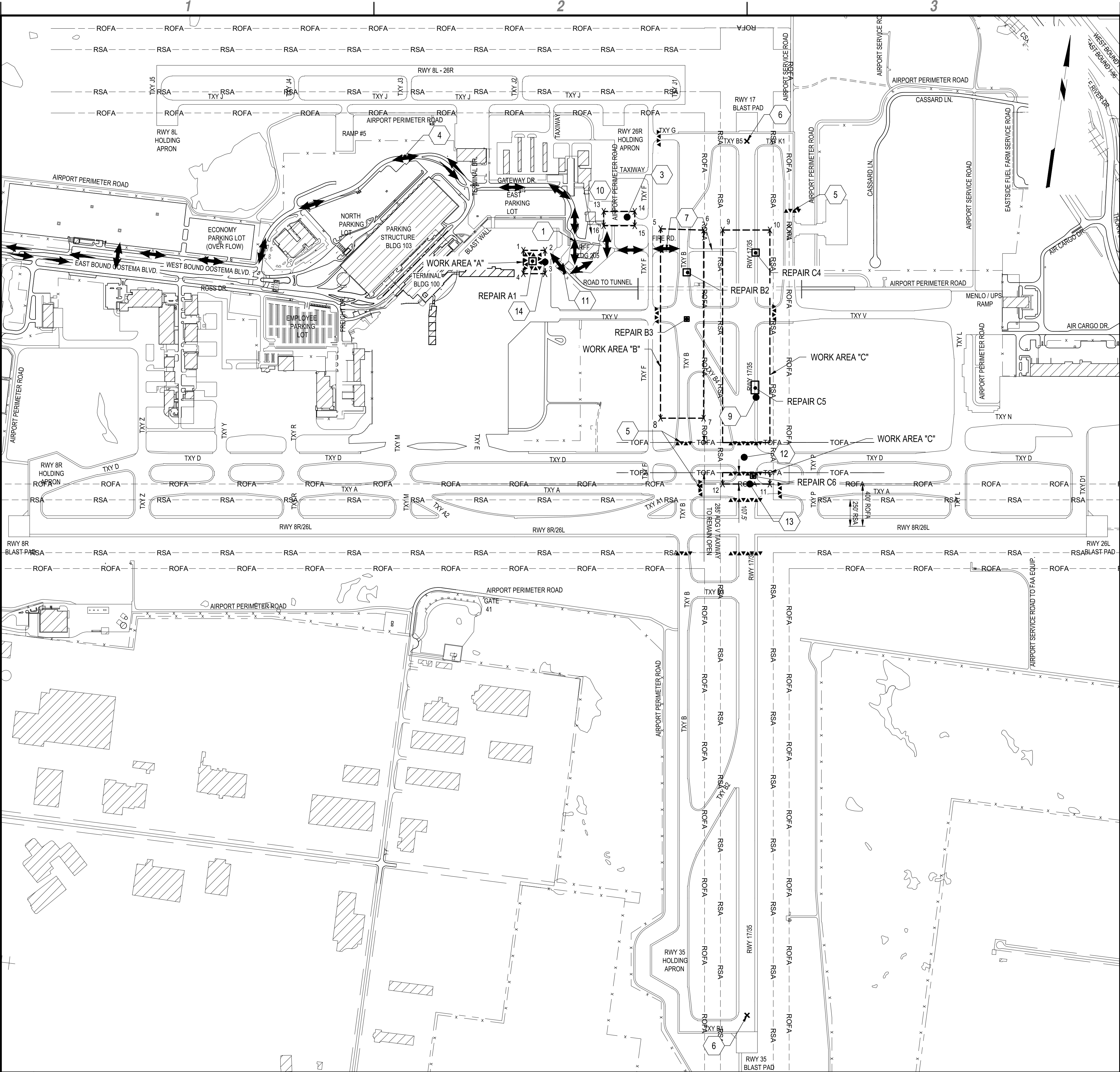
**GFIAA PROJECT: C-377
C&S PROJECT: K19.013.001**

**AUGUST 2022
ISSUED FOR BID**



GI001

August 2, 2022 - 12:38PM
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1. CONTRACTOR SHALL UTILIZE GATE 2 TO ACCESS WORK AREA A, B, C.
3. CONTRACTOR STAGING AND MATERIAL STORAGE AREA (MAXIMUM ALLOWABLE EQUIPMENT HEIGHT IN STAGING AREA SHALL BE 25')
4. CONTRACTORS ACCESS (TYP.)
5. TEMPORARY INTERLOCKING BARRICADES PROVIDED AND MAINTAINED BY THE AIRPORT (TYP.)
6. TEMPORARY LIGHTED CLOSED RUNWAY MARKING PROVIDED AND MAINTAINED BY THE AIRPORT
7. ARFF ROAD SHALL BE CLEAR FOR EMERGENCY VEHICLE ACCESS AT ALL TIMES
10. CONTRACTOR VEHICLE PARKING
11. CONTRACTOR SHALL UTILIZE GATE 3 TO ACCESS WORK AREA B
12. TAXIWAY D TO REMAIN OPEN THROUGHOUT REPAIR PROJECT. GFIAA ESCORT REQUIRED TO CROSS TAXIWAY.
13. CONTRACTOR TO MARK OUT ROFA AND REMAIN BETWEEN RWY 8R-26L AND TWY D OBJECT FREE AREAS FOR COMPLETION OF REPAIR A6
14. MAINTAIN ADG III AIRCRAFT ACCESS TO NORTH SIDE OF CONCOURSE B AT ALL TIMES. GATE B8A SHALL BE CLOSED DURING PAVING OPERATIONS.

