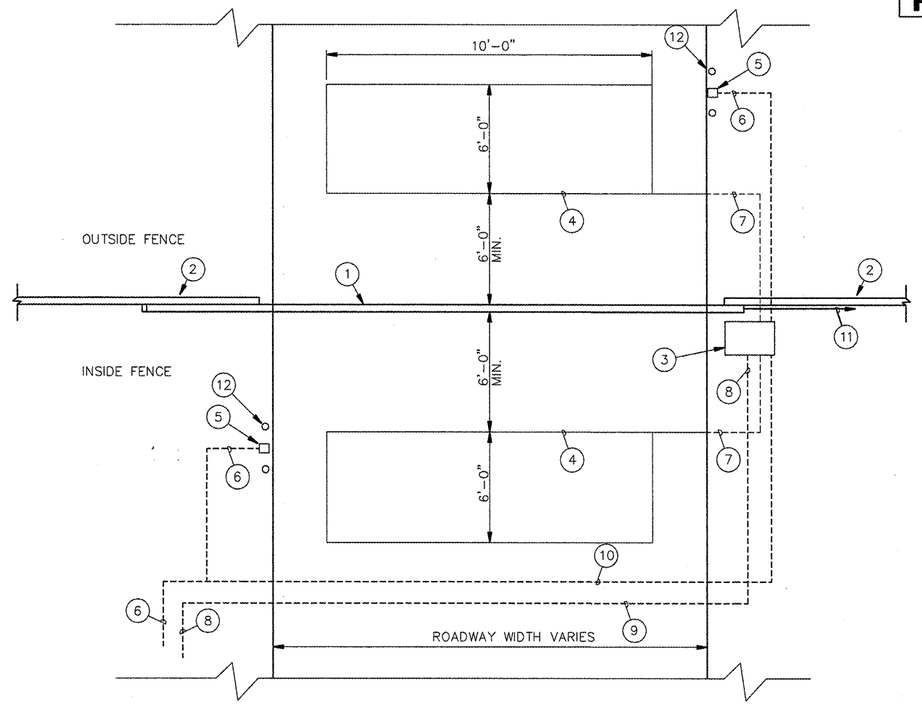
GATE OPERATOR SYSTEM OPERATION:

ENTRANCE:

THE VEHICLE APPROACHES THE GATE ENTRANCE AND WHILE ON THE SENSOR LOOP, THE DRIVER SWIPES A CODED PROXIMITY CARD NEAR THE CARD READER. THIS TRANSMITS A SIGNAL TO THE ACCESS CONTROL PANEL, AND IF AUTHORIZED, TRANSMITS A SIGNAL BACK TO THE ELECTRIC OPERATOR TO OPEN THE GATE. AS THE VEHICLE PROCEEDS THROUGH THE OPEN GATE AND PASSES FROM THE OUTER LOOP TO THE INNER LOOP, THE GATE IS HELD IN THE OPEN POSITION. WHEN THE "OUTER" LOOP HAS BEEN CLEARED, THE TIMER, AFTER A PRE-SET TIME PERIOD, SENDS A SIGNAL TO THE GATE OPERATOR TO CLOSE THE GATE.

EXIT:

FROM INSIDE THE FENCE, THE VEHICLE APPROACHES THE GATE AND WHILE ON THE "INNER" LOOP, THE DRIVER SWIPES A CODED PROXIMITY CARD NEAR THE CARD READER. THIS TRANSMITS A SIGNAL TO THE ACCESS CONTROL PANEL AND IF AUTHORIZED, TRANSMITS A SIGNAL BACK TO THE ELECTRIC OPERATOR TO OPEN THE GATE. AS THE VEHICLE PROCEEDS THROUGH THE OPEN GATE AND PASSES FROM THE "INNER" TO THE "OUTER" LOOP, THE GATE IS HELD IN THE OPEN POSITION. WHEN THE INNER LOOP HAS BEEN CLEARED, THE TIMER, AFTER A PRE-SET TIME PERIOD, SENDS A SIGNAL TO THE GATE OPERATOR TO CLOSE THE GATE.



TYPICAL GATE OPERATOR SITE PLAN

(ORIENTATION VARIES BY SITE LOCATION)

GATE OPERATOR SITE PLAN NOMENCLATURE (SOME NOTES DO NOT APPLY TO EXISTING GATES TO BE REPLACED):

1. SLIDE GATE.
2. FENCE
3. SLIDE GATE MOTOR OPERATOR, SENTEX SYSTEMS MODEL SL570, OR EQUIVALENT, WITH%%%131HP, 240V, SINGLE-PHASE MOTOR. ELECTRICAL CONTRACTOR SHALL INSTALL CONCRETE PAD AS DETAILED ON PLANS AND PER GATE MANUFACTURER REQUIREMENTS. NOTE THAT PAD SHALL INCLUDE MINIMUM OF FOUR 6" DIAMETER REINFORCED FROST LEGS TO BELOW FROST LINE.
4. GATE OPERATOR DETECTOR LOOP, INSTALLED AS DETAILED IN PLANS AND PER MANUFACTURER REQUIREMENTS.
5. GATE OPERATOR PROXIMITY CARD READER FURNISHED BY ACCESS CONTROL SYSTEM MANUFACTURER. ELECTRICAL CONTRACTOR SHALL INSTALL AS DETAILED ON PLANS AND PER MANUFACTURER'S INSTRUCTIONS TO REINFORCED CONCRETE FOUNDATION TO BELOW FROST LINE.
6. CARD READER SIGNAL CABLE AS SPECIFIED BY ACCESS CONTROL SYSTEM MANUFACTURER.
7. 3/4" GRS CONDUIT WITH WIRING AS DETAILED IN PLANS OR AS REQUIRED BY GATE OPERATOR MANUFACTURER.
8. 3/4" GRS CONDUIT WITH TWO #12 TYPE USE CABLES, ONE #12 GROUND. (GATE OPERATOR 240V POWER.)
9. 1" GRS CONDUIT FOR GATE OPERATOR POWER CABLES.
10. 1" GRS CONDUIT FOR SIGNAL WIRES FROM CARD READERS TO ACCESS CONTROLLER & FROM ACCESS CONTROLLER TO GATE OPERATOR.
11. DIRECTION OF SLIDE GATE OPERATION.
12. BOLLARD - 4" DIAMETER IRON PIPE, CONCRETE FILLED. INSTALL PLUMB WITH 3'10" EXPOSED AND 4'8" BELOW GRADE IN AN 8" DIAMETER CONCRETE FILLED HOLE. TYPICAL INSTALLATION IS 2 BOLLARDS PER CARD READER SPACED 12" ON EITHER EITHER SIDE OF THE CARD READER AS SEEN WHEN FACING THE CARD READER SENSING FACE.

PE088

REVISIONS		
NUMBER	BY	DATE

0 1 2

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). PLOT 1

GREATER Peoria REGIONAL Airport

CONSTRUCT NEW PERIMETER ROAD AND PERIMETER FENCE - PROJECT 2

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS

IL PROJECT: PIA-3811
AIP PROJ: 3-17-0080-45

DESIGN BY:	CET
DRAWN BY:	CMT
CHECKED BY:	CET
APPROVED BY:	CET
DATE:	08-21-2008
JOB No:	0706104

GATE OPERATOR SITE PLAN

SHEET 21 OF 21 SHEETS

K:\Peoria\P\0706104\00\Draw\Sheets\1_West_South_Fence\Phase 2 Sheets
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