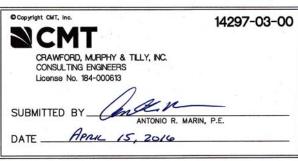
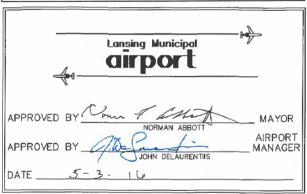
INDEX TO SHEETS

- COVER SHEET
- 2. SITE PLAN/PROJECT CONTROL
- 3. SEQUENCE OF CONSTRUCTION PER AC 150/5370-2F (LATEST EDITION)
- 4. SEQUENCE OF CONSTRUCTION GENERAL NOTES AND DETAILS
- 5. FENCING PLAN 1
- 6. FENCING PLAN 2
- 7. FENCING PLAN 3
- 8. GATE ACCESS CONTROL PLAN ADDITIVE ALTERNATE NO. 2
- 9. FENCING DETAILS SHEET 1
- 10. FENCING DETAILS SHEET 2
- 11. FENCING DETAILS SHEET 3
- 12. CANTILEVER GATE DETAILS
- 13. FENCING DETAILS
 ADDITIVE ALTERNATE NO. 1





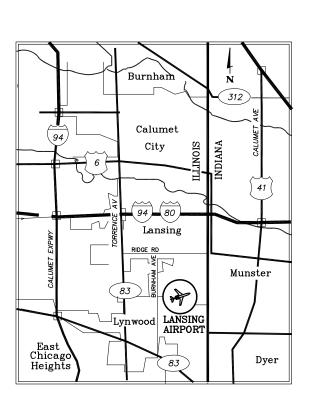


VILLAGE OF LANSING LANSING, ILLINOIS

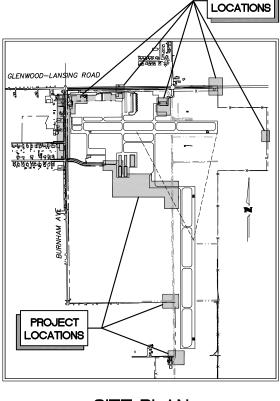
CONSTRUCTION PLANS FOR LANSING MUNICIPAL AIRPORT

INSTALL PERIMETER SECURITY FENCE - PHASE 2

ILLINOIS PROJECT: IGQ-4424 SBGP PROJECT: 3-17-SBGP-120 APRIL 15, 2016







PROJECT

SITE PLAN

SUMMARY OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	RECORD QUANTITY
BASE BID				
AR150510	ENGINEER'S FIELD OFFICE	LS	1.0	
AR162216	CLASS E MANUAL SLIDE GATE-16'	EACH	5	
AR162505	CLASS E FENCE 5'	LF	510	
AR162506	CLASS E FENCE 6'	LF	4,200	
AR162604	CLASS E GATE - 4'	EACH	2	
AR162605	CLASS E GATE - 5'	EACH	3	
AR162900	REMOVE CLASS E FENCE	LF	650	
AR162905	REMOVE GATE	EACH	13	
AR162920	REMOVE MANUAL SLIDE GATE	EACH	3	
AR162964	RELOCATE GATE	EACH	4	
AR800002	CLASS E FENCE 6', IN PAVEMENT	LF	230	
AR800153	CONCRETE WASHOUT	LS	1	
AR901510	SEEDING	ACRE	6.0	
AR908510	MULCHING	ACRE	6.0	
ADDITIVE AL	TERNATE NO 1			
AS800006	UPGRADE CLASS E FENCE 6'	LF	275	
AS800008	UPGRADE CLASS E MANUAL SLIDE GATE-16'	EACH	1	
AS800021	UPGRADE CLASS E GATE - 5'	EACH	2	
ADDITIVE AL	TERNATE NO. 2			
AT800849	ACCESS CONTROL SYSTEM UPGRADES	LS	1	

Know what's **below.**Call before you di

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

WWW.IIIINDS ICAIL.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 ALSO BE IMMEDIATELY NOTIFY DAYS SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811

