AU069

TOTAL SHEETS: 17

# CITY OF AURORA AURORA, ILLINOIS

CONSTRUCTION PLANS FOR

# AURORA MUNICIPAL AIRPORT

PHASE 2: AIRFIELD PAVEMENT REHABILITATION INCLUDING GENERAL AVIATION APRON AND TAXIWAY P

ILLINOIS PROJECT: ARR-4648 S.B.G. PROJECT: 3-17-SBGP-144



MARCH 1, 2019



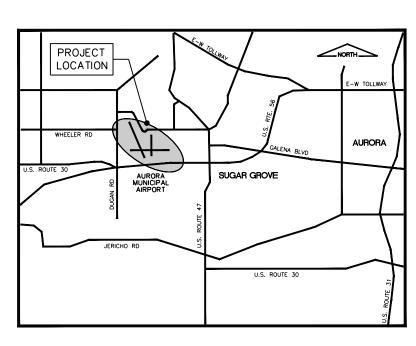
J.U.L.I.E.
JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS
www.illingis1call.com

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL BE RESTORED TO SERVICES AND CAND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

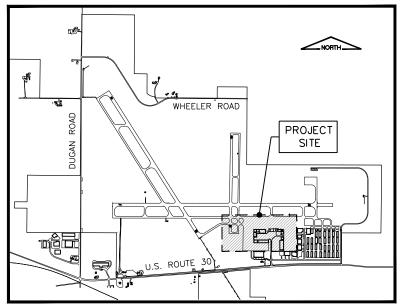
# CALL J.U.L.I.E BEFORE EXCAVATING AT 811

#### AURORA MUNICIPAL AIRPORT

SECTION: 17 AND 18 COUNTY: KANE
RANGE: 7 EAST U.S. ROUTE 30
TOWNSHIP: 38 NORTH SUGAR GROVE TOWNSHIP







AURORA
AURORA
MUNICIPAL AIRPORT

CITY OF AURORA, ILLINOIS

APPROVED BY

RICHARD C. IRVIN

DATE

APPROVED BY



SITE PLAN

#### INDEX TO SHEETS

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- 5. SEQUENCE OF CONSTRUCTION PER AC 150/5370-2G (LATEST EDITION) SHEET 2
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- 7. SEQUENCE OF CONSTRUCTION DETAILS
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- 9. PAVEMENT REHABILITATION/PAVEMENT REMOVALS TAXIWAY P
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- 11. UNDERDRAIN AND MARKING PLAN TAXIWAY P
- 12. PROPOSED IMPROVEMENTS SOUTH APRON
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- 14. PAVEMENT JOINTING DETAILS
- 15. STORM WATER POLLUTION PREVENTION NOTES AND DETAILS
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#### **NOTES**

- SPECIAL ATTENTION IS NECESSARY WHEN WORKING NEAR FAA POWER AND CONTROL CABLES. ANY FAA UTILITY THAT IS DAMAGED OR CUT DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY. FAA REQUIRES THAT ANY DAMAGED CABLE BE REPLACED IN ITS ENTIRETY, FROM POWER/CONTROL SOURCE TO THE EQUIPMENT/SERVICE. SPLICES OF ANY KIND WILL NOT BE PERMITTED. EXPOSURES OF ANY FAA CABLES MUST BE DONE BY HAND DIGGING OR HYDRO-EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR LOCATING, REPLACEMENT OR REPAIR OF FAA FACILITIES OR CABLES BUT, SHALL BE INCIDENTAL TO THE CONTRACT.
- 2. WHEN FAA CABLES ARE REQUIRED TO BE LOCATED, OR THE CONTRACTOR IS PLANNING ON WORKING ON OR AROUND FAA CABLES, CONDUITS OR EQUIPMENT, A 10 WORKING DAY ADVANCED NOTICE SHALL BE GIVEN TO THE FAA BEFORE ANY SUCH MARKINGS ARE REQUIRED. ONCE FAA MARKS THE CABLES, THE CONTRACTOR WILL BE REQUIRED TO SURVEY THE FAA UTILITIES SO THEY CAN BE REPLACED DURING CONSTRUCTION WITHOUT REMARKING BY THE FAA. THIS SHALL BE INCIDENTAL TO THE CONTRACT. THE FAA PERSONNEL ARE ONLY AVAILABLE FROM 9 AM TO 3 PM, MONDAY THROUGH FRIDAY WITH ADVANCED NOTICE.
- 3. PORTIONS OF THE EXISTING PAVEMENT STRUCTURES WERE DESIGNED FOR EXCLUSIVE USE BY SMALL AIRCRAFT. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE PAVEMENT STRUCTURE AND SUBGRADE FROM DAMAGE. WHICH MAY INCLUDE BUT NOT BE LIMITED TO USE OF TRACKED EQUIPMENT, SHORT HAUL TRUCKS OR TRACKED PAVERS, AT NO ADDITIONAL COST TO CONTRACT.
- 4. AT ALL TIMES THE CONTRACTOR SHALL PERFORM ALL MAINTENANCE WORK NECESSARY TO KEEP EACH NEWLY CONSTRUCTED PAVEMENT SECTION LAYER IN A SATISFACTORY CONDITION.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE DONE BY HIS HAULING AND CONSTRUCTION EQUIPMENT. ANY WORK NECESSARY TO CORRECT DAMAGED WORK AND EXISTING PAVEMENT SHALL BE PERFORMED BY THE CONTRACTOR AND AT THE EXPENSE OF THE CONTRACTOR.
- 6. THE RESIDENT ENGINEER IN CONSULTATION WITH THE AIRPORT SHALL IDENTIFY ALL CRACKS TO BE REPAIRED AND OR SEALED. CONTRACTOR SHALL ADJUST THEIR OPERATIONS AS NECESSARY FOR THE IDENTIFIED WORK, NO ADDITIONAL COMPENSATION SHALL BE MADE.
- CONTRACTOR SHALL DISPOSE OF ALL PAVEMENT REMOVAL AND OTHER MISCELLANEOUS CONSTRUCTION DEBRIS OFF OF AIRPORT PROPERTY.
- PAVEMENT REMOVAL AND REPLACEMENT AREAS SHALL BE LAID OUT BY THE RESIDENT ENGINEER IN THE FIELD DURING CONSTRUCTION.

	EXISTING CONDITIONS LEGEND
0	EXISTING BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
0	EXISTING STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
	EXISTING BASE MOUNTED HIGH INTENSITY RUNWAY LIGHT
	EXISTING STAKE MOUNTED HIGH INTENSITY RUNWAY LIGHT
•	EXISTING IN PAVEMENT MOUNTED HIGH INTENSITY RUNWAY LIGHT
¤	EXISTING ELEVATED RETROREFLECTIVE MARKER
0 0 0 0 Ø	EXISTING VISUAL APPROACH SLOPE INDICATOR (VASI)
□	EXISTING RUNWAY END IDENTIFIER LIGHT (REIL)
000	EXISTING APPROACH LIGHTING SYSTEM
	EXISTING AIRFIELD GUIDANCE SIGN
P	EXISTING WINDCONE
<b>P</b>	EXISTING WINDCONE WITH SEGMENTED CIRCLE
$\boxtimes$	EXISTING ELECTRICAL TRANSFORMER
0	EXISTING ELECTRICAL/STORM/SANITARY/TELEPHONE MANHOLE OR EXISTING WATER VALVE VAULT
	EXISTING ELECTRICAL HANDHOLE
	EXISTING STORM INLET
	EXISTING SLOPE BOX
$\triangleright$	EXISTING FLARED END SECTION
)	EXISTING HEADWALL
0	EXISTING CLEANOUT STRUCTURE
	EXISTING FLUSH MOUNTED FIRE HYDRANT
$\bowtie$ 0	EXISTING WATER VALVE
$\boxtimes$	EXISTING UTILITY PEDESTAL
	EXISTING CONDUIT/DUCT BANK
——FAA——	EXISTING FAA CABLES
REIL	EXISTING RUNWAY END IDENTIFIER LIGHTING CIRCUIT
— FAA COMED—	EXISTING COMED SERVICE TO FAA ILS SYSTEM
0.7	EVICTING STORM SEWER

1 00	EXIGNITION ON BEEG
REIL	EXISTING RUNWAY END IDENTIFIER LIGHTING CIRC
— FAA COMED—	EXISTING COMED SERVICE TO FAA ILS SYSTEM
— — st—	EXISTING STORM SEWER
— —UD—	EXISTING UNDERDRAIN
—— W ——	EXISTING WATERMAIN
— —ss—	EXISTING SANITARY SEWER

EXISTING TELEPHONE LINES

EXISTING ELECTRIC LINE

EXISTING GAS LINE EXISTING FENCE

#### SUMMARY OF QUANTITIES

			ESTIMATED	RECORD
ITEM	DESCRIPTION	UNIT	QUANTITY	QUANTITY
BASE BID				
AR150510	ENGINEER'S FIELD OFFICE	LS	1	
AR152410	UNCLASSIFIED EXCAVATION	CY	900	
AR152540	SOIL STABILIZATION FABRIC	SY	1,715	
AR156520	INLET PROTECTION	EACH	4	
AR208515	POROUS GRANULAR EMBANKMENT	CY	565	
AR209608	CRUSHED AGG. BASE COURSE - 8"	SY	325	
AR209613	CRUSHED AGG. BASE COURSE - 13"	SY	1,520	
AR401613	BIT. SURF. CSE METHOD I, SUPERPAVE	TON	708	
AR401650	BITUMINOUS PAVEMENT MILLING	SY	4,654	
AR401900	REMOVE BITUMINOUS PAVEMENT	SY	1,500	
AR401916	REM & REP BIT PAVEMENT - TYPE B	SY	100	
AR403613	BIT. BASE CSE METHOD I, SUPERPAVE	TON	175	
AR501509	9" PCC PAVEMENT	SY	110	
AR501511	11" PCC PAVEMENT	SY	380	
AR501530	PCC TEST BATCH	EACH	1	
AR501900	REMOVE PCC PAVEMENT	SY	575	
AR602510	BITUMINOUS PRIME COAT	GAL	760	
AR603510	BITUMINOUS TACK COAT	GAL	926	
AR620520	PAVEMENT MARKING - WATERBORNE	SF	4,000	
AR620525	PAVEMENT MARKING - BLACK BORDER	SF	2,700	
AR620900	PAVEMENT MARKING REMOVAL	SF	200	
AR705506	6" PERFORATED UNDERDRAIN	LF	380	
AR751980	RECONSTRUCT INLET	EACH	8	
AR751995	RECONSTRUCT UTILITY STRUCTURE	EACH	5	
AR800009	PCC SPALL REPAIR	SF	100	
AR800159	SEEDING	SY	1025	
AR800162	MULCHING	SY	1025	
AR905530	TOPSOILING	SY	1025	

AS501509	9" PCC PAVEMENT	SY	410	
AS501900	REMOVE PCC PAVEMENT	SY	410	
AS510510	TIE DOWN	EACH	1	
AS620520	PAVEMENT MARKING - WATERBORNE	SF	124	
AS620525	PAVEMENT MARKING - BLACK BORDER	SF	145	

ADDITIVE ALTERNATE NO. 2 - SOUTH APRON PCC PANEL REPLACEMENT					
AT501509	9" PCC PAVEMENT	SY	315		
AT501900	REMOVE PCC PAVEMENT	SY	315		
AT510510	TIE DOWN	EACH	4		
AT620520	PAVEMENT MARKING - WATERBORNE	SF	100		
AT620525	PAVEMENT MARKING - BLACK BORDER	SF	100		