- INTERLOCKING BARRICADES (TYP.)
PROVIDED AND MAINTAINED BY THE AIRPORT
- CONTRACTOR ACCESS (TYP.)

C4 KEYED NOTES AND LEGEND

SCALE: NOT TO SCALE

POINT TABLE					
POINT NO.	ELEV. (FT)	DESCRIPTION	NORTHING	EASTING	MAX HEIGHT
1	793.000	WORK AREA A	507111.5041	12812560.9260	25 FEET
2	793.000	WORK AREA A	507139.7965	12812764.5576	25 FEET
3	793.000	WORK AREA A	506920.4342	12812795.0356	25 FEET
4	793.000	WORK AREA A	506892.1417	12812591.4040	25 FEET

POINT TABLE					
POINT NO.	ELEV. (FT)	DESCRIPTION	NORTHING	EASTING	MAX HEIGHT
5	778.000	WORK AREA B	507491.8429	12813818.4559	25 FEET
6	778.000	WORK AREA B	507535.4337	12814224.2455	25 FEET
7	783.000	WORK AREA B	505772.4283	12814469.1963	25 FEET
8	783.000	WORK AREA B	505716.2903	12814065.1501	25 FEET

POINT TABLE					
POINT NO.	ELEV. (FT)	DESCRIPTION	NORTHING	EASTING	MAX HEIGHT
9	778.000	WORK AREA C	507561.2876	12814402.2197	25 FEET
10	778.000	WORK AREA C	507622.8320	12814845.1784	25 FEET
11	784.000	WORK AREA C	505241.9453	12815175.9788	25 FEET
12	784.000	WORK AREA C	505180.4038	12814733.0197	25 FEET

POINT TABLE					
POINT NO.	ELEV. (FT)	DESCRIPTION	NORTHING	EASTING	MAX HEIGHT
13	782.000	STAGING AREA 1	507580.7605	12813263.2157	25 FEET
14	782.000	STAGING AREA 1	507621.2409	12813554.5688	25 FEET
15	782.000	STAGING AREA 1	507487.0228	12813573.2170	25 FEET
16	782.000	STAGING AREA 1	507446.5423	12813281.8638	25 FEET

A1 CONSTRUCTION SAFETY AND PHASING PLAN OVERALL

SCALE: 1" = 500'

A4 WORK AREA AND STAGING AREA COORDINATES

SCALE: NOT TO SCALE



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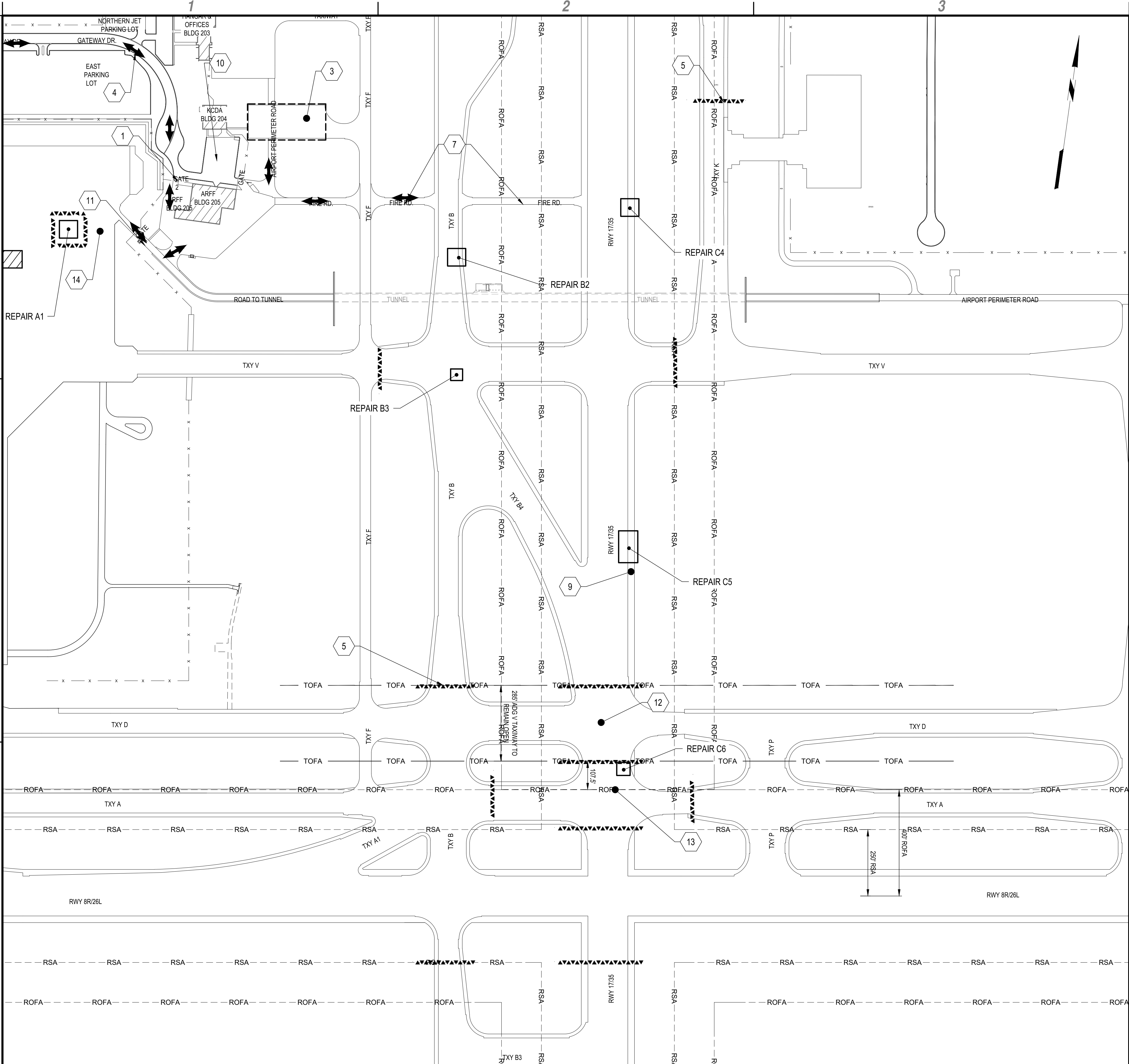
AIRSIDE PAVEMENT REPAIRS 2022

