CONSTRUCTION PLANS

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

COLES COUNTY AIRPORT AUTHORITY
COLES COUNTY MEMORIAL AIRPORT (MTO)
MATTOON-CHARLESTON, COLES COUNTY, ILLINOIS

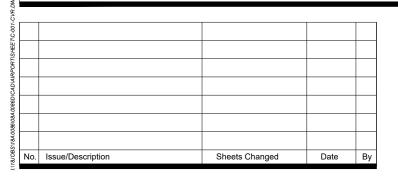
ILLINOIS PROJECT NO. MTO-4639

NOVEMBER 16, 2018

VICINITY MAP LOCATION MAP

NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.







COLES COUNTY AIRPORT

AUTHORITY

432 Airport Road
Mattoon, Illinois 61938
Telephone: 217.234.7120
Fax: 217.234.7116

November 16, 2018
Date

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SUMMARY OF QUANTITIES - BASE BID						
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	AS-BUILT QUANTITY		
AR108756	1/C #6 GROUND	L.F.	600			
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1			
AR150520	MOBILIZATION	L.S.	1			
AR152480	SHOULDER ADJUSTMENT	S.Y.	900			
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	L.F.	5,000			
AR201670	CRACK CONTROL FABRIC	S.Y.	13,500			
AR401613	BIT. SURF. CSEMETHOD I, SUPERPAVE	TON	2,350			
AR401650	BITUMINOUS PAVEMENT MILLING	S.Y.	13,500			
AR401910	REMOVE & REPLACE BIT. PAVEMENT	S.Y.	500			
AR510510	TIE DOWN	EACH	55			
AR510515	GROUND ROD	EACH	10			
AR510900	REMOVE TIE DOWN	EACH	61			
AR603510	BITUMINOUS TACK COAT	GAL.	3,400			
AR608511	NEW ASPHALT SURFACE TREATMENT	S.Y.	4,600			
AR620520	PAVEMENT MARKING-WATERBORNE	S.F.	2,550			
AR620525	PAVEMENT MARKING-BLACK BORDER	S.F.	2,650			
AR901510	SEEDING	ACRE	0.2			
AR908510	MULCHING	ACRE	0.2			

	SUMMARY OF QUANTITIES - ADDITIVE ALTERNATE						
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	AS-BUILT QUANTITY			
AS201670	CRACK CONTROL FABRIC	S.Y.	3,350				
AS401613	BIT. SURF. CSEMETHOD I, SUPERPAVE	TON	600				
AS401650	BITUMINOUS PAVEMENT MILLING	S.Y.	3,350				
AS401910	REMOVE & REPLACE BIT. PAVEMENT	S.Y.	150				
AS603510	BITUMINOUS TACK COAT	GAL.	850				

GENERAL NOTES

- 1. THE PROJECT PAY ITEMS ARE INTENDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL INCIDENTAL WORK REQUIRED TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE RESIDENT ENGINEER IS TO BE INCLUDED IN THE COSTS OF PERFORMING THESE ITEMS. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS OF THE PROJECT AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.
- 2. THE RULES, REGULATIONS, AND SPECIFICATIONS ENUMERATED HEREIN SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. THEY SHALL NOT PROHIBIT THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIAL THAN ARE SPECIFIED HEREIN, IF APPROVED BY THE ENGINEER.
- 3. ACCESS TO THE SITE SHALL BE RESTRICTED EXCLUSIVELY TO THE DESIGNATED CONSTRUCTION ENTRANCE, STAGING AREA, AND HAUL ROUTE. NO EQUIPMENT OR PERSONNEL SHALL BE PERMITTED OUTSIDE THE GENERAL PROJECT AREA.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND KEEP CLEAN OF DEBRIS ALL EXISTING AIRFIELD AND ROADWAY PAVEMENTS AT ALL TIMES. ANY DAMAGE TO EXISTING ELECTRICAL, DRAINAGE, AND PAVEMENT STRUCTURES SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE CONTRACT.
- 5. CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN RESTROOM FACILITIES.
- 6. THE LOCATION OF THE ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.
- 7. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL FOR ALL SALVAGEABLE MATERIAL REMOVED ON THE PROJECT.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR HAULING ON PUBLIC ROADS, AS APPLICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGES TO ANY PAVEMENTS (PUBLIC OR PRIVATE) CAUSED BY HIS/HER CONSTRUCTION FOUIPMENT OR PERSONNEL.
- 9. THE CONTRACTOR SHALL PROVIDE ONE SET OF PRELIMINARY REDLINED RECORD DRAWINGS TO THE RESIDENT ENGINEER AT THE COMPLETION OF THE PROJECT FOR INCORPORATION INTO THE OFFICIAL RECORD DRAWINGS HE WILL PREPARE
- 10. APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN THROUGHOUT THESE PLANS. THE CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND PROTECT THESE UTILITIES DURING CONSTRUCTION. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH THE PROPER AUTHORITIES FOR THE PURPOSE OF LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES.
- 12. MATERIAL CERTIFICATIONS MATERIALS <u>CANNOT</u> BE INSTALLED UNTIL <u>ALL</u> THE MATERIAL CERTIFICATIONS FOR THAT ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE RESIDENT ENGINEER. MATERIALS INSTALLED WITHOUT APPROVAL ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 13. <u>CERTIFIED PAYROLLS</u> THE RESIDENT ENGINEER <u>CANNOT</u> FORWARD A CONSTRUCTION REPORT FOR PAYMENT TO THE IDOT-DIVISION OF AERONAUTICS FOR PROCESSING UNTIL <u>ALL</u> CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THAT PERIOD PAYROLLS FOR THAT P

LITILITY NOTE

THE LOCATION, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER 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 OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE 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 COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE 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. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123. CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER, CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA. ALSO CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.

J.U.L.I.E. INFORMATION

COUNTY_____COLES
CITY_____MATTOON
TOWNSHIP____LAFAYETTE
SECTION NO.____14,15,22,23

COLES COUNTY MEMORIAL AIRPORT
432 AIRPORT ROAD
MATTTON, ILLINOIS 61938

HANSON Engineering | Planning | Alfied Service

Offices Nationwide www.hanson-inc.com

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Illinois Licensed
Professional Service Corporation
#184-001084

COLES COUNTY AIRPORT
AUTHORITY
COLES CONTY NEMORIAL AIRFORT

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

Contract No. CO066

NO.	DATE	DES	CRIPT	ION
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ISSUE:	11/16/20)18		
PROJEC	CT NO: 1	800A8	6	
CAD FIL	E: C-002-F	LP.DWG		
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DRAWN	BY: KB	3		

SUMMARY OF QUANTITIES AND INDEX TO SHEETS

REVIEWED BY: MJD 10/18/18

SHEET TITLE

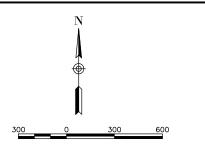
ALIGNMENT LINE DATA							
LINE ID	ALIGNMENT NAME	DIRECTION	START	END			
L1	TAXIWAY A	S69°27'35"E	30+00.00 N 1024970.24 E 998604.57	42+00.00 N 1024549.19 E 999728.28			

	HORIZONTAL AND VERITCAL CONTROL POINTS							
P	OINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION			
	H176	NGS H-176	1025242.395	998812.590	710.30			
	J176	NGS J-176	1025462.040	998687.430	707.85			
	PE1	5/8 REBAR	1024742.090	999008.027	707.24			

SURVEY NOTES

- ALL COORDINATE VALUES SHOWN IN TABLE ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD-83 (2011). ALL ELEVATIONS ARE REFERENCED TO NAVD 88.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND ANY EXTENSION OF THE CONTROL NETWORK NEEDED TO PROPERLY COMPLETE THE WORK.

