

# CAIRO REGIONAL AIRPORT

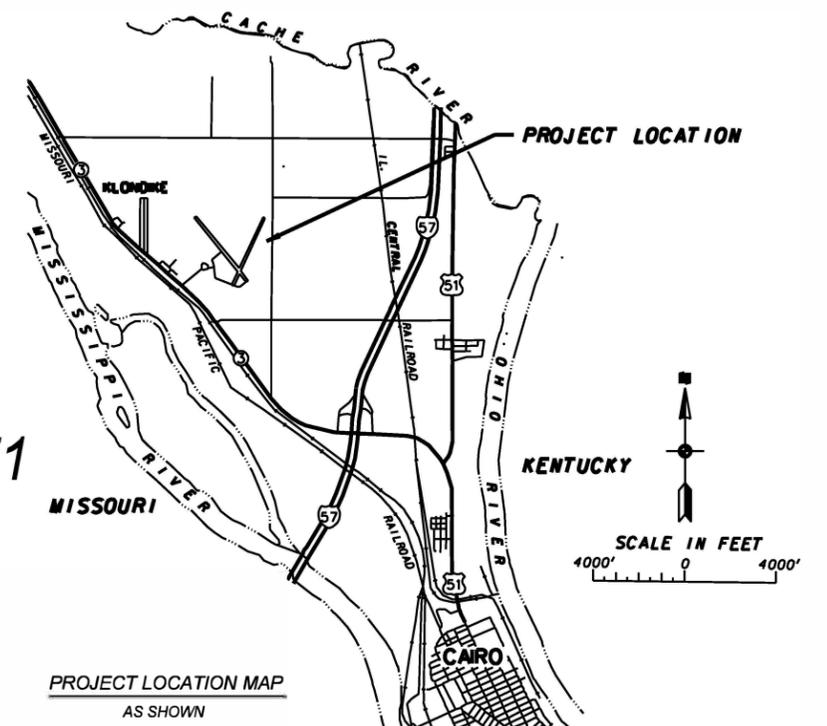
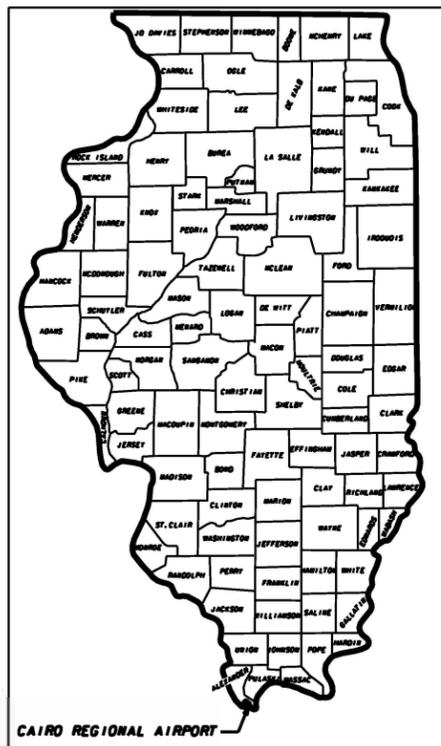
## CAIRO - ALEXANDER COUNTY, ILLINOIS

### AIRPORT TYPE: BASIC UTILITY

### INSTALL PERIMETER FENCE - PHASE 4: NORTH AND WEST PERIMETER

ILLINOIS PROJECT NO. CIR-4788  
 S.B.G. PROJECT NO. 3-17-SBGP-144/156/162/171

LATITUDE 37°03'52"  
 LONGITUDE 89°13'04"  
 ELEVATION 321 MSL



J.T.B. NO. E-10355  
 DATE OF PLANS: MARCH 3, 2023

<b>ALEXANDER COUNTY AIRPORT AUTHORITY</b>	
APPROVED <i>[Signature]</i>	CHAIRMAN
DATE <i>March 24</i>	2022
APPROVED <i>[Signature]</i>	SECRETARY
DATE <i>March 24</i>	2022

PREPARED BY <b>J.T. BLANKSHIP, INC.</b>	
CONSULTING ENGINEERS MURPHYSBORO, ILLINOIS	
APPROVED <i>[Signature]</i>	
DATE <i>March 24</i>	2023