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	K19.013.001	
DATE:	AUGUST 2022	
DRAWN BY:	R.D. MIDDLESWARTH	
DESIGNED BY:	R.D. MIDDLESWARTH	
CHECKED BY:	R. KOLLER, T. CORCORAN	

**CONSTRUCTION
SAFETY AND
PHASING PLAN
OVERALL**

GC101

August 2, 2022 - 12:38PM
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A1 CONSTRUCTION SAFETY AND PHASING PLAN
SCALE: 1" = 200'

MATCHLINE, SEE SHEET GC103



1. CONTRACTOR SHALL UTILIZE GATE 2 TO ACCESS WORK AREA A, B, C.
3. CONTRACTOR STAGING AND MATERIAL STORAGE AREA (MAXIMUM ALLOWABLE EQUIPMENT HEIGHT IN STAGING AREA SHALL BE 25')
4. CONTRACTORS ACCESS (TYP.)
5. TEMPORARY INTERLOCKING BARRICADES PROVIDED AND MAINTAINED BY THE AIRPORT (TYP.)
7. ARFF ROAD SHALL BE CLEAR FOR EMERGENCY VEHICLE ACCESS AT ALL TIMES
9. PROTECT EXISTING IN-PAVEMENT EDGE LIGHTS IN PLACE. IF ANY DAMAGE TO LIGHT OR BASE CAN OCCURS, CONTRACTOR SHALL REMOVE AND REPLACE PER FAA SPECIFICATIONS AT THEIR EXPENSE.
10. CONTRACTOR VEHICLE PARKING
11. CONTRACTOR SHALL UTILIZE GATE 3 TO ACCESS WORK AREA B
12. TAXIWAY D TO REMAIN OPEN THROUGHOUT REPAIR PROJECT. GFIAA ESCORT REQUIRED TO CROSS TAXIWAY.
13. CONTRACTOR TO MARK OUT ROFA AND REMAIN BETWEEN RWY 8R-26L AND TWY D OBJECT FREE AREAS FOR COMPLETION OF REPAIR A6
14. MAINTAIN ADG III AIRCRAFT ACCESS TO NORTH SIDE OF CONCOURSE B AT ALL TIMES. GATE B8A SHALL BE CLOSED DURING PAVING OPERATIONS.

INTERLOCKING BARRICADES (TYP.)
PROVIDED AND MAINTAINED BY THE AIRPORT

CONTRACTOR ACCESS (TYP.)

C4 KEYED NOTES AND LEGEND

SCALE: NOT TO SCALE

BASE BID WORK AREA LOCATIONS

LOCATION	APPROXIMATE AREA	NOTES
REPAIR A1	11 SY	CASTING AND COVER ON APRON
REPAIR B2	7 SY	TWY B EAST SHOULDER
REPAIR B3	10 SY	TWY V & TWY B INTERSECTION
REPAIR C4	45 SY	RWY 17-35 EAST SHOULDER
REPAIR C5	140 SY	RWY 17-35 SHOULDER

ADD ON NO. 1 WORK AREA LOCATIONS

LOCATION	APPROXIMATE AREA	NOTES
REPAIR C6	140 SY	TWY A & RWY 17-35 INTERSECTION

1. REFER TO ATTACHMENT A - CSPP OF THE GENERAL PROVISIONS FOR SPECIFIC OPERATING REQUIREMENTS DURING WORK ON THE AIRFIELD.
2. CONTRACTOR SHALL COORDINATE WORK TIMEFRAME WITH GRR AIRFIELD LIGHTING IMPROVEMENTS PROJECT.
3. WORK AREA A1 SHALL BE PERFORMED CONCURRENTLY WITH THE OTHER WORK AREAS SHOWN.
4. WORK AREAS B2, B3, C4, C5 SHALL BE PERFORMED IN CONJUNCTION WITH GRR AIRFIELD LIGHTING IMPROVEMENT PROJECT PHASE 3 DURING EITHER ANTICIPATED CLOSURES: (29 DAYS; SEPTEMBER 12, 2022 THRU OCTOBER 10, 2022) **OR** (14 DAYS; NOVEMBER 1, 2022 THRU NOVEMBER 14, 2022). THESE DATES ARE PROVIDED FOR BIDDING PURPOSES ONLY AND ARE SUBJECT TO CHANGE DUE TO WEATHER OR OTHER UNFORESEEN CONDITIONS.
5. WORK AREA C6 SHALL BE PERFORMED IN CONJUNCTION WITH GRR AIRFIELD LIGHTING IMPROVEMENT PROJECT PHASE 4 DURING EITHER ANTICIPATED CLOSURES: (7 DAYS; OCTOBER 11, 2022 THRU OCTOBER 17, 2022) **OR** (4 DAYS; NOVEMBER 15, 2022 THRU NOVEMBER 18, 2022). THESE DATES ARE PROVIDED FOR BIDDING PURPOSES ONLY AND ARE SUBJECT TO CHANGE DUE TO WEATHER OR OTHER UNFORESEEN CONDITIONS.
6. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE FOR ALL CONSTRUCTION ENTRANCES AND HAUL ROUTES.
7. SEE GC 501/502 FOR PAVEMENT SECTION.
8. CONTRACTOR SHALL ADD EXPANSION JOINTS TO REPAIR AREAS AS DIRECTED BY THE RPR (SEE DETAIL C1/GC501)
9. GENERAL LOCATIONS OF CONSTRUCTION BARRICADES ARE SHOWN IN THIS PLAN FOR INFORMATIONAL USE ONLY. UNLESS OTHERWISE NOTED, BARRICADES SHALL BE PLACED A MINIMUM OF 129.5' FROM AN OPEN TAXIWAY TO ALLOW FOR GROUP IV AIRCRAFT TAXIING. THE CONTRACTOR SHALL PLACE BARRICADES AS DIRECTED BY AIRPORT OPERATIONS.