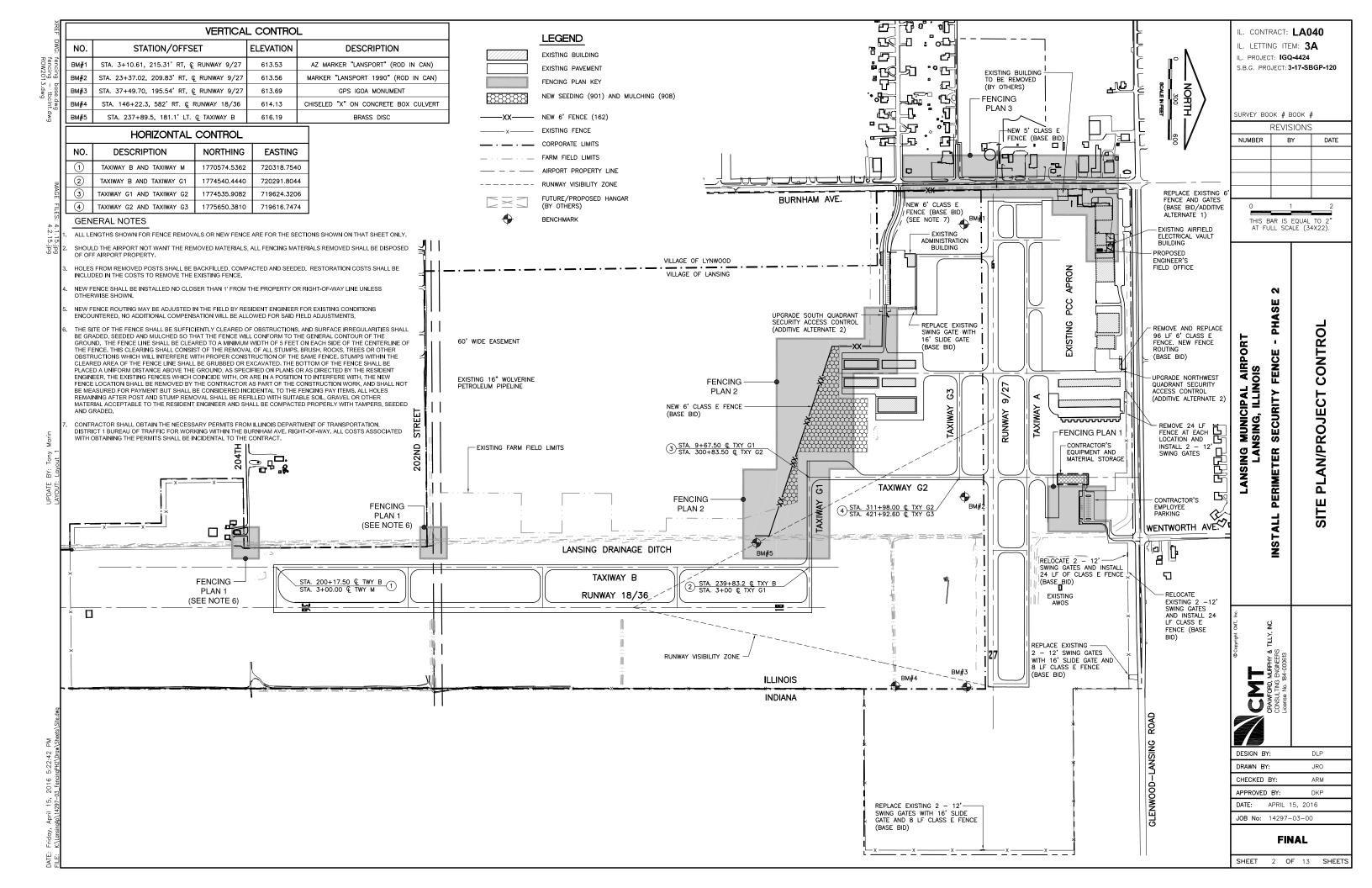
DESIGN INFORMATION

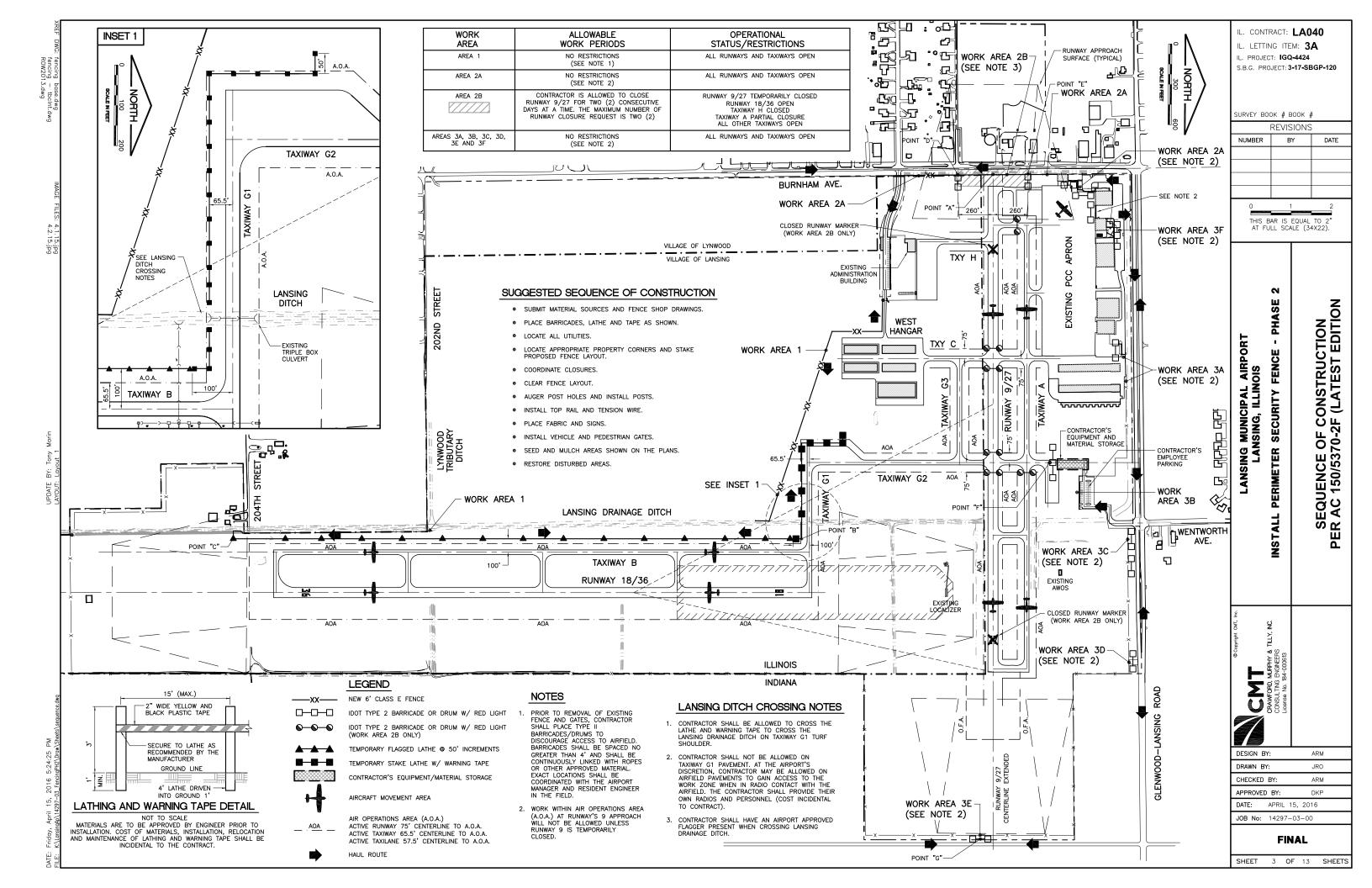
APPROACH CATEGORY B
DESIGN GROUP II

LANSING MUNICIPAL AIRPORT

TOWNSHIP: 35 NORTH RANGE: 15 EAST BLOOM TOWNSHIP (SECTION: 8 AND 17) OPPOSITE GLENWOOD-LANSING

UNICOM RADIO FREQUENCY - 123.0





GENERAL NOTES

- THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR THE ORDERLY THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTERPRED TO ALLOW FOR THE ORDERET 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 MANAGER AND RESIDENT ENGINEER AND BE APPROVED BY THE DIVISION OF AERONAUTICS AND FEDERAL AVIATION ADMINISTRATION
- 2. ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2F (LATEST EDITION) SAFETY DURING
- CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE AREA WHEN
- THE AIRPORT MANAGER IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE APPROVAL OF THE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND
- 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 MANAGER. 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
- THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIWAYS, APRONS AND ROUNDAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE ENGINEER.
- 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 ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY, CONTRACTOR'S WORK HOURS SHALL BE IN ACCORDANCE WITH LOCAL
- 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 OPERATIONS.
- 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 SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 10. MATERIALS REMOVED FROM THE PROJECT WILL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
- 11. FOR WORK ON AIRPORT PROPERTY: PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO BARRICADES, SIGNING, RUNWAY CLOSED MARKERS, AIR OPERATIONS AREA (A.O.A.) LATHE AND RIBBON, ETC. SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTIAL TO THE PROJECT. BARRICADES AT 10-FOOT CENTERS WITH ONE ORANGE FLAG (24* x 24") BETWEEN EACH SET OF 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 FLASHING RED LIGHT AND CONFORM TO IDOT STANDARD 702001, TYPE II. BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE A.O.A. BY CONTRACTOR'S WORKERS, EQUIPMENT OR MATERIAL, SIGNS SHALL BE PLACED AT LEACH TAXIMAY (CLOSUED LOCATION, AND SCHALL BE ATTACHED. TO THE BARRICADES AT EACH TAXIWAY/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 PROJECT.
- 12. THE CONTRACTOR SHALL CONTACT THE AIRPORT MANAGER TEN (10) WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION SO THAT THE APPROPRIATE NOTAMS MAY BE ISSUED.
- 13. 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, THIS SHEET.
- 15. IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE ENGINEER
- 16. 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.
- 17. THE TALLEST PIECE OF CONSTRUCTION EQUIPMENT IS ANTICIPATED TO BE A READY MIX CONCRETE TRUCK WHICH HAS A MAXIMUM HEIGHT OF 15 FEET.
- 18. IF RUNWAY NUMERALS ARE PRESENT DURING CONSTRUCTION THEN CONTRACTOR SHALL PLACE CLOSED RUNWAY MARKER OVER NUMERALS AS DETAILED, OTHERWISE PLACE RUNWAY CLOSED MARKER IN TURF AT ENDS OF RUNWAY AS DETAILED.
- 19. LANSING 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
- 20. APPROXIMATE LOCATION OF HAUL ROUTES ON THE AIRPORT SITE ARE SHOWN ON THE GENERAL PROJECT APPROXIMATE LOCATION OF HAUL KOULES ON THE AIRCRAFT 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 APROPRIATE 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 UPON 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 MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE CONSTRUCTION REQUIRED TO CONSTRUCT TEMPOVARY HAD ROUTES OF 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. THE RESTORATION SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO AR150520 MOBILIZATION
- 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 OWNER OF THE CABLE, AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE FROM POINT TO POINT IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF A FAA REPRESENTATIVE. THE OWNER MAY ELECT TO HAVE THE REPAIR PERRFORMED BY OTHERS IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCLUDED COSTS OF BEPAIRS. THE INCURRED COSTS OF REPAIRS.
- 23. COORDINATION MEETINGS THE CONTRACTOR SHALL CONDUCT WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS AND SCHEDULING, ETC. WITH THE ENGINEER, AIRPORT OPERATIONS, FAA, AND OTHER APPROPRIATE OFFICIALS. MINUTES FROM THE WEEKLY MEETINGS SHALL BE PREPARED BY THE CONTRACTOR, FURNISHED TO ALL ATTENDESS PRIOR TO THE SUBSEQUENT MEETING, AND KEPT ON FILE AT THE FIELD OFFICE. THE COORDINATION MEETING COSTS SHALL BE CONSIDERED INCIDENTAL TO THE
- 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 COST TO THE CONTRACT. EXISTING LANSING DRAINAGE FLOWS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 26. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 65.5' FROM ACTIVE TAXIWAYS AND 200' FROM ACTIVE RUNWAYS UNLESS OTHERWISE APPROVED BY THE AIRPORT MANAGER.
- 27. CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A MANNER AS NOT TO VIOLATE FEDERAL AVIATION ADMINISTRATION PART 77 SURFACES OR RUNWAY AND TAXIWAY SAFETY AREAS.
- 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 ENGINEER. ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED AT HIS EXPENSE.
- 29. COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STARTED. CONTRACTOR IS REFERRED TO SECTION 50-17 OF THE SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OR THE DESIGN ENGINEER ASSUME 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 THE AMERICAL OF THE PROPERTY O 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 MANAGER. 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 MANAGER.
- 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 AND/OR AIRPORT MAINTENANCE. ANY DEFECIENCIES IN THESE SYSTEMS DUE TO THE ACTS OF CONTRACTOR OR HIS SUBCONTRACTORS, SUPPLIERS OR CONSULTANTS SHALL BE REPAIRED IMMEDIATELY.