S.B.G. PROJECT: 3-17-SBGP-144

IL. CONTRACT: AU069 IL. LETTING ITEM: 06A IL. PROJECT: ARR-4648

SURVEY BOOK # BOOK # REVISIONS NUMBER BY DATE

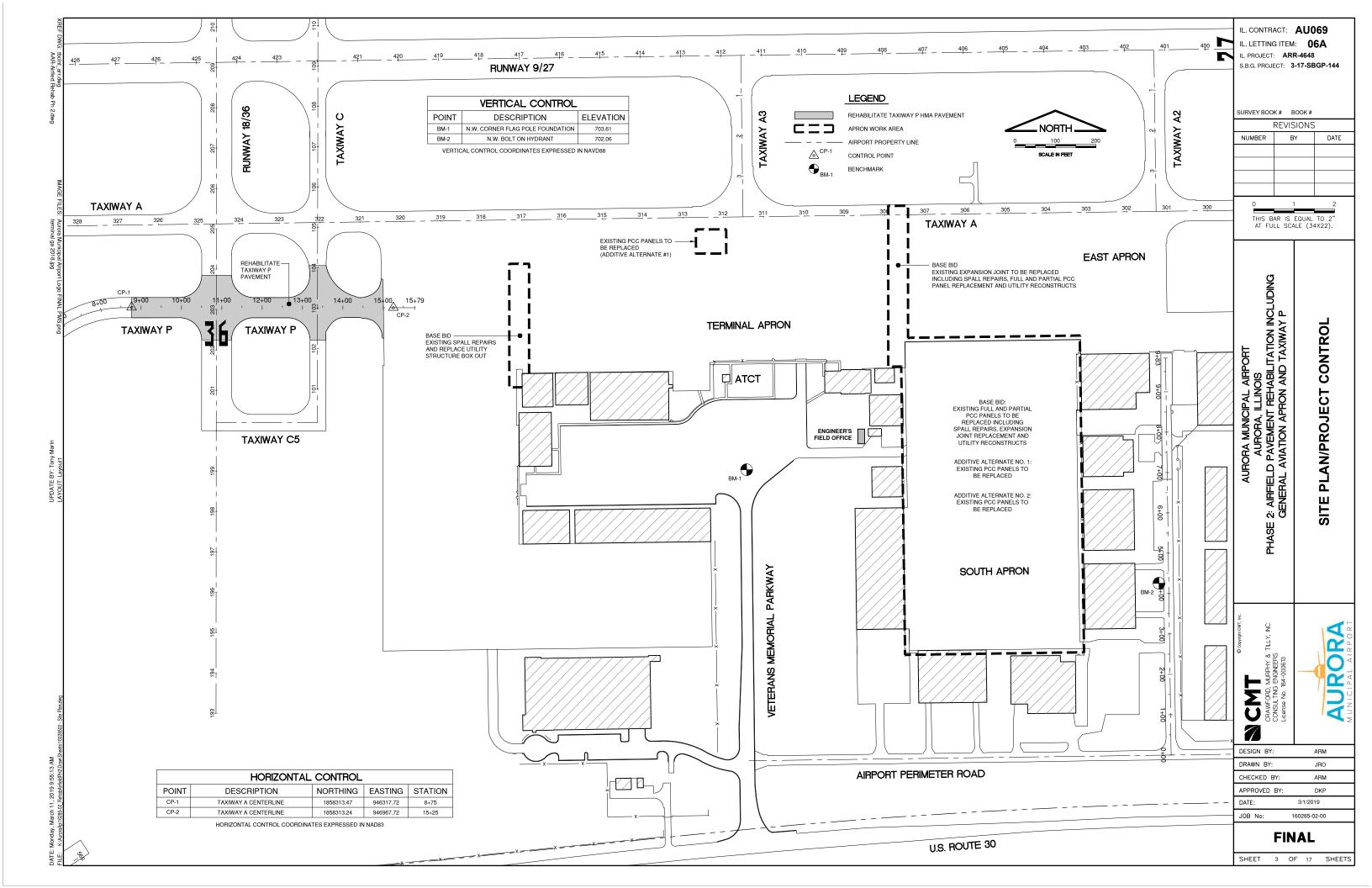
THIS BAR IS EQUAL TO 2 AT FULL SCALE (34X22).

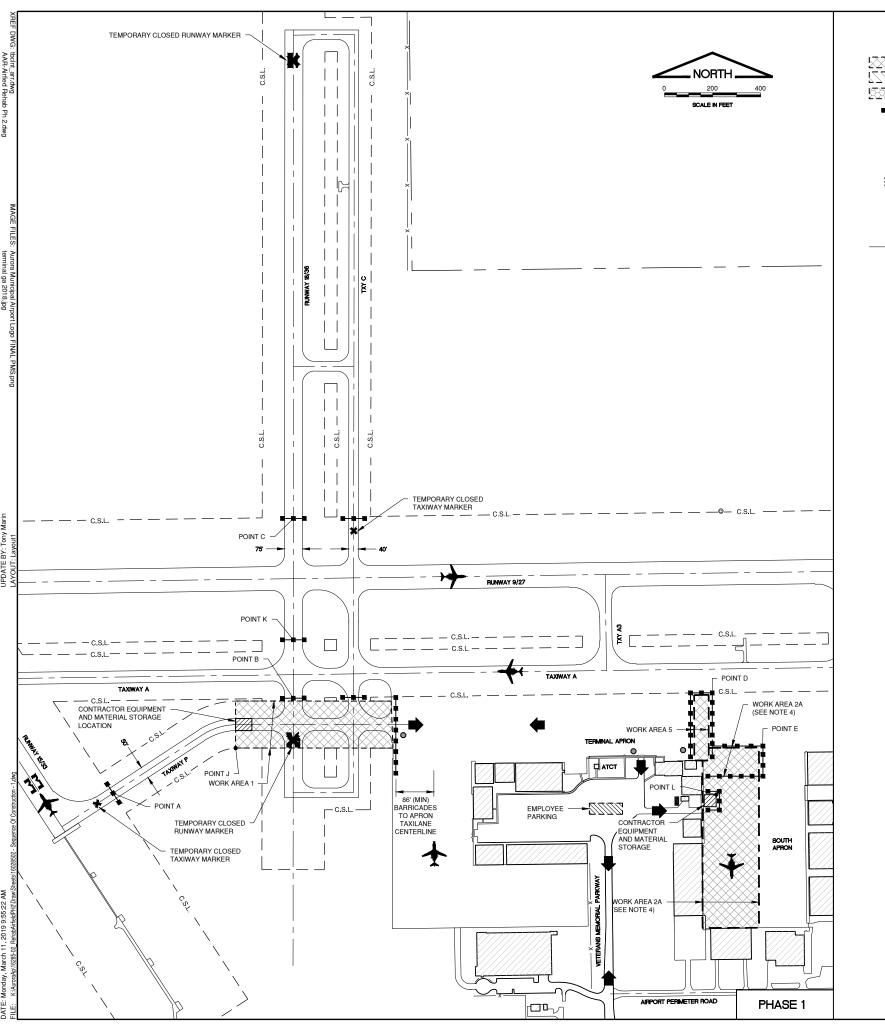
AURORA MUNICIPAL AIRPORT AURORA, ILLINOIS ELD PAVEMENT REHABILITATION INCLUDING AL AVIATION APRON AND TAXIWAY P F QUANTITII :S RY OF NOTES , SUMMAF ENERAL I S 2: AIRFIELD F GENERAL AV AND S 9 INDEX

DESIGN BY: DRAWN BY: JRO CHECKED BY: ARM APPROVED BY: DKP DATE: 3/1/2019 160285-02-00 JOB No:

FINAL

SHEET 2 OF 17 SHEETS





#### **LEGEND**

# PHASE 1 - WORK AREAS

PHASE 3 - WORK AREAS

TEMPORARY BARRICADES WITH RED FLASHING LIGHT

CONTRACTOR'S HAUL ROUTE

TEMPORARY CLOSED RUNWAY MARKER

TEMPORARY CLOSED TAXIWAY MARKER (SEE NOTE 2)

AIRCRAFT MOVEMENT AREA

CROSSING GUARD AND STOP SIGN (SEE NOTE 1) OR CONTRACTOR'S ESCORT WITH RADIO

CONTRACTOR'S EMPLOYEE PARKING, EQUIPMENT AND MATERIAL STORAGE LOCATION

- C.S.L.

CONSTRUCTION SETBACK LINE (C.S.L.)
255' FROM CENTERLINE OF RUNWAY 9/27 AND 15/33
130' FROM CENTERLINE OF RUNWAY 18/36 98' FROM CENTERLINE OF TAXIWAY B, A, P, AND M1
71' FROM CENTERLINE OF TAXIWAY C 86' FROM CENTERLINE OF APRON TAXILANES

#### NOTES

- WHEN HAUL ROUTE IS IN USE ON ACTIVE AIRFIELD PAVEMENTS, THE CONTRACTOR WILL BE REQUIRED TO BE UNDER CONTROL BY A CROSSING GUARD OR ESCORT IN RADIO CONTACT WITH THE ATCT FOR CONSTRUCTION PERSONNEL, CONSTRUCTION TRAFFIC, CONTRACTORS VEHICLES AND EQUIPMENT CROSSING BY, TO OR FROM WORK ZONE. STOP SIGNS SHALL BE IN PLACE AT ALL TIMES IN THIS AREA. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- 2. TEMPORARY CLOSED TAXIWAY MARKERS ARE ONLY REQUIRED WHEN THE TAXIWAY WILL REMAIN CLOSED FOR 3 CONSECUTIVE DAYS OR MORE.
- 3. BARRICADES USED FOR WORK AREA 1 MAY BE IDOT TYPE 2 BARRICADES OR LOW PROFILE BARRICADES. WORK AREAS 2 THRU 5 SHALL USE LOW PROFILE BARRICADES ONLY.
- 4. WORK AREAS 2A AND 2B WILL REMAIN OPEN TO AIRCRAFT DURING CONSTRUCTION ADDITIONAL BARRICADES WILL BE REQUIRED THAN SHOWN FOR EACH ISOLATED IMPROVEMENT AREA WITHIN THE

IL. CONTRACT: AU069

IL. LETTING ITEM: 06A IL. PROJECT: ARR-4648

SURVEY BOOK # BOOK #

NUMBER

S.B.G. PROJECT: 3-17-SBGP-144

**REVISIONS** 

BY

DATE

THIS BAR IS EQUAL TO 2 AT FULL SCALE (34X22).

#### PHASE 1 SUGGESTED SEQUENCE OF CONSTRUCTION

- NOTIFY RESIDENT ENGINEER/AIRPORT MANAGER 10 DAYS PRIOR TO THE START OF CONSTRUCTION TO ISSUE APPROPRIATE NOTAMS.
- WORK AREAS 1, 2A AND 5
  - COORDINATE WITH RESIDENT ENGINEER AND AIRPORT MANAGER FOR REQUIRED PAVEMENT CLOSURES FOR WORK AREA.
  - PLACE REQUIRED BARRICADES AND PAVEMENT CLOSURE MARKERS (SEE NOTE 4).
  - MEGGER AIRFIELD CIRCUITS.
  - DE-ENERGIZE CIRCUITS FOR CLOSED RUNWAYS.
  - DE-ENERGIZE TAXIWAY CIRCUITS OR COVER LIGHT FIXTURES/AIRFIELD SIGNS IN SUCH A WAY TO PREVENT LIGHT LEAKAGE WITHIN OR ADJACENT TO WORK AREA LIMITS.
  - COMPLETE PAVEMENT REMOVALS.
  - COMPLETE UTILITY ADJUSTMENTS AND INSTALLATIONS.
  - COMPLETE PAVEMENT IMPROVEMENTS.
  - COMPLETE WORK AREA 1 PAVEMENT MARKING.
  - COMPLETE TOPSOILING, SEEDING AND MULCHING TO MEET RSA/TSA GRADING.
  - REMOVE TEMPORARY CABLING AND RE-ENERGIZE CIRCUITS WITHIN WORK AREA LIMITS AND RE-MEGGER AIRFIELD CIRCUITS
  - CLEAN PAVEMENTS, RESTORE DISTURBED WORK AREAS AND REMOVE
  - COORDINATE WITH RESIDENT ENGINEER AND AIRPORT MANAGER PAVEMENT CLOSURES FOR NEXT WORK AREA.
  - ONCE PCC PAVEMENTS OBTAIN THE REQUIRED CURE TIME/STRENGTH THEY MAY BE OPENED TO
  - RELOCATE BARRICADES AND PAVEMENT CLOSURE MARKERS FOR NEXT WORK AREA.
- RESTORE STAGING AREAS.