A4 SHEET NOTES
SCALE: NOT TO SCALE



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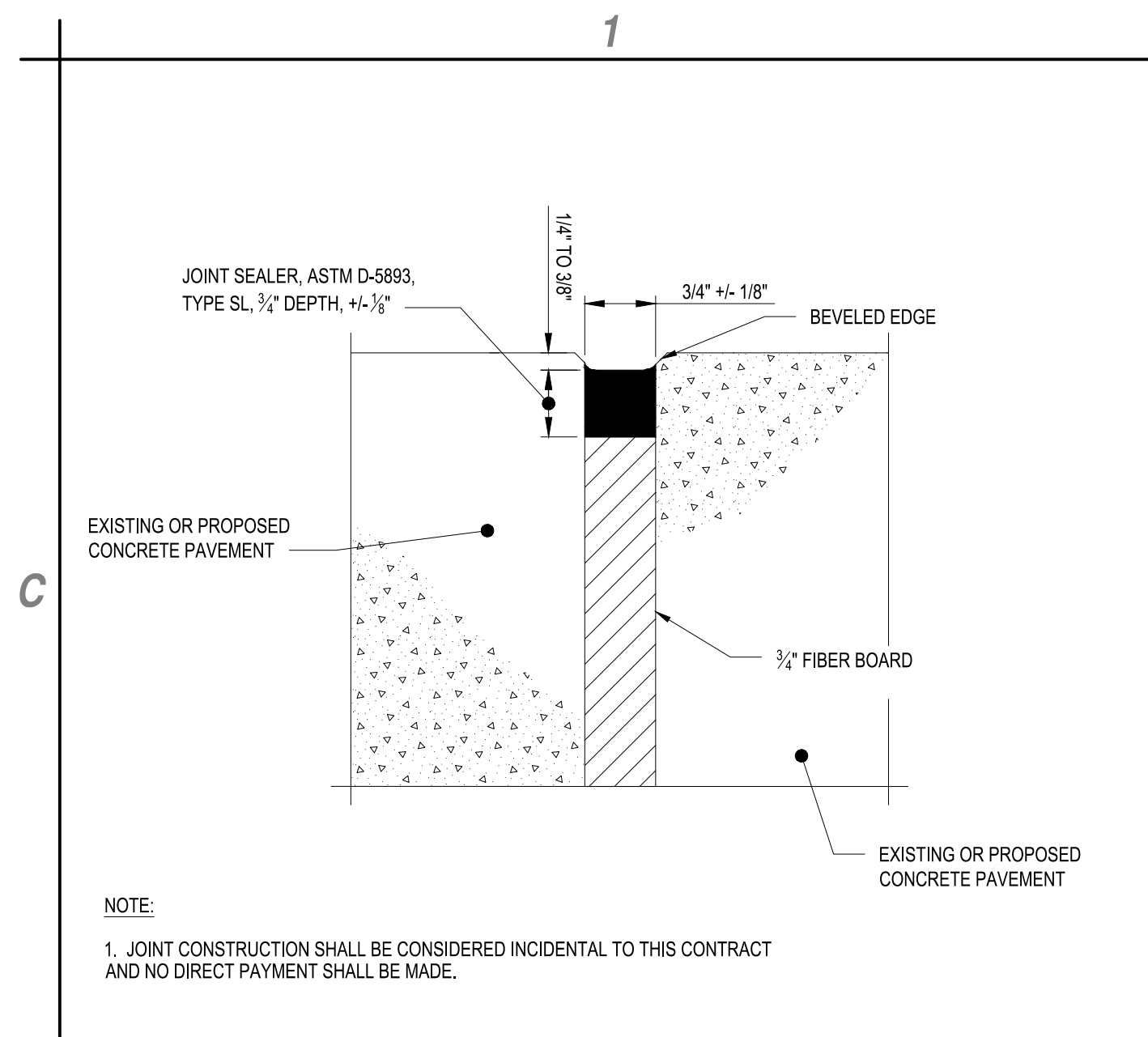
GERALD R. FORD INTERNATIONAL AIRPORT

