

		1	GATE #10	1
		GATE #2	& ALT #3	GATE #4 & #7
Α	CLEAR OPENING	20'-0"	24'-0"	24"-0"
В	COUNTERBALANCE POST SPACING C/C	9'-1"	11'-1"	11'-1"
C	OVERALL GATE LENGTH	30'-0"	36'-0"	36'-0"
D	COUNTERBALANCE LENGTH	10-0"	12'-0"	12'-0"
E	NOMINAL GATE HEIGHT	10'-0"	10'-0"	8'-0"
F	POST HEIGHT	11'-6"	11'-6"	9'-6"
G	FABRIC HEIGHT	9'-0"	9'-0"	7'-0"

SIGNS CONTRACTOR SHALL FURNISH AND INSTALL SIGNS AS INDICATED IN TABLE BELOW					
00111	TOTO TOTO GITTLE	BACKGROUND		ERING	O INDICATED IN TABLE BELOW
SIGN	DIMENSIONS	COLOR	COLOR	HEIGHT	TEXT
1	24" x 18"	WHITE	RED	1.5"	FAA REGULATIONS REQUIRE
					THAT AFTER ENTERING OR
					EXITING THROUGH THIS
					SECURITY GATE YOU ARE
					REQUIRED TO WAIT UNTIL THE
					GATE CLOSES BEFORE
					PROCEEDING. FINES OR
					PENALTIES WILL BE IMPOSED.
2	8" x 8"	WHITE	RED	4"	GATE (SEE NOTE #2)
3	SEE WARNING SIGN DETAIL				

NOTES

 SIGNS #1 AND #3 SHALL BE INSTALLED ON BOTH SIDES OF GATE. SIGN #2 SHALL BE INSTALLED ON "LAND" SIDE OF GATE.
 REPLACE WITH GATE #. SEE CRITICAL DIMENSION CHART.



WARNING SIGN DETAIL

UL 235 COMPLIANCE NOTES

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.
- A WARNING SIGN (SEE DETAIL, THIS SHEET) MUST BE AFFIXED TO BOTH SIDES OF THE SLIDE GATE.
- FOR ADDITIONAL UL 235 REQUIREMENTS FOR THIS GATE INSTALLATION, SEE GATE OPERATOR DETAILS SHEET.

NOTES

- 1. 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 PERSONNEL.
- 2. CONTRACTOR SHALL PROVIDE AND INSTALL GATE AS COMPLETE WORKING UNIT.
 THE GATE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: GATE, OPERATOR,
 DIGITAL CODE CONTROL AND POWER CABLES, CONDUIT, TRENCHING, CIRCUIT
 BREAKERS, AND ALL CONNECTIONS, LABOR AND MATERIALS NECESSARY TO
 COMPLETE OPERATION
- 3. LOCATION OF THE GATE OPERATOR SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- 4. PIPE BOLLARDS SHALL BE INSTALLED AT LOCATIONS SHOWN IN PLAN VIEW.
- 5. THE FABRIC TYPE AND FINISH OF THE GATE, MATCH WITH PROPOSED FENCE OR AS DIRECTED BY THE ENGINEER.
- 6. ALL SLIDING GATES SHALL HAVE ALL ROLLERS ENCLOSED IN STEEL OR PLASTIC SHROUDS TO PREVENT ACCIDENTAL INJURY.

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

RPORT AUTHORITY IONAL AIRPORT ILLINOIS	FENCE PHASE 4	ETAILS 1
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FILE: ELECGATEDET01.dwg
UPDATE BY: Jason Frank
PLOT DATE: 6/1/2011 11:17 AM