## GENERAL NOTES

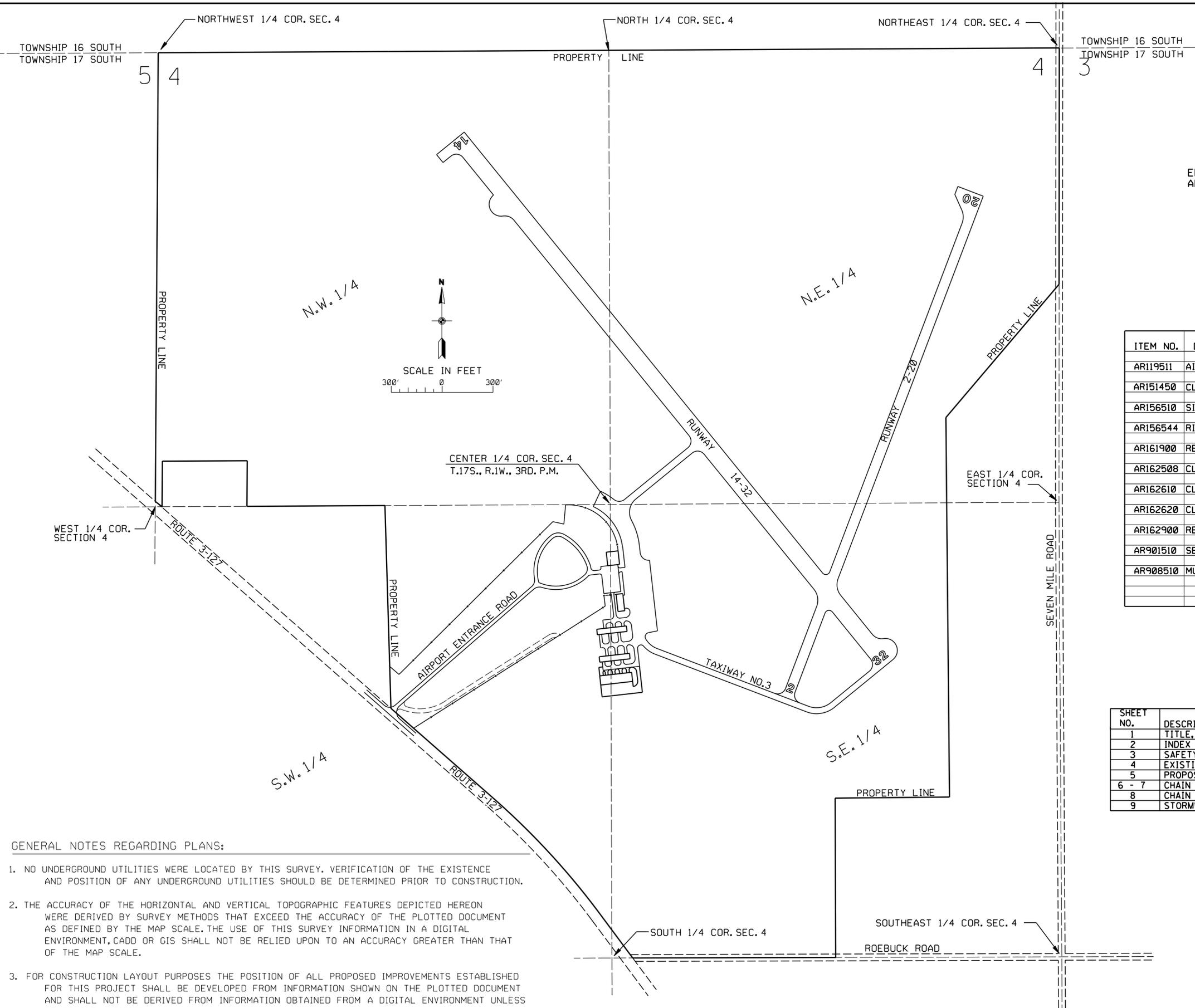
ENGINEER'S FIELD OFFICE  
AN ENGINEER'S FIELD OFFICE WILL NOT BE REQUIRED FOR THIS PROJECT

## SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
ARI1951I	AIRPORT OBSTRUCTION LIGHT - SINGLE	EACH	2	
ARI51450	CLEARING AND GRUBBING	ACRE	13.2	
ARI56510	SILT FENCE	FOOT	2,400	
ARI56544	RIPRAP - GRADATION NO.4	SO YD	100	
ARI61900	REMOVE CLASS C FENCE	FOOT	4,104	
ARI62508	CLASS E FENCE 8'	FOOT	7,239	
ARI62610	CLASS E GATE - 10'	EACH	4	
ARI62620	CLASS E GATE - 20'	EACH	1	
ARI62900	REMOVE CLASS E FENCE	FOOT	356	
AR901510	SEEDING	ACRE	14.6	
AR908510	MULCHING	ACRE	14.6	

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE, COVER & SIGNATURE SHEET AND PROJECT LOCATION MAP
2	INDEX OF SHEETS, SUMMARY OF QUANTITIES, GENERAL NOTES AND SITE LOCATION MAP
3	SAFETY PLAN
4	EXISTING SITE AND REMOVAL PLAN
5	PROPOSED FENCING PLAN
6 - 7	CHAIN LINK FENCE DETAILS
8	CHAIN LINK FENCE DETAILS AND DETAIL FOR OBSTRUCTION LIGHT ON FENCE
9	STORMWATER POLLUTION PREVENTION PLAN



S I T E L O C A T I O N M A P

### GENERAL NOTES REGARDING PLANS:

- NO UNDERGROUND UTILITIES WERE LOCATED BY THIS SURVEY. VERIFICATION OF THE EXISTENCE AND POSITION OF ANY UNDERGROUND UTILITIES SHOULD BE DETERMINED PRIOR TO CONSTRUCTION.
- THE ACCURACY OF THE HORIZONTAL AND VERTICAL TOPOGRAPHIC FEATURES DEPICTED HEREON WERE DERIVED BY SURVEY METHODS THAT EXCEED THE ACCURACY OF THE PLOTTED DOCUMENT AS DEFINED BY THE MAP SCALE. THE USE OF THIS SURVEY INFORMATION IN A DIGITAL ENVIRONMENT, CADD OR GIS SHALL NOT BE RELIED UPON TO AN ACCURACY GREATER THAN THAT OF THE MAP SCALE.
- FOR CONSTRUCTION LAYOUT PURPOSES THE POSITION OF ALL PROPOSED IMPROVEMENTS ESTABLISHED FOR THIS PROJECT SHALL BE DEVELOPED FROM INFORMATION SHOWN ON THE PLOTTED DOCUMENT AND SHALL NOT BE DERIVED FROM INFORMATION OBTAINED FROM A DIGITAL ENVIRONMENT UNLESS OTHERWISE VERIFIED.
- HORIZONTAL DATUM IS ILLINOIS STATE PLAN WEST ZONE (NAD83)
- VERTICAL DATUM IS CAIRO AIRPORT DATUM - (NGVD29)