PHASE	WORK AREA	ALLOWABLE WORK PERIOD	OPERATIONAL STATUS/RESTRICTIONS	
1	1	NO RESTRICTIONS	D RESTRICTIONS  RUNWAY 9/27 AND 15/33 - OPEN TAXIWAYS A, B AND M1 - OPEN ALL APRONS - OPEN TAXIWAY C - PARTIAL CLOSURE RUNWAY 18/36 - CLOSED TAXIWAY P - CLOSED	
	2A	CAN NOT BE DONE CONCURRENTLY WITH WORK AREA 2B	ALL RUNWAYS AND TAXIWAYS - OPEN APRONS TERMINAL AND WEST - OPEN SOUTH APRON - PARTIAL CLOSURE	
	5	CAN NOT BE DONE CONCURRENTLY WITH WORK AREAS 3 AND 4	ALL RUNWAYS AND TAXIWAYS - OPEN APRONS SOUTH AND WEST - OPEN TERMINAL APRON - PARTIAL CLOSURE	
2	3	CAN NOT BE DONE CONCURRENTLY WITH WORK AREAS 4 AND 5	ALL RUNWAYS AND TAXIWAYS - OPEN APRONS SOUTH AND WEST - OPEN TERMINAL APRON - PARTIAL CLOSURE	
3	2B CAN NOT BE DONE CONCURRENTLY APRONS TERMINAL AND WEST - OPEN WITH WORK AREA 2A SOUTH APRON - PARTIAL CLOSURE		APRONS TERMINAL AND WEST - OPEN	
	4	CAN NOT BE DONE CONCURRENTLY WITH WORK AREAS 3 AND 5	ALL RUNWAYS - OPEN TAXIWAYS B, C, M1 AND P - OPEN WEST APRON - OPEN TAXIWAY A AND TERMINAL APRON - PARTIAL CLOSURE	

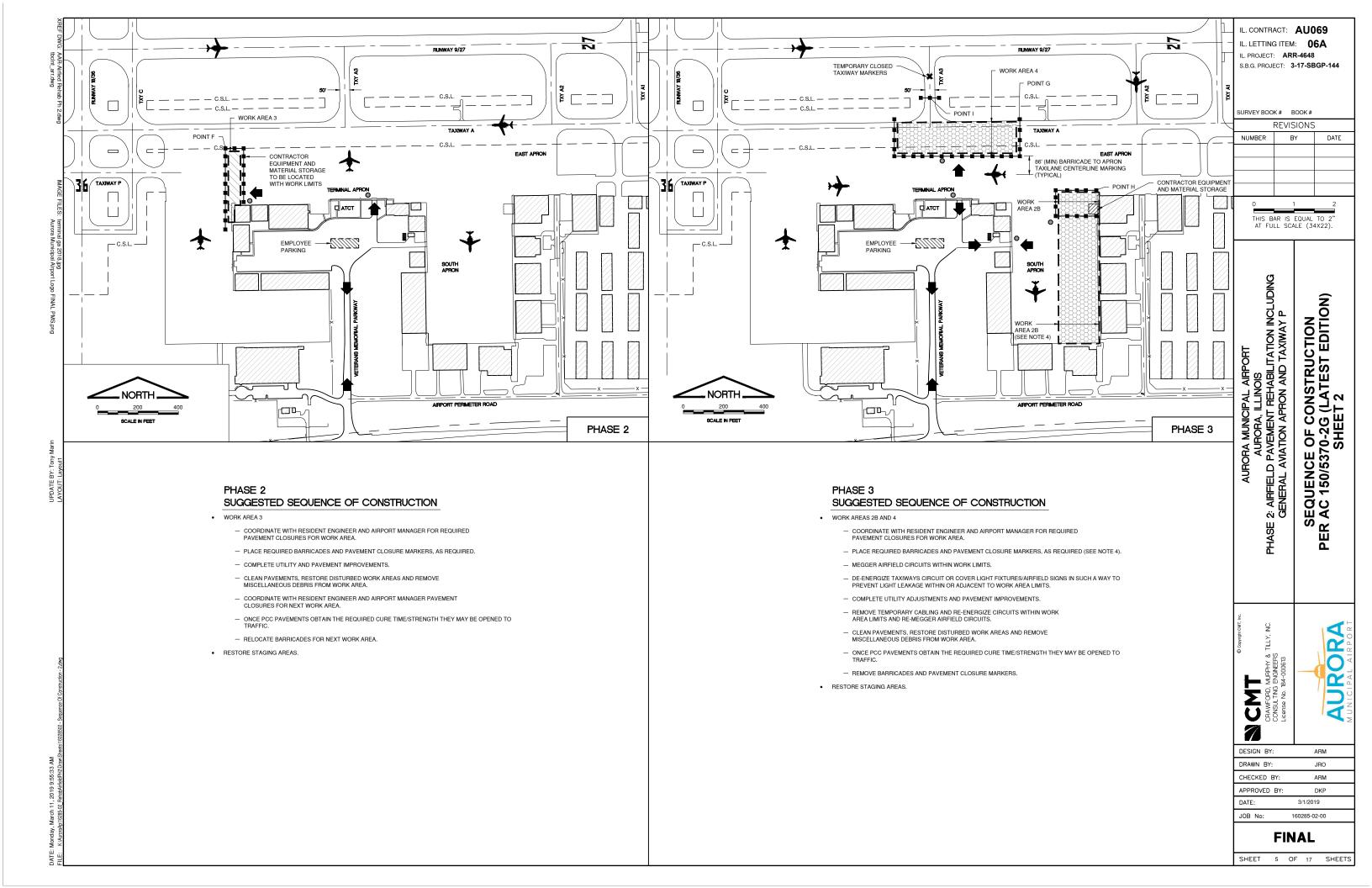
# AURORA, ILLINOIS O PAVEMENT REHABILITATION INCLUDING AVIATION APRON AND TAXIWAY P CTION EDITION) CONSTRUCT (LATEST E ET 1 OF CC 70-2G ( SHEET CE 537 2: AIRFIELD F GENERAL AV 50/ AC SI PER /

2 œ

DESIGN BY: ARM DRAWN BY: JRO CHECKED BY: ARM APPROVED BY DKP DATE: 3/1/2019 160285-02-00 JOB No

**FINAL** 

SHEET 4 OF 17 SHEETS



#### **GENERAL NOTES**

- THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR THE ORDERLY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WHILE MAINTAINING AIRCRAFT ACCESS AT ALL TIMES. THE PHASING SHOWN IS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY, THIS SEQUENCE MAY BE MODIFIED HOWEVER, ALTERNATE STAGING PLANS MUST MAINTAIN AIRPORT OPERATIONS TO THE SATISFACTION OF THE AIRPORT DIRECTOR AND RESIDEN ENGINEER AND BE APPROVED BY THE DIVISION OF AERONAUTICS AND FEDERAL AVIATION ADMINISTRATION
- ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2G (LATEST EDITION) OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION
- CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE/STAGING AREA WHEN
- THE AIRPORT DIRECTOR IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE APPROVAL OF HE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND AIRCRAFT SAFETY
- ALL EXISTING PAVEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR STORAGE AREA BY THE CONTRACTOR SHALL BE RESTORED IN KIND TO THEIR PRE-CONSTRUCTION CONDITION OR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT DIRECTOR. THE COST OF MAINTAINING, REPAIRING OR CONSTRUCTING THESE PAVEMENTS AND AREAS SHALL BE INCIDENTAL TO THE CONTRACT. EXISTING AREAS OUTSIDE THE PROJECT LIMITS WHICH ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR.
- THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIWAYS, APRONS AND RUNWAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE AIRPORT
- WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTIONS. LIGHT SHALL CONSIST OF MOVABLE POLE MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE. LIGHTING SHALL BE AS APPROVED BY THE RESIDENT ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY. CONTRACTOR'S WORK HOURS SHALL BE IN ACCORDANCE WITH LOCAL ORDINANCES
- THE CONTRACTOR SHALL PROVIDE PORTABLE FLOOD LIGHTING FOR NIGHTTIME CONSTRUCTION. SUFFICIENT UNITS SHALL BE PROVIDED SO THAT WORK AREAS ARE ILLUMINATED TO A LEVEL OF FIVE HORIZONTAL FOOT CANDLES. THE LIGHTING LEVELS SHALL BE CALCULATED AND MEASURED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE ILLUMINATION ENGINEERING SOCIETY. LIGHTS SHALL BE POSITIONED SO AS NOT TO INTERFERE WITH AIRPORT
- THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. WHEN ACTIVE AIRFIELD PAVEMENTS ARE UTILIZED AS HAUL ROADS BY THE CONTRACTOR, MATERIAL TRACKED ON TO THE PAVEMENT SHALL BE CONTINUALLY REMOVED WITH SAID SWEEPER. THIS SWEEPING SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE
- 10. MATERIALS REMOVED FROM THE PROJECT WILL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
- PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO BARRICADES, SIGNING, TAXIWAY AND RUNWAY CLOSED MARKERS, AIR OPERATIONS AREA (A.O.A.) LATHE AND RIBBON, ETC, SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES SHALL BE WEIGHTED TO PREVENT BLOWING OVER. BARRICADES SHALL HAVE A STEADY BURN OR FLASHING RED LIGHT. BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE A.O.A. BY CONTRACTOR'S WORKERS, FOUIPMENT OR MATERIAL, SIGNS SHALL BE PLACED AT EACH TAXIMAY/RUNWAY CLOSURE LOCATION AND SHALL BE ATTACHED TO THE BARRICADES, EACH BARRICADE LOCATION SHALL CONSIST OF ONE "DO NOT ENTER" SIGN AND ONE "AIRCRAFT MOVEMENT AREA" SIGN. SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 12. THE CONTRACTOR SHALL CONTACT THE AIRPORT DIRECTOR THROUGH THE RESIDENT ENGINEER TEN (10) WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION SO THAT THE APPROPRIATE NOTAMS MAY BE ISSUED
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACCESS GATES CLOSED DURING NON WORKING HOURS. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS GATE SAYING "AUTHORIZED PERSONNEL ONLY". THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE UPON LEAVING THE SITE, THROUGHOUT THE DURATION OF THE CONTRACT, ANY DAMAGES TO THE ACCESS ROAD, ACCESS GATE OR FENCING ADJACENT TO THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER. ALL COST RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 14. CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS AND HAVE BEACON LIGHTS ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION. SEE FLAG DETAIL.
- 15. IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE RESIDENT ENGINEER IMMEDIATELY.
- DURING ADVERSE WEATHER. THE CONTRACTOR SHALL MAKE PROVISIONS FOR ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK.
- THE TALLEST PIECE OF CONSTRUCTION EQUIPMENT IS ANTICIPATED TO BE AN ASPHALT/STONE TRUCK WHICH HAS A MAXIMUM HEIGHT OF 25 FEET IN A DUMP POSITION
- 18. IF RUNWAY NUMERALS ARE PRESENT DURING CONSTRUCTION THEN CONTRACTOR SHALL PLACE CLOSED RUNWAY NRKER OVER NUMERALS AS DETAILED, OTHERWISE PLACE RUNWAY CLOSED MARKER IN TURF AT ENDS OF RUNWAY AS
- 19. AURORA MUNICIPAL AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT, COORDINATION OF WORK WITH THE AIRPORT IS MANDATORY SO AS TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS.
- 20. APPROXIMATE LOCATION OF HAUL ROUTES ON THE AIRPORT SITE ARE SHOWN ON THE GENERAL PROJECT LAYOUT AND THE PHASING PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE ROADS USED AS HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION LIPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED AND DETERMINED BY THE CONTRACTOR AND THE ENGINEER. FENCING, DRAINAGE, GRADING AND OTHER MISCELLANFOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL BOUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE WORK, ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.
- 21. MOBILIZATION/EQUIPMENT STORAGE AREA WILL BE MADE AVAILABLE FOR CONTRACTOR'S MOBILIZATION AND STORAGE AS SHOWN ON THE PLANS. THIS AREA SHALL BE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT AT THE CONTRACTOR'S EXPENSE.

- 22. LOCATION OF KNOWN EXISTING AIRPORT UNDERGROUND CABLES ARE SHOWN ON THE PLANS AND MUST BE VERIFIED BY THE CONTRACTOR. REPAIR OF DAMAGED CABLE MUST BE STARTED IMMEDIATELY AND CONTINUED UNTIL COMPLETED, ALL SUCH REPAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, OR AS DIRECTED BY THE COWNER OF THE CABLE OR FACILITY, AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE FROM PREVIOUS EXISTING TERMINATION POINT TO NEXT EXISTING TERMINATION POINT IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF A FAA REPRESENTATIVE. THE OWNER MAY ELECT TO HAVE THE REPAIR PERFORMED BY OTHERS IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCURRED COSTS OF REPAIRS.
- 23. COORDINATION MEETINGS THE CONTRACTOR SHALL CONDUCT WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS AND SCHEDULING. ETC. WITH THE RESIDENT ENGINEER. AIRPORT OPERATIONS, FAA. AND OTHER APPROPRIATE OFFICIALS, MINUTES FROM THE WEEKLY MEETINGS SHALL BE PREPARED BY THE CONTRACTOR, FURNISHED TO ALL ATTENDEES PRIOR TO THE SUBSEQUENT MEETING, AND KEPT ON FILE AT THE FIELD OFFICE. THE COORDINATION MEETING COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT
- 24. THE CONTRACTOR SHALL PROVIDE THE PHONE NUMBERS OF THREE PERSONNEL, INCLUDING THE PROJECT SUPERINTENDENT, WHO MAY BE CONTACTED IN AN EMERGENCY. PERSONNEL SHALL BE ON CALL 24 HOURS PER DAY FOR MAINTAINING AIRPORT HAZARD LIGHTING AND BARRICADES.
- 25. DRAINAGE MODIFICATIONS SHALL BE SEQUENCED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AT NO ADDITIONAL
- 26. CONTRACTOR PERSONNEL, VEHICLES, EQUIPMENT AND BARRICADES SHALL NOT BE ALLOWED WITHIN THE TAXIWAY OBJECT FREE AREA (TOFA) OF ACTIVE TAXIWAYS AND THE BUNWAY SAFETY AREA (RSA) OF ACTIVE BUNWAYS LINESS OTHERWISE APPROVED BY THE AIRPORT DIRECTOR IN CONSULTATION WITH THE RESIDENT ENGINEER
- 27. CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A MANNER AS NOT TO VIOLATE FEDERAL AVIATION IINISTRATION PART 77 IMAGINARY SURFACES OR RUNWAY AND TAXIWAY SAFETY AREA
- 28. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER ELECTRICAL CABLES SHALL REMAIN IN SERVICE AT ALL TIMES. ALL EXISTING LIGHTING AND VAULT EQUIPMENT SHALL REMAIN IN SERVICE UNTIL PROPOSED IMPROVEMENTS ARE INSTALLED AND OPERATIONAL, UNLESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER. ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED AT HIS EXPENSE ANY NECESSARY TEMPORARY JUMPER CABLES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT
- 29. COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STARTED, CONTRACTOR IS REFERRED TO SECTION 70-17 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAVE BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OR THE DESIGN ENGINEER ASSUME ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY. COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND TYPE MATERIAL OF EXISTING UNDERGROUND UTILITIES AS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT DIRECTOR
- 30. ALL AIRFIELD LIGHTING AND LIGHTING GUIDANCE SYSTEMS (NAVAIDS) LOCATED WITHIN AND IMMEDIATELY ADJACENT TO THE CONTRACTORS WORK ZONE SHALL BE CHECKED FOR OPERATIONAL CONDITION PRIOR TO THE DEPARTURE FROM THE AIRPORT WITH THE AIRPORT MANAGER. ANY DEFICIENCIES IN THESE SYSTEMS DUE TO THE ACTS OF CONTRACTOR OR HIS SUBCONTRACTORS, SUPPLIERS OR CONSULTANTS SHALL BE REPAIRED IMMEDIATELY
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY FASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS AND TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY COUNTY TOWNSHIP OR LD O T