CRITICAL POINTS							
POINT #	DESCRIPTION	LATITUDE	LONGITUDE	GROUND ELEVATION (MSL)	HEIGHT (AGL)		
CP-1	CONSTRUCTION EQUIP.	N39° 28' 55.48"	W88* 17' 01.53"	706.0'	15'		
CP-2	CONSTRUCTION EQUIP.	N39° 28' 50.79"	W88* 16' 52.10"	709.0'	25'		
CP-3	CONSTRUCTION EQUIP.	N39° 28′ 48.93″	W88* 16' 45.73"	711.0'	25'		
CP-4	STAGING AREA	N39° 28′ 51.55″	W88* 16' 40.11"	704.0'	25'		



LEGEND:



CONSTRUCTION SAFETY PLAN

- SCOPE OF WORK THIS PROJECT WILL CONSIST OF REHABILITATING THE EAST PORTION OF THE ASPHALT GENERAL AVIATION APRON BY MILLING AND RESURFACING, ASSOCIATED WORK ITEMS INCLUDE BITUMINOUS MILLING, PATCHING. AND PAVING; CRACK CONTROL FABRIC; REPLACEMENT OF TIE-DOWNS AND GROUNDING POINTS; PAVEMENT MARKING; SHOULDER ADJUSTMENT, SEEDING, AND MULCHING. AN ADDITIVE ALTERNATE BID ITEM IS ALSO INCLUDED TO REHABILITATE THE ADJACENT PAVEMENT IN FRONT OF THE SOUTHWEST T-HANGAR.
- 2. GENERAL THE COLES COUNTY MEMORIAL AIRPORT IS NON-TOWER CONTROLLED. PART 139. GENERAL AVIATION AIRPORT COMPRISED OF TWO PAVED RUNWAYS AND ONE SOD SHORT TAKEOFF AND LANDING (STOL) RUNWAY. THE PROPOSED CONSTRUCTION WILL NECESSITATE THE CLOSING OF A PORTION OF TAXIWAY A WITHIN THE PROJECT LIMITS FOR A PORTION OF THE PROJECT, TAXIWAY B WILL BE USED BY AIRCRAFT TO ACCESS THE MAIN APRON.
- 3. <u>AIRFIELD SAFETY ASSURANCE</u> AIRFIELD SAFETY SHALL BE HELD PARAMOUNT AT ALL TIMES. ANY INDIVIDUALS RESPONSIBLE FOR INCURSIONS OR POTENTIAL INCURSIONS WITH AIR TRAFFIC DUE TO NON-COMPLIANCE WITH REQUIREMENTS SET FOR IN THESE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND FAA ADVISORY CIRCULAR CURRENT ADDITION WILL BE SUBJECT TO AN IMMEDIATE SUSPENSION OF DRIVING PRIVILEGES ON THE AIRPORT OR A COMPLETE RESTRICTION FROM ENTERING THE AIR OPERATIONS AREA ALTOGETHER. THE AIRPORT MANAGER OR RESIDENT ENGINEER/TECHNICIAN MAY STOP THE WORK AT ANY TIME THEY BELIEVE AIRFIELD SAFETY IS BEING COMPROMISED.
- AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES. ONLY CONTRACTOR EMPLOYEES SHALL BE ALLOWED WITHIN THE PROJECT LIMITS, GATES SHALL BE CLOSED AT ALL TIMES UNLESS THE CONTRACTOR IS IN A CONTINUOUS HAULING OPERATIONS, DURING WHICH TIME HE WILL PROVIDE A PERSON TO MONITOR THE GATE AREA.
- 5. RADIO CONTROL THE CONTRACTOR WILL BE REQUIRED TO BE IN TWO-WAY RADIO CONTACT WITH THE AIRPORT UNICOM (122.70 MHz) ANY TIME THERE ARE WORKERS OR EQUIPMENT ON THE AIRFIELD

HAUL ROUTE NOTES

- THE HAUL ROUTE TO THE PROJECT AREA FOR HEAVY EQUIPMENT AND MATERIALS WILL ENTER THE AIRFIELD AT THE GATE ON THE WEST SIDE OF THE TERMINAL BUILDING, AND BE ROUTED ACROSS THE MAIN APRON.
- 2. THE TEMPORARY HAUL ROUTE SHALL BE USED ONLY FOR THE TRANSPORTING OF WORKERS, EQUIPMENT, AND MATERIALS. NO STATIONARY EQUIPMENT OR STOCKPILES MAY BE PLACED ON OR ALONG THE ROUTE. ALL EQUIPMENT MUST BE IN A LOWERED POSITION DURING TRANSPORT OR NOT IN USE
- 3. THE CONTRACTOR SHALL PROVIDE AN ESCORT IN TWO-WAY RADIO CONTACT WITH THE AIRPORT UNICOM WHEN MOVING MATERIALS OR EQUIPMENT ON THE HAUL
- ACCESS SHALL BE COORDINATED ON A DAILY WITH THE AIRPORT MANAGER, AND ANY ADJUSTMENTS MADE AS NEEDED TO MINIMIZE IMPACTS TO AIRFIELD OPERATIONS. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE FIXED-BASE OPERATOR AT THE AIRPORT TO MAINTAIN ACCESS TO THE FBO AND COMMUNITY HANGARS ON THE NORTH SIDE OF THE MAIN APRON.
- 5. DURING DAYS OF CONTINUOUS HAULING, OR FREQUENT USAGE, TRAFFIC CONES SHALL BE PLACED TO FURTHER DELINEATE THE ROUTE, AND REMOVED AT THE END
- 6. THE CONTRACTOR SHALL KEEP A SWEEPER ONSITE AT ALL TIMES, AND SWEEP THE AREA AS OFTEN AS NECESSARY TO KEEP FREE OF FOREIGN OBJECT DEBRIS (FOD)



Offices Nationwide

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62568 fax: 217-788-2503

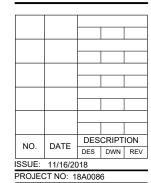
Illinois Licensed Professional Service Corporation #184-001084



REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

Contract No. CO066



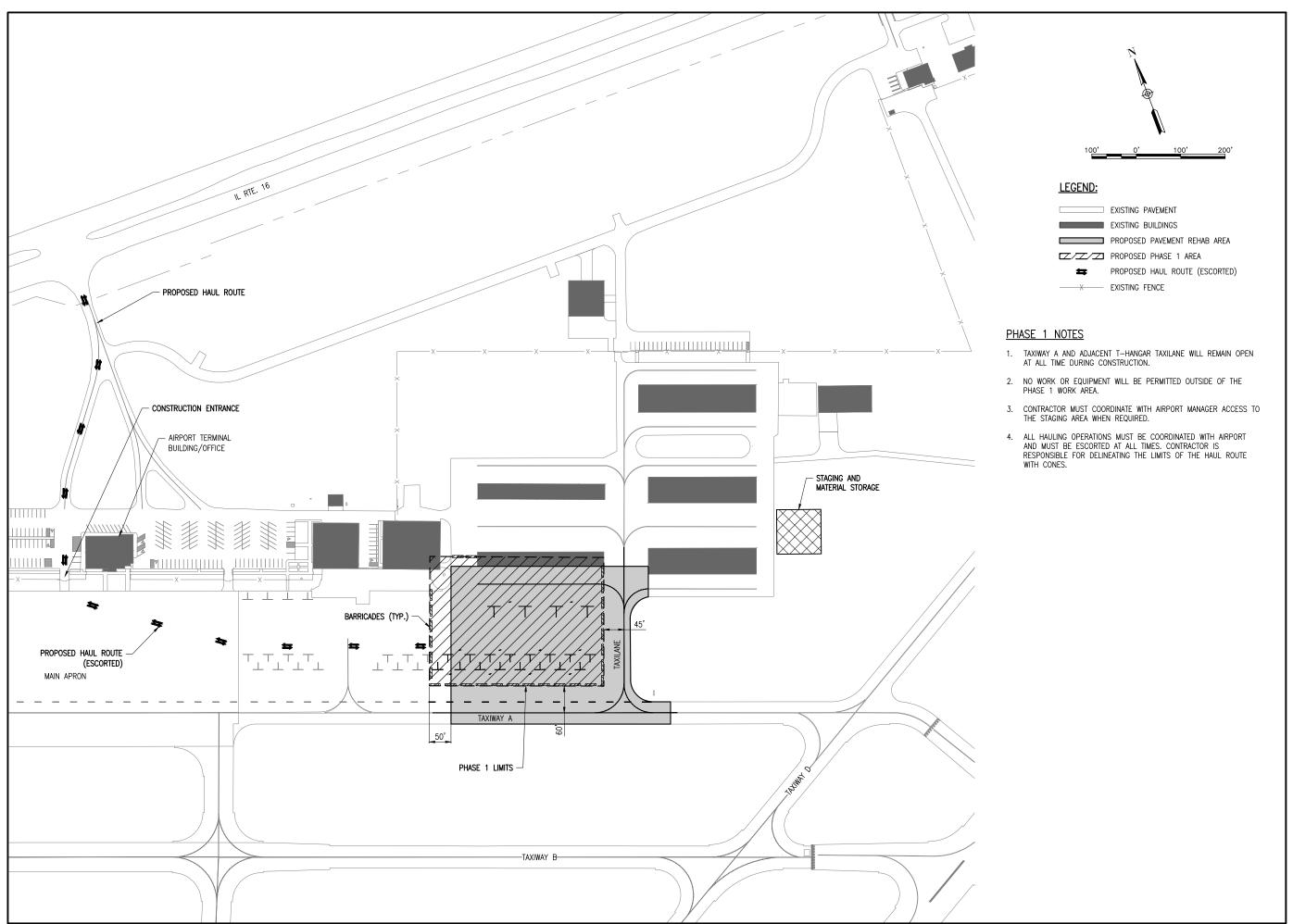
CAD FILE: C-100-SOW.DWG DESIGN BY: KBS

DRAWN BY: RAD

REVIEWED BY: MJD 10/18/18

SHEET TITLE

SCOPE OF WORK AND SAFETY PLAN





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Illinois Licensed Professional Service Corporation #184-001084