### CAIRO REGIONAL AIRPORT

ALEXANDER COUNTY, ILLINOIS

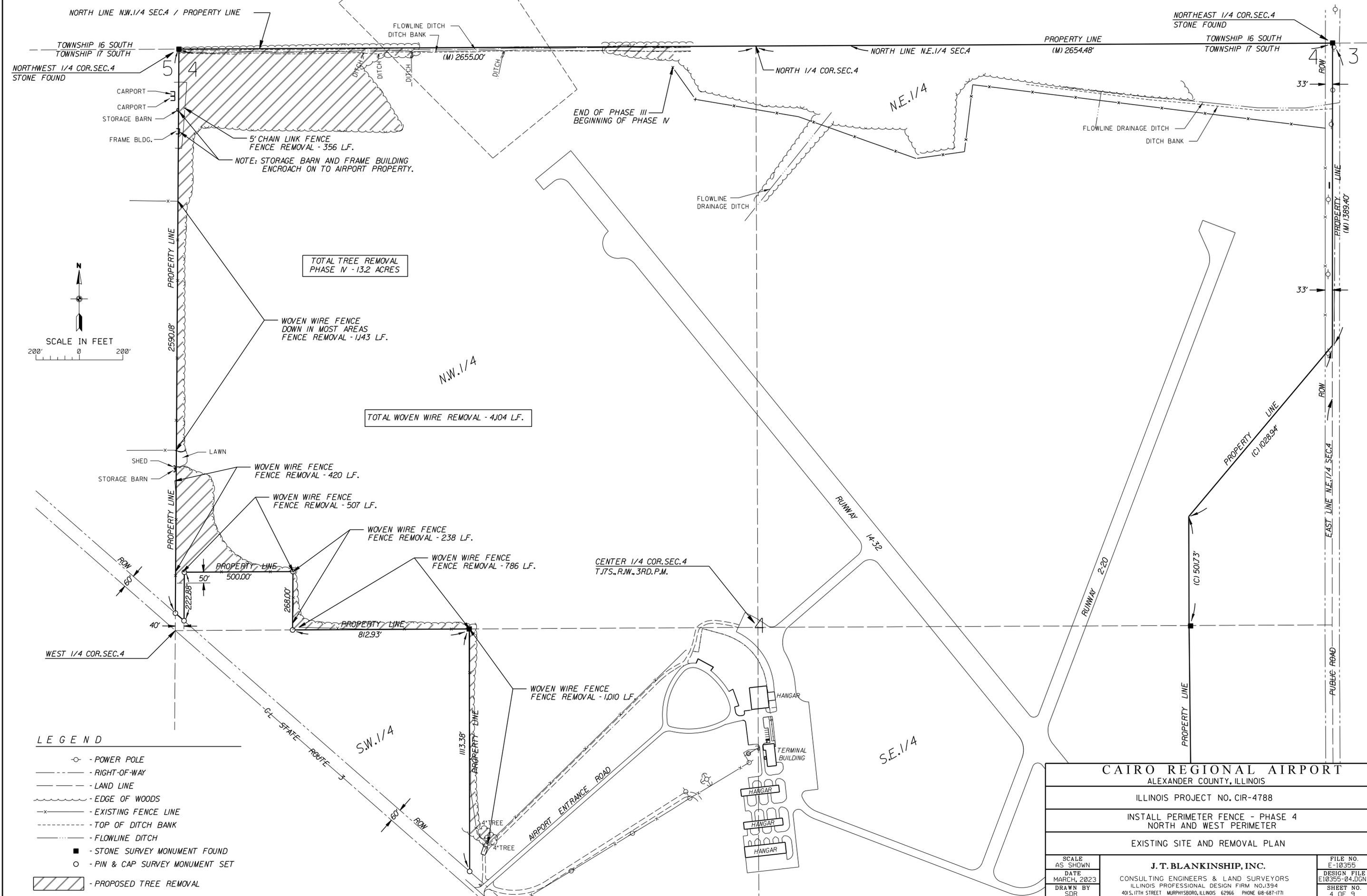
ILLINOIS PROJECT NO. CIR-4788

INSTALL PERIMETER FENCE - PHASE 4  
NORTH AND WEST PERIMETER

INDEX OF SHEETS, SUMMARY OF QUANTITIES,  
GENERAL NOTES AND SITE LOCATION MAP

SCALE AS SHOWN	<b>J. T. BLANKINSHIP, INC.</b> CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO.1394 40 S. 17TH STREET MURPHYSBORO, ILLINOIS 62966 PHONE 618-687-1771	FILE NO. E-10355
DATE MARCH, 2023		DESIGN FILE E10355-02.DGN
DRAWN BY SDR		SHEET NO. 2 OF 9





