

CONSTRUCTION PLANS FOR VERMILION REGIONAL AIRPORT DANVILLE, ILLINOIS

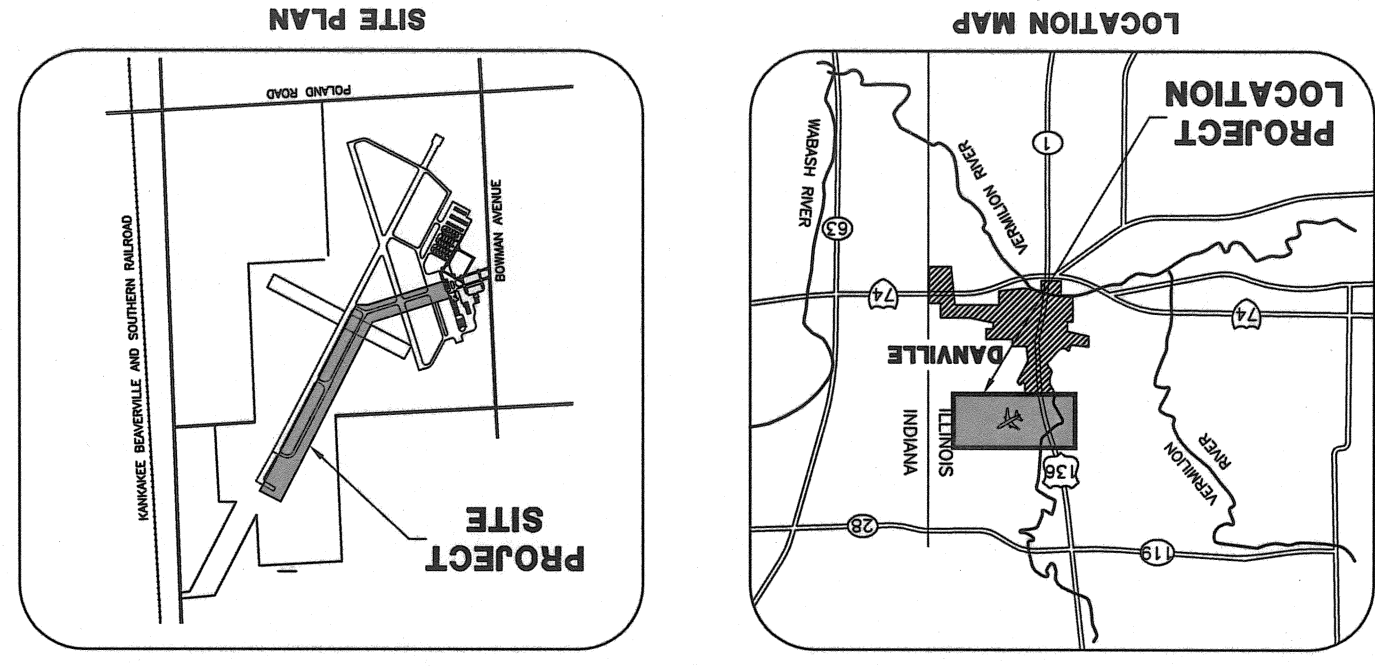
ILLINOIS PROJECT DNV-3921 AIP PROJECT 3-17-0032-B12

REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM

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SUMMARY OF QUANTITIES

| ITEM # | DESCRIPTION | UNIT | QUANTITY |
|----------|---------------------------------|------|----------|
| AR108158 | 1/C #8 SKV UG CABLE IN UD | L.F. | 7900 |
| AR800250 | 2-1/C #8 SKV UG CABLE IN UD | L.F. | 2350 |
| AR125410 | MIL-STAKE MOUNTED | EACH | 70 |
| AR125415 | MIL-BASE MOUNTED | EACH | 15 |
| AR125901 | REMOVE STAKE MOUNT LIGHT | EACH | 69 |
| AR125902 | REMOVE BASE MOUNTED LIGHT | EACH | 8 |
| AR125904 | REMOVE TAXI GUIDANCE SIGN | EACH | 15 |
| AR125442 | TAXI GUIDANCE SIGN, 2 CHARACTER | EACH | 2 |
| AR125443 | TAXI GUIDANCE SIGN, 3 CHARACTER | EACH | 3 |
| AR125445 | TAXI GUIDANCE SIGN, 5 CHARACTER | EACH | 2 |
| AR125446 | TAXI GUIDANCE SIGN, 6 CHARACTER | EACH | 8 |



JANUARY 22, 2010



CMT JOB NUMBER 09042-03-00

DATE: 1.19.2010

SUBMITTED BY: *[Signature]*

CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
■ SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO

CMT

DATE: 1/19/2010

APPROVED: *[Signature]*
AIRPORT MANAGER

VERMILION COUNTY AIRPORT AUTHORITY
DANVILLE, ILLINOIS

VERMILION COUNTY AIRPORT

TOWNSHIP: 20 NORTH
RANGE: 11 WEST
SECTION: 15
COUNTY: VERMILION
CIVIL TOWNSHIP:

811
Know what's below.
Call before you dig.
www.call811.com or
Phone: 811
COMMON GROUND ALLIANCE

MAXIMUM EQUIPMENT HEIGHT = 25'
GROUND FREQUENCY 122.70 MHZ

1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
 2. WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT.
 3. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN. THE MAXIMUM HEIGHT OF EQUIPMENT, MATERIALS AND STOCKPILES SHALL BE 25' ABOVE GROUND ELEVATION.
 4. MEN, VEHICLES AND EQUIPMENT WILL NOT BE ALLOWED WITHIN THE FOLLOWING AREAS:
 A. 200' FROM THE CENTERLINE OF EITHER RUNWAY WHEN ACTIVE.
 B. 70' FROM THE CENTERLINE OF AN ACTIVE TAXIWAY.
 5. ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING A TAXIWAY OR RUNWAY OPEN TO AIRCRAFT TRAFFIC SHALL BE UNDER CONTROL BY A FLAGMAN IN RADIO CONTACT WITH AIR AND GROUND TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE THE FLAGMAN AND RADIO EQUIPMENT AT NO EXTRA COST TO THE CONTRACT.
 6. ABANDONED EQUIPMENT OR OTHER RUBBISH SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY UNLESS OTHERWISE DIRECTED BY THE AIRPORT.
 7. ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
 8. EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING THE WORK OR DEPARTING THE WORK IMMEDIATELY FOLLOWING SAID VEHICLE.
 10. IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS SO AS TO AVOID ANY DAMAGE. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD ELECTRICAL CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
 11. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
 A. THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN IN THE PLANS.
 B. THE CONTRACTOR SHALL COMPLETE A SECURITY FORM FOR ALL PERSONNEL HE PROPOSES TO USE ON THE AIRPORT. THESE FORMS SHALL BE COMPLETED PRIOR TO THAT PERSON BEING ALLOWED ON THE AIRFIELD. A LIST OF PERSONNEL AUTHORIZED TO WORK ON THE AIRFIELD SHALL BE PROVIDED TO THE RESIDENT ENGINEER BY THE CONTRACTOR.
 C. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A HEAVY-DUTY PADLOCK ON THE ACCESS GATE. HE SHALL PROVIDE KEYS FOR HIS PADLOCK TO THE RESIDENT ENGINEER, VRAA MAINTENANCE SUPERVISOR, AND VRAA SECURITY CHIEF. NO ADDITIONAL KEYS ARE TO BE DISTRIBUTED UNLESS AUTHORIZED BY THE RESIDENT ENGINEER.
 D. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T.
 E. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
 F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS. THE CONTRACTOR SHALL POST