CONTRACTOR CROSSING RUNWAY AND TAXIWAY AIR OPERATIONS AREA (A.O.A.)

ANYTIME THE CONTRACTOR IS REQUIRED TO LITHIZE OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO ANYTIME THE CONTRACTOR IS REQUIRED TO UTILIZE OR CROSS ACTIVE AIRFIELD PAYMENTS FOR ACCESS TO AND FROM THE WORK ZONE, A CROSSING GUARD OR ESCORT IN RADIO CONTACT WITH THE AIR FIELD SHALL BE FURNISHED BY THE CONTRACTOR FOR MOVEMENTS OF VEHICLES OR EQUIPMENT TO AND FROM THE WORK ZONE. THE RADIO OPPRATOR 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 RESPONSIBLE FOR PAYMENT OF MUNICIPAL FINES (\$500 PER OCCURENCE) DUE TO AIRFIELD INCURSIONS BY HIS EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, CONSULTANTS AND 700 ACCENTS. CONSULTANTS AND/OR AGENTS.

ANY PAVEMENT DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY HIM TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER 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 SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE

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 RECESSARY 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 MANAGER TWO (2) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS.

LIMITATIONS ON CONSTRUCTION WITHIN RUNWAY SAFETY AREA (RSA) AND TAXIWAY/TAXILANE OBJECT FREE AREA (TOFA)

RUNWAYS:

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER 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 REOPENDE. AT LEAST ONE OF THE RUNWAYS SHALL REMAIN IN OPERATION AT ALL TIMES. IF NECCESSARY 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 / TAXILANE OBJECT FREE AREA (TOFA) WILL REQUIRE A TAXIWAY / TAXILANE 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 MANAGER 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 / TAXILANE SAFETY AREAS OF OPEN TAXIWAYS / TAXILANES.

CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE SPECIAL PROVISIONS SECTION 30-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS.

DESIGN AIRCRAFT APPROACH CATAGORY: B DESIGN AIRPORT GROUP: II

RUNWAY 18/36 SAFETY AREA TOTAL WIDTH = 150' RUNWAY 9/27 SAFETY AREA TOTAL WIDTH = 150' TAXIWAY CENTERLINE TO OBJECT SEPARATION = 65.5' TAXILANE CENTERLINE TO OBJECT SEPARATION = 57.5'

MAXIMUM ANTICIPATED HEIGHT OF CONSTRUCTION EQUIPMENT: 15'

POINT "A" NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 9/27 LATITUDE: 41'32'23.62" LONGITUDE: 87'32'20.41" EXISTING ELEVATION: POINT "B"

NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 18/36 LATITUDE: 41'32'09.43" LONGITUDE: - 87'31'44.86" EXISTING ELEVATION: 614.0

NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE LATITUDE: 41°31'27.76" LONGITUDE: 87°31'45.00" EXISTING ELEVATION: 618.0

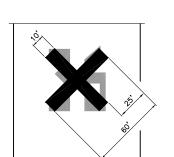
POINT "C"

NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE LATITUDE: 41'32'21.05" LONGITUDE: - 87'32'20.39" EXISTING ELEVATION: 613.6 POINT "F"

NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE LATITUDE: 41°32'26.19" LONGITUDE: – 87°32'20.41" EXISTING ELEVATION: 613. RUNWAY 9/27 POINT "F"

NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 9/27 LATITUDE: 41'32'27.63" LONGITUDE: 87'31'52.12" EXISTING ELEVATION: POINT "G"

NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE LATITUDE: 41*32'22.45" LONGITUDE: – 87*31'15.34" EXISTING ELEVATION: 615.0

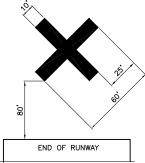


CONSTRUCTION EQUIPMENT

AND TRUCK SIGNAL ORANGE

AND WHITE CHECKERED FLAG NOT TO SCALE

ON PAVEMENT CLOSED RUNWAY MARKER DETAIL



OFF PAVEMENT CLOSED RUNWAY MARKER DETAIL

CLOSED RUNWAY MARKER DETAIL NOTES

- 1. 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
- MARKERS ON PAVEMENT SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS AS SHOWN.
- 5. 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. 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.

NOTE — ALL PHASES
ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT
ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT
ENGINEER. ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION
SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.



L. CONTRACT: LA040

S.B.G. PROJECT: 3-17-SBGP-120

REVISIONS

BY

THIS BAR IS FOLIAL TO '

S

PHA

.

FENCE

SECURITY

ORT

AT FULL SCALE (34X22)