COLES COUNTY AIRPORT
AUTHORITY
COLES CONTY MEMORIAL ARPORT

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

Contract No. CO066

NO. DATE DESCRIPTION
DES DWN REV

ISSUE: 11/16/2018

PROJECT NO: 18A0086

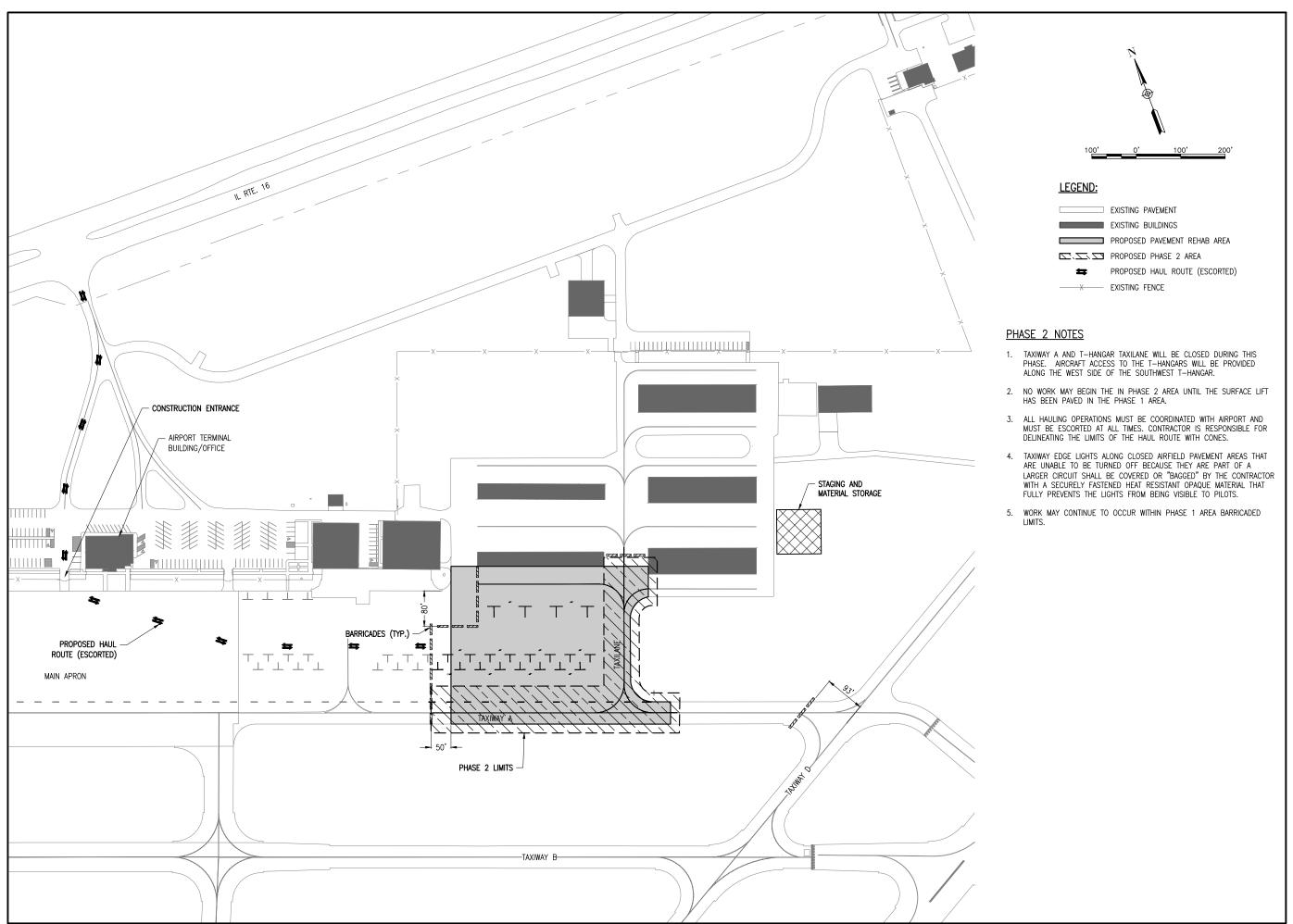
CAD FILE: C-101-SFY,DWG

SHEET TITLE

DESIGN BY: KBS
DRAWN BY: RAD

CONSTRUCTION PHASING PLAN -PHASE 1

REVIEWED BY: KBS 10/18/18





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Illinois Licensed Professional Service Corporation #184-001084

COLES COUNTY AIRPORT
AUTHORITY
COLES CONTY MEMORIAL AIRPORT

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

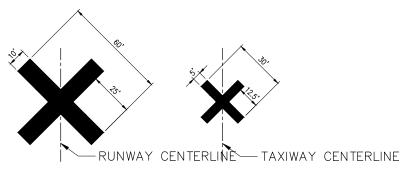
Contract No. CO066



SHEET TITLE

REVIEWED BY: MJD 10/18/18

CONSTRUCTION PHASING PLAN -PHASE 2



- TEMPORARY "CLOSED RUNWAY" AND "CLOSED TAXIWAY" MARKINGS SHALL BE "AVIATION YELLOW"
- TEMPORARY "CLOSED RUNWAY" AND "CLOSED TAXIWAY" MARKINGS SHALL BE CONSTRUCTED OF PLYWOOD, DOUBLE-LAYERED SNOW FENCE OR APPROVED FABRIC AND SHALL BE SECURED TO PAVEMENT BY SANDBAGS OR OTHER APPROVED METHOD
- TEMPORARY "CLOSED RUNWAY" MARKINGS SHALL BE PLACED OVER THE RUNWAY DESIGNATION NUMBERS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
- COST FOR PROVIDING, PLACING, MAINTAINING, RELOCATING AND REMOVING "CLOSED RUNWAY" AND "CLOSED TAXIWAY" MARKINGS SHALL BE INCLUDED AS AN INCIDENTAL COST TO THE CONTRACT, UNLESS OTHERWISE NOTED.

TEMPORARY CLOSURE CROSS DETAIL

NOT TO SCALE

8'-0"

ALTERNATING ORANGE AND
WHITE 20" X 20" FLAGS (TYP.)

PAINT 12" ALTERNATING STRIPES,
REFLECTIVE ORANGE AND WHITE

HIGH IMPACT, UV RESISTANT POLYETHYLENE 10"
X 96" X 10" ORANGE AND/OR WHITE IN COLOR

SOLAR OR BATTERY POWERED FLASHER WITH
RED LENS (TYP. BOTH ENDS OF BARRICADE).

LOW PROFILE AIRCRAFT BARRICADE DETAIL

BARRICADE NOTES

- ALL CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE ILLINOIS SUPPLEMENT (LATEST EDITION) AND THE FAA ADVISORY CIRCULARS (LATEST EDITION) UNLESS NOTED OTHERWISE. THE FAA OR MORE STRINGENT SPECIFICATIONS SHALL GOVERN.
- BARRICADES SHALL BE SPACED END TO END THE WIDTH OF THE PAVEMENT WITH A MAXIMUM SPACING OF 4' BETWEEN ENDS. BARRICADES ARE TO BE SET BACK FROM THE ACTIVE RUNWAY OR TAXIWAY CENTERLINE THE DISTANCE AS SHOWN ON THE PLANS.
- CONSTRUCTION RED WARNING LIGHT: THESE ARE PORTABLE, LENS DIRECTED, ENCLOSED LIGHTS. THE COLOR OF THE LIGHT EMITTED SHALL BE RED. THEY MAY BE USED IN EITHER A STEADY BURN (TYPE C) OR LOW INTENSITY FLASHING MODE (TYPE A) UNLESS NOTED OTHERWISE.
- 4. THE LIGHTING SHALL BE MAINTAINED IN OPERATION DURING THE HOURS OF DARKNESS BETWEEN 1/2 HOUR AFTER SUNSET AND 1/2 HOUR BEFORE SUNRISE AND WHEN CONDITIONS EXIST WHICH TEND TO OBSCURE VISION.
- BARRICADES SHALL BE SECURED TO THE GROUND BY APPROVED METHODS TO PREVENT MOVEMENT BY PROP WASH, JET BLAST OR OTHER WIND CURRENTS.
- 6. THE ONLY COLOR COMBINATION ON BARRICADES IS ORANGE AND WHITE. THE ORANGE STRIPES SHALL BE ENCAPSULATED LENS REFLECTIVE SHEETING. THE WHITE STRIPES SHALL BE EITHER ENCAPSULATED OR ENCLOSED LENS REFLECTIVE SHEETING AND MUST BE IN ACCEPTABLE CONDITION.
- COST FOR PROVIDING, PLACING, MAINTAINING, RELOCATING AND REMOVING BARRICADES SHALL BE INCLUDED AS AN INCIDENTAL COST TO THE CONTRACT, UNI FSS OTHERWISE NOTED.