AIRSIDE PAVEMENT REPAIRS 2022

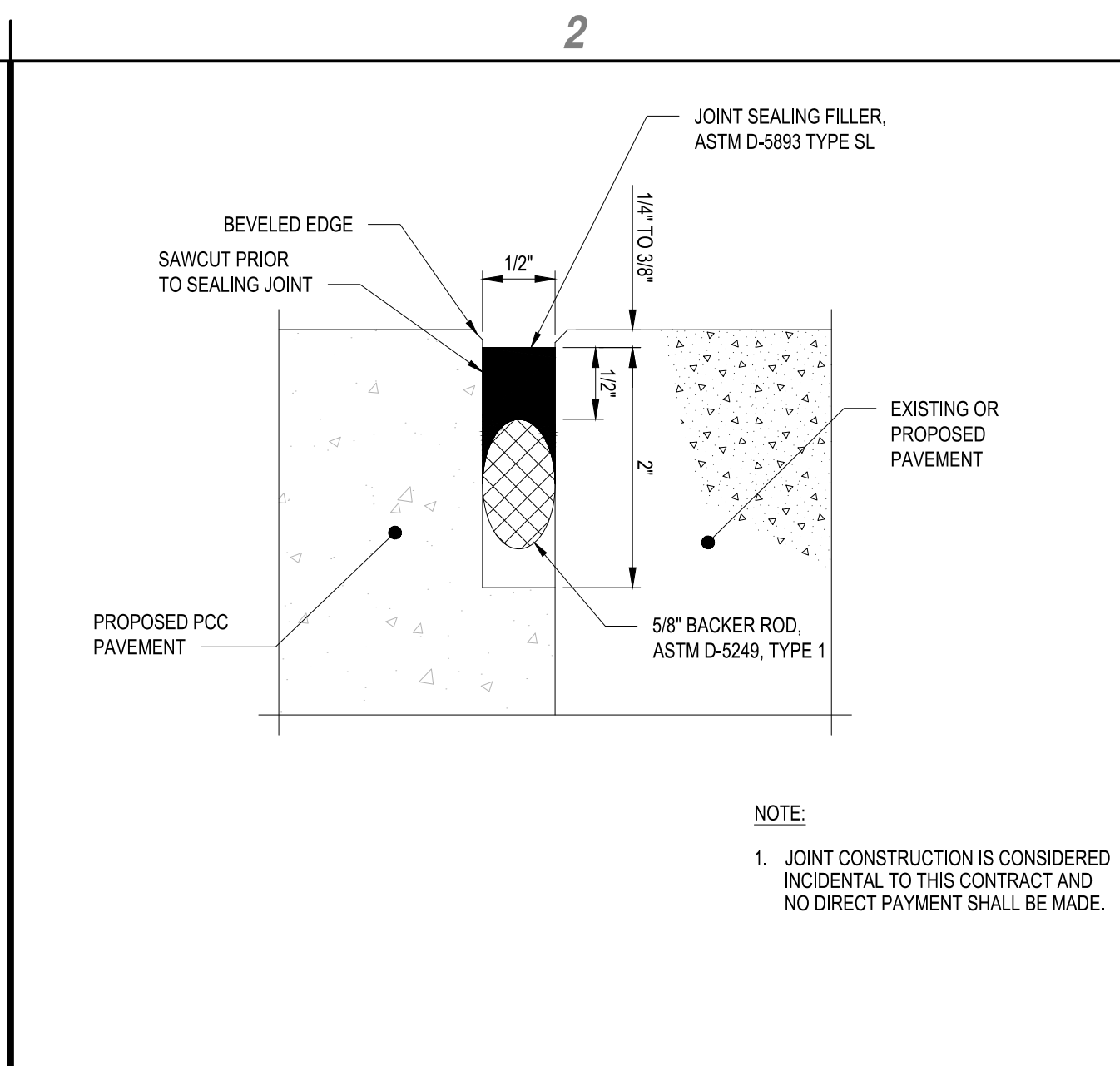
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DRAWN BY:	R.D. MIDDLESWARTH	
DESIGNED BY:	R.D. MIDDLESWARTH	
CHECKED BY:	R. KOLLER, T. CORCORAN	