#### AIRFIELD LIGHTS AND SIGNS NOTES

- 1. CONTRACTOR SHALL COVER ALL AIRFIELD SIGNS AND TAXIWAY LIGHTS ON CLOSED TAXIWAYS UNTIL THE TAXIWAY IS RE-OPENED FOR AIRCRAFT USE. THE METHOD AND MATERIALS USED TO COVER THE SIGNS AND LIGHTS SHALL MEET THE ENGINEER'S AND AIRPORT'S APPROVAL, COST INCIDENTAL TO THE CONTRACT. REMOVING LAMPS FROM ENERGIZED FIXTURES AS A MEANS TO REMOVE THE LIGHTS OR FIXTURES FROM SERVICE SHALL NOT BE ACCEPTABLE
- 2. CONTRACTOR SHALL TURN OFF RUNWAY EDGE LIGHTING REGULATOR AND LOCK-OUT/TAG-OUT CIRCUIT BREAKER AND CUT OUT INSIDE THE ELECTRICAL VAULT, DURING ALL RUNWAY CLOSURES, CONTRACTOR SHALL COORDINATE ACCESS TO THE VAULT WITH THE AIRPORT MANAGER/RESIDENT ENGINEER PRIOR TO RE-OPENING THE RUNWAY, THE CONTRACTOR SHALL COORDINATE WITH AIRPORT MANAGER/RESIDENT ENGINEER TO RE-ENERGIZE THE RUNWAY CIRCUIT.

### LIMITATIONS ON CONSTRUCTION WITHIN RUNWAY SAFETY AREA (RSA)

#### AND TAXIWAY/TAXILANE OBJECT FREE AREA (TOFA)

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT DIRECTOR TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. WORK SHALL BE EXPEDITED IN THESE AREAS AND AT THE END OF EACH WORKING DAY THESE AREAS SHALL BE SMOOTHLY GRADED TO ALLOW THE RUNWAY TO BE REOPENED UNLESS OTHERWISE SHOWN ON THE PLANS. AT LEAST ONE OF THE RUNWAYS SHALL REMAIN IN OPERATION AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE AIRPORT DIRECTOR IN CONSULTATION WITH THE RESIDENT ENGINEER. IF NECESSARY STEEL PLATES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TRENCHES OR EXCAVATION WITHIN THE RSA IF DURING RUNWAY CLOSURE AN EMERGENCY IS DECLARED, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY OF ALL VEHICLES. MEN AND EQUIPMENT, REFERENCE TABLE ON PREVIOUS SHEET FOR SAFETY AREA WIDTHS.

#### TAXIWAYS/TAXILANES:

ANY WORK WITHIN TAXIWAY OBJECT FREE AREA (TOFA) WILL REQUIRE A TAXIWAY CLOSURE. WORK WITHIN THE TOFA SHALL BE EXPEDITED. ANY DROP OFF SHALL BE ADEQUATELY LIGHTED, SIGNED AND BARRICADED. NO MATERIAL SHALL BE STOCKPILED WITHIN THE TOFA. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT DIRECTOR FIVE (5) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. REFERENCE TABLE ON PREVIOUS SHEET FOR OBJECT FREE AREA WIDTHS, NO DROP-OFFS OR OPEN EXCAVATIONS WILL BE ALLOWED WITHIN THE TAXIWAY SAFETY AREAS OF OPEN TAXIWAYS

#### CONTRACTOR CROSSING RUNWAY/TAXIWAY/TAXILANE/APRON AIR OPERATIONS AREA (A.O.A.)

- ANYTIME THE CONTRACTOR IS REQUIRED TO UTILIZE OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO AND FROM THE WORK ZONE, A CROSSING GUARD OR ESCORT IN RADIO CONTACT WITH THE CONTROL TOWER SHALL BE FURNISHED BY THE CONTRACTOR FOR MOVEMENTS OF VEHICLES OR EQUIPMENT TO AND FROM THE WORK ZONE. THE RADIO OPERATOR SHALL BE FAMILIAR WITH AIRPORT GROUND CONTROL PROCEDURES AND DEMONSTRATE KNOWLEDGE OF SAME TO THE AIRPORT. THE AIRPORT RESERVES THE RIGHT TO APPROVE THE CROSSING GUARDS. THE CONTRACTOR SHALL PROVIDE THEIR OWN RADIOS. THIS COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, THE CONTRACTOR SHALL BE SPONSIBLE FOR PAYMENT OF MUNICIPAL FINES (\$500 PER OCCURRENCE) DUE TO AIRFIELD INCURSIONS BY HIS PLOYEES, SUBCONTRACTORS, SUPPLIERS, CONSULTANTS AND/OR AGENTS.
- 2. ANY PAVEMENT DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY HIM TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT DIRECTOR AT NO ADDITIONAL COST TO THE OWNER. PAVEMENT SHALL BE CONTINUALLY SWEPT TO PROVIDE DEBRIS FREE SURFACE DURING ALL HAUL ROAD OPERATIONS. THIS COST SHALL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT
- WORK WITHIN THE A.O.A. SHALL BE EXPEDITED. ANY DROP OFF SHALL BE ADEQUATELY LIGHTED, SIGNED AND BARRICADED. NO MATERIAL SHALL BE STOCKPILED WITHIN THE A.O.A. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE MEN AND EQUIPMENT TO ALLOW AIRCRAFT TO PASS. THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT DIRECTOR TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS.

#### DESIGN AIRCRAFT APPROACH CATEGORY: D DESIGN AIRPORT GROUP: III

GROUND CONTROL FREQUENCY: 121.70 AIR CONTROL FREQUENCY: 120.60 MAXIMUM ANTICIPATED HEIGHT OF CONSTRUCTION EQUIPMENT: 25

CONSTRUCTION POINT TABLE					
POINT	NEAREST ACTIVE RUNWAY	LATITUDE	LONGITUDE	ELEVATION	
Α	CENTERLINE RUNWAY 15/33	41°46'04.26"	88°28'27.69"	695.4	
В	CENTERLINE RUNWAY 9/27	41°46'08.18"	88°28'17.79"	702.4	
С	CENTERLINE RUNWAY 15/33	41°46'15.62"	88°28'17.80"	701.7	
D	CENTERLINE RUNWAY 9/27	41°46'08.44"	88°27'54.77"	705.8	
E	CENTERLINE RUNWAY 9/27	41°46'06.24"	88°27'51.97"	703.7	
F	CENTERLINE RUNWAY 9/27	41°46'08.29"	88°28'08.41"	703.0	
G	CENTERLINE RUNWAY 18/36	41°46'09.75"	88°27'54.76"	704.0	
Н	CENTERLINE RUNWAY 9/27	41°46'06.27"	88°27'49.70"	704.5	
ı	CENTERLINE RUNWAY 9/27	41°46'10.77"	88°28'00.60"	704.4	
J	CENTERLINE RUNWAY 15/33	41°46'06.12"	88°28'20.96"	698.6	
К	CENTERLINE RUNWAY 9/27	41°46'10.58"	88°28'17.79"	702.4	
L	CENTERLINE RUNWAY 9/27	41°46'04.24"	88°27'54.53"	704.4	

IL. CONTRACT: AU069 IL. LETTING ITEM: 06A

IL. PROJECT: ARR-4648 S.B.G. PROJECT: 3-17-SBGP-144

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REVISIONS			
NUMBER	BY	DATE	

THIS BAR IS EQUAL TO AT FULL SCALE (34X22)

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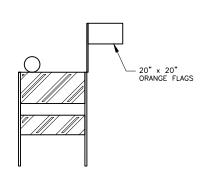
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DESIGN BY ARM DRAWN BY: JRO CHECKED BY: ARM APPROVED BY DKP DATE 3/1/2019 JOB No 160285-02-00

FINAL

SHEET 6 OF 17 SHEETS



#### FLASHER BARRICADE DETAIL - IDOT TYPE 2 (WORK AREA 1 ONLY)

#### FLASHER BARRICADE NOTES

- 1. FLASHERS TO BE BATTERY OPERATED. LENS TO BE RED AND BE ABLE TO ROTATE 90 DEGREES
- 2. SANDBAGS TO BE PLACED ON EACH SUPPORT BRACE AS REQUIRED TO PREVENT DISPLACEMENT BY WIND, JET OR
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BARRICADES AT ALL TIMES TO THE SATISFACTION OF THE
- 4. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM COSTS SHALL BE CONSIDERED INCIDENTAL TO THE
- 5. PLACE BARRICADES AT 4' INTERVALS.
- 6. ALTERNATE FLASHER LENSES SO THAT EVERY OTHER

BARRICADE NOTES

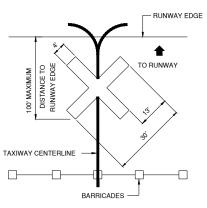
REQUIREMENTS

**OBJECT FREE AREAS.** 

INCIDENTAL TO THE CONTRACT.

AND BE ABLE TO ROTATE 90°.

SO THAT EVERY OTHER LENS IS ROTATED 90°.



#### **CLOSED TAXIWAY MARKER DETAIL**

NOT TO SCALE

#### CLOSED TAXIWAY MARKER DETAIL NOTES

- CLOSED TAXIWAY MARKERS SHALL BE PAINTED WITH TEMPORARY MARKING CAPABLE OF BEING REMOVED WITH LOW PRESSURE WATER BLASTING OR OTHER MATERIAL THAT DOES NOT VIOLATE THE OBJECT FREE AREA CRITERIA AND RUNWAY SAFETY AREA CRITERIA PER ADVISORY CIRCULAR 150/5300-13A (LATEST EDITION) AND ARE APPROVED BY THE AIRPORT.
- CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
- COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT
- 4. PLACE MARKERS OVER TAXIWAY CENTERLINE

**(** 

RED FLASHERS OR RED STEADY BURN (TYP)

-SAFETY ORANGE

PLAN VIEW

SIDE VIEW

AIRSIDE LOW PROFILE LIGHTED BARRICADE (WORK AREAS 1 - 4)

NOT TO SCALE

2. FACING OF BARRICADE SHALL BE COVERED WITH REFLECTIVE TAPE OR PAINT.

4. FLASHER OR STEADY BURN LIGHTS SHALL BE SECURED TO THE BARRICADES, AS

6. BARRICADES SHALL BE OF A COMMERCIAL DESIGN AND SHALL MEET CURRENT FAA

7. PLACE ALL BARRICADES OUTSIDE RUNWAY SAFETY AREAS AND OUTSIDE TAXIWAY

ALL COST ASSOCIATED WITH THE LOW PROFILE BARRICADES SHALL BE CONSIDERED

FLASHER OR STEADY BURN LIGHTS SHALL BE BATTERY OPERATED. LENS SHALL BE RED

BARRICADES TO BE PLACED WITH A MAXIMUM OF 4' SPACING END TO END UP TO THE

BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN

AIRCRAFT OR ANY OF IT COMPONENTS, AND WEIGHTED TO AVOID BEING BLOWN OVER.