REVISIONS

BY

WDP

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

DATE

5/25/11

BL067

NUMBER

INSTALL 10' PERIMETER FENC

WFORD, MURPHY & TILLY, INC. SULTING ENGINEERS sinse No. 184-000613

BLOOMINGTON-NORMAL A CENTRAL ILLINOIS RE(BLOOMINGTON

CRAWFOR CONSULT

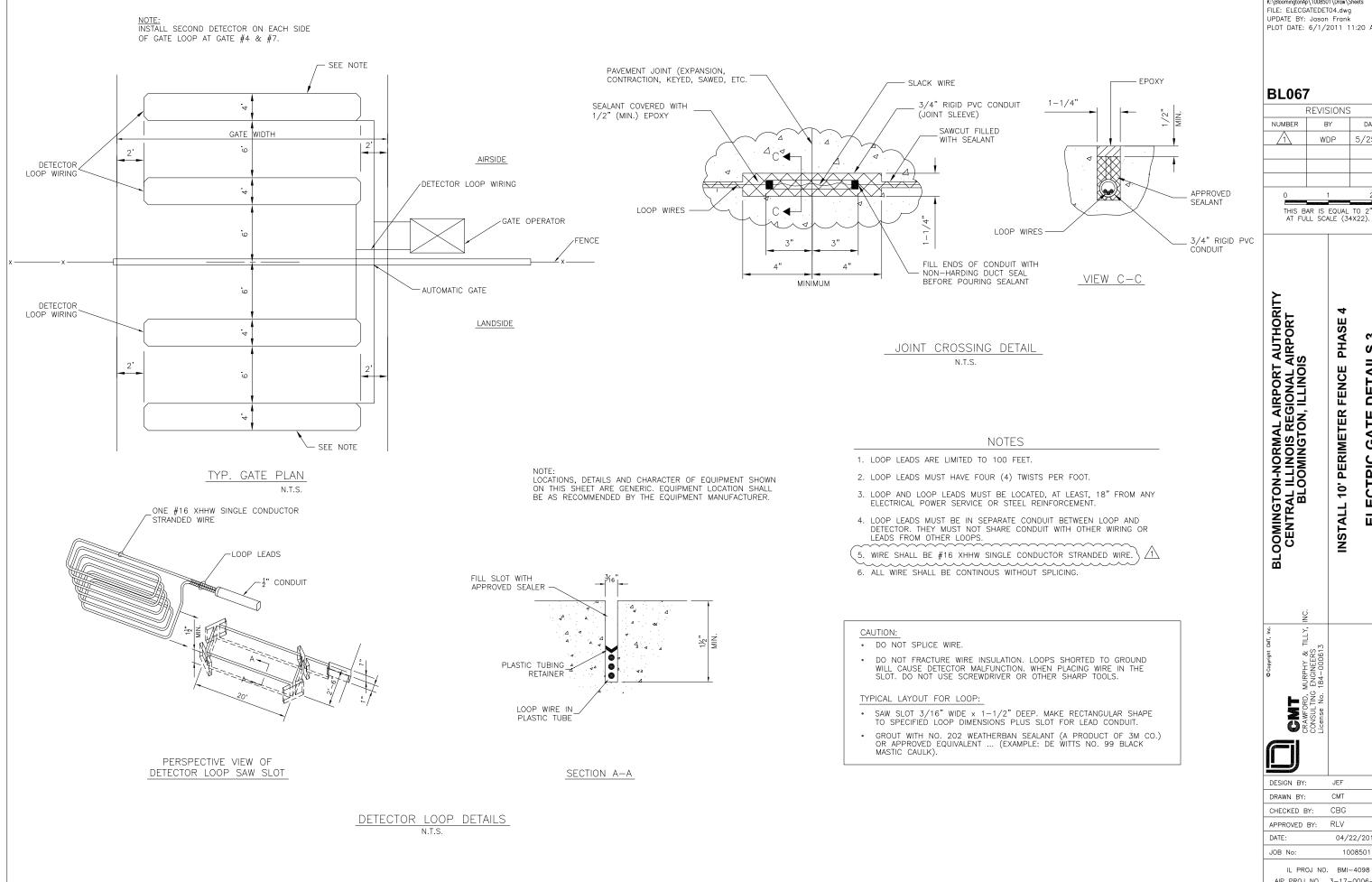
DESIGN BY: JEF
DRAWN BY: CMT
CHECKED BY:
APPROVED BY:

DATE: 04/22/2011

JOB No: 1008501

IL PROJ NO. BMI-4098 AIP PROJ NO. 3-17-0006-XX

SHEET 24 OF 38 SHEETS



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FILE: ELECGATEDET04.dwg UPDATE BY: Jason Frank
PLOT DATE: 6/1/2011 11:20 AM

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0	11	2		
THIS B	AR IS EQUAL	TO 2"		

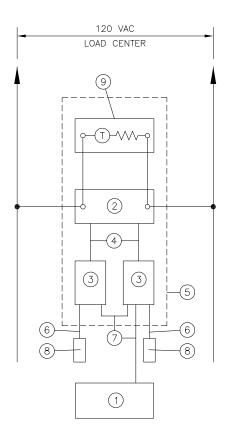
PHASE (C) **DETAILS** FENCE GATE PERIMETER ELECTRIC 10 INSTALL

CRAWFORD, PCONSULTING License No.

JEF CMT CBG RLV APPROVED BY: 04/22/2011 1008501

IL PROJ NO. BMI-4098 AIP PROJ NO. 3-17-0006-XX

SHEET 26 OF 38 SHEETS



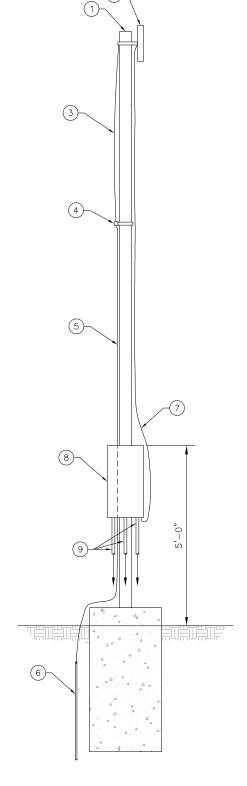
ROUTE 9 GATE & GROWMARK GATE OPERATOR CONTROL BLOCK DIAGRAM

GATE OPERATOR CONTROL BLOCK DIAGRAM NOTES

- (1) GATE OPERATOR.
- (2) WIRELESS CARD READER INTERFACE POWER SUPPLY.
- (3) WIRELESS CARD READER INTERFACE.
- (4) 2/C #14 SHIELDED CABLE (12VDC POWER).
- (5) NEMA 4X STAINLESS STEEL HINGED COVER ENCLOSURE, HOFFMAN, OR EQUIVALENT, SIZED AS REQUIRED TO HOUSE EQUIPMENT.
- 6 6-CONDUCTOR #16 SHIELDED CABLE (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER).
- 7) 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL).
- (8) INDALA LONG RANGE CARD READER, OR EQUIVALENT.
- 9 THERMOSTATICALLY CONTROLLED SPACE HEATER SIZED AS REQUIRED TO MAINTAIN TEMPERATURE INSIDE ENCLOSURE ABOVE 32°F AT OUTSIDE TEMPERATURE OF -10°F.