**CONSTRUCTION
SAFETY AND
PHASING PLAN**

GC102



C1	EXPANSION JOINT SEALING DETAIL
	SCALE: NOT TO SCALE



C2	CONSTRUCTION JOINT SEALING DETAIL
	SCALE: NOT TO SCALE

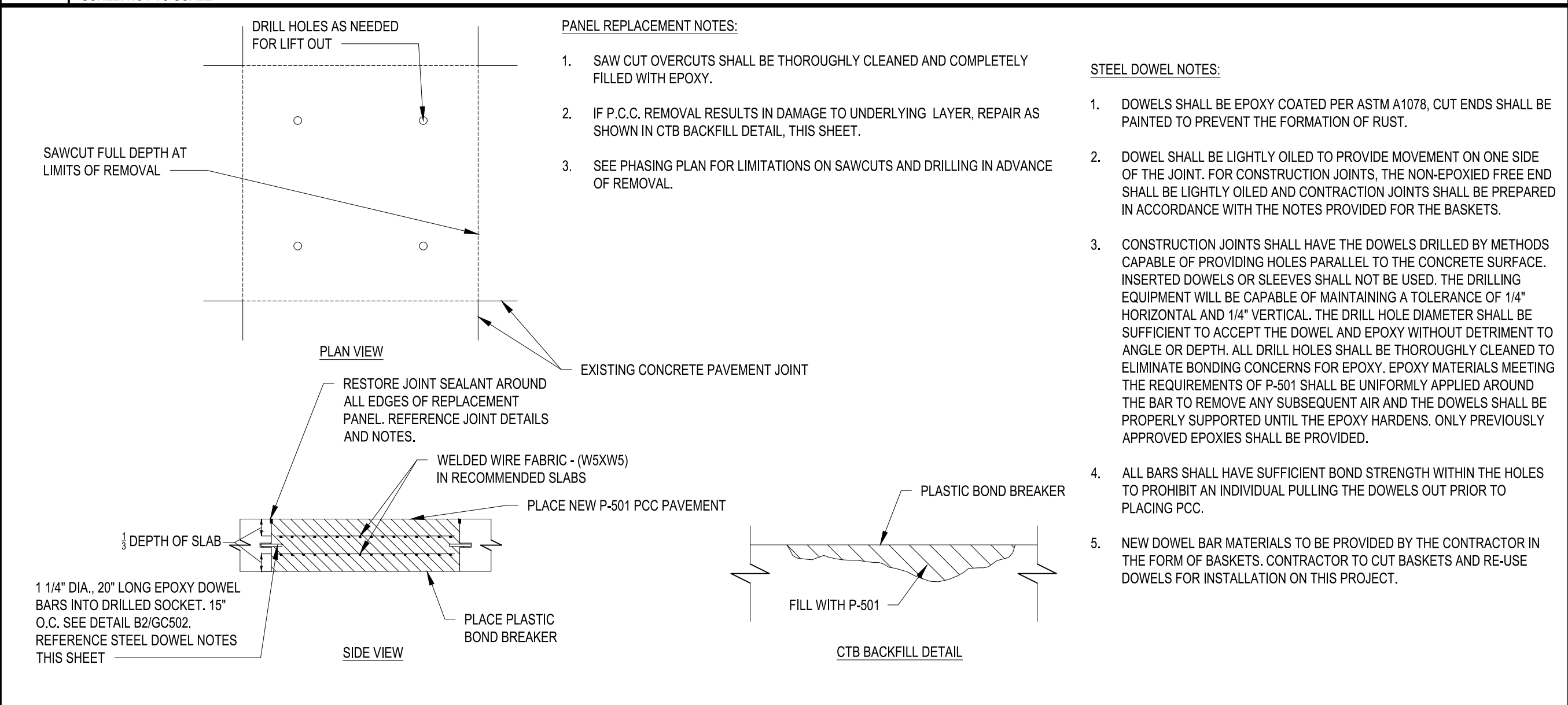
GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ATTACHMENT A - CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) OF THE GENERAL PROVISIONS.
2. THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON RECORD DRAWINGS AND/OR CAD FILES FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THOSE UTILIZING THE INFORMATION ON THESE DRAWINGS ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY PURPOSE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. CONTRACTOR TO CONTACT MISCIG IF REQUIRED.
4. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES OR CABLES, THE ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
5. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO UTILITIES OR CABLES, AS DIRECTED BY THE ENGINEER, IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
6. ALL AREAS DISTURBED AS A RESULT OF THE CONTRACTOR'S STAGING AND CONSTRUCTION OPERATIONS SHALL BE RESTORED EQUAL TO OR BETTER THAN ORIGINAL CONDITION. ALL RESTORATION IS INCIDENTAL TO ITEM #501.
7. DURING THE WORK OF THIS CONTRACT, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN WHATEVER TEMPORARY LIGHTING MAY BE NECESSARY TO KEEP THE TAXIWAY IN OPERATING CONDITION WHEN OPEN FOR AIRCRAFT.
8. ALL DIRT, DUST, STONES AND LOOSE DEBRIS SHALL BE CONTINUOUSLY REMOVED FROM ALL PAVED SURFACES DURING THIS CONTRACT.
9. THE CONTRACTOR SHALL RECONSTRUCT AND MAINTAIN EXISTING ACCESS ROADS AS REQUIRED FOR ACCESS TO THE WORK AREAS.
10. ALL OF THE CONTRACTOR'S OPERATIONS SHALL REMAIN ON AIRPORT PROPERTY AT ALL TIMES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED ON ADJACENT PROPERTY.
11. THIS CONTRACT DOES NOT ALLOW FOR PRICE INCREASES DUE TO ESCALATION IN COST OF UNIT BID ITEMS. THE CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION WHEN PREPARING UNIT PRICES FOR BID.