EDGE OF PAVEMENT ALONG OPERATIONAL PAVEMENT ADJACENT TO CONSTRUCTION AS

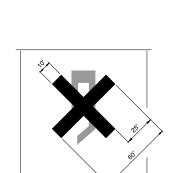
DIRECTED BY THE RESIDENT ENGINEER. ALTERNATE FLASHER OR STEADY BURN LENSES

- 6" TO 12" WIDE

- MARKERS SHALL BE ADEQUATELY SECURED TO PREVENT MOVEMENT BY PROPELLER WASH, JET BLAST OR OTHER WIND CURRENTS.
- 6. MARKERS ARE ONLY REQUIRED FOR TAXIWAYS CLOSED THREE (3)

-20" X 20" NYLON FLAG WITH 12 GA. DIAGONAL WIRE STIFFENER. TWO FLAGS TOTAL (ONE ORANGE AND

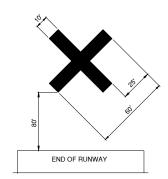
ONE WHITE FLAG). FLAGS SHALL BE REMOVABLE.



CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG

NOT TO SCALE

#### ON PAVEMENT **CLOSED RUNWAY MARKER DETAIL**

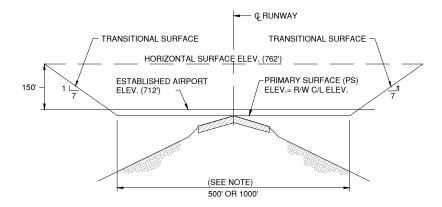


#### OFF PAVEMENT CLOSED RUNWAY MARKER DETAIL

NOT TO SCALE

#### CLOSED RUNWAY MARKER DETAIL NOTES

- CLOSED RUNWAY MARKERS SHALL BE YELLOW.
- 2. MARKERS SHALL BE MATERIAL APPROVED BY THE ENGINEER
- CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
- 4. MARKERS ON PAVEMENT SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS AS SHOWN.
- COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- DURING VARIOUS PHASES OF WORK, IT WILL BE NECESSARY TO CLOSE RUNWAYS TO AIR TRAFFIC ON A TEMPORARY BASIS AS COORDINATED WITH THE AIRPORT AND TOWER PERSONNEL. THE CONTRACTOR SHALL MARK THE RUNWAYS TO BE CLOSED BY PLACING A YELLOW CROSS AT THE LOCATION AND DIMENSIONS DETAILED ON THIS SHEET. THE CROSSES ARE SHOWN ON THE RESPECTIVE RUNWAYS ACCORDING TO THE VARIOUS PHASES OF WORK AS DELINEATED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION.



#### TYPICAL SECTION F.A.R. PART 77 IMAGINARY SURFACES

NO SCALE

NOTE:

IMAGINARY SURFACE REQUIREMENTS FOR **EXISTING ACTIVE RUNWAYS (R/W) ARE** SIMILAR EXCEPT PRIMARY SURFACE (PS) DIMENSIONS VARY R/W 18-36 500' PS (250' LT & RT OF **Ģ**) R/W 9-27,15/33 1000' PS (500' LT & RT OF Q)

C/L RUNWAY INNER-TRANSITIONAL OFA LENGTH VARIES (CAT-I) (TYP.) HORIZONTAL SURFACE ELEV. (762') 400' OFZ RWY 9/27 AND 15/33 ESTABLISHED AIRPORT ELEVATION (712') 250' OFZ RWY 18/36

#### TYPICAL SECTION **OBSTACLE FREE ZONE (OFZ)**

NO SCALE

RUNWAY	TYPE OF RUNWAY	H (FEET)
9-27	PRECISION (CAT I)	43
15-33	NON-PRECISION	150



#### TYPICAL PROFILE F.A.R. PART 77 IMAGINARY SURFACES

NO SCALE

RUNWAY END	ELEVATION	APPROACH SLOPE
9	707	50:1
27	706	34:1
18	700	20:1
36	700	20:1
15	712	34:1
33	699	34:1

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IL. CONTRACT: AU069

IL. LETTING ITEM: 06A

DATE

IL. PROJECT: ARR-4648 S.B.G. PROJECT: 3-17-SBGP-144

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7 OF 17 SHEETS

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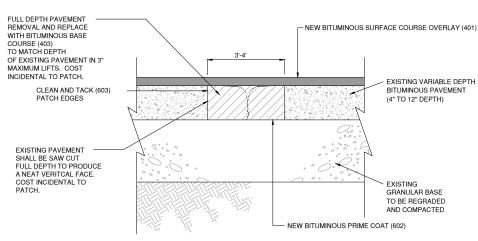
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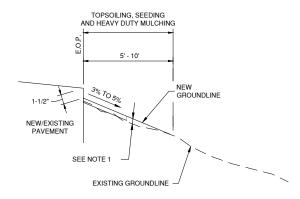
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#### REMOVE AND REPLACE BITUMINOUS PAVEMENT - TYPE B

#### PAVEMENT REMOVAL AND REPLACEMENT NOTES

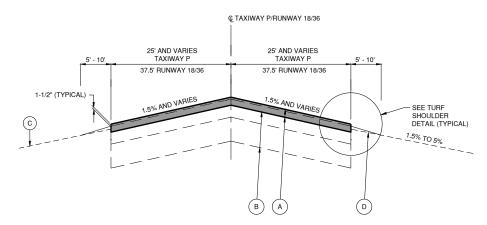
- DEPTHS OF EXISTING PAVEMENTS SECTIONS ARE APPROXIMATE BASED ON DATA SUPPLIED BY RECORDS, AIRPORT PERSONNEL, AND PAVEMENT CORES. THE CONTRACTOR SHALL VERIFY THE TYPE AND THICKNESS OF MATERIAL TO REMOVE. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY VARIATION IN THE PAVEMENT OF THE PAVEM SECTIONS ACTUALLY ENCOUNTERED.
- 2. PAVEMENT REMOVAL AND REPLACEMENT QUANTITIES ARE ESTIMATED. EXISTING MEDIUM TO HIGH SEVERITY TRANSVERSE CRACKS ARE SPACED AT VARIABLE INTERVALS. THE RESIDENT ENGINEER SHALL LAY OUT PAVEMENT REMOVAL AND REPLACEMENT AREAS IN THE FIELD DURING CONSTRUCTION.
- 3. THIS WORK SHALL BE DETERMINED IN THE FIELD WITH THE AIRPORT/ENGINEER AFTER INSPECTION OF THE



#### TURF SHOULDER DETAIL

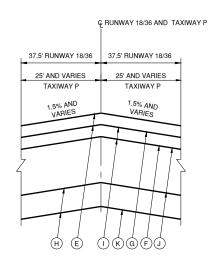
#### NOTES:

- 1. TOPSOIL REQUIRED FOR FILL WILL VARY IN DEPTH.
- 2. LIMITS OF TURF SHOULDER SHALL BE ADJUSTED IN THE FIELD AS REQUIRED.



#### **RUNWAY 18/36 AND TAXIWAY P** TYPICAL SECTION A-A

NOT TO SCALE NOTE: SEE SHEET 9 FOR KEY MAR



#### **RUNWAY 18/36 AND TAXIWAY P** TYPICAL SECTION B-B

NOT TO SCALE NOTE: SEE SHEET 9 FOR KEY MAP

#### LEGEND

- NEW 2"± BITUMINOUS SURFACE MILLING (401) NEW 2" BITUMINOUS SURFACE COURSE (401) NEW BITUMINOUS TACK COAT (603)
- (B) EXISTING BITUMINOUS PAVEMENT (DEPTH VARIES)
- (C) EXISTING GROUNDLINE
- TOPSOILING (905), SEEDING (800) AND HEAVY DUTY MULCHING (800)
- E NEW 2" BITUMINOUS SURFACE COURSE (401)
- F NEW PRIME COAT (602)
- NEW TACK COAT (603) (BETWEEN LIFTS)
- NEW 12" POROUS GRANULAR EMBANKMENT (208)
- NEW 2" BITUMINOUS BASE COURSE (403)
- J NEW 13" CRUSHED AGGREGATE BASE COURSE (209)
- (K) NEW SOIL STABILIZATION FABRIC (152)

IL. CONTRACT: AU069 IL. LETTING ITEM: 06A IL. PROJECT: ARR-4648

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**DETAILS** 

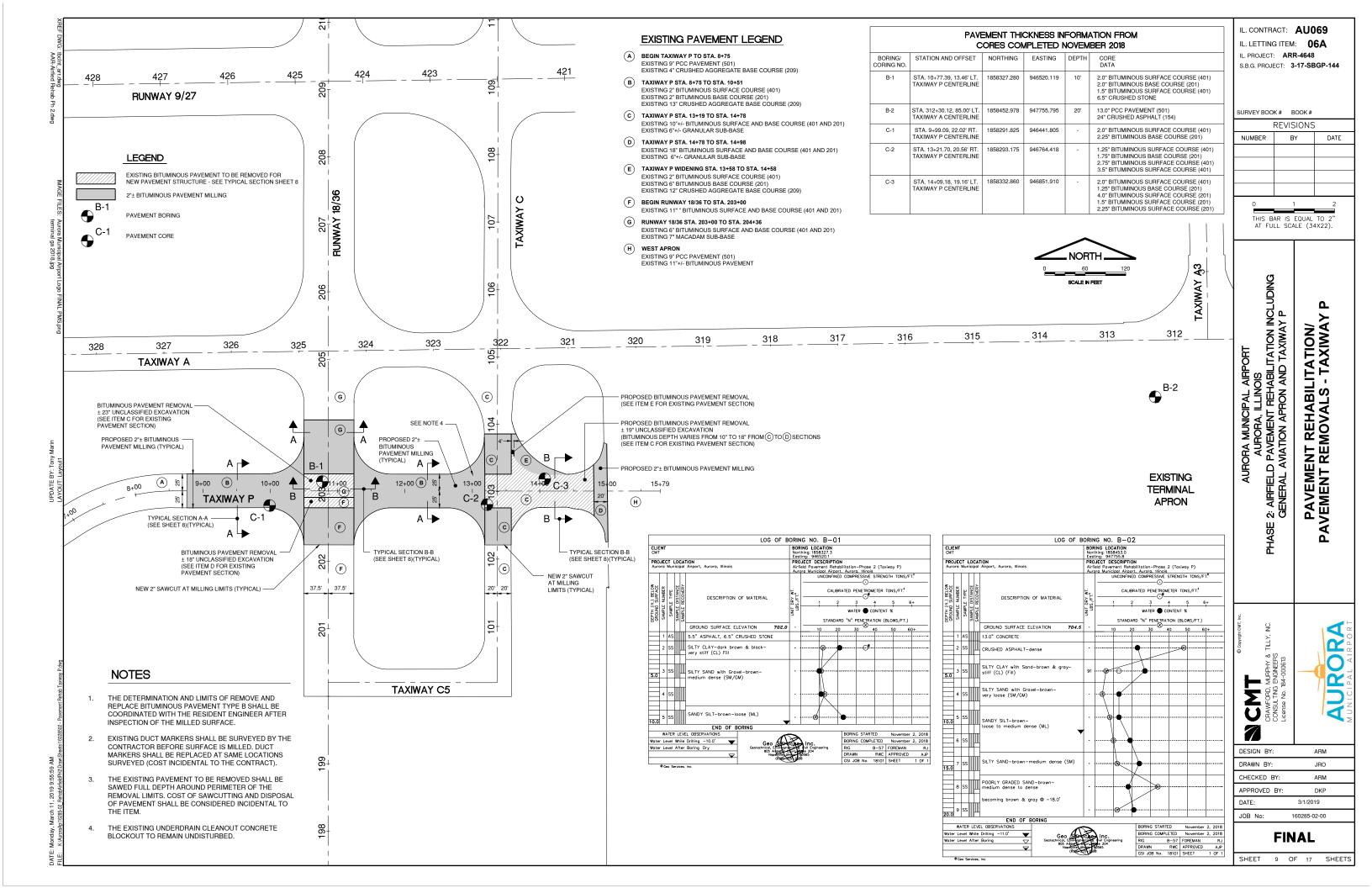
AURORA MUNICIPAL AIRPORT AURORA, ILLINOIS 2: AIRFIELD PAVEMENT REHABILITATION INCLUDING GENERAL AVIATION APRON AND TAXIWAY P TYPICAL SECTIONS PAVEMENT REHABILITATION