NOTES

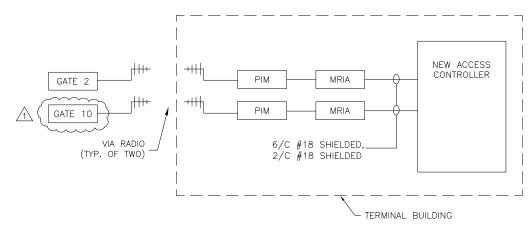
THE ENCLOSURE, COMPLETE WITH ALL EQUIPMENT AND INTERNAL WIRING, SHALL BE FURNISHED BY THE ACCESS CONTROL CONTRACTOR TO THE ELECTRICAL CONTRACTOR FOR MOUNTING ON ANTENNA POLE AND WIRING TO REMOTE FOURMENT



ACCESS CONTROL ANTENNA
DETAIL

ACCESS CONTROL ANTENNA NOTES

- 1) ANTENNA POLE, ROUND STRAIGHT ALUMINUM, 16-TALL, KIM LIGHTING, MODEL PRA16-5188/FM/LG-P, MOUNTED ON 24" DIAMETER CONCRETE FOUNDATION, BY ELECTRICAL CONTRACTOR.
- 2 ANTENNA, SUPPLIED BY ACCESS CONTROL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR (TYPICAL OF TWO PER POLE).
- (3) 5-FOOT GROUNDING CONNECTION CABLE, SUPPLIED BY ACCESS CONTROL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR (TYPICAL OF TWO PER POLE).
- 4 GROUNDING BLOCK, SUPPLIED BY ACCESS CONTROL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
- (5) GROUND WIRE, INSTALLED BY ELECTRICAL CONTRACTOR PER ACCESS CONTROL SUPPLIER REQUIREMENTS. CONNECTION TO GROUND ROD SHALL BE VIA EXOTHERMIC WELD.
- (6) 3/4" DIAMETER X 10' LONG COPPERCLAD GROUND ROD, MINIMUM BURY 1'-0", BY ELECTRICAL CONTRACTOR.
- (7) COAXIAL ANTENNA CABLE, SUPPLIED BY ACCESS CONTROL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR (TYPICAL OF TWO PER POLE). PROVIDE SEALING GROMMETS IN OPENINGS IN BOTTOM OF NEMA 4X ENCLOSURE FOR CABLE ENTRY. PROVIDE "DRIP LOOP" IN COAXIAL CABLES WHEN INSTALLING CABLES. THE NEMA 4 WATER—TIGHTNESS OF ENCLOSURE SHALL BE MAINTAINED.
- (8) NEMA 4X STAINLESS STEEL HINGED COVER ENCLOSURE WITH SPACE HEATER, POWER SUPPLY AND WIRELESS READER INTERFACES, FURNISHED COMPLETE BY ACCESS CONTROL SUPPLIER, INSTALLED BY ELECTRICAL CONTRACTOR.
- CONDUITS AND WIRING AS NEEDED TO REMOTE EQUIPMENT, BY ELECTRICAL CONTRACTOR.



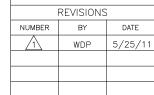
NOTES:

THE ACCESS CONTROL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIALS AND EQUIPMENT IN TERMINAL BLDG, INCLUDING ANY CABLES, CONDUITS, ANTENNAS, MASTS, PANEL INTERFACE MODULES (PIM), MATCH READER INTERFACE MODULES (MRIA), NEW ACCESS CONTROLLER, ACCESSORIES, ETC., AS REQUIRED FOR A COMPLETE AND ACCEPTED ACCESS CONTROL INSTALLATION IN THE TERMINAL BUILDING.

TERMINAL BUILDING ACCESS CONTROL BLOCK DIAGRAM

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

BLOOMINGTON-NORMAL AIRPORT AUTHORITY CENTRAL ILLINOIS REGIONAL AIRPORT BLOOMINGTON, ILLINOIS INSTALL 10' PERIMETER FENCE PHASE 4 ELECTRIC GATE DETAILS 5

CCOPYGAN CANT, INC.
CRAWFORD, MURPHY & TILLY, INCONSULTING ENGINEERS
LICENSE No. 184-000613



DESIGN BY: JEF
DRAWN BY: CMT
CHECKED BY:
APPROVED BY:

DATE: 04/22/2011

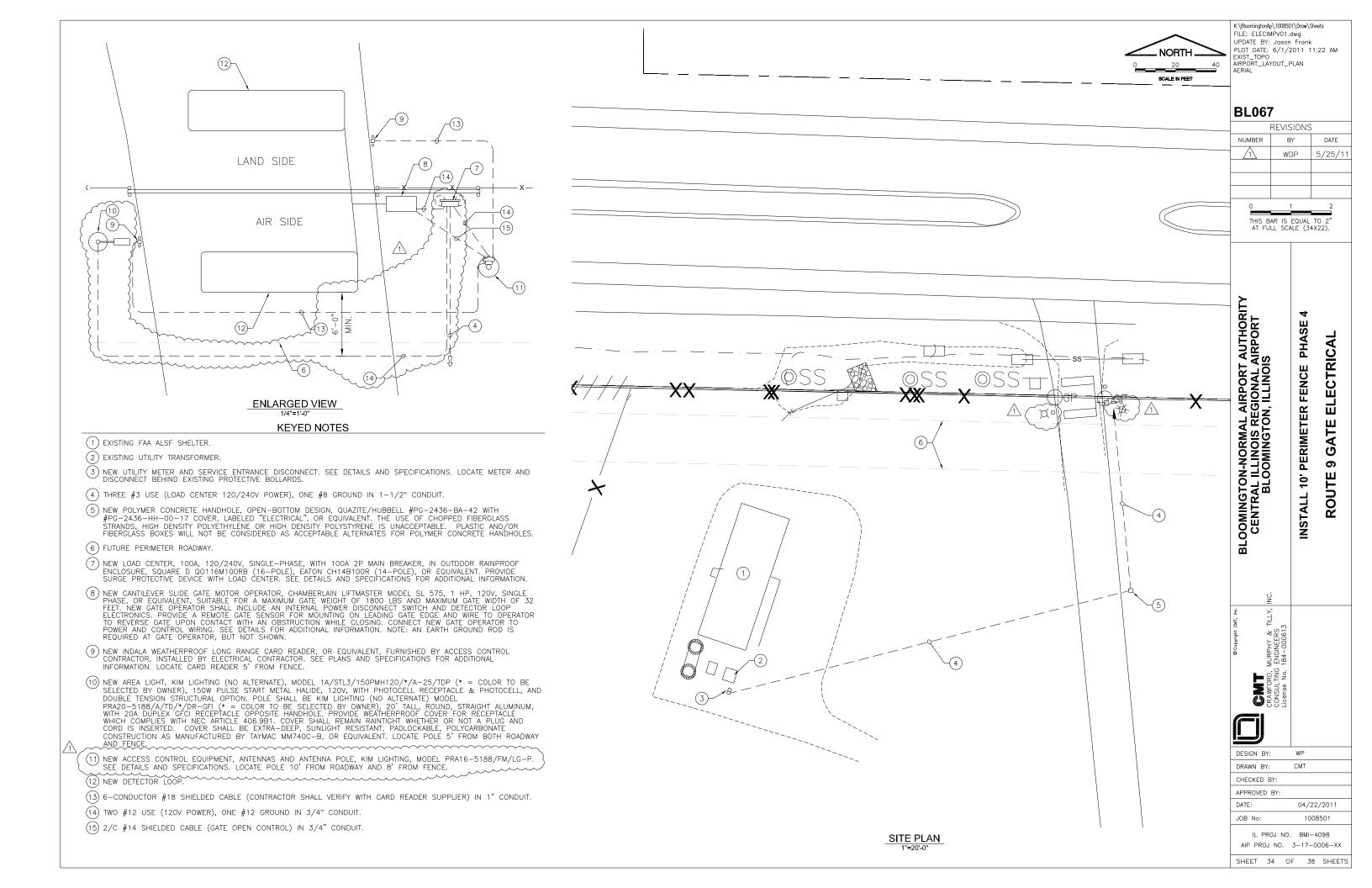
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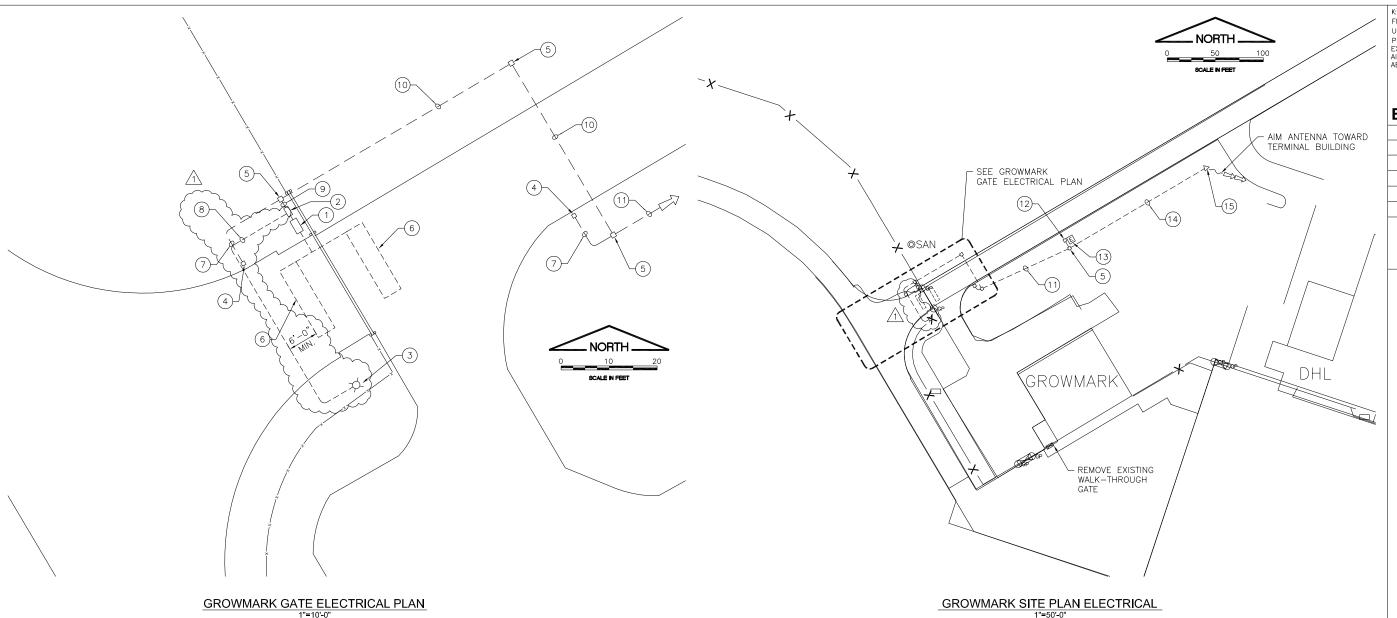
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AIP PROJ NO. 3-17-0006-XX