SAFETY NOTES

- ALL PROVISIONS OF THE LATEST EDITION OF FAA ADVISORY CIRCULAR AC 150/5370-2 (CURRENT EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", APPLY TO THIS CONTRACT, EXCEPT AS MODIFIED BY THIS SAFETY PLAN, OR AS MODIFIED BY THE OWNER THROUGH THE RESIDENT ENGINEER/TECHNICIAN AT THE PRECONSTRUCTION CONFERENCE, OR DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTORS SHALL MINIMIZE DISRUPTION OF STANDARD OPERATING PROCEDURES FOR AERONAUTICAL ACTIVITY BY REMAINING WITHIN THE PRESCRIBED STAGING, CONSTRUCTION, AND PHASING AREAS PRESENTED ON THE CONSTRUCTION SAFETY AND PHASING PLAN SHEETS.
- NO UNAUTHORIZED PERSONNEL SHALL ENTER ANY AREA OF THE AIRPORT THAT COULD POTENTIALLY
 BE HAZARDOUS. THE AIRPORT MANAGER RESERVES THE RIGHT TO SUSPEND OPERATIONS IN ORDER
 TO MAINTAIN SAFFTY AT THE AIRPORT.
- 4. PRIOR TO ACCESSING THE AIRFIELD, ANY DESIGNATED CONTRACTOR OR SUBCONTRACTOR EMPLOYEES WHO WILL BE OPERATING OR ESCORTING A VEHICLE ON AN ACTIVE AREA OF THE AIRFIELD MUST ATTEND A 1 HOUR AIRFIELD SAFETY TRAINING AND ORIENTATION PROVIDED BY THE AIRPORT. PRIOR TO THE TRAINING, THE EMPLOYEES MUST BE FAMILIAR WITH THE "FAA GUIDE TO GROUND VEHICLE OPERATIONS", AND KEEP A HARD COPY IN THE VEHICLE FOR REFERENCE. THE GUIDE CAN BE FOLIND AT:
- https://www.faa.gov/airports/runway_safety/media/Ground_Vehicle_Guide_Proof_Final.pdf
- CONTRACTOR EQUIPMENT, VEHICLES, AND PROJECT MATERIALS SHALL BE STORED AT THE STAGING AREA SHOWN ON THE PLAN VIEW, EXCEPT AS OTHERWISE PROVIDED FOR AT THE PRECONSTRUCTION CONFERENCE.
- 6. ALL CONSTRUCTION EQUIPMENT OPERATING IN THE PRESCRIBED CONSTRUCTION AREA IS REQUIRED TO DISPLAY A CHECKERBOARD FLAG PROPERLY LOCATED OR A ROTATING BEACON (STROBE) AS SPECIFIED IN AC 150/5210-5, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT" LATEST EDITION.
- 7. NO CONSTRUCTION MATERIAL STOCKPILES SHALL BE LOCATED WITHIN 250' OF ANY ACTIVE RUNWAY, WITHIN 93' OF ANY OTHER ACTIVE AIRPORT OPERATIONS AREA, OR PENETRATE A PART 77 IMAGINARY SURFACE (PROVIDED BY THE RESIDENT ENGINEER/TECHNICIAN) EXTENDING OUT AND UPWARDS FROM ALL SIDES OF AN ACTIVE RUNWAY.
- 8. CLOSED AIRFIELD PHASING AREAS, OPEN TRENCHES, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH LIGHTED BARRICADES WITH STEADY BURNING OR FLASHING RED LIGHTS AS SPECIFIED IN 150/5370-2, "OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION, LATEST EDITION. LIGHTED BARRICADES MUST BE NO TALLER THAN 18" (EXCLUSIVE OF SUPPLEMENTARY LIGHTS AND FLAGS) ON THE TAXIWAYS AND COMPLY WITH ADVISORY CIRCULAR 150/5370-2, LATEST EDITION. CONTRACTOR SHALL NIGHT CHECK BARRICADES DAILY FOR PROPER OPERATION.
- . NO OPEN TRENCHES WITHIN 250' OF AN ACTIVE RUNWAY CENTERLINE OR WITHIN 93' OF ANY AIRPORT OPERATIONS AREA WILL BE PERMITTED UNLESS PROPERLY MARKED. OTHER TRENCHES SHALL BE MAINTAINED SAFE, I.E., BARRICADED OR COVERED WITH STEEL PLATES IN ALL OTHER AREAS
- 10. OPEN TRENCHES, EXCAVATIONS, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHOULD BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING RED LIGHTS DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS.
- 11. NO CONSTRUCTION EQUIPMENT GREATER THAN 25' TALL WILL BE PERMITTED ON THE AIRPORT WITHOUT THE APPROVAL OF THE AIRPORT MANAGER AND ADDITIONAL AIRSPACE APPROVAL BY THE FAA. AIRSPACE APPROVALS REQUIRE CONSIDERABLE LEAD TIME AND SHOULD BE REQUESTED WELL IN ADVANCE.
- 12. NO OPEN FLAME WELDING OR TORCH CUTTING OPERATION IS PERMITTED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE AIRPORT MANAGER NO FLARE POTS ARE ALLOWED ON THE PROJECT.
- 13. SOIL, DEBRIS, AND LOOSE MATERIAL DROPPED OR TRUCKED ONTO AIRPORT ROADS, TAXIWAYS, AND SOD SURFACES, OR WHICH CAN BE BLOWN ONTO SUCH SURFACES, SHALL BE IMMEDIATELY SWEPT, PICKED UP AND REMOVED, OR PLACED INTO CLOSED CONTAINERS. ANY DAMAGE TO AIRPORT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER.

- 14. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING AIRPORT LIGHTING AND NAVIGATIONAL ELECTRICAL SYSTEMS DURING CONSTRUCTION. A CONTACT PERSON AND TELEPHONE NUMBER FOR 24 HOUR EMERGENCY IMMEDIATE REPAIR SHALL BE SUBMITTED TO THE AIRPORT MANAGER AND RESIDENT ENGINEER/TECHNICIAN. HAUL ROUTES CROSSING PAVEMENT, DRAINAGE, MISCELLANFOLIS STRUCTURES AND/OR AIRFIELD CARLES SHALL BE PROTECTED FROM DAMAGE
- ALL AIRCRAFT AND AIRPORT OPERATIONS HAVE THE RIGHT-OF-WAY. CONTRACTOR TO YIELD TO VEHICLES AND REMAIN CLEAR AT ALL TIMES.
- 16. CONTRACTOR SHALL PLACE, SECURE, AND MAINTAIN LIGHTED BARRICADES AND CLOSURE CROSSES WHEN A RUNWAY/TAXIWAY/APRON IS CLOSED OR AS REQUIRED BY THE PLANS AND DESIGNATED BY THE RESIDENT ENGINEER/TECHNICIAN.
- 17. CONTRACTOR SHALL MARK HAZARDOUS AREA WITH STEADY-BURNING OR FLASHING RED LIGHTS DURING PERIODS OF LOW VISIBILITY AS REQUIRED.
- 18. THE CONTRACTOR SHALL PERIODICALLY PERFORM ONSITE INSPECTIONS THROUGHOUT THE DURATION OF THE PROJECT WITH THE IMMEDIATE REMEDY OF ANY DIFFERENCES, WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR PROJECT SCOPE CHANGE.
- CONTRACTOR SHALL MOVE MAINTENANCE OF TRAFFIC COMPONENTS AT THE WRITTEN DIRECTION OF THE RESIDENT ENGINEER/TECHNICIAN AT NO ADDITIONAL COST.
- 20. CONTRACTOR SHALL NOT REMOVE THE BARRICADES WITHOUT THE APPROVAL BY THE RESIDENT ENGINEER/TECHNICIAN.
- 21. CONTRACTOR SHALL MAINTAIN FLASHERS, SIGNS AND/OR BARRICADES AS REQUIRED BY THE PLANS, CITY OR COUNTY REGULATIONS OR CONTRACTOR ACTIVITIES. CONTRACTOR SHALL OBTAIN ANY AND ALL REQUIRED LOCAL PERMITS UNLESS SPECIFIED OTHERWISE.
- 22. THE CONTRACTOR SHALL UTILIZE WATER AND/OR CHEMICALS APPROVED BY THE RESIDENT ENGINEER/TECHNICIAN AS NECESSARY TO CONTROL DUST.
- 23. UNLESS SPECIFIED OTHERWISE, COST FOR THE ABOVE IS TO BE CONSIDERED INCIDENTAL TO THE PROJECT. SEPARATE PAYMENT SHALL NOT BE MADE.
- 24. THE CONTRACTOR SHALL HAVE THE SAFETY PLAN COMPLIANCE DOCUMENT (SPCD), AS DETAILED IN THE SPECIAL PROVISIONS, SUBMITTED AND APPROVED PRIOR TO BEING ISSUED "NOTICE TO PROCEED".
- 25. ALL RUNWAY/TAXIWAY CLOSURES SHALL BE COORDINATED WITH AIRPORT MANAGEMENT A MINIMUM OF 7 DAYS BEFORE THE DESIRED CLOSING TIME. AIRPORT MANAGEMENT HAS COMPLETE AUTHORITY IN DETERMINING WHEN THE RUNWAY/TAXIWAY MAY BE CLOSED.
- 26. RUNWAY/TAXIWAY CLOSURE PROCEDURES:
 - CONTACT THE AIRPORT MANAGEMENT OR ASSIGNED REPRESENTATIVE A MINIMUM OF 7 DAYS
 BEFORE THE DESIRED CLOSING TIME...
 - ISSUANCE OF NOTAM AND DEACTIVATION OF THE APPLICABLE AIRFIELD LIGHTING AND NAVAIDS BY THE AIRPORT MANAGEMENT AND/OR FAA.
 - PLACEMENT OF CROSSES AND BARRICADES.
 - ONLY AT THE TIME THAT ALL OF THE ABOVE ARE COMPLETED MAY ANY CONSTRUCTION OPERATIONS BEGIN WITHIN THE RUNWAY/TAXIWAY AIR OPERATIONS AREA.