DATE

RUCTIOI DETAIL

CONSTR ES AND

A P P

шΖ ENC| RAL

D N

ШШ

S

IL. LETTING ITEM: 3A

IL. PROJECT: IGQ-4424

URVEY BOOK # BOOK #

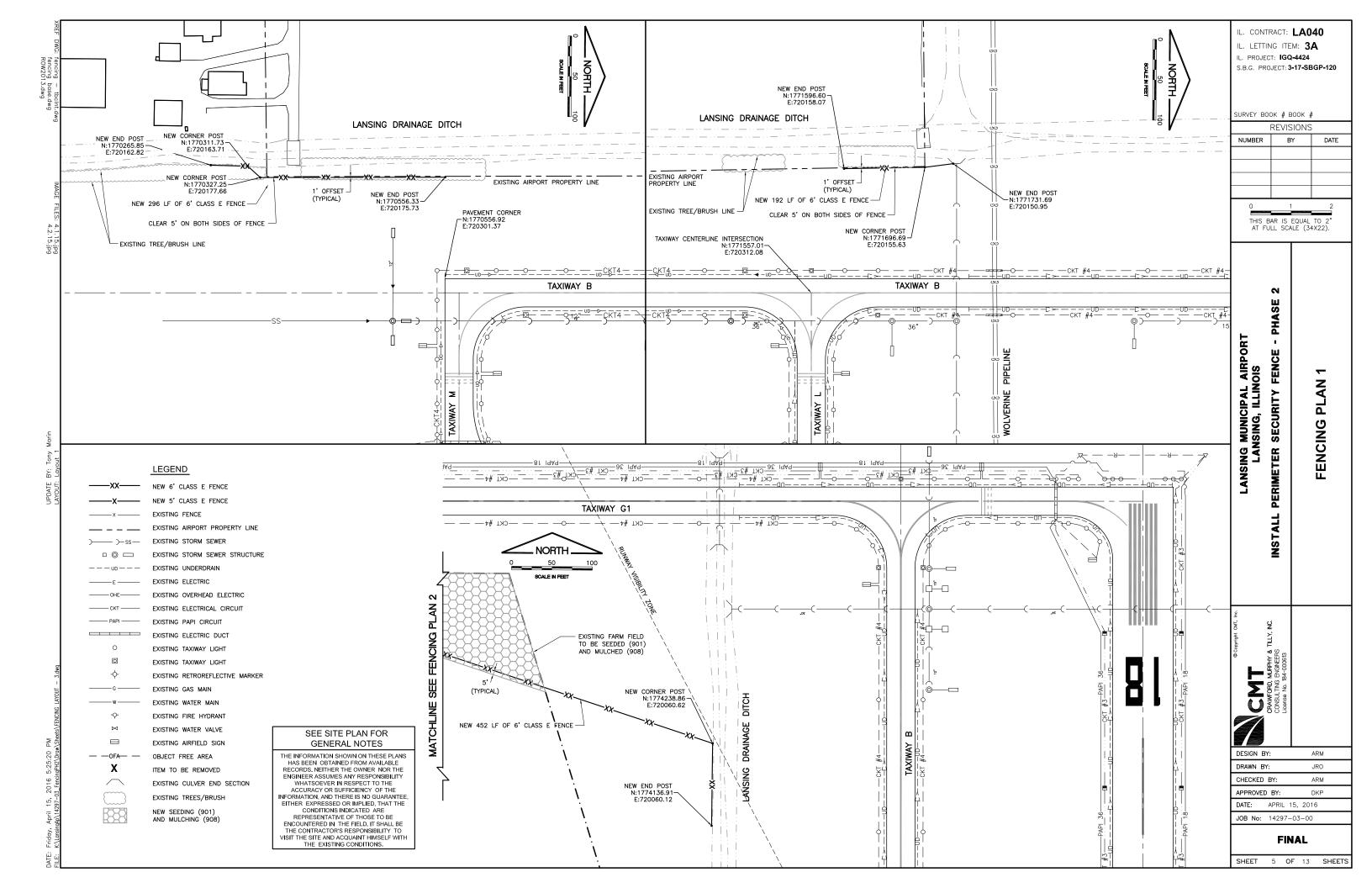
NUMBER

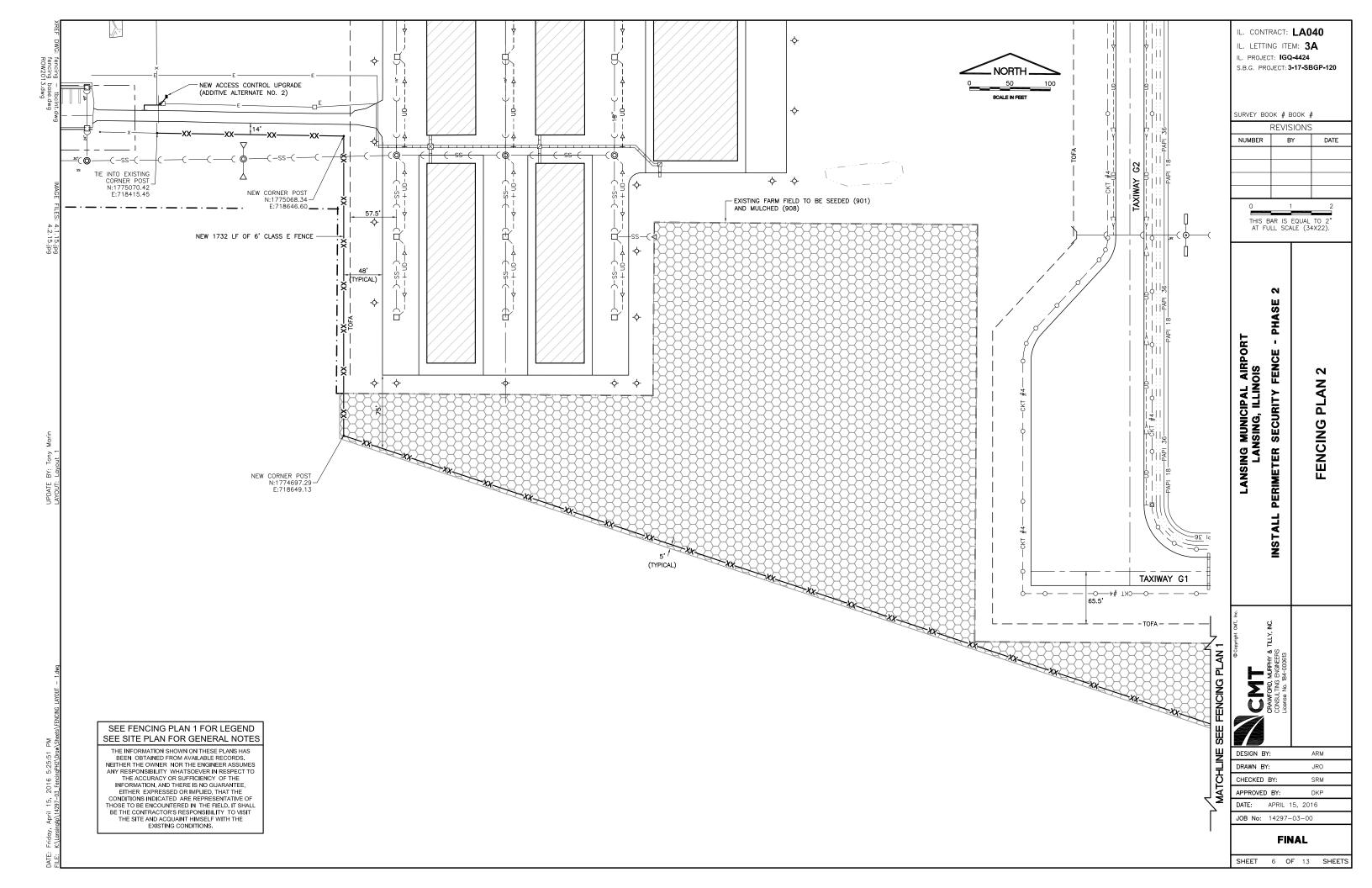
5 Σ U

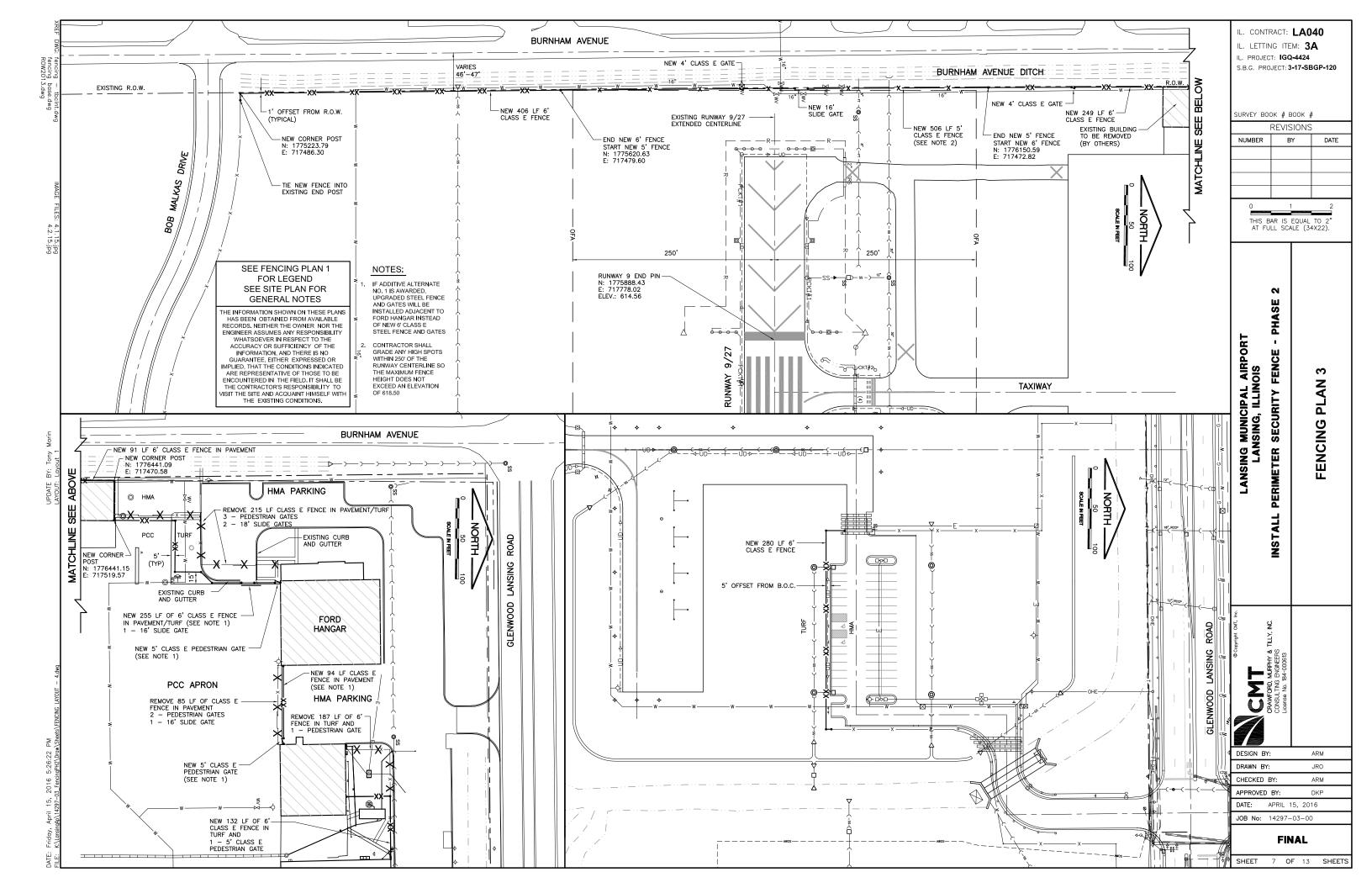
> DESIGN BY: ARM DRAWN BY JRO CHECKED BY ARM APPROVED BY: APRIL 15, 2016

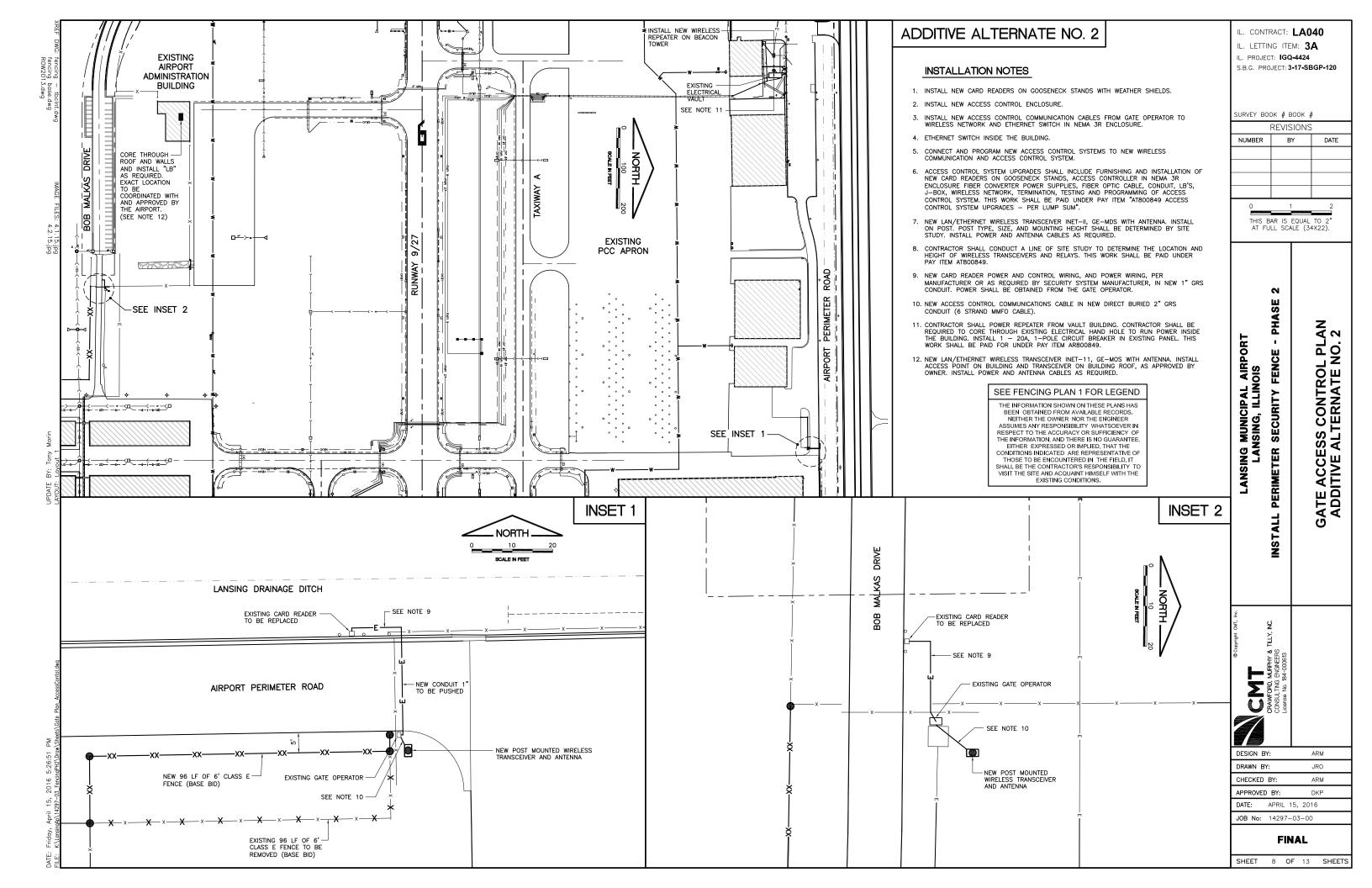
JOB No: 14297-03-00

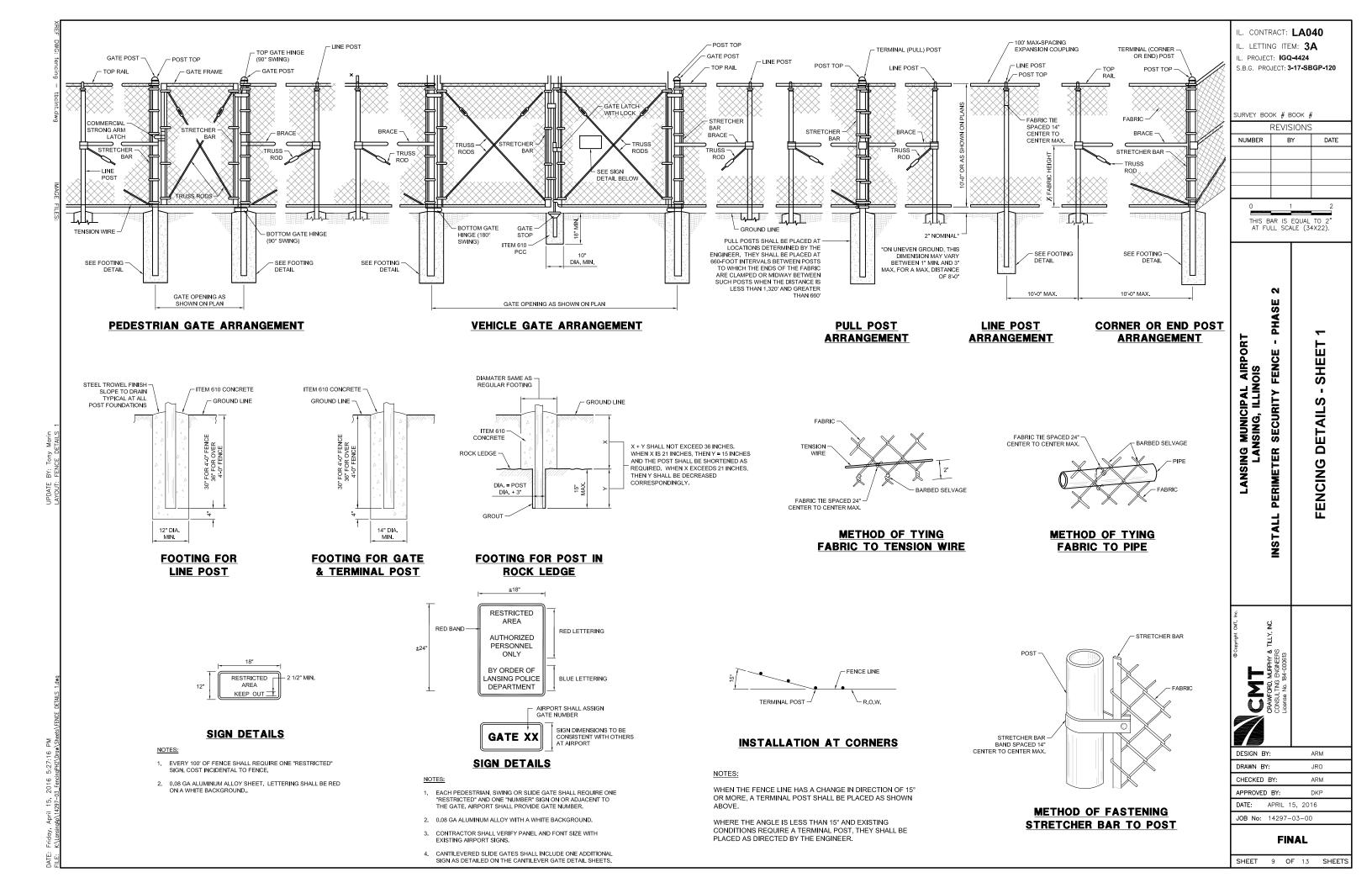
FINAL SHEET 4 OF 13 SHEETS

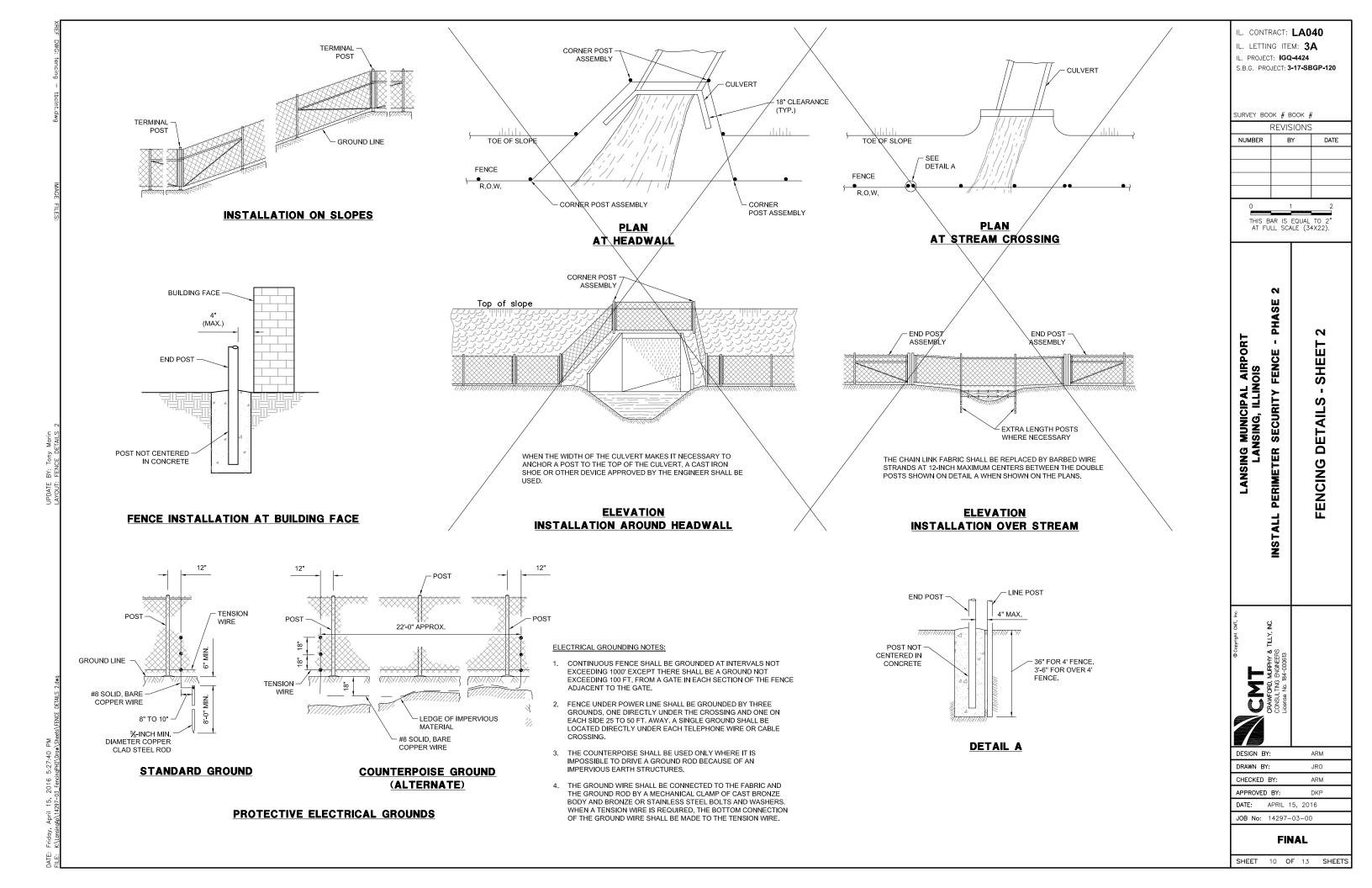


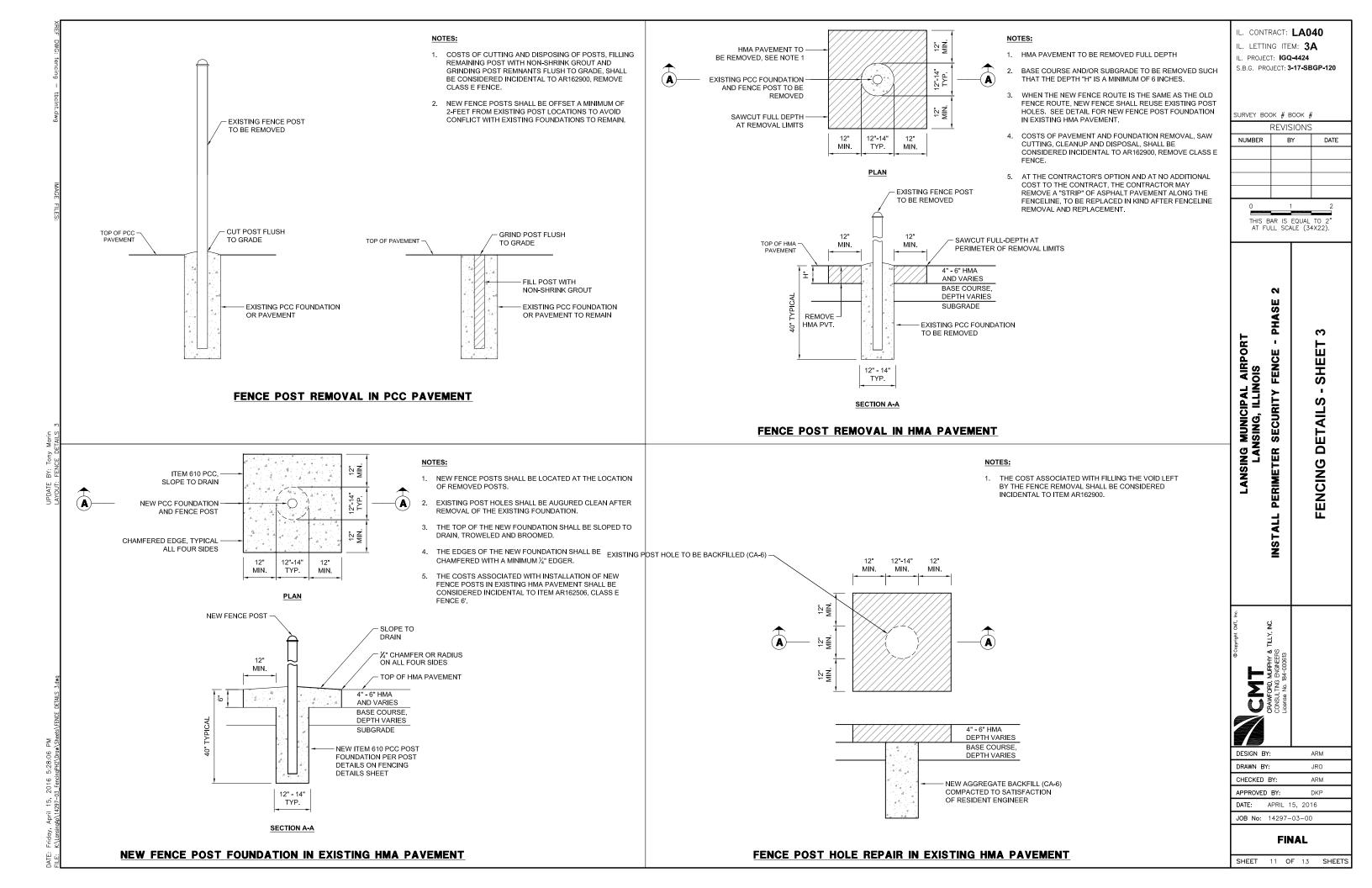












LOCATIONS, DETAILS AND CHARACTER
OF EQUIPMENT SHOWN ON THIS SHEET
ARE GENERIC. EQUIPMENT LOCATIONS
SHALL BE AS RECOMMENDED BY THE
EQUIPMENT MANUFACTURER.

GATE NO.

SIGN

LANSING POLICE

DEPTARTMENT

CANTILEVER SLIDE GATE