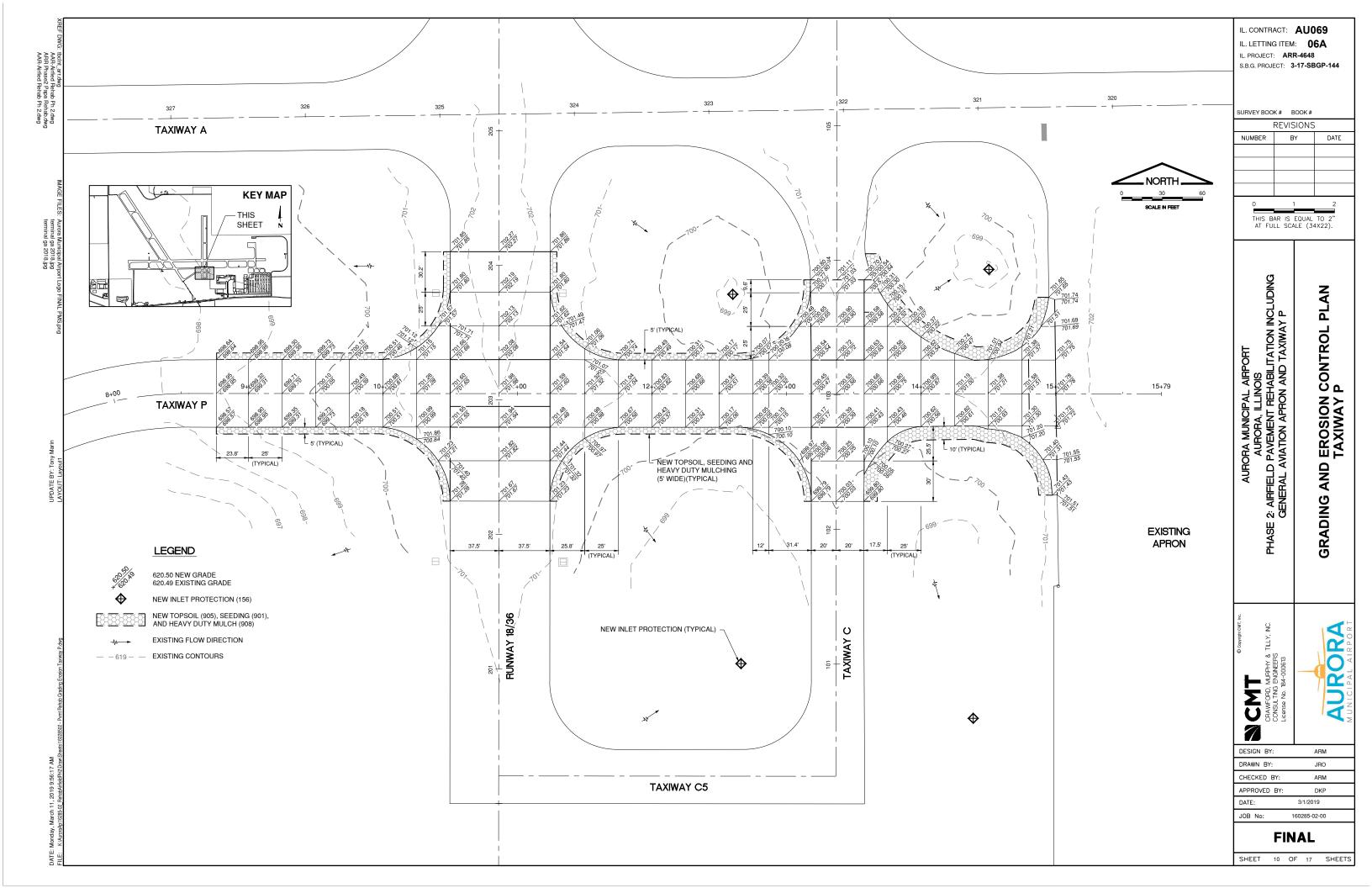
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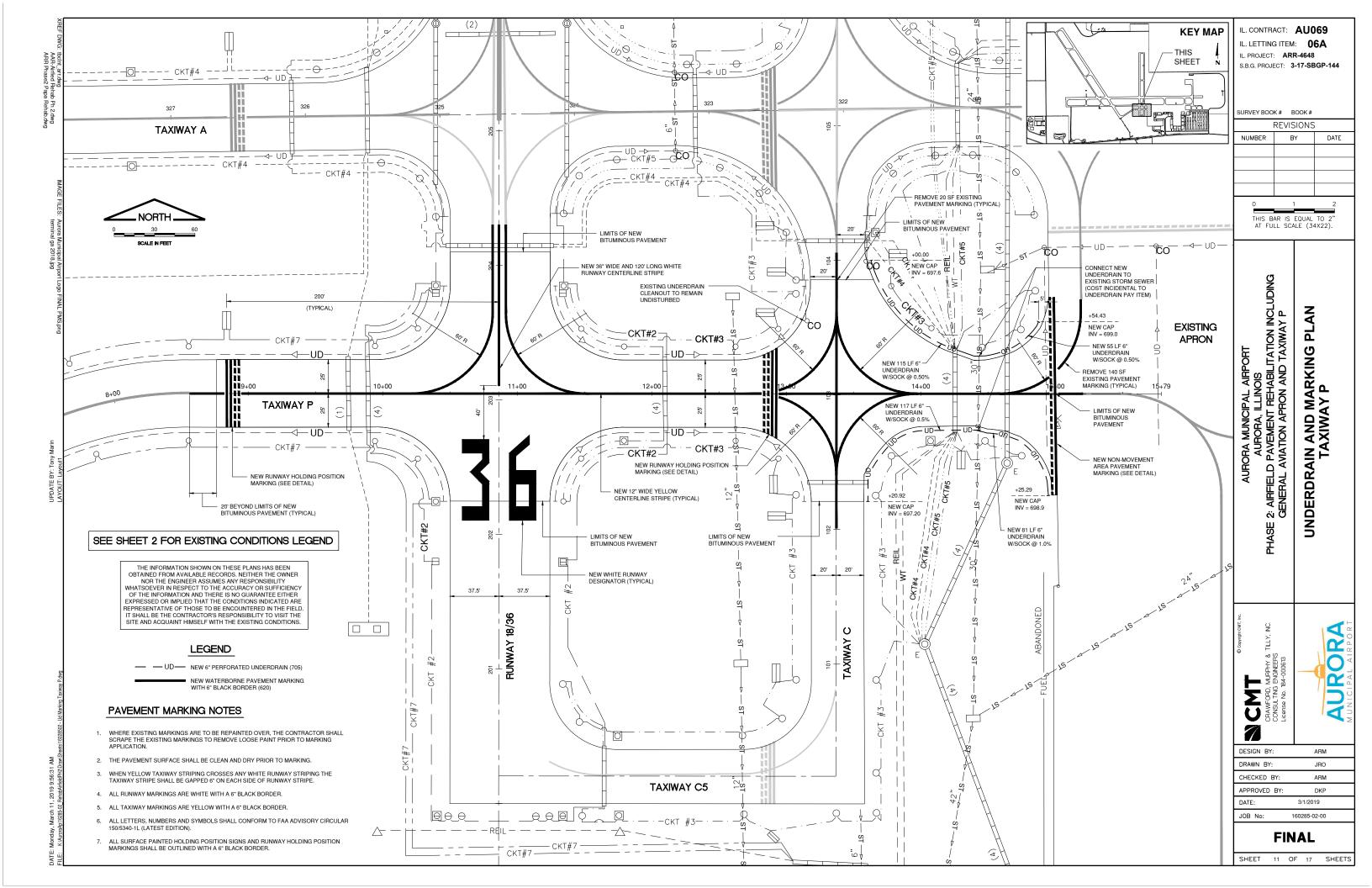
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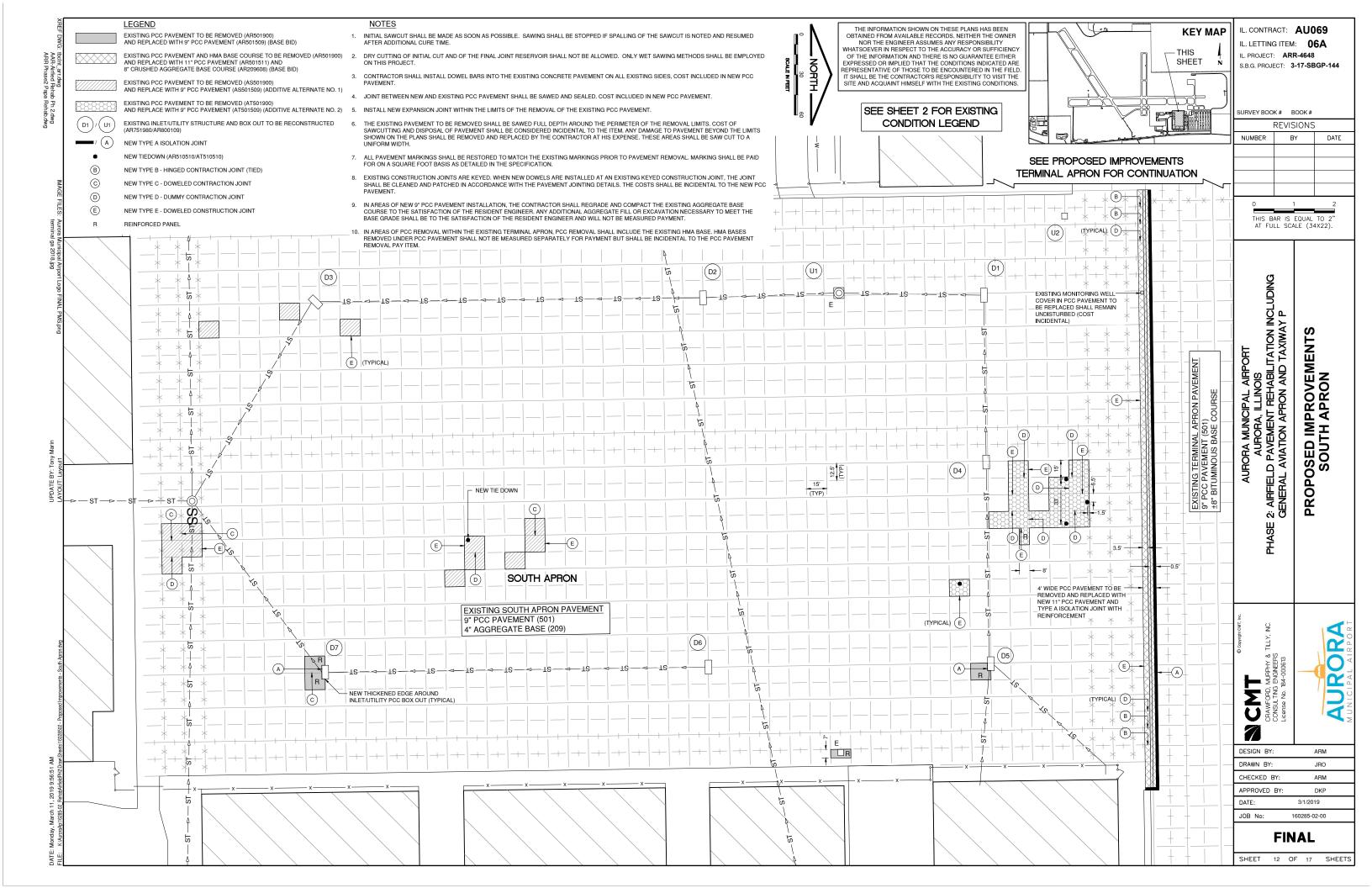
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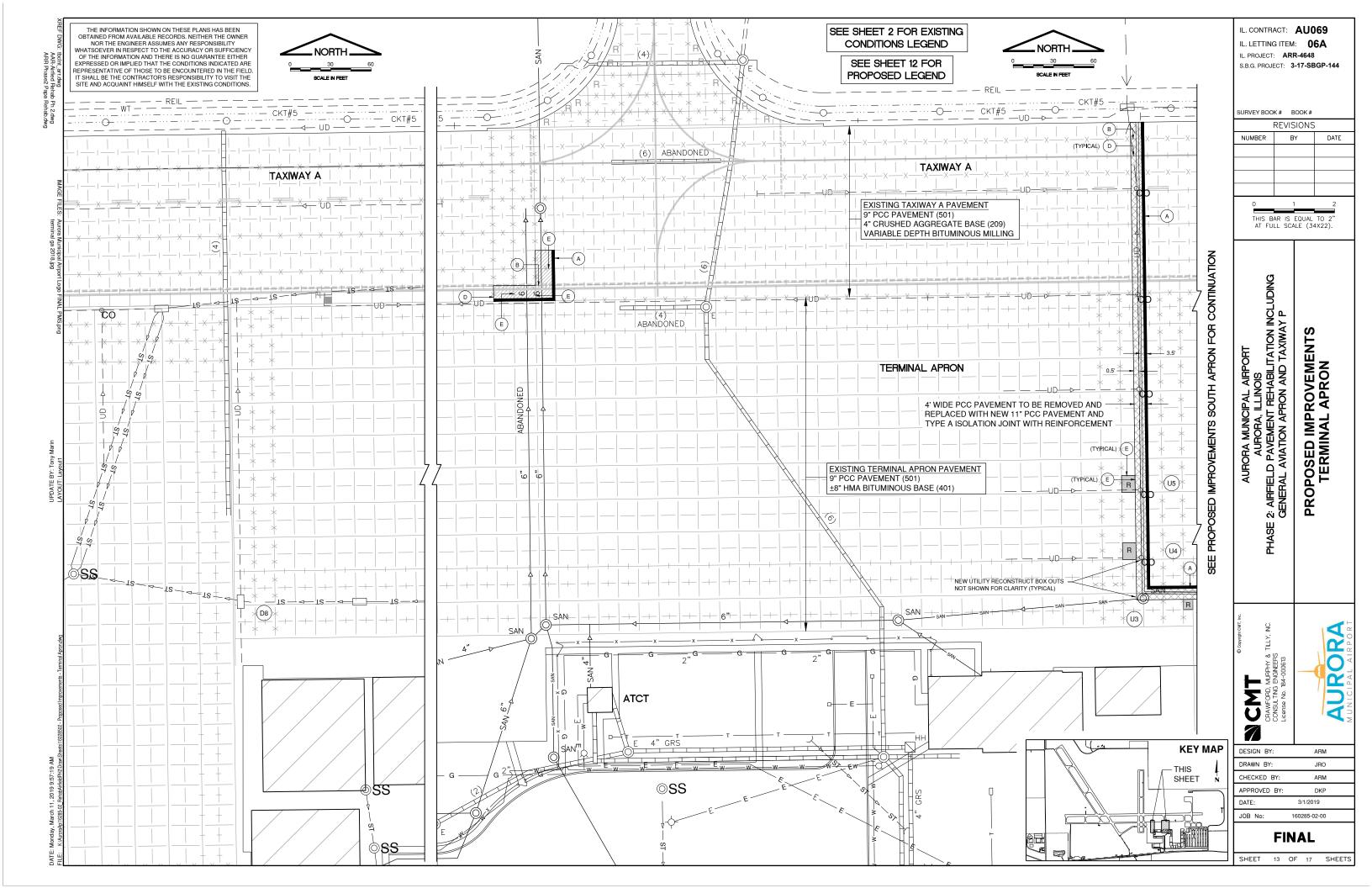
SHEET 8 OF 17 SHEETS