RUNWAY/TAXIWAY RE-OPENING PROCEDURES:

- ENSURE ALL PERSONNEL, EQUIPMENT AND MATERIALS ARE CLEAR OF THE AIR OPERATIONS
- AREA.

 INSPECT THE AREA FOR LOOSE OR TRACKED DEBRIS, PAVEMENT DROP-OFFS, AND OPEN TRENCHES.
- CONTACT AIRPORT MANAGEMENT OR REPRESENTATIVE FOR FINAL INSPECTION OF THE AREA.
- REMOVE BARRICADES AND CROSSES.
- ACTIVATION OF THE AIRFIELD LIGHTING AND NAVAIDS AND CANCELLATION OF THE NOTAM BY THE AIRPORT MANAGEMENT AND/OR FAA.

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Illinois Licensed Professional Service Corporation #184-001084

CAD FILE: C-501-NOTE.DWG
DESIGN BY: KBS 10/15/2018
DRAWN BY: RAD 10/16/2018
REVIEWED BY:

SHEET TITLE

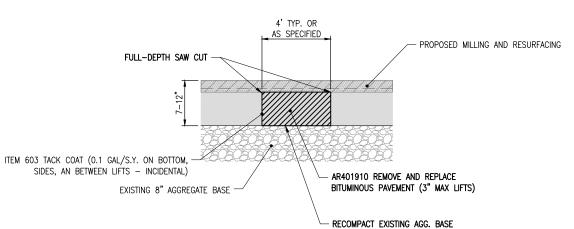
SAFETY NOTES AND DETAILS

ITEM 156513 SEPARATION FABRIC -STRIP TOPSOIL AND REPLACE -WITH PROJECT MILLINGS

STAGING AREA DETAIL NOT TO SCALE

NOTES:

- 1. STAGING AREA TO BE LEFT IN PLACE AT PROJECT COMPLETION.
- 2. RESIDENT ENGINEER/TECHNICIAN WILL CONFIRM STAGING AREA LIMITS/LOCATION PRIOR TO INSTALLATION.
- 3. CONTRACTOR SHALL STRIP TOP 6" OF SOD/TOPSOIL, HAUL MATERIAL TO AN ONSITE LOCATION SPECIFIED BY THE AIRPORT DIRECTOR, SHAPE AND
- 4. PROJECT MILLINGS SHALL BE PLACED AND SPREAD EVENLY OVER THE EXCAVATED STAGING AREA TO MAINTAIN DRAINAGE, AND COMPACTED WITH A MINIMUM OF 3 PASSES WITH A STEEL DRUM ROLLER.
- 5. ALL WORK AND MATERIALS INVOLVING STAGING AREA BE INCLUDED UNDER ITEM AR150520 "MOBILIZATION" - PER LUMP SUM.



REMOVE AND REPLACE BITUMINOUS PAVEMENT DETAIL

NOT TO SCALE

NOTES:

- 1. PATCHING WILL BE COMPLETED FOLLOWING MILLING.
- 2. EXISTING ASPHALT THICKNESS MAY VARY AND SHALL BE MATCHED REGARDLESS OF THICKNESS.

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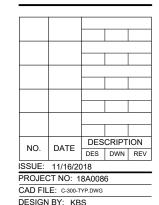
Illinois Licensed Professional Service Corporation #184-001084

COLES COUNTY AIRPORT AUTHORITY

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

Contract No. CO066

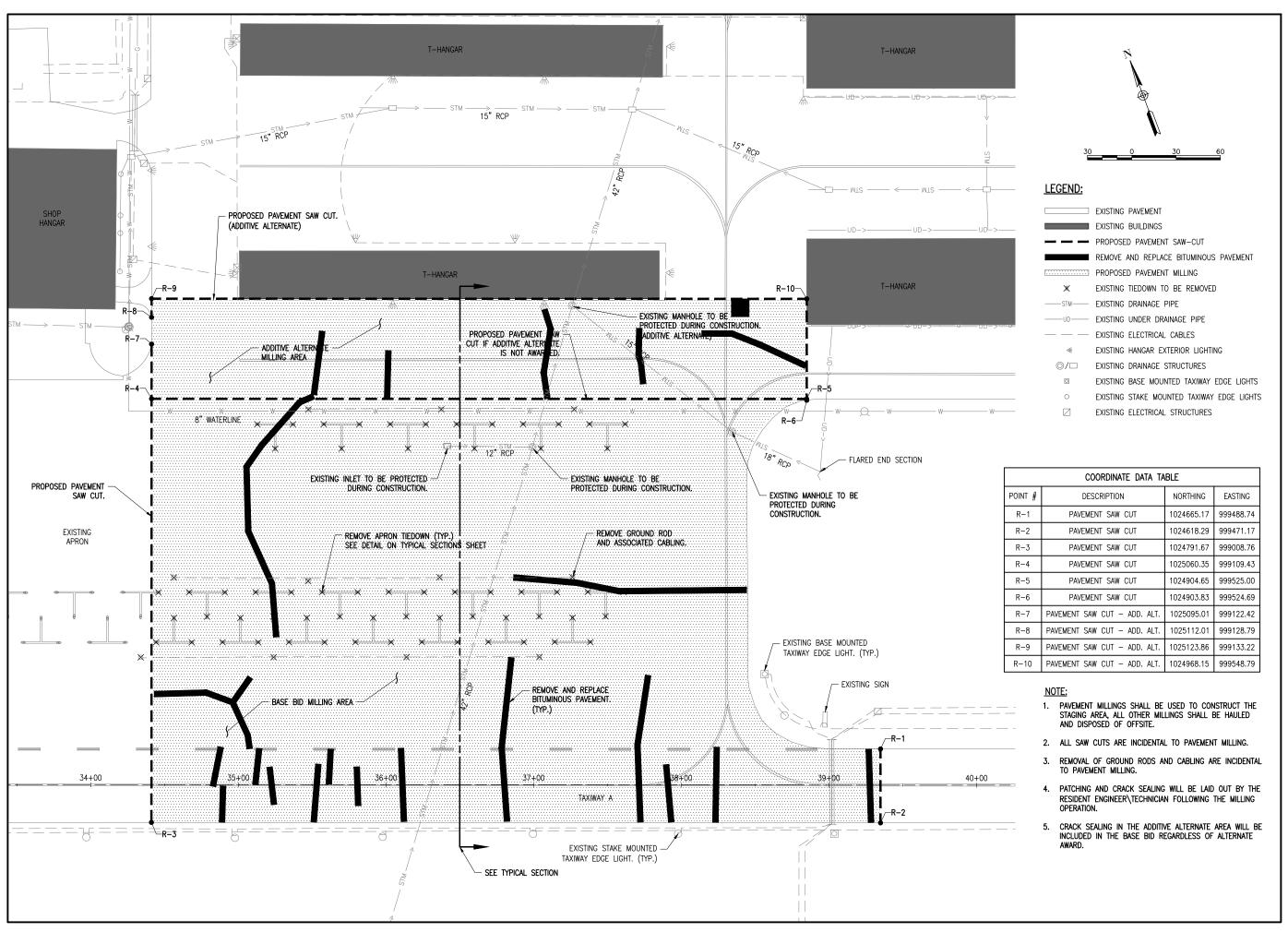


SHEET TITLE

DRAWN BY: RAD

TYPICAL SECTIONS

REVIEWED BY: MJD 10/18/2018





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Illinois Licensed Professional Service Corporation #184-001084

COLES COUNTY AIRPORT
AUTHORITY
COLES COUNTY MEMORIAL ARPORT

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

Contract No. CO066

NO.	DATE	DES	CRIPT	ION
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PROJECT NO: 18A0086