SHEET 28 OF 38 SHEETS





- (1) NEW CANTILEVER SLIDE GATE MOTOR OPERATOR, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1 HP, 120V, SINGLE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATE WEIGHT OF 1800 LBS AND MAXIMUM GATE WIDTH OF 32 FEET. NEW GATE OPERATOR SHALL INCLUDE AN INTERNAL POWER DISCONNECT SWITCH AND DETECTOR LOOP ELECTRONICS. PROVIDE A REMOTE GATE SENSOR FOR MOUNTING ON LEADING GATE EDGE AND WIRE TO OPERATOR TO REVERSE GATE UPON CONTACT WITH AN OBSTRUCTION WHILE CLOSING. CONNECT NEW GATE OPERATOR TO POWER AND CONTROL WIRING. SEE DETAILS FOR ADDITIONAL INFORMATION. NOTE: AN EARTH GROUND ROD IS REQUIRED AT GATE OPERATOR, BUT NOT SHOWN
- (2) NEW LOAD CENTER, 100A, 120/240V, SINGLE-PHASE, WITH 100A 2P MAIN BREAKER, IN OUTDOOR RAINPROOF ENCLOSURE, SQUARE D Q0116M100RB (16-POLE), EATON CH14B100R (14-POLE), OR EQUIVALENT. PROVIDE SURGE PROTECTIVE DEVICE WITH LOAD CENTER. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- (3) NEW AREA LIGHT, KIM LIGHTING (NO ALTERNATE), MODEL 1A/STL3/150PMH120/*/A-25/TDP (* = COLOR TO BE SELECTED BY OWNER), 150W PULSE START METAL HALIDE, 120V, WITH PHOTOCELL RECEPTACLE & PHOTOCELL, AND DOUBLE TENSION STRUCTURAL OPTION. POLE SHALL BE KIM LIGHTING (NO ALTERNATE) MODEL PRA20-5188/A/TD/*/DR-GFI (* = COLOR TO BE SELECTED BY OWNER), 20' TALL, ROUND, STRAIGHT ALUMINUM, WITH 20A DUPLEX GFCI RECEPTACLE OPPOSITE HANDHOLE. PROVIDE WEATHERPROOF COVER FOR RECEPTACLE WHICH COMPLIES WITH NEC ARTICLE 406.9B1. COVER SHALL REMAIN RAINTIGHT WHETHER OR NOT A PLUG AND CORD IS INSERTED. COVER SHALL BE EXTRA—DEEP, SUNLIGHT RESISTANT, PADLOCKABLE, POLYCARBONATE CONSTRUCTION AS MANUFACTURED BY TAYMAC MM740C-B, OR EQUIVALENT. LOCATE POLE 5' FROM BOTH ROADWAY AND FENCE.

- 4 NEW INDALA WEATHERPROOF LONG RANGE CARD READER, OR EQUIVALENT, FURNISHED BY ACCESS CONTROL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. LOCATE "AIR SIDE"
- #PG-2436-BA-42 WITH #PG-2436-HH-00-17 COVER, LABELED "ELECTRICAL", OR EQUIVALENT. THE USE OF CHOPPED FIBERGLASS STRANDS. HIGH DENSITY POLYETHYLENE OR HIGH DENSITY POLYSTYRENE IS UNACCEPTABLE. PLASTIC AND/OR FIBERGLASS BOXES WILL NOT BE CONSIDERED AS ACCEPTABLE ALTERNATES FOR POLYMER CONCRETE HANDHOLES.
- (6) NEW DETECTOR LOOP. SEE DETAILS AND SPECIFICATIONS.
- 6-CONDUCTOR #18 SHIELDED CABLE (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIËR) IN 1" CONDUIT.
- (8) TWO #12 USE (AREA LIGHT/RECEPTACLE 120V POWER), ONE #12 GROUND IN 1" CONDÜIT
- (9) FROM HANDHOLE TO LOAD CENTER: THREE #3 USE (120/240V POWER FROM UTILITY), ONE #8 GROUND IN 1-1/2" CONDUIT.
 - FROM HANDHOLE TO GATE OPERATOR: 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL FROM WIRELESS READER INTERFACE) IN 1" CONDUIT.
 - FROM LOAD CENTER TO GATE OPERATOR: TWO #12 USE (GATE 120V POWER), ONE #12 GROUND IN 1" CONDUIT
 - 120V POWER), ONE #12 GROUND IN 1" CONDUIT.