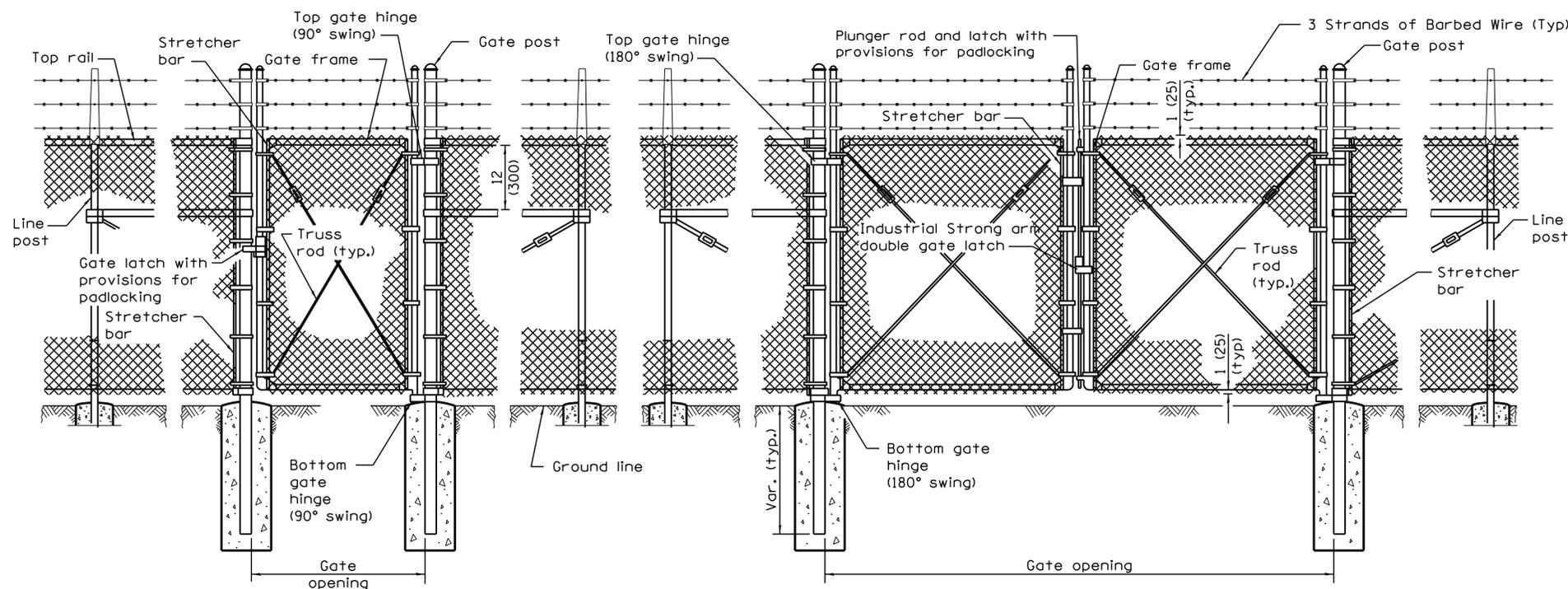
TOTAL TREE REMOVAL  
PHASE IV - 13.2 ACRES

TOTAL WOVEN WIRE REMOVAL - 4,104 LF.