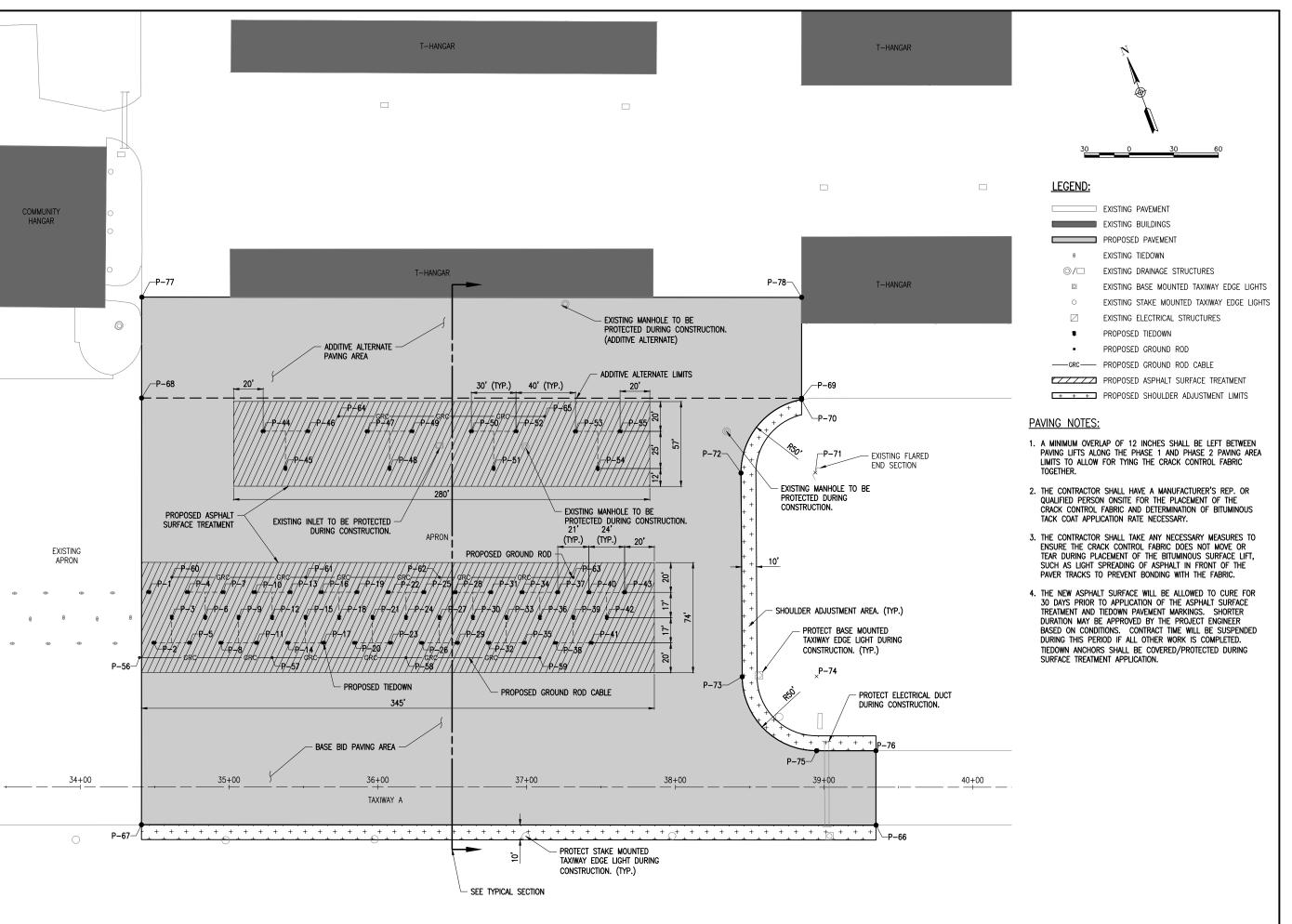
CAD FILE: C-111-SIT.DWG

DESIGN BY: KBS 10/15/2018
DRAWN BY: RAD 10/15/2018

DRAWN BY: RAD 10/15/ REVIEWED BY:

SHEET TITLE

REMOVAL PLAN





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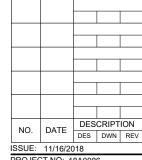
Illinois Licensed Professional Service Corporation #184-001084

COLES COUNTY AIRPORT
AUTHORITY
COLES CONTY MEMORIAL AIRPORT

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

Contract No. CO066



PROJECT NO: 18A0086

CAD FILE: C-121-CON.DWG

DESIGN BY: KBS
DRAWN BY: RAD

REVIEWED BY: MJD 10/18/2018

SHEET TITLE

CONSTRUCTION PLAN

	COORDINATE	DATA TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING		
P-1	TIEDOWN	1024936.41	999068.14		
P-2	TIEDOWN	1024903.36	999059.51		
P-3	TIEDOWN	1024915.08	999076.68		
P-4	TIEDOWN	1024927.31	999092.48		
P-5	TIEDOWN	1024894.94	999081.99		
P-6	TIEDOWN	1024907.18	999097.75		
P-7	TIEDOWN	1024918.89	999114.95		
P-8	TIEDOWN	1024887.57	999101.65		
P-9	TIEDOWN	1024899.29	999118.82		
P-10	TIEDOWN	1024910.91	999134.54		
P-11	TIEDOWN	1024879.15	999124.13		
P-12	TIEDOWN	1024891.40	999139.89		
P-13	TIEDOWN	1024903.10	999157.09		
P-14	TIEDOWN	1024871.78	999143.79		
P-15	TIEDOWN	1024883.50	999160.96		
P-16	TIEDOWN	1024895.74	999176.76		
P-17	TIEDOWN	1024863.36	999166.27		
P-18	TIEDOWN	1024875.61	999182.03		
P-19	TIEDOWN	1024887.32	999199.23		
P-20	TIEDOWN	1024855.99	999185.93		
P-21	TIEDOWN	1024867.71	999203.10		
P-22	TIEDOWN	1024878.59	999221.30		
P-23	TIEDOWN	1024847.57	999208.40		
P-24	TIEDOWN	1024859.82	999224.17		
P-25	TIEDOWN	1024871.53	999241.37		
P-26	TIEDOWN	1024840.20	999228.07		
P-27	TIEDOWN	1024851.92	999245.24		
P-28	TIEDOWN	1024864.16	999261.04		
P-29	TIEDOWN	1024831.78	999250.54		
P-30	TIEDOWN	1024844.03	999266.31		
P-31	TIEDOWN	1024855.74	999283.51		
P-32	TIEDOWN	1024824.41	999270.21		
P-33	TIEDOWN	1024836.13	999287.38		
P-34	TIEDOWN	1024848.37	999303.18		
P-35	TIEDOWN	1024815.99	999292.68		
P-36	TIEDOWN	1024828.24	999308.45		
P-37	TIEDOWN	1024839.95	999325.65		
P-38	TIEDOWN	1024808.64	999312.32		
P-39	TIEDOWN	1024820.35	999329.52		
P-40	TIEDOWN	1024832.58	999345.31		

	COORDINATE DATA	TABLE	
POINT #	DESCRIPTION	NORTHING	EASTING
P-41	TIEDOWN	1024800.22	999334.79
P-42	TIEDOWN	1024812.45	999350.59
P-43	TIEDOWN	1024824.16	999367.79
P-44	TIEDOWN	1025010.80	999178.12
P-45	TIEDOWN	1024982.13	999183.39
P-46	TIEDOWN	1025000.27	999206.21
P-47	TIEDOWN	1024986.24	999243.67
P-48	TIEDOWN	1024957.43	999249.29
P-49	TIEDOWN	1024975.71	999271.76
P-50	TIEDOWN	1024961.68	999309.22
P-51	TIEDOWN	1024933.00	999314.49
P-52	TIEDOWN	1024951.15	999337.31
P-53	TIEDOWN	1024937.12	999374.77
P-54	TIEDOWN	1024908.44	999380.04
P-55	TIEDOWN	1024926.59	999402.86
P-56	GROUND ROD	1024897.43	999046.85
P-57	GROUND ROD	1024866.10	999130.45
P-58	GROUND ROD	1024834.52	999214.73
P-59	GROUND ROD	1024802.94	999299.01
P-60	GROUND ROD	1024940.36	999086.16
P-61	GROUND ROD	1024908.78	999170.43
P-62	GROUND ROD	1024877.21	999254.71
P-63	GROUND ROD	1024845.63	999338.99
P-64	GROUND ROD	1025002.36	999229.15
P-65	GROUND ROD	1024953.76	999358.85
P-66	PAVEMENT EDGE	1024618.25	999471.28
P-67	PAVEMENT EDGE	1024791.67	999008.76
P-68	PAVEMENT EDGE	1025060.35	999109.43
P-69	PAVEMENT EDGE	1024904.65	999525.00
P-70	PAVEMENT EDGE	1024903.83	999524.69
P-71	RADIUS POINT	1024854.56	999516.15
P-72	PAVEMENT EDGE	1024871.82	999469.22
P-73	PAVEMENT EDGE	1024743.24	999421.94
P-74	RADIUS POINT	1024725.99	999468.87
P-75	PAVEMENT EDGE	1024679.16	999451.35
P-76	PAVEMENT EDGE	1024665.17	999488.74
P-77	PAVEMENT EDGE - ADD. ALT.	1025123.82	999133.34
P-78	PAVEMENT EDGE - ADD. ALT.	1024968.15	999548.79