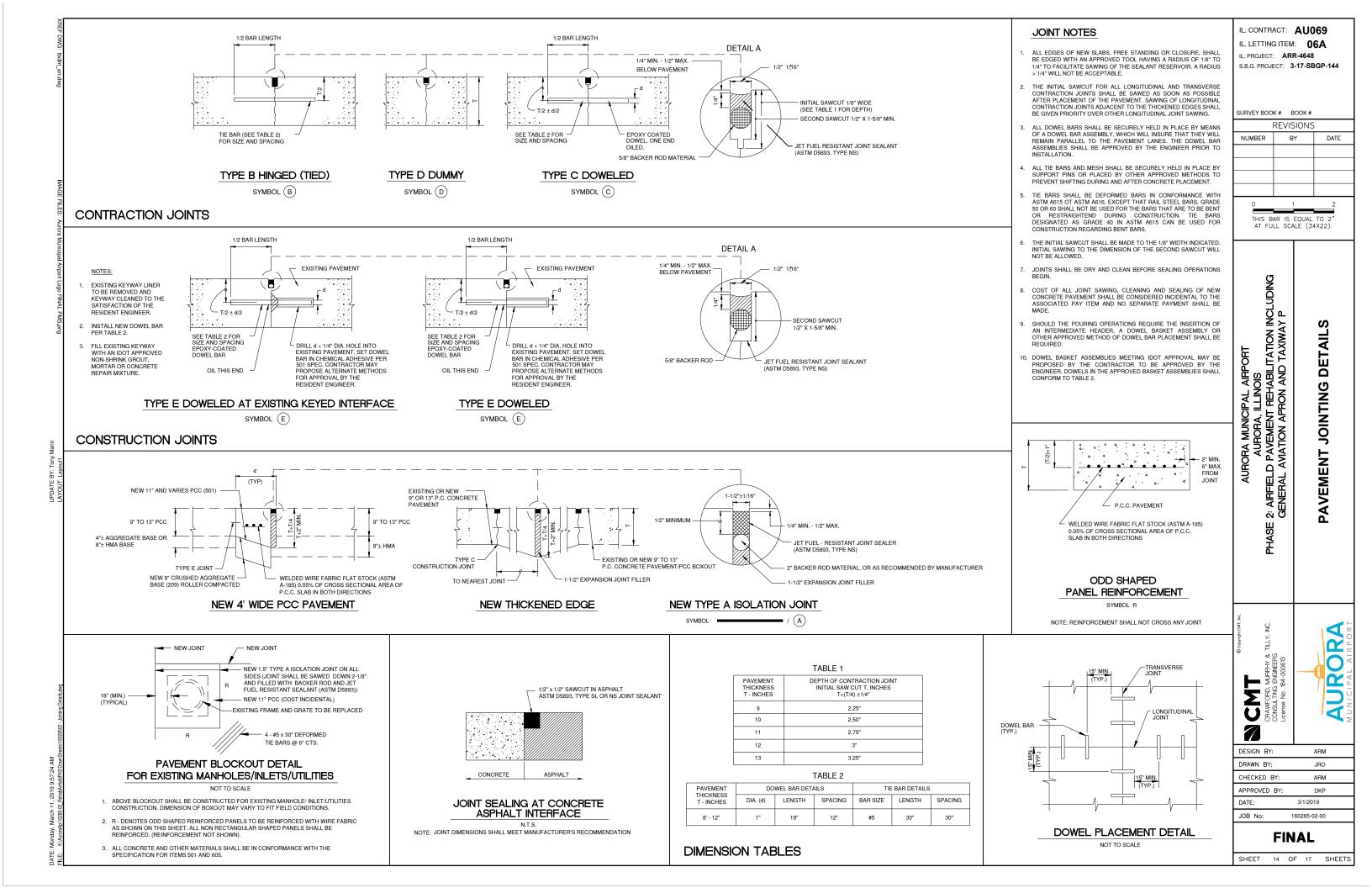












#### STORM WATER POLLUTION PREVENTION NOTES

THE FOLLOWING IS TO ESTABLISHED BEST MANAGEMENT PRACTICES TO BE INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE WITH NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIMEFRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER. THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO FROSION AND REDUCING THE AND AS DIRECTED BY THE ENGINEER, INTERPORE MINIMENTAL THE AMOUNT OF TEMPORARY SEEDING, WHICH WILL BE THE CONTRACTOR'S COST. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THE PLANS.

#### SITE DESCRIPTION

THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

THIS PROJECT CONSISTS OF RECONSTRUCTING EXISTING HMA PAVEMENTS, PCC PAVEMENT REPLACEMENT, TOPSOIL PLACEMENT, SEEDING AND MULCHING AT AURORA MUNICIPAL AIRPORT.

THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE, SUCH AS EXCAVATION AND GRADING:

- 1. INSTALL CONCRETE WASHOUT AT CONTRACTOR STAGING AREA.
- 2. INSTALL TEMPORARY EROSION CONTROL MEASURES.
- 3. EXCAVATE FOR NEW PAVEMENTS.
- 4. CONSTRUCT NEW PAVEMENTS.
- 5. FINAL GRADING AND OTHER MISCELLANEOUS ITEMS.
- 6. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS SEEDING AND MULCH.

#### AREA OF CONSTRUCTION SITE

THE TOTAL AREA OF THE CONSTRUCTION SITE THAT WILL BE DISTURBED BY EXCAVATION, GRADING AND OTHER ACTIVITIES IS

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

THE CONSTRUCTION SITE DRAINS INTO STORM SEWERS THAT OUTLET INTO THE WELCH CREEK.

#### SEDIMENTATION AND EROSION CONTROL NOTES

THE RESIDENT ENGINEER WILL PERFORM PERIODIC INSPECTION OF THE SITE TO IDENTIFY POTENTIAL SEDIMENT AND EROSION

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL, UNLESS

THE DRAWINGS. SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE SEEDING AND MULCHING AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED WITHIN SEVEN (7) DAYS OF

#### DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION

- 1. WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION
- 2. EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED, AT THE CONTRACTORS EXPENSE, IF THEY ARE TO REMAIN UNUSED FOR
- 3. AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER.
- A. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
- EXCAVATED AREAS AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED, AT THE CONTRACTOR'S COST, IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN DAYS.
- 4. CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTANT IN ACCORDANCE WITH FPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- 5. SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF OFF SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.
- 6. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING, THE COST OF THIS REMOVAL SHALL BE INCIDENTAL TO THE CONTRACT

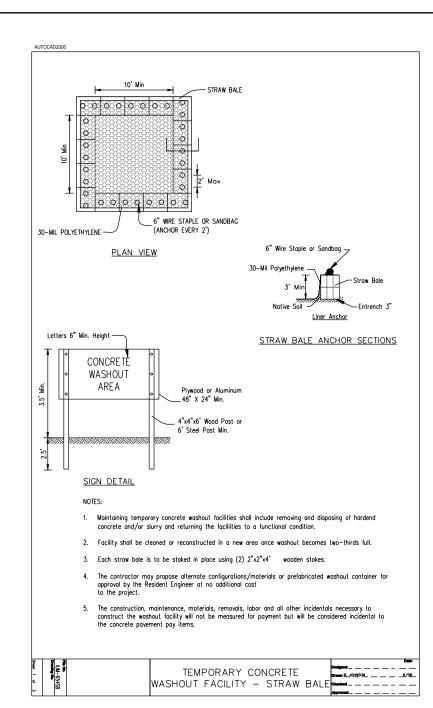
#### DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

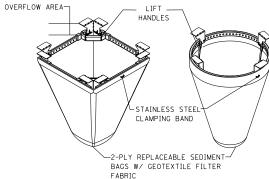
TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS ARE SEEDED AND ESTABLISHED.

ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, RARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED

#### MAINTENANCE AFTER CONSTRUCTION

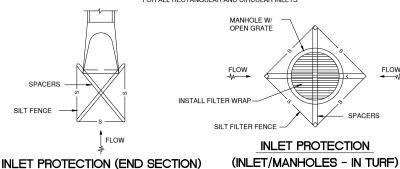
CONSTRUCTION IS COMPLETE AFTER FINAL ACCEPTANCE BY THE ILLINOIS DIVISION OF AERONAUTICS. MAINTENANCE UP TO THIS DATE WILL BE REQUIRED BY THE CONTRACTOR





#### INLET PROTECTION - SILT BASKET (PAVEMENT AND TURF)

NOT TO SCALE FOR ALL RECTANGULAR AND CIRCULAR INLETS



NOT TO SCALE

NOT TO SCALE

### NOTES FOR INLET PROTECTION DETAILS

- FILTER WRAP TO BE PLACED IN ALL SLOPE BOX INLETS. INLETS. MANHOLES. TRENCH RAINS AND CATCH BASINS LOCATED IN PAVED AREAS AND NONPAVED AREA
- FABRIC SHALL BE IN CONFORMANCE WITH ARTICLE 1080.03 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2016
- FABRIC SHALL OVERLAY FRAME BY 2" (MIN.).
- CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE
- FABRIC SHALL REMAIN IN PLACE UNTIL COMPLETION OF PAVEMENT REHABILITATION.
- COST OF FILTER WRAP AND MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

URVEY BOOK # BOOK # **REVISIONS** NUMBER

THIS BAR IS EQUAL TO 2 AT FULL SCALE (34X22).

BY

DATE

IL. CONTRACT: AU069 IL. LETTING ITEM: 06A

IL. PROJECT: ARR-4648 S.B.G. PROJECT: 3-17-SBGP-144

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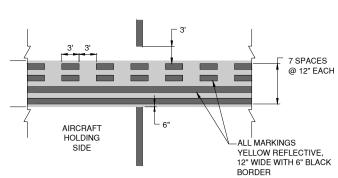
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DESIGN BY ARM DRAWN BY: JRO CHECKED BY: ARM APPROVED BY DKP DATE 3/1/2019 160285-02-00 JOB No.

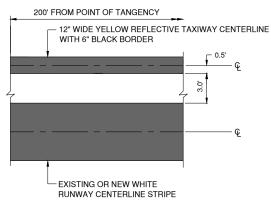
FINAL

SHEET 15 OF 17 SHEETS



#### RUNWAY HOLDING POSITION MARKING

NOT TO SCALE



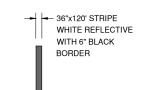
#### TAXIWAY LEAD-IN TANGENT DETAIL

NOT TO SCALE



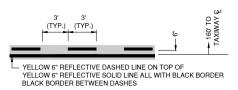
#### TAXIWAY CENTERLINE DETAIL

NOT TO SCALE



#### **RUNWAY CENTERLINE - DASHED**

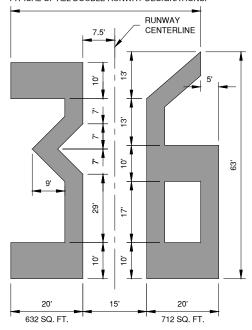
NOT TO SCALE



### NON-MOVEMENT AREA PAVEMENT MARKING DETAIL

NOT TO SCALE

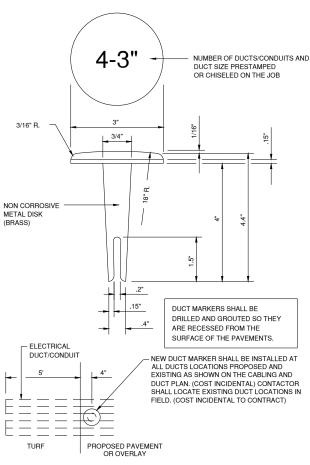
#### CENTER OF OUTER EDGES OF NUMERALS IS CENTERED ON THE PAVEMENT CENTERLINE. TYPICAL OF ALL DOUBLE RUNWAY DESIGNATIONS



#### **RUNWAY 36 LANDING DESIGNATORS**

#### **MARKING NOTE**

- ALL NEW AIRFIELD PAVEMENT MARKING SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
- 2. BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.