- LEGEND**
- - POWER POLE
  - - RIGHT-OF-WAY
  - - LAND LINE
  - ~~~~~ - EDGE OF WOODS
  - x-x- - EXISTING FENCE LINE
  - - - - - TOP OF DITCH BANK
  - · — · — · - FLOWLINE DITCH
  - - STONE SURVEY MONUMENT FOUND
  - - PIN & CAP SURVEY MONUMENT SET
  - ▨ - PROPOSED TREE REMOVAL

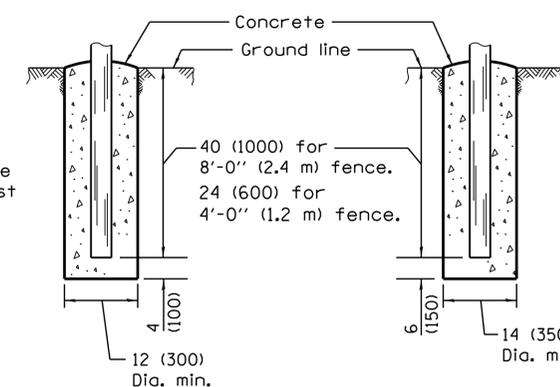
<b>CAIRO REGIONAL AIRPORT</b> ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-4788		
INSTALL PERIMETER FENCE - PHASE 4 NORTH AND WEST PERIMETER		
EXISTING SITE AND REMOVAL PLAN		
SCALE AS SHOWN	<b>J. T. BLANKINSHIP, INC.</b> CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO.1394 401 S. 17TH STREET MURPHYSBORO, ILLINOIS 62966 PHONE 618-687-1771	FILE NO. E-10355
DATE MARCH, 2023		DESIGN FILE E10355-04.DGN
DRAWN BY SDR		SHEET NO. 4 OF 9





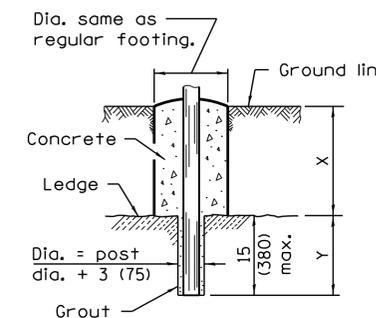
**PEDESTRIAN GATE ARRANGEMENT**

**VEHICLE GATE ARRANGEMENT**

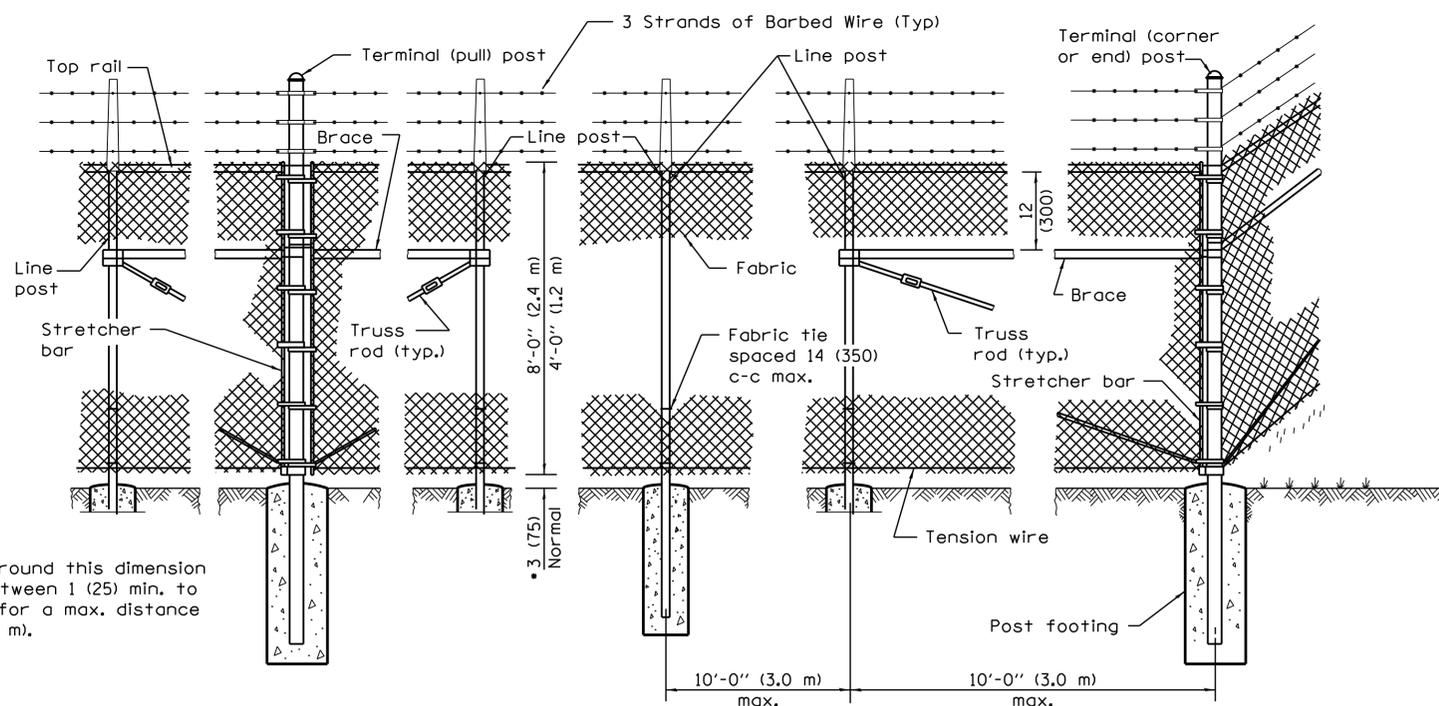


**FOOTING FOR LINE POST**

**FOOTING FOR GATE & TERMINAL POST**



**FOOTING FOR POST IN ROCK LEDGE**



• On uneven ground this dimension may vary between 1 (25) min. to 5 (125) max. for a max. distance of 8'-0" (2.4 m).

**PULL POST ARRANGEMENT**

**LINE POST ARRANGEMENT**

**CORNER OR END POST ARRANGEMENT**

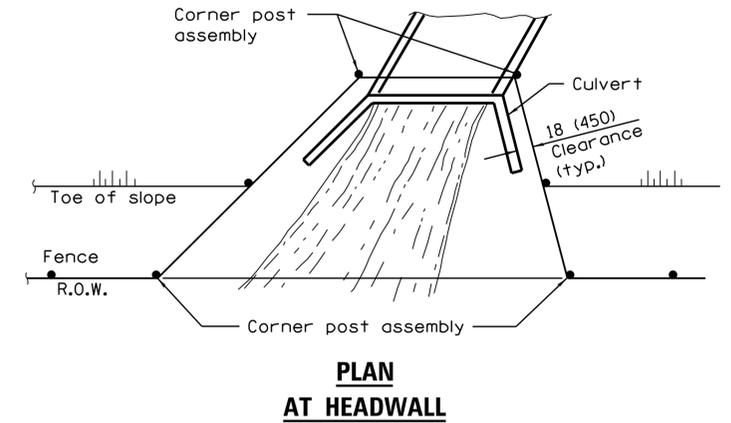
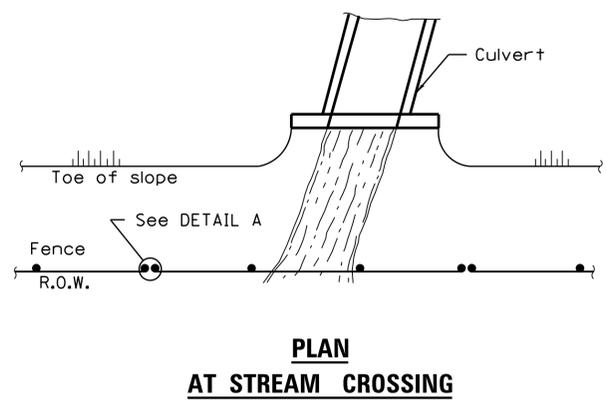
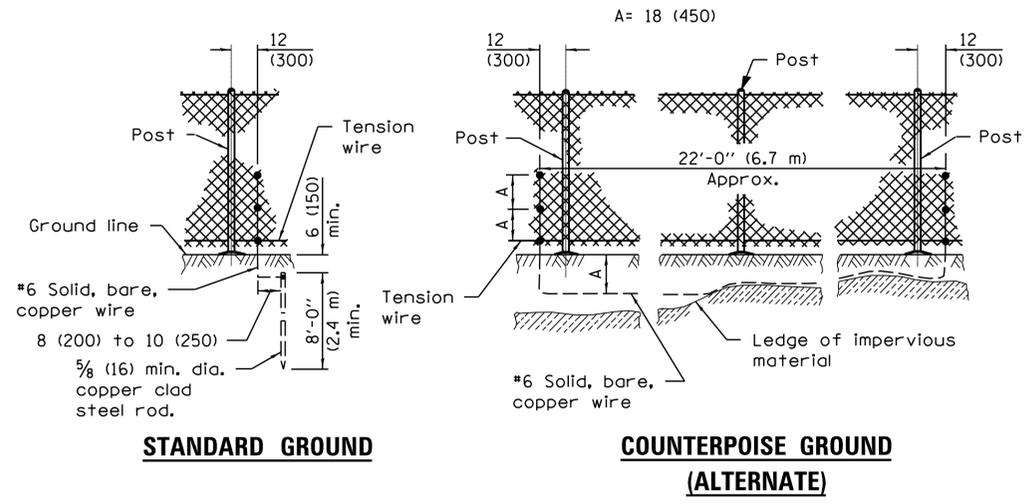
**GENERAL NOTES**

Pull posts shall be placed at locations determined by the Engineer. They shall be placed at 660' (200 m) intervals between posts to which the ends of the fabric are clamped or midway between such posts when the distance is less than 1320' (400 m) and greater than 660' (200 m).

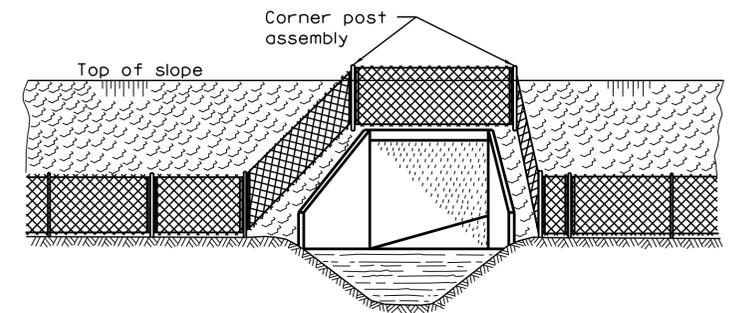