ELEVATION

MANUAL SLIDE GATE NOTES:

- CANTILEVERED GATE SHALL BE SUFFICIENTLY RIGID TO WITHSTAND FLEXING OR BENDING DURING WINDY CONDITIONS. CONTRACTOR SHALL PROVIDE STIFFENERS, STRUCTURAL SHAPES IN EXCESS OF THE MINIMUM SPECIFIED DIMENSIONS OR ADDITIONAL ROLLERS AND POSTS SUFFICIENT TO PREVENT DISPLACEMENT OF THE GATE BY WIND OR BY UNAUTHORIZED
- CONTRACTOR SHALL PROVIDE AND INSTALL GATE AS A COMPLETE WORKING UNIT. THE GATE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: GATE, POSTS, AND ALL CONNECTIONS, SIGNS, LABOR AND MATERIALS NECESSARY FOR COMPLETE OPERATION.
- THE FABRIC TYPE & FINISH OF THE GATE SHALL MATCH THE PROPOSED FENCE OR BE AS DIRECTED BY THE ENGINEER.
- ALL SLIDING GATES SHALL HAVE ALL ROLLERS ENCLOSED IN STEEL OR PLASTIC SHROUDS TO PREVENT ACCIDENTAL INJURY.
- 5. SEE FENCING DETAILS SHEET 1 FOR ADDITIONAL SIGN DETAILS.



WARNING SIGN DETAIL

CRITICAL DIMENSIONS **16'-0" CLEAR OPENING ***** 16'-0" COUNTER BALANCE POST SPACING, 7'-1" CENTER TO CENTER OVERALL GATE LENGTH 24'-0" 24'-0" COUNTERBALANCE LENGTH 8'-0" 8'-0" 6'-0" NOMINAL GATE HEIGHT 5'-0" POST HEIGHT 5'-3" 7'-6" FABRIC HEIGHT 5'-0"

- * GATE FOR 5' CLASS E FENCE
- ** GATE FOR 6' CLASS E FENCE

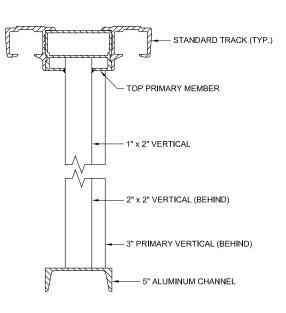
UL 235 COMPLIANCE NOTES

WARNING

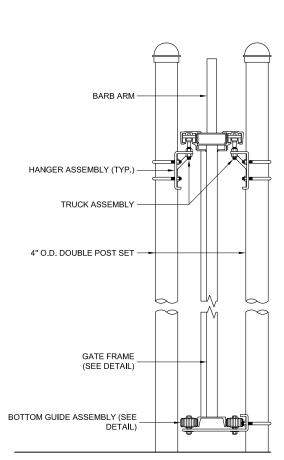
SIGN

GATE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF UL 235, INCLUDING, BUT NOT LIMITED TO:

- 1. ALL OPENINGS OF THE SLIDE GATE ARE GUARDED OR SCREENED FROM THE BOTTOM OF THE GATE TO A MINIMUM OF 4 FEET ABOVE GROUND TO PREVENT A 2-1/4" DIAMETER SPHERE FROM