- THREE #3 USE (LOAD CENTER 120/240V POWER FROM UTILITY), ONE #8 GROUND IN 1-1/2" CONDUIT.
- TWO #12 USE (WIRELESS READER INTERFACE 120V POWER), ONE #12 GROUND, 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL) IN 1" CONDUIT.
- 6-CONDUCTOR #18 SHIELDED CABLE (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER) IN 1" CONDUIT.
- THREE #3 USE (LOAD CENTER 120/240V POWER FROM UTILITY), ONE #8 GROUND IN 1-1/2" CONDUIT.
 - TWO #12 USE (WIRELESS READER INTERFACE 120V POWER), ONE #12 GROUND, 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL) IN 1" CONDUIT.
- TWO 6-CONDUCTOR #18 SHIELDED CABLES (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER) IN 1-1/2" CONDUIT.
- NEW UTILITY METER AND SERVICE ENTRANCE DISCONNECT. SEE DETAILS AND SPECIFICATIONS.
- EXISTING UTILITY TRANSFORMER. (14)
 - TWO #12 USE (WIRELESS READER INTERFACE 120V POWER), ONE #12 GROUND, 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL) IN 1" CONDUIT
 - TWO 6-CONDUCTOR #18 SHIELDED CABLES (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER) IN 1-1/2" CONDUIT.

NEW ACCESS CONTROL EQUIPMENT, ANTENNAS AND ANTENNA POLE, KIM LIGHTING, MODEL PRA16-5188/FM/LG-P. SEE DETAILS AND SPECIFICATIONS.

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

T AUTHORITY . AIRPORT SIS **PHASE** BLOOMINGTON-NORMAL AIRPORT CENTRAL ILLINOIS REGIONAL A BLOOMINGTON, ILLINOIS FENCE PERIMETER

ELECTRICAL

GATE

GROWMARK

10.

INSTALL

CRAWFO



DESIGN BY: WP CMT DRAWN BY CHECKED BY APPROVED BY: DATE: 04/22/2011 JOB No: 1008501

> IL PROJ NO. BMI-4098 AIP PROJ NO. 3-17-0006-XX

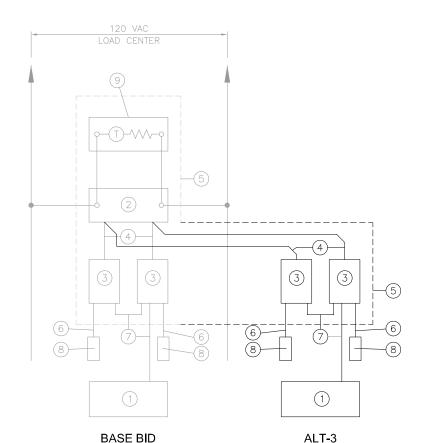
SHEET 35 OF 38 SHEETS

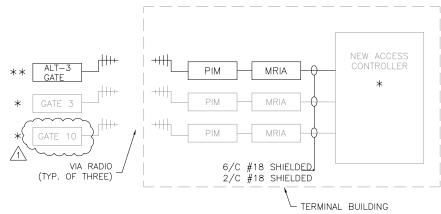
KEYED NOTES

READER 15' (NOM.) FROM GATE. LOCATE "LAND SIDE" READER NEAR END OF RADIUS OF ENTRANCE TO GROWMARK.

(5) NEW POLYMER CONCRETE HANDHOLE, OPEN-BOTTOM DESIGN, QUAZITE/HUBBELL

• FROM LOAD CENTER TO HANDHOLE: TWO #12 USE (WIRELESS READER INTERFACE





/1\ (|SEE ELECTRIC GATE DETAILS 5 FOR NOTES|

GROWMARK GATE #11 & ALT-3 GATE OPERATOR CONTROL BLOCK DIAGRAM

NOTES:

* = BASE BID

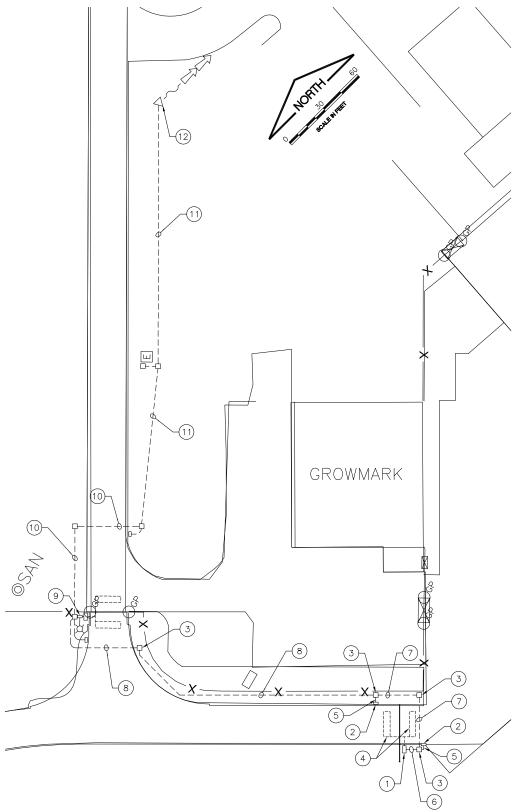
** = ALT-3

ALT-3 TERMINAL BUILDING ACCESS CONTROL BLOCK DIAGRAM

KEYED NOTES

NOTE: THE FOLLOWING DESCRIBES WORK TO BE DONE TO PERFORM THE ELECTRICAL WORK FOR ALT—3 ELECTRIC GATE AT GROWMARK. IT DESCRIBES NEW WORK TO BE DONE AND MODIFICATIONS TO BASE—BID WORK TO FURNISH AND INSTALL ALT-3 ELECTRIC GATE.

- 1) NEW CANTILEVER SLIDE GATE MOTOR OPERATOR, CHAMBERLAIN LIFTMASTER MODEL SL 575, 1 HP, 120V, SINGLE PHASE, OR EQUIVALENT, SUITABLE FOR A MAXIMUM GATE WEIGHT OF 1800 LBS AND MAXIMUM GATE WIDTH OF 32 FEET. NEW GATE OPERATOR SHALL INCLUDE AN INTERNAL POWER DISCONNECT SWITCH AND DETECTOR LOOP ELECTRONICS. PROVIDE A REMOTE GATE SENSOR FOR MOUNTING ON LEADING GATE EDGE AND WIRE TO OPERATOR TO REVERSE GATE UPON CONTACT WITH AN OBSTRUCTION WHILE CLOSING. CONNECT NEW GATE OPERATOR TO POWER AND CONTROL WIRING SEE DETAILS FOR ADDITIONAL INFORMATION. NOTE: AN EARTH GROUND ROD IS REQUIRED AT GATE OPERATOR,
- 2 NEW INDALA WEATHERPROOF LONG RANGE CARD READER, OR EQUIVALENT. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. LOCATE BOTH CARD READERS 15' (NOM.) FROM GATE.
- (3) NEW POLYMER CONCRETE HANDHOLE, OPEN-BOTTOM DESIGN, QUAZITE/HUBBELL #PG-2436-BA-42 WITH #PG-2436-HH-00-17 COVER, LABELED "ELECTRICAL", OR EQUIVALENT. THE USE OF CHOPPED FIBERGLASS STRANDS, HIGH DENSITY POLYETHYLENE OR HIGH DENSITY POLYSTYRENE IS UNACCEPTABLE. PLASTIC AND/OR FIBERGLASS BOXES WILL NOT BE CONSIDERED AS ACCEPTABLE ALTÉRNATES FOR POLYMER CONCRETE HANDHOLES.
- (4) NEW DETECTOR LOOP. SEE DETAILS AND SPECIFICATIONS.
- (5) 6-CONDUCTOR #18 SHIELDED CABLE (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER) IN 1" CONDUIT.
- TWO #6 USE (GATE 120V POWER), ONE #10 GROUND, 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL) IN 1" CONDUIT.
- TWO #6 USE (GATE 120V POWER), ONE #10 GROUND, 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL) IN 1" CONDUIT
 - 6-CONDUCTOR #18 SHIELDED CABLE (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIËR) IN 1" CONDUIT.
- TWO #6 USE (GATE 120V POWER), ONE #10 GROUND, 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL) IN 1" CONDUIT.
 - TWO 6-CONDUCTOR #18 SHIELDED CABLES (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER) IN 1-1/2" CONDUIT.
- TWO #6 USE, ONE #10 GROUND IN 1" CONDUIT FROM HANDHOLE INSTALLED AS PART OF BASE BID TO 20A. 1P CIRCUIT BREAKER IN LOAD CENTER INSTALLED
- TO THE CONDUIT WITH ONE 6-CONDUCTOR #18 SHIELDED CABLE INSTALLED AS PART OF THE BASE BID, ADD TWO 6-CONDUCTOR #18 SHIELDED CABLES (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER). INCREASE CONDUIT SIZE FROM 1" TO 2" CONDUIT.
 - TO THE CONDUIT WITH TWO #12 USE (WIRELESS READER INTERFACE 120V POWER), ONE #12 GROUND, 2/C #14 SHIELDED CABLE (GROWMARK GATE #10 OPEN CONTROL) IN 1" CONDUIT, ADD 2/C #14 SHIELDED CABLE (ALT-3 GATE OPEN CONTROL). CONDUIT SIZE DOES NOT CHANGE
- TO THE CONDUIT WITH TWO 6-CONDUCTOR #18 SHIELDED CABLES INSTALLED AS PART OF THE BASE BID, ADD TWO 6-CONDUCTOR #18 SHIELDED CABLES (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER). INCREASE CONDUIT SIZE FROM 1-1/2" TO 2" CONDUIT.
 - TO THE CONDUIT WITH TWO #12 USE (WIRELESS READER INTERFACE 120V POWER), ONE #12 GROUND, "2/C #14 SHIELDED CABLE (GROWMARK GATE #10 OPEN CONTROL) IN 1" CONDUIT, ADD 2/C #14 SHIELDED CABLE (ALT-3 GATE OPEN CONTROL). CONDUIT SIZE DOES NOT CHANGE.
- (12) - AT THE ANTENNA POLE INSTALLED AS PART OF BASE BID, ADD TWO ANTENNAS AND RELATED HARDWARE, CABLES, ETC., FOR ALT-3 GATE USE, SAME AS DETAILED IN THE BASE BID.
 - IN NEMA 4X ENCLOSURE INSTALLED AS PART OF BASE BID AT ANTENNA POLE, INSTALL TWO WIRELESS READER INTERFACE UNITS AND ASSOCIATED WIRING AND HARDWARE, SAME AS DETAILED IN THE BASE BID.