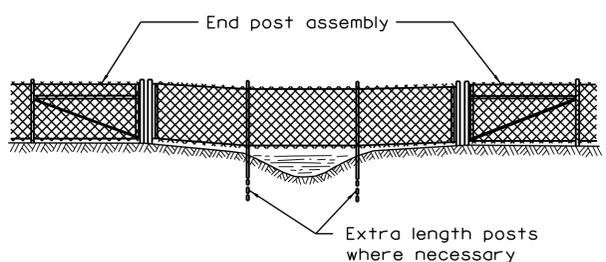
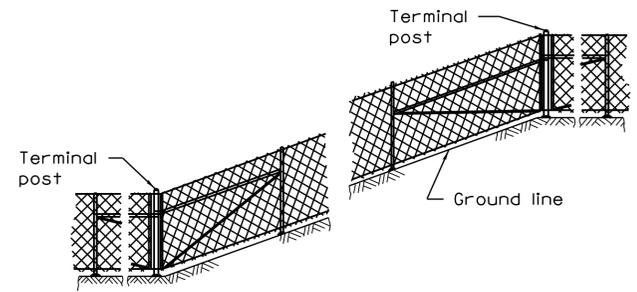
X + Y shall not exceed 24 (600), 30 (750), or 36 (900), as applicable. When X is 0 - 9 (0 - 225), 15 (380), or 21 (525), then Y = 15 (375) and the post shall be shortened as required. When X exceeds 9 (225), 15 (380), or 21 (525), then Y shall be decreased correspondingly.

All dimensions are in inches (millimeters) unless otherwise shown.

<b>CAIRO REGIONAL AIRPORT</b> ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-4788		
INSTALL PERIMETER FENCE - PHASE 4 NORTH AND WEST PERIMETER		
CHAIN LINK FENCE DETAILS		
SCALE AS SHOWN	<b>J. T. BLANKINSHIP, INC.</b> CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO. 1394 401 S. 17TH STREET MURPHYSBORO, ILLINOIS 62466 PHONE 618-687-1771	FILE NO. E-10355
DATE MARCH, 2023		DESIGN FILE E10355-06.DGN
DRAWN BY SDR		SHEET NO. 6 OF 9



**PROTECTIVE ELECTRICAL GROUNDS**



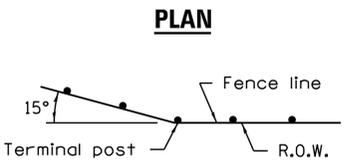
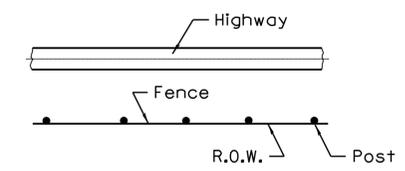
The chain link fabric shall be replaced by barbed wire strands at 12 (300) maximum centers between the double posts shown on DETAIL A when shown on the plans.

When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.

**ELEVATION INSTALLATION OVER STREAM**

**ELEVATION INSTALLATION AROUND HEADWALL**

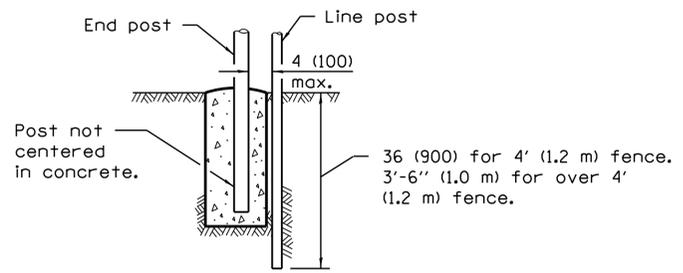
**INSTALLATION ON SLOPES**



When fence line has a change in direction of 15° or more, a terminal post shall be placed as shown above.

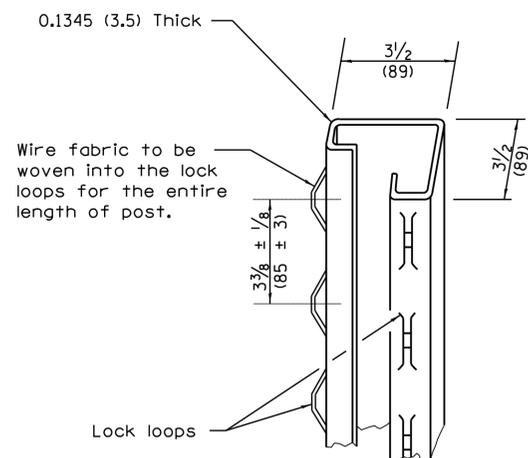
Where angle is less than 15° and existing conditions require a terminal post, they shall be placed as directed by the Engineer.

**INSTALLATION AT CORNERS**

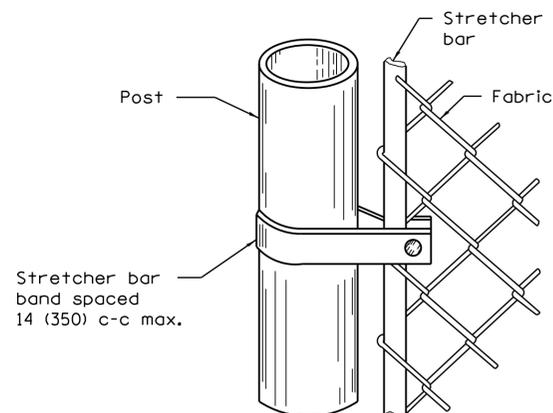