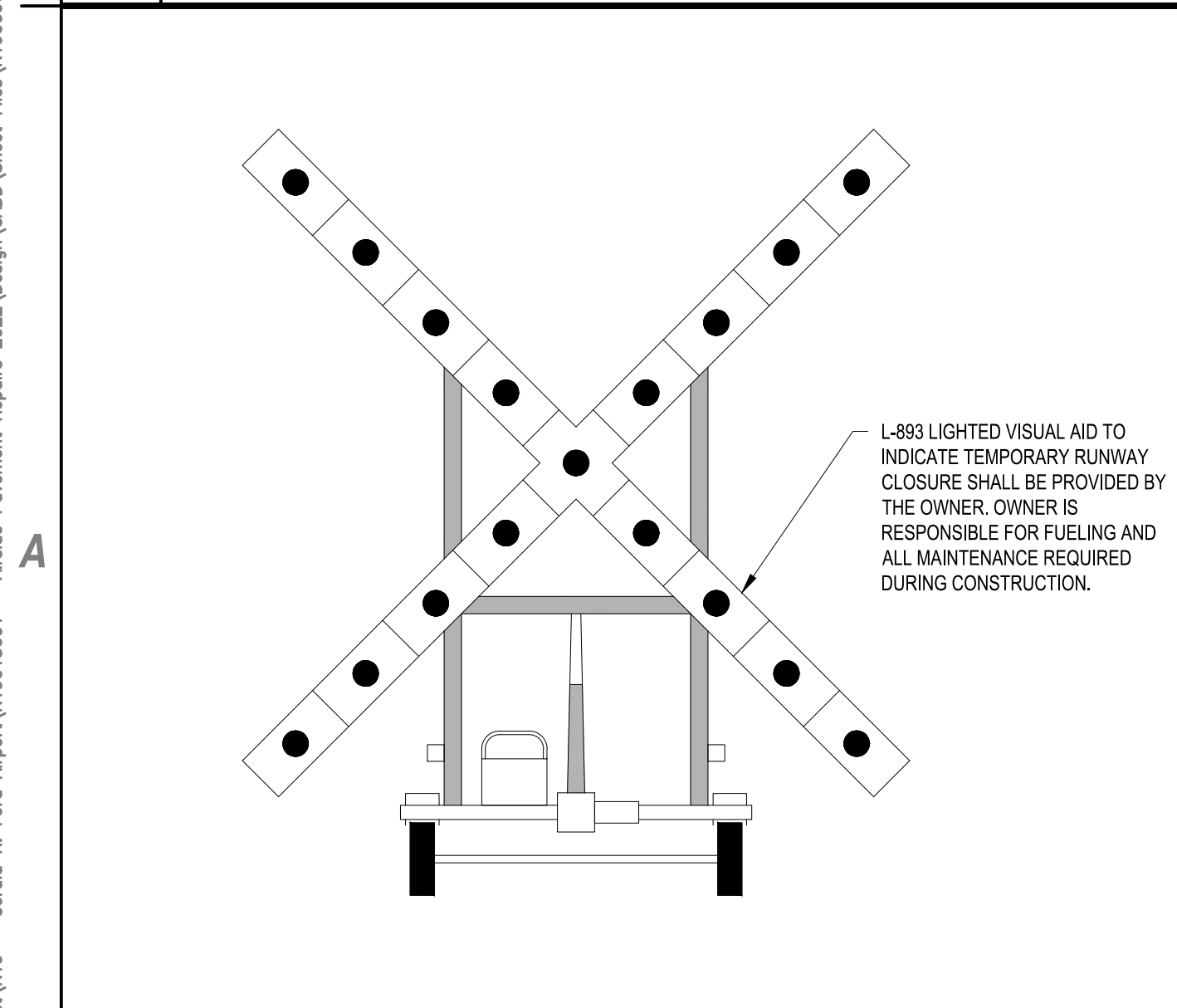
C3	GENERAL NOTES
	SCALE: NOT TO SCALE

-
- B**
- CONNECTOR TO NEXT UNIT (TYP.)
- ORANGE AND WHITE REFLECTIVE SHEETING
- SAFETY ORANGE AND WHITE, HIGH IMPACT, UV RESISTANT, HDPE WATER-FILLED BARRICADE, ALTERNATE COLORS
- 360° FLASHING RED WARNING LIGHT
- 8' (TYP.)
- BARRICADE NOTES:**
1. BARRICADES SHALL BE 6' X 8' AIRPORT LOW PROFILE BARRICADE AS MANUFACTURED BY NEUBERT AERO CORP., OR 10' X 8' RM LOW PROFILE AIRPORT BARRIER AS MANUFACTURED BY SHERWIN INDUSTRIES, INC., OR APPROVED EQUAL.
 2. BARRICADES SHALL EXTEND TO EDGES OF PAVEMENT UNLESS OTHERWISE SHOWN. EXACT LOCATIONS SHALL BE DETERMINED DURING CONSTRUCTION.
 3. BARRICADES SHALL BE FILLED WITH WATER AND INTERLOCKED WITH EACH OTHER. BARRICADES WHICH HAVE TO BE MOVED DAILY MAY BE ANCHORED TO THE PAVEMENT BY AN ALTERNATE METHOD.
 4. ONE WARNING LIGHT SHALL BE ATTACHED TO EACH BARRICADE.
 5. IN AREAS OF JET BLAST, USE METAL STRAPS AND EXPANSION ANCHORS TO SECURE BARRICADES TO THE PAVEMENT.
 6. ALL COSTS FOR FURNISHING, LABOR, MAINTENANCE AND REMOVAL OF BARRICADES SHALL BE THE RESPONSIBILITY OF THE OWNER.