PASSING THROUGH THE OPENINGS ANYWHERE IN THE GATE, AND IN THAT PORTION OF THE ADJACENT FENCE THAT THE GATE COVERS IN THE OPEN POSITION.
- 2. ALL EXPOSED PINCH POINTS ARE ELIMINATED OR GUARDED AND GUARDING IS SUPPLIED FOR ALL EXPOSED ROLLERS.
- 3. A WARNING SIGN (SEE DETAIL, THIS SHEET) MUST BE AFFIXED TO BOTH SIDES OF THE SLIDE GATE, BOTH MANUAL AND ELECTRIC.
- 4. FOR ADDITIONAL UL 235 REQUIREMENTS FOR THIS GATE INSTALLATION, SEE ELECTRIC GATE DETAILS SHEET.



GATE FRAME SECTION



EXTRUSIONS SHALL BE OVERSIZED FOR EXTRA RIGIDITY OVER "STANDARD" GATE DESIGN.

SECTION B-B (TYPICAL ALL GATES)

IL. CONTRACT: LA040

IL. LETTING ITEM: 3A IL. PROJECT: IGQ-4424 S.B.G. PROJECT: 3-17-SBGP-120

URVEY BOOK # BOOK # **REVISIONS** BY DATE NUMBER THIS BAR IS EQUAL TO 2 AT FULL SCALE (34X22).