**DETAIL A**

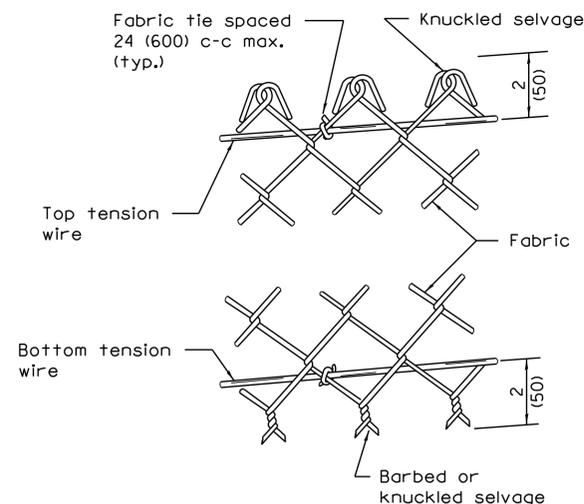
CAIRO REGIONAL AIRPORT ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-4788		
INSTALL PERIMETER FENCE - PHASE 4 NORTH AND WEST PERIMETER		
CHAIN LINK FENCE DETAILS		
SCALE AS SHOWN	J. T. BLANKINSHIP, INC. CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO.1394 40 S. 17TH STREET MURPHYSBORO, ILLINOIS 62366 PHONE 618-687-1771	FILE NO. E-10355
DATE MARCH, 2023		DESIGN FILE E10355-07.DGN
DRAWN BY SDR		SHEET NO. 7 OF 9



**ROLL FORMED SECTION OF  
TERMINAL & GATE POST**



**METHOD OF FASTENING  
STRETCHER BAR TO POST**



**METHOD OF TYING  
FABRIC TO TENSION WIRES**

GATE POSTS			
Gate Opening (FT)		O.D. (IN)	lbs./ft.
Single	Double		
Up to 6	Up to 12	2.875	5.79
Over 6 to 12	Over 12 to 24	4.0	9.11
Over 12 to 18	Over 24 to 36	6.625	18.97
Over 18 to 24	Over 36 to 48	8.625	28.58

NOTE: Only round posts shall be used

4' AND 8' FENCE POST AND BRACE TABLE		
DESCRIPTION	O.D. (IN)	lbs./ft.
LINE POST	2.875	5.79
TERMINAL POST	4.0	9.11
END POST	4.0	9.11
CORNER POST	4.0	9.11
PULL POST	4.0	9.11
TOP RAIL	1.66	1.82

L-810 LED solar powered obstruction light, as part of ADB Airfield Solutions Solar Obstruction Light System (or approved equal)

L-810 Solar Module mounted above top strand of barbed wire with solar panel facing south.

L-810 FAA approved photocell

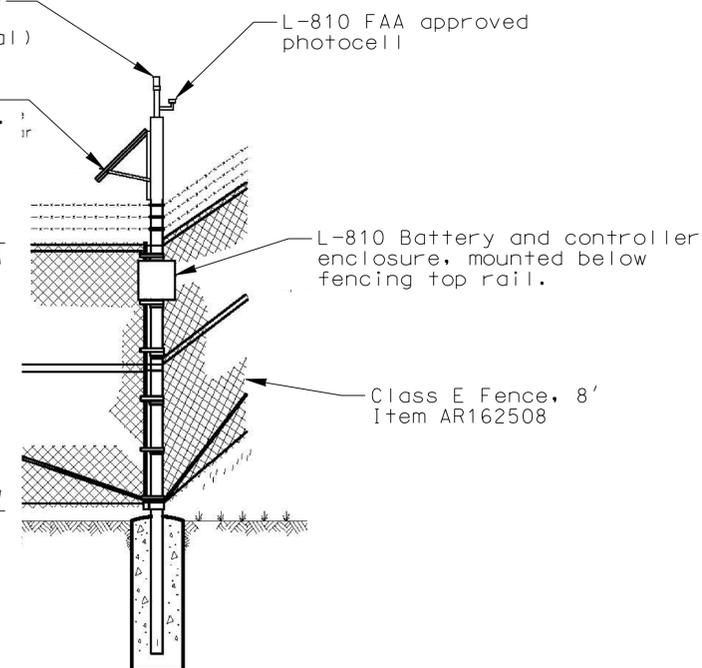
L-810 Battery and controller enclosure, mounted below fencing top rail.

Class E Fence, 8' Item AR162508

**NOTES:**

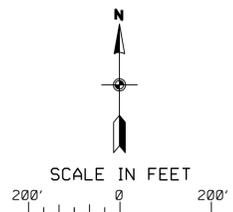
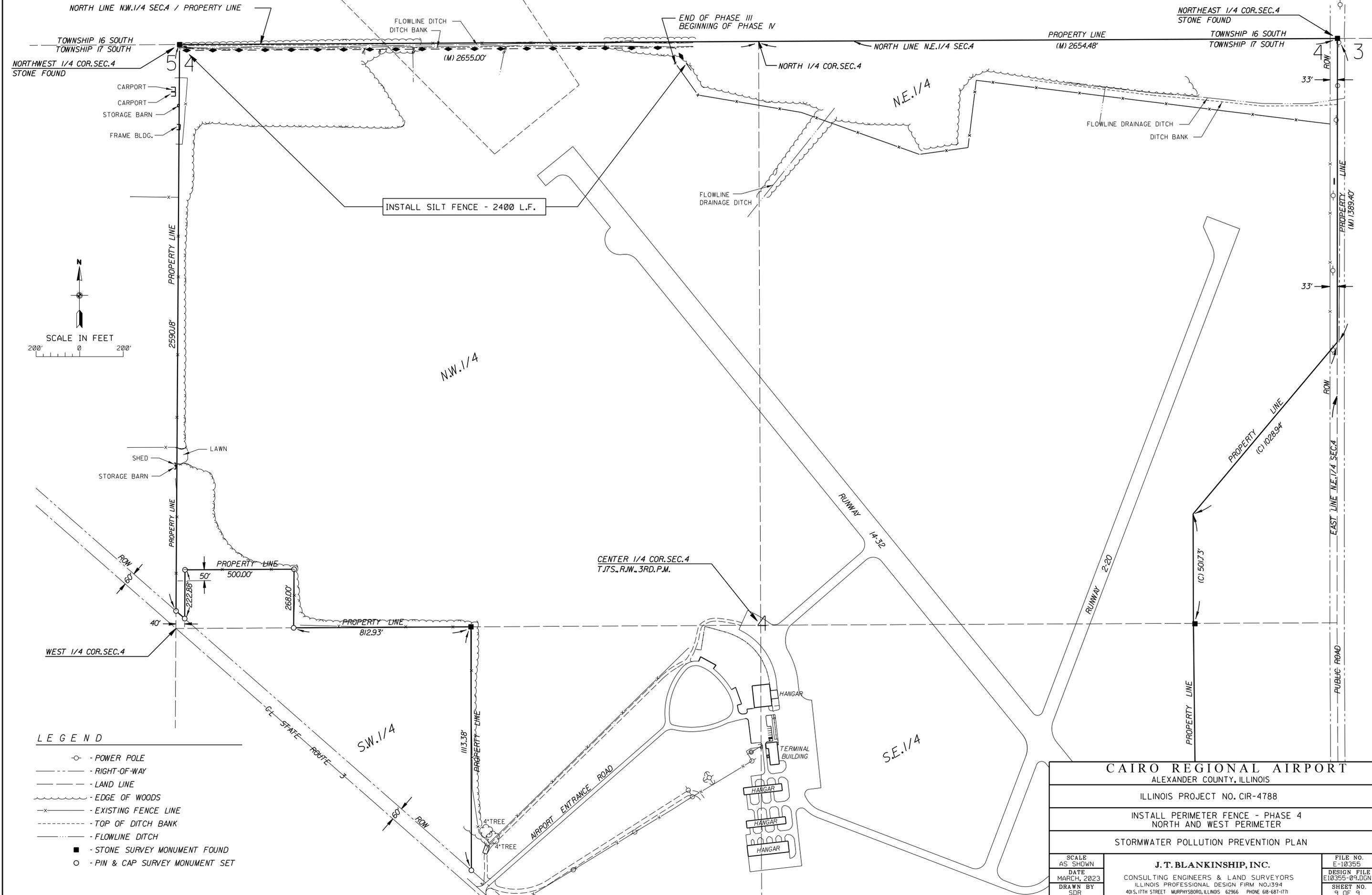
1. L-810 LED Solar Powered Obstruction Light, to be installed in location as indicated on the Plans.