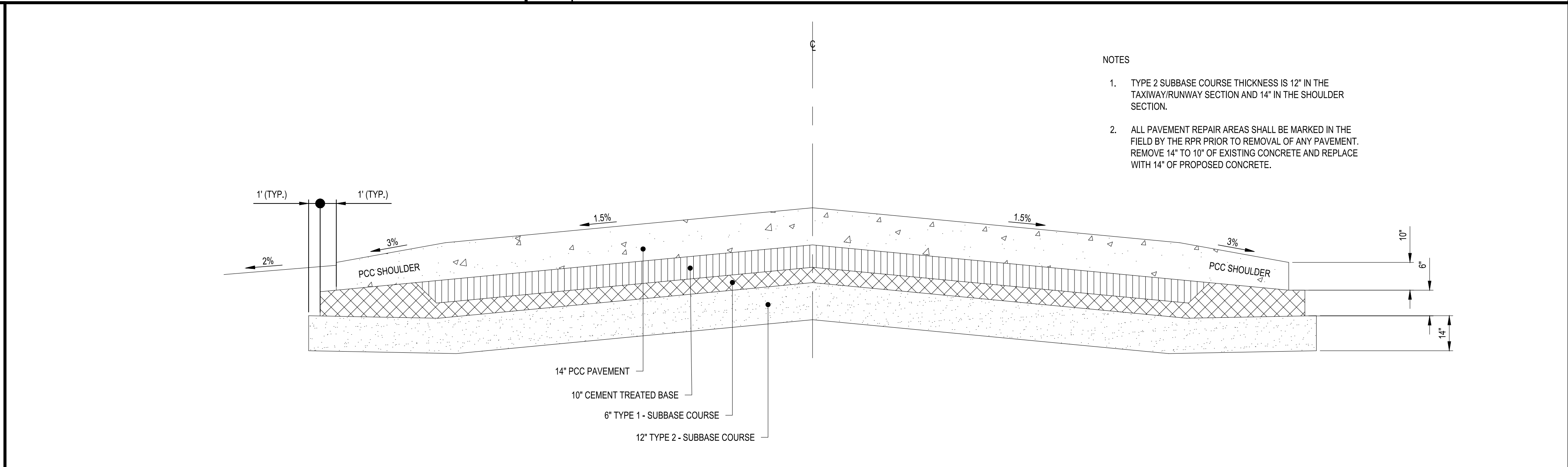
B1	INTERLOCKING BARRICADE DETAIL
	SCALE: NOT TO SCALE



B3	REPAIR DETAILS
	SCALE: NOT TO SCALE



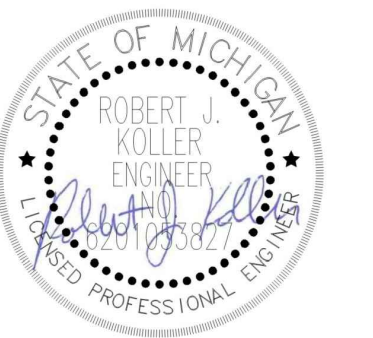
A1	LIGHTED CLOSED RUNWAY MARKING DETAIL
	SCALE: NOT TO SCALE



A2	TYPICAL RUNWAY AND TAXIWAY PAVEMENT SECTION
	SCALE: NOT TO SCALE



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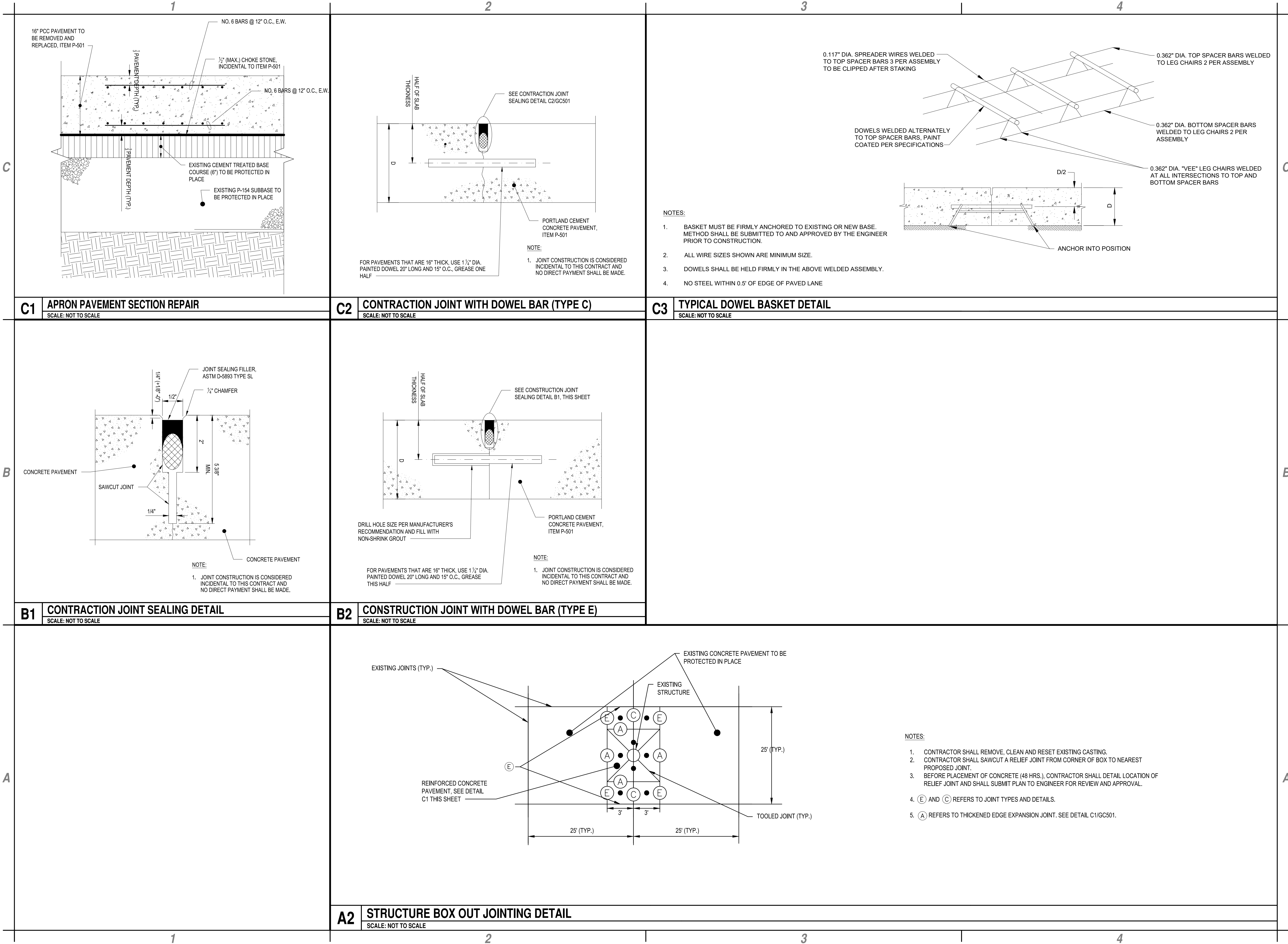
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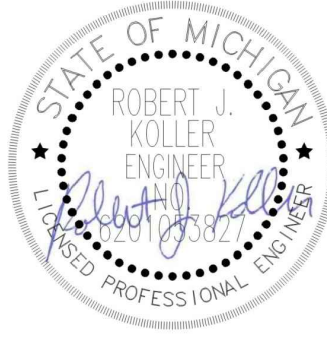
DETAILS AND GENERAL NOTES

GC501

August 2, 2022 - 8:17PM
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DETAILS AND
GENERAL NOTES

GC502