DETAILS LANSING MUNICIPAL AIRPORT LANSING, ILLINOIS FENCE GATE SECURITY CANTILEVER PERIMETER

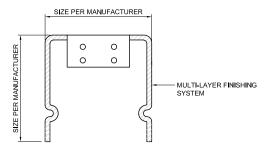
ΣU

DESIGN BY: ARM JRO CHECKED BY ARM APPROVED BY: JOB No: 14297-03-00

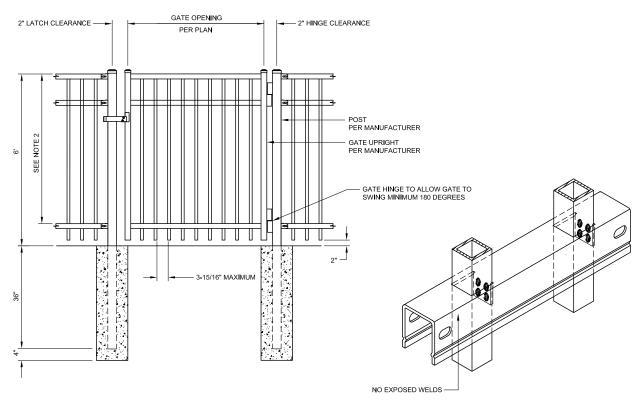
FINAL

SHEET 12 OF 13 SHEETS

- DIMENSIONS SHOWN ARE GENERIC. ACTUAL DIMENSIONS OF STRUCTURAL MEMBERS SHALL BE IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S SHOP DRAWINGS TO MEET THE SPECIFIED WIND LOAD.
- 2. THE FENCE SHALL HAVE 3 RAILS AND RAIL SPACING PER MANUFACTURER. GATES SHALL HAVE THE SAME NUMBER OF RAILS AS THE FENCE TO PROVIDE CONTINUITY IN APPEARANCE.
- 3. RAILS SHALL BE SECURELY FASTENED TO POSTS. POSTS ARE TO BE SOLID WALL WITHOUT PUNCHES. BRACKET FASTENERS SHALL BE EQUIPPED WITH TAMPER PROOF HEADS.
- 4. ALL FENCE AND GATE POSTS SHALL BE CAPPED.
- 5. THE PICKET SHALL BE ABLE TO WITHSTAND A MINIMUM LOAD OF 125 POUNDS APPLIED VERTICALLY TO THE OUTERMOST END OF THE PICKET.
- 6. THE FENCING SYSTEM SHALL BE ABLE TO WITHSTAND A WIND LOADING OF 116 MPH. MANUFACTURER'S CERTIFICATION SHALL BE REQUIRED TO STATE THE METHOD USED IN DETERMINING WIND LOAD CAPACITY OF THE FENCING SYSTEM.
- 7. GATE LATCHES SHALL ALLOW A PADLOCK WITH A SHACKLE OF 7/16" DIAMETER TO BE EASILY INSERTED.
- 8. GATE PICKETS SHALL BE WELDED TO THE RAILS PRIOR TO FINISH COAT APPLICATION
- ANY FINISH COAT MARRED DURING INSTALLATION OR DEEMED UNACCEPTABLE TO THE RESIDENT ENGINEER SHALL BE REAPPLIED OR REPAIRED IN A MANNER ACCEPTABLE TO THE RESIDENT ENGINEER AND APPROVED BY THE ENGINEER.
- 10. TO PROVIDE CONTINUITY IN APPEARANCE THE FENCE, PEDESTRIAN GATE AND SLIDE GATE SHALL BE SUPPLIED FROM THE SAME MANUFACTURER, INCLUDING ALL BRACKETS, FASTENERS, SCREWS, AND OTHER MISCELLANEOUS ITEMS.
- 11. IF ADDITIVE ALTERNATE NO. 1 IS AWARDED, IN ADDITION TO THE BASE BID UNIT PRICE PER LINEAR FOR FOR CLASS E FENCE AND PER EACH GATE IN TURF AND PAVEMENT AN ADDITIONAL PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT UPGRADED CLASS E FENCE 6' AND PER EACH UPGRADED CLASS E GATE 5' AND UPGRADED CLASS E MANUAL SLIDE GATE 16' AT THE LOCATIONS SHOWN ON THE PLANS. THE ADDITIONAL PAYMENT WILL BE FULL COMPENSATION TO INCLUDE THE DIFFERENCE IN COST BETWEEN THE BASE BID FENCE AND THE ADDITIVE ALTERNATE NO. 1 UPGRADED FENCE, WHICH INCLUDES LABOR, MATERIALS, PREPARATION, ERECTION, INSTALLATION TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ITEM.

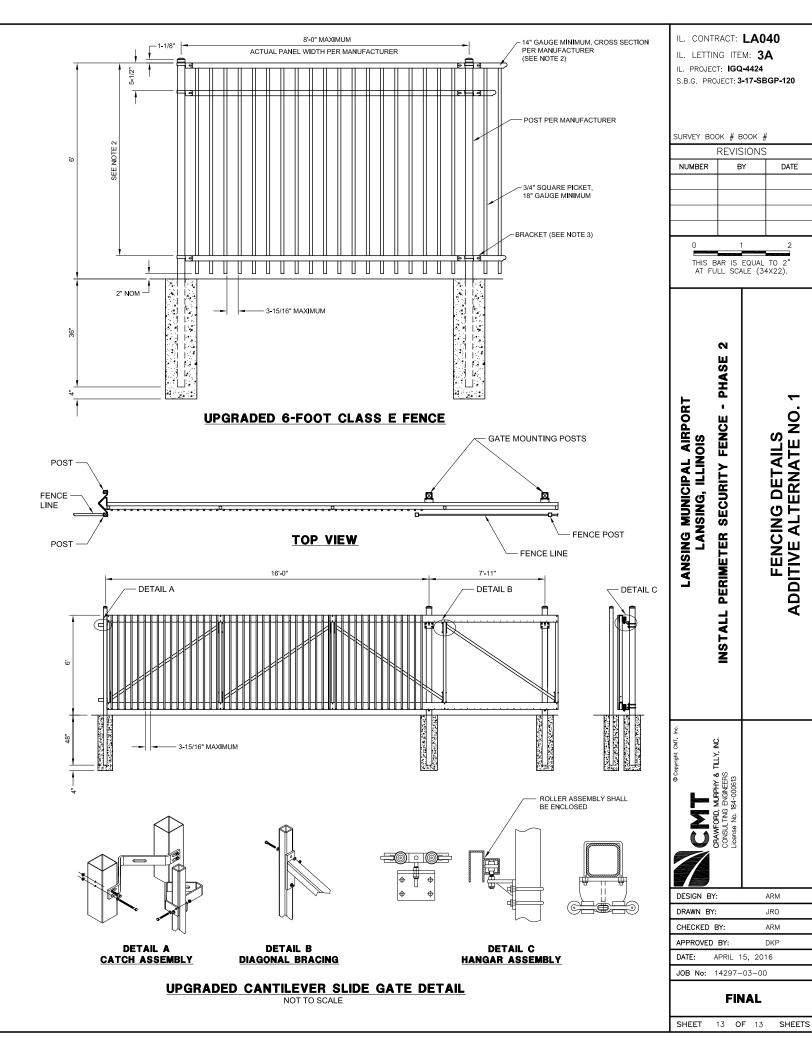


EXAMPLE FENCE RAIL CROSS SECTION



UPGRADED PEDESTRIAN GATE

RAIL DETAIL



REVISIONS

BY

SECURITY FENCE

PERIMETER

FENCING DETAILS DDITIVE ALTERNATE

ARM JRO

FINAL