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COLES COUNTY AIRPORT
AUTHORITY
COLES CONTY NEMOCRAL ARRORT

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

Contract No. CO066

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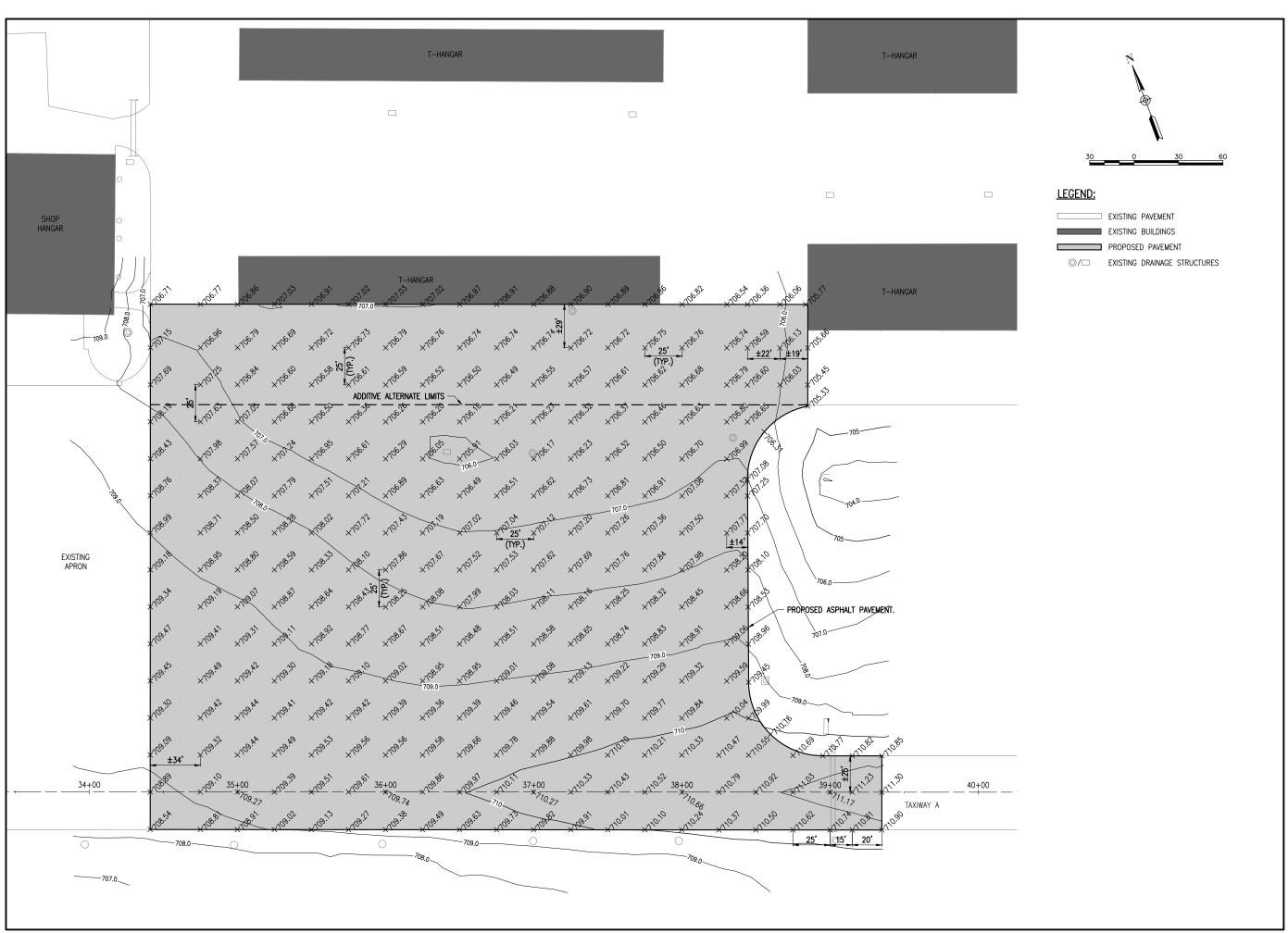
PROJECT NO: 18A0086
CAD FILE: C-121-CON.DWG

DESIGN BY: KBS
DRAWN BY: RAD

REVIEWED BY: MJD 10/18/2018

SHEET TITLE

COORDINATE DATA





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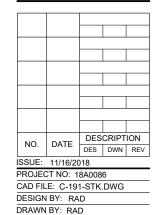
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REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

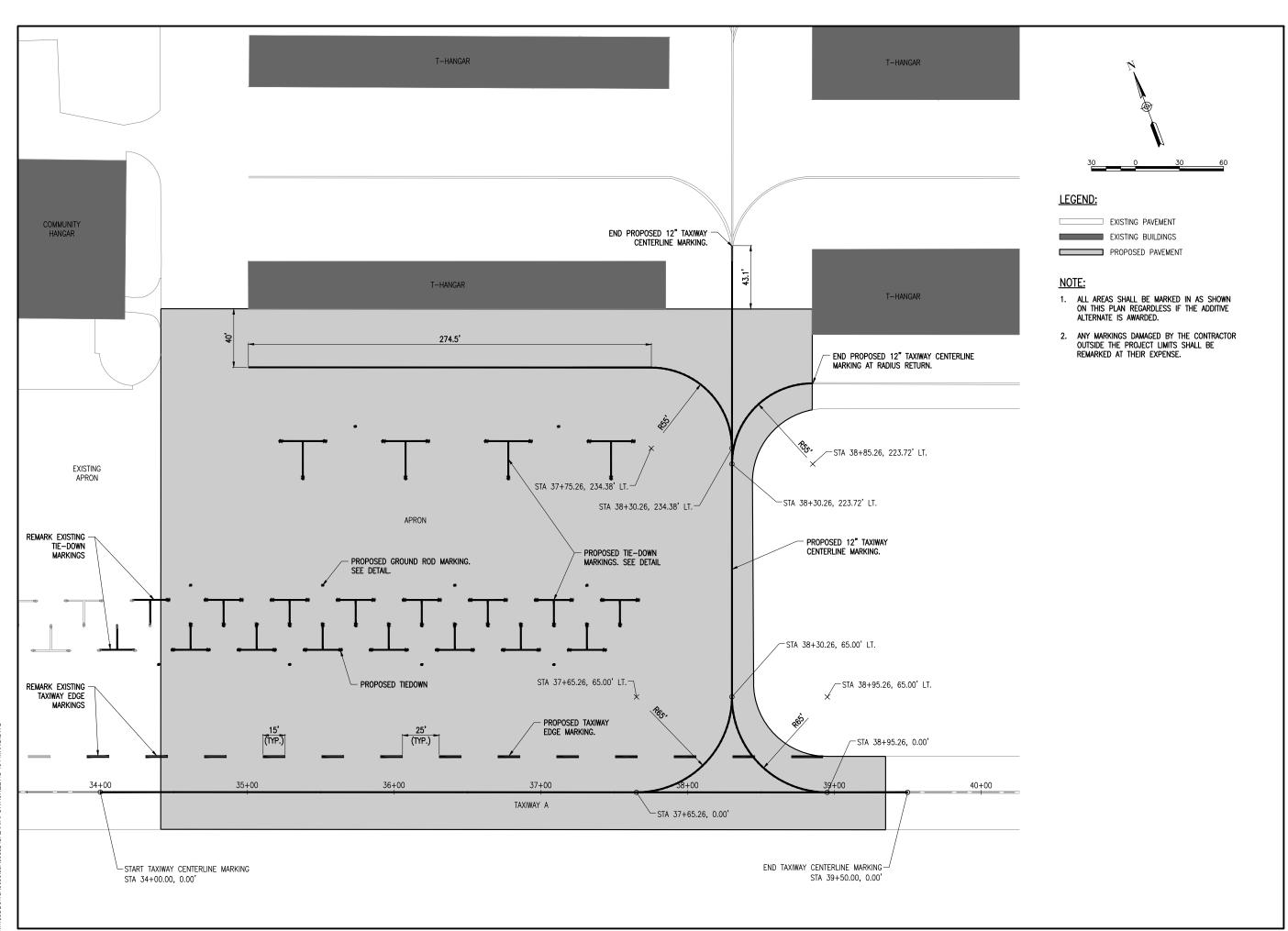
Contract No. CO066



SHEET TITLE

STAKING PLAN

REVIEWED BY: KBS 10/18/18





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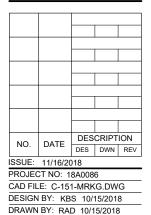
Illinois Licensed Professional Service Corporation #184-001084