ALT-3 GATE PLAN 1"=30'-0'

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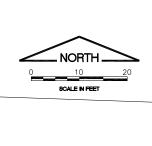
ALT-3

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DESIGN BY: JEF CMT CHECKED BY APPROVED BY: DATE: 04/22/2011 JOB No: 1008501 IL PROJ NO. BMI-4098

> AIP PROJ NO. 3-17-0006-XX SHEET 37 OF 38 SHEETS



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NEW GATE

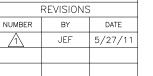
NEW 10' CLASS E FENCE WITH

(3) STRANDS OF BARBED WIRE.

NEW RCP END SECTION

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LOOMINGTON-NORMAL AIRPORT AUTHORITY CENTRAL ILLINOIS REGIONAL AIRPORT BLOOMINGTON, ILLINOIS

FENCE SWAL PERIMETER REGRADE 10

CRAWFORD, N CONSULTING License No.

DESIGN BY: JEF

CMT JEF CHECKED BY: JEF APPROVED BY: JOB No: 1008501

IL PROJ NO. BMI-4098 AIP PROJ NO. 3-17-0006-XX SHEET 38 OF 38 SHEETS

DETAIL

В

PROPOSED GROUND

PROPOSED 24" DOUBLE WALL PLASTIC PIPE

Α

EXISTING -

GROUND

SEE DRAINAGE DETAILS

FOR PROPOSED BACKFILL

RIPRAP, IDOT GRADATION-RR-3, 35 SQ. YD.

FILTER FABRIC FOR USE -WITH RIPRAP, 35 SQ. YD.

PROPOSED 24" DOUBLE WALL-PLASTIC PIPE 30 LFT

EXISTING 24" DOUBLE

WALL PLASTIC PIPE

В

PLAN

N.T.S.

LINE.

SECTION /

N.T.S.

3'-0"

PROPOSED 24" DOUBLE

SECTION

N.T.S.

WALL PLASTIC PIPE

PROPOSED FENCE -

PROPOSED GROUND

- NEW GATE

EXISTING -

GROUND

EXISTING DITCH -

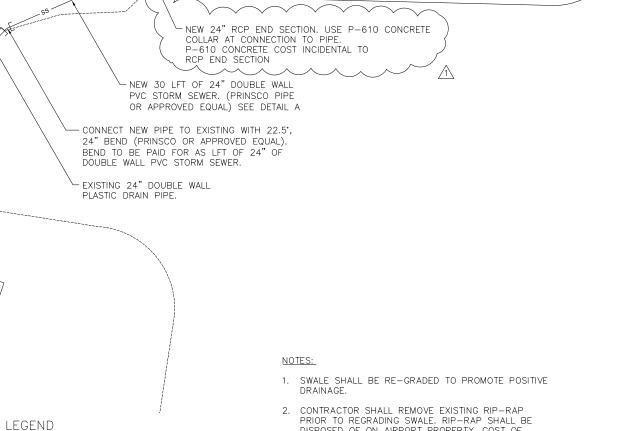
LINE

PROPOSED

RIPRAP

PROPOSED 24" RCP

END SECTION WITH CONCRETE COLLAR.



OF SWALE.

OSS

EXISTING BOX CULVERT

DISPOSED OF ON AIRPORT PROPERTY. COST OF REMOVAL OF RIP-RAP IS INCIDENTAL TO REGRADING

3. CONTRACTOR MAY USE THE TOP 12"-18" OF THE

4. CONTRACTOR SHALL PLACE ALL PROPER WARNING SIGNS AND BARRICADES WHEN WORKING WITHIN THE

RIGHT OF WAY OF ILLINOIS STATE ROUTE 9. COST

OF BARRICADES AND WARNING SIGNS INCIDENTAL

FOR TOP OF BACKFILL OF PLASTIC PIPE.

SHALL BE TO THE PROJECT.

EXISTING BERM ADJACENT TO THE 24" PLASTIC PIPE

©SS

RE-GRADE SWALE, SEED, AND INSTALL EXCECSIOR BLANKET AFTER RE-GRADING

IS COMPLETE.