## **DUCT MARKER DETAIL**

NOT TO SCALE

#### - PROP. TEE PROVIDE WATERTIGHT SEAL AT CORE PIPE TO CONNECT PIPE CONNECTIONS USING WATER SEALING GROUT. PROPOSED UNDERDRAIN 6" UD 6" UD CORE PIPE TO CONNECT PVC TO 6" LID PROVIDE WATERTIGHT SEAL AT PIPE CONNECTIONS USING WATER SEALING GROUT.

#### UNDERDRAIN CONNECTION DETAILS NOT TO SCALE

WITH ANCHOR RODS #3

DEFORMED REBAR, 15" LONG, BENT DOWNWARD AT 45°

\_ 1-#6x4' DEFORMED

REINFORCING BAF (TYPICAL)

## STORM SEWER/UNDERDRAIN NOTES

- CONTRACTOR SHALL FIELD VERIFY EXISTING STORM SEWER/UNDERDRAIN INVERTS BEFORE INSTALLING PROPOSED PIPE, CONNECTIONS AND ORDERING
- 2. ALL UNDERDRAIN CONNECTIONS, CORING INTO STRUCTURES, CAPS, TEES, BENDS, STORM SEWER ETC. SHALL BE CONSIDERED INCLUDED IN THE COST OF
- 3. UNDERDRAIN SLOPES FOLLOW EDGE OF PAVEMENT SLOPE UNLESS OTHERWISE NOTED.

TIE DOWN REINFORCING DETAIL

NOT TO SCALE

TIE DOWN NOTES

2. THE ENDS OF REINFORCING BARS SHOULD BE PLACED 3" FROM PAVING JOINTS TO PROVIDE COVER.

3. MOORING EYES SHALL BE DUCTILE OR GREY IRON, RATED FOR

MINIMUM HEIGHT OF 3.5".

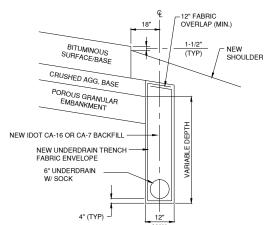
AIRPORT USE AND SHALL HAVE A

1 THESE #6 REINFORCING BARS

1-#6x3' DEFORMED REINFORCING BAR

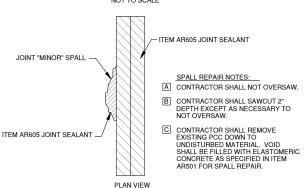
(TYPICAL)

4. UNDERDRAIN CONFLICTS WITH EXISTING CONDITIONS SHALL BE RESOLVED AND COST SHALL BE INCIDENTAL TO UNDERDRAIN.



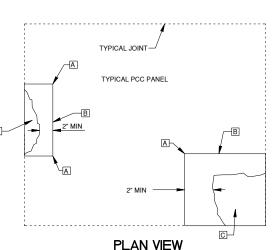
### **UNDERDRAIN DETAIL EDGE OF PAVEMENT AREAS**

NOT TO SCALE



## MINOR SPALL REPAIR DETAIL

NOTE: FOR MINOR SPALLS ADJACENT TO PCC REMOVAL LIMITS, CONTRACTOR SHALL FILL IN WITH JOINT SEALANT AT NO ADDITIONAL COST TO THE CONTRACT.



# SPALL REPAIR DETAIL

NOTE: SPALL REPAIR MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM C881, TYPE III

IL. CONTRACT: AU069 IL. LETTING ITEM: 06A IL. PROJECT: ARR-4648 S.B.G. PROJECT: 3-17-SBGP-144

SURVEY BOOK # BOOK #

REVISIONS NUMBER BY DATE

THIS BAR IS EQUAL TO 2 AT FULL SCALE (34X22).

AURORA MUNICIPAL AIRPORT
AURORA, ILLINOIS
ELD PAVEMENT REHABILITATION INCLUDING
AL AVIATION APRON AND TAXIWAY P

DETAIL **SCELLANEOUS** 2: AIRFIELD I GENERAL A

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**TASE** 

DESIGN BY ARM DRAWN BY: JRO CHECKED BY: ARM APPROVED BY DKP 3/1/2019 JOB No 160285-02-00

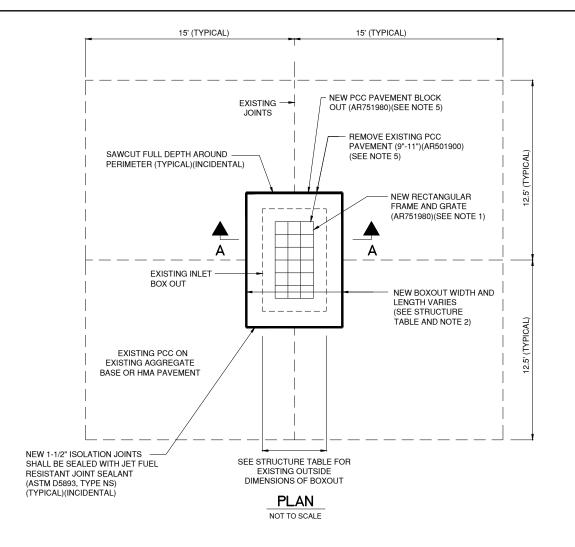
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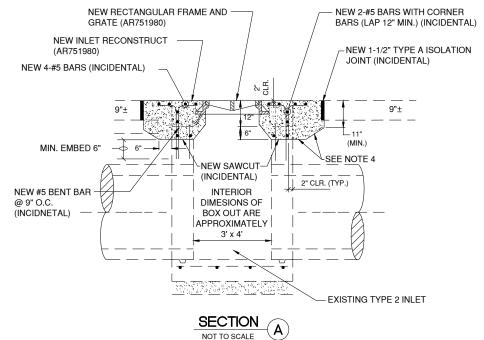
SHEET 16 OF 17 SHEETS

STRUCTURE TABLE					
STRUCTURE NUMBER	DESCIRPTION OF WORK	APPLICABLE PAY ITEMS			
D1	EXISTING TYPE 2 DRAINAGE INLET TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 8' X 7' NEW CONCRETE BOX OUT 10'X9' W/ NEW FRAME AND GRATE	AR751980 RECONSTRUCT INLET AR501900 REMOVE PCC PAVEMENT			
D2	EXISTING TYPE 2 DRAINAGE INLET TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 6'X5' NEW CONCRETE BOX OUT 10'X9' W/ NEW FRAME AND GRATE	AR751980 RECONSTRUCT INLET AR501900 REMOVE PCC PAVEMENT			
D3	EXISTING TYPE 2 DRAINAGE INLET TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 6'X5' NEW CONCRETE BOX OUT 10'X9' W/ NEW FRAME AND GRATE	AR751980 RECONSTRUCT INLET AR501900 REMOVE PCC PAVEMENT			
D4	EXISTING TYPE 2 DRAINAGE INLET TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 6'X5' NEW CONCRETE BOX OUT 10'X9' W/ NEW FRAME AND GRATE	AR751980 RECONSTRUCT INLET ARS01900 REMOVE PCC PAVEMENT			
D5	EXISTING TYPE 2 DRAINAGE INLET TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 9.5'X8' NEW CONCRETE BOX OUT 10.5'X9' W/ NEW FRAME AND GRATE	AR751980 RECONSTRUCT INLET AR501900 REMOVE PCC PAVEMENT			
D6	EXISTING TYPE 2 DRAINAGE INLET TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 8' X 8' NEW CONCRETE BOX OUT 10.5'X9.5' W/ NEW FRAME AND GRATE	AR751980 RECONSTRUCT INLET AR501900 REMOVE PCC PAVEMENT			
D7	EXISTING TYPE 2 DRAINAGE INLET TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 10'X8' NEW CONCRETE BOX OUT 11'X9' W/ NEW FRAME AND GRATE	AR751980 RECONSTRUCT INLET AR501900 REMOVE PCC PAVEMENT			
D8	EXISTING TYPE 2 DRAINAGE INLET TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 6'X5' NEW FRAME AND GRATE	AR751980 RECONSTRUCT INLET AR501900 REMOVE PCC PAVEMENT			
U1	EXISTING ELECTRICAL HANDHOLE TO BE RECONSTRUCTED EXISITING CONCRETE BOX OUT 6'X5.5' W/ 32" DIA. CLOSED LID AND FRAME.  NEW CONCRETE BOX OUT 7'X6.5' W/ NEW 32" DIA. CLOSED LID AND FRAME (AIRPORT RATED), STAMPED ELECTRIC.	AR800109 RECONSTRUCT UTILITY STRUCTURE AR501900 REMOVE PCC PAVEMENT (NEW LID/FRAME ARE INCIDENTAL TO UTILITY RECONSTRUCT PAY ITEM)			
U2	EXISTING MONITORING WELL TO BE RECONSTRUCTED EXISITING CONCRETE BOX OUT 2.1'X2.1' W/8" DIA. BOLTED LID AND FRAME. NEW CONCRETE BOX OUT 2.5'X2.5' W/ NEW 8" DIA. BOLTED AND CLOSED LID AND FRAME (AIRPORT RATED), STAMPED MONITORING WELL.	AR800109 RECONSTRUCT UTILITY STRUCTURE AR501900 REMOVE PCC PAVEMENT (NEW LID/FRAME ARE INCIDENTAL TO UTILITY RECONSTRUCT PAY ITEM)			
U3	EXISTING SANITARY MANHOLE TO BE RECONSTRUCTED EXISITNG CONCRETE BOX OUT 5'X5' W/ 24" DIA. BOLTED LID AND FRAME.  NEW CONCRETE BOX OUT 5'X5' W/ NEW 24" DIA. BOLTED AND SEALED LID AND FRAME (HEAVY DUTY RATED), STAMPED SANITARY.	AR800109 RECONSTRUCT UTILITY STRUCTURE AR501900 REMOVE PCC PAVEMENT (NEW LID/FRAME ARE INCIDENTAL TO UTILITY RECONSTRUCT PAY ITEM)			
U4	EXISTING UNDER DRAIN CLEANOUT TO BE RECONSTRUCTED EXISITING CONCRETE BOX OUT 6'X4' NEW CONCRETE BOX 6' x 5' W/ NEW 24" DIA CLOSED LID AND FRAME (AIRPORT RATED)	AR 800109 RECONSTRUCT UTILITY STRUCTURE AR501900 REMOVE PCC PAVEMENT (NEW LID/FRAME ARE INCIDENTAL TO UTILITY RECONSTRUCT PAY ITEM)			
U5	EXISTING UNDER DRAIN CLEANOUT TO BE RECONSTRUCTED EXISITING CONCRETE BOX OUT 5' X4' NEW CONCRETE BOX OUT 5' X 5' W/ NEW 24" DIA CLOSED LID AND FRAME (AIRPORT RATED)	AR 800109 RECONSTRUCT UTILITY STRUCTURE AR501900 REMOVE PCC PAVEMENT (NEW LID/FRAME ARE INCIDENTAL TO UTILITY RECONSTRUCT PAY ITEM)			

#### **NOTES**

- NEW RECTANGULAR FRAME AND GRATES SHALL BE AIRPORT RATED, MADE OF DUCTILE IRON OR GREY IRON. WITH A MINIMUM OPEN AREA OF 2.4 SF. COST OF FRAME AND GRATE IS INCIDENTAL TO ITEM AR751980
- 2. THE APPROXIMATE NEW DIMENSION OF THE INLET BOX OUT IS PROVIDED IN THE STRUCTURE TABLE. THE FINAL DIMENSIONS SHALL BE COORDINATED WITH RESIDENT ENGINEER IN THE FIELD.
- ADDITIONAL PCC PAVEMENT REMOVED BEYOND THE CURRENT BOX OUT DIMENSIONS SHALL BE PAID FOR AS ITEM AR501900. ALL CONCRETE, STEEL REINFORCEMENT AND JOINTING NECESSARY TO RECONSTRUCT THE INLET/UTILITY STRUCTURE SHALL BE INCIDENTAL TO ITEM AR751980/AR751995.
- 4. PRIOR TO CONCRETE PLACEMENT ALL DISTURBED SUBGRADES/SUBBASES SHALL BE BACKFILLED, SMOOTHLY GRADED AND COMPACTED TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- 5. ORIENTATION OF BOXOUTS TO EXISTING PCC PAVEMENTS VARIES IN THE FIELD.
- ALL PCC MATERIALS, REINFORCEMENT AND JOINTING SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS FOR ITEMS 501 AND 605.







SEE PLANS FOR LOCATIONS