COLES COUNTY AIRPORT
AUTHORITY
COLES COUNTY MEMORIAL AIRPORT

REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

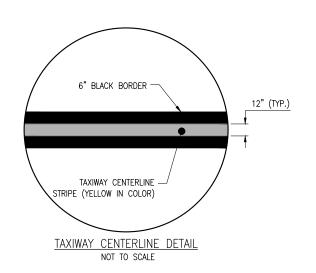
Contract No. CO066

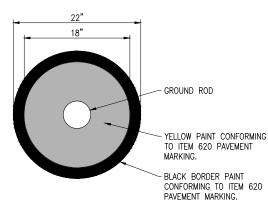


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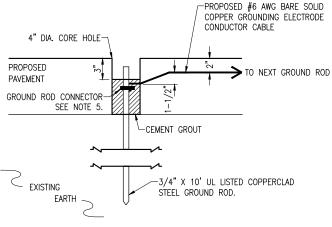
MARKING PLAN





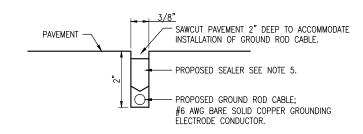
MOORING EYE DETAIL

GROUND ROD MARKING DETAIL NOT TO SCALE



GROUND ROD DETAIL

NOT TO SCALE

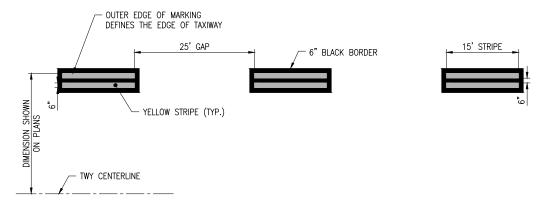


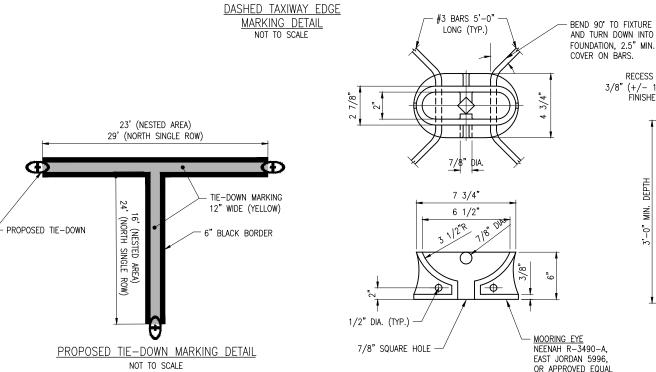
GROUND ROD CABLE DETAIL

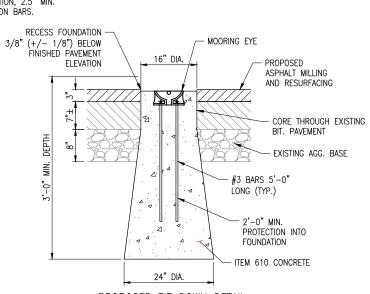
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APRON GROUND ROD NOTES

- 1. GROUND RODS SHALL BE 3/4-INCH DIAMETER BY 10-FOOT LONG UL LISTED COPPER CLAD WITH 10 MILS (MINIMUM) COPPER COATING. GROUND RODS SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA FROM 100 PERCENT DOMESTIC STEEL TO COMPLY WITH THE REQUIREMENTS OF THE AIRPORT IMPROVEMENT PROGRAM BUY AMERICAN PREFERENCES REQUIREMENTS AND THE STEEL PRODUCTS PROCUREMENT ACT. GROUND RODS WILL BE PAID FOR UNDER ITEM AR510515 GROUND ROD PER EACH.
- 2. GROUND RODS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE RESPECTIVE APRON PLAN.
- LOCATE ALL UTILITIES, CABLES, DUCTS, AND LINES IN THE AREAS OF WORK AND PROTECT THE RESPECTIVE FACILITIES TO AVOID ANY INTERFERENCES.
- 4. GROUND RODS ON THE APRON SHALL BE IDENTIFIED WITH A PAINTED YELLOW CIRCLE 18 INCHES IN DIAMETER WITH A 2 INCH BLACK BORDER, TO PROVIDE AN OVERALL 22 INCH DIAMETER PAINTED CIRCLE ON THE PAVEMENT BASED ON THE REQUIREMENTS NOTED IN MILITARY HANDBOOK MIL—HDBK—274A(AS) "ELECTRICAL GROUNDING FOR AIRCRAFT SAFETY". THE GROUND ROD SHALL BE LOCATED IN THE CENTER OF THE CIRCLE. CONTRACTOR SHALL PROTECT THE GROUND ROD AND PREVENT PAINT FROM ADHERING TO THE GROUND ROD. PAINT SHALL BE WATERBORNE PAINT CONFORMING TO THE REQUIREMENTS OF ITEM 620 PAVEMENT MARKING. PAINTING WILL BE PAID FOR UNDER ITEM AR620520 PAVEMENT MARKING—WATERBORNE AND ITEM AR620525 PAVEMENT MARKING BLACK BORDER.
- 5. ITEM AR108756 1/C #6 GROUND SHALL BE USED TO BOND TOGETHER EACH GROUND ROD ASSOCIATED WITH THE INSTALLATION OF GROUND RODS ON THE APRON (ITEM AR510515 GROUND ROD). ITEM AR108756 1/C #6 GROUND SHALL BE #6 AWG BARE SOLID COPPER GROUND WIRE CONFORMING TO ASTM B3. THE #6 AWG GROUND SHALL BE INSTALLED IN A GROOVE CUT INTO THE PAVEMENT AND BACKFILLED WITH A COLD POUR SEALER SUITABLE FOR USE WITH ASPHALT AND FUEL RESISTANT; DOW CORNING 890-SL SILICONE JOINT SEALANT, PECORA 301 NS NON-SAG SILICONE PAVEMENT JOINT SEALANT, OR APPROVED EQUAL. THE #6 AWG GROUND SHALL BE CONNECTED TO EACH RESPECTIVE GROUND ROD WITH AN EXOTHERMIC WELD CONNECTION OR WITH A PROPERLY SIZED BOLTED HIGH STRENGTH GROUND ROD CLAMP UL 467 LISTED FOR DIRECT BURIAL IN EARTH AND CONCRETE. THE GROUND ROD CLAMP SHALL BE LISTED AND PROPERLY SIZED FOR THE RESPECTIVE GROUND ROD AND THE RESPECTIVE GROUNDING ELECTRODE CONDUCTOR. WHERE A GROUND ROD REQUIRES CONNECTION TO MORE THAN ONE GROUNDING ELECTRODE CONDUCTOR PROVIDE ADDITIONAL EXOTHERMIC WELD CONNECTIONS OR PROVIDE ADDITIONAL PROPERLY SIZED BOLTED HIGH STRENGTH GROUND ROD CLAMPS UL 467 LISTED FOR DIRECT BURIAL IN EARTH AND CONCRETE. THE #6 AWG BARE SOLID COPPER GROUND WILL BE PAID FOR UNDER ITEM AR108756 1/C #6 GROUND PER LINEAL FOOT.





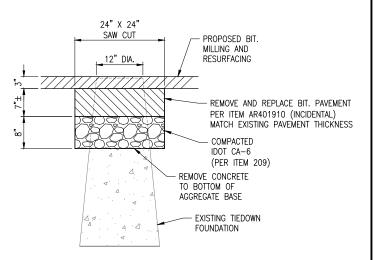


PROPOSED TIE DOWN DETAIL

NOTES:

CONTRACTOR SHALL PROTECT ADJACENT PAVEMENT WITH STEEL SHEETING OR OTHER METHODS DURING

PAVEMENT CORING AND EXCAVATION.



TIE DOWN REMOVAL DETAIL

NOTES:

ALL WORK AND MATERIALS ASSOCIATED WITH SAW CUTTING, REMOVAL, DISPOSAL, AND PAVEMENT RESTORATION SHALL BE INCLUDED IN THE COST OF THE PROPOSED TIE DOWN REMOVAL PAY ITEM.



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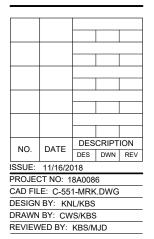
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REHABILITATE EAST PORTION OF AIRCRAFT PARKING RAMP

IDA No: MTO-4639 SBG Project No: N/A

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MARKING, TIE-DOWN, & GROUND ROD DETAILS

SHEET TITLE