2. L-810 Obstruction Light to be a Solar Obstruction Light System (SOLS) as manufactured by ADB Airfield Solutions or approved equal.
3. All components of the solar powered obstruction light including solar panel(s), enclosure, light fixtures, photocell assembly, fittings, fasteners, grounding equipment and mounting hardware are considered included with Item AR119511 - Airport Obstruction Light - Single.

8'-0" Fence Height



**DETAIL FOR OBSTRUCTION LIGHT ON FENCE  
NOT TO SCALE**

CAIRO REGIONAL AIRPORT ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-		
INSTALL PERIMETER FENCE - PHASE 4 NORTH AND WEST PERIMETER		
CHAIN LINK FENCE DETAILS AND DETAIL FOR OBSTRUCTION LIGHT ON FENCE		
SCALE AS SHOWN	J. T. BLANKINSHIP, INC. CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO.1394 401 S. 17TH STREET MURPHYSBORO, ILLINOIS 62966 PHONE 618-687-1771	FILE NO. E-10355
DATE MARCH, 2023		DESIGN FILE E10355-08.DGN
DRAWN BY SDR		SHEET NO. 8 OF 9



- LEGEND**
- - POWER POLE
  - - RIGHT-OF-WAY
  - - LAND LINE
  - ~~~~~ - EDGE OF WOODS
  - x- - EXISTING FENCE LINE
  - - - - - TOP OF DITCH BANK
  - - FLOWLINE DITCH
  - - STONE SURVEY MONUMENT FOUND
  - - PIN & CAP SURVEY MONUMENT SET

<b>CAIRO REGIONAL AIRPORT</b> ALEXANDER COUNTY, ILLINOIS		
ILLINOIS PROJECT NO. CIR-4788		
INSTALL PERIMETER FENCE - PHASE 4 NORTH AND WEST PERIMETER		
STORMWATER POLLUTION PREVENTION PLAN		
SCALE AS SHOWN	<b>J. T. BLANKINSHIP, INC.</b> CONSULTING ENGINEERS & LAND SURVEYORS ILLINOIS PROFESSIONAL DESIGN FIRM NO. 1394 40 S. 17TH STREET MURPHYSBORO, ILLINOIS 62966 PHONE 618-687-1771	FILE NO. E-10355
DATE MARCH, 2023		DESIGN FILE E10355-04.DGN
DRAWN BY SDR		SHEET NO. 9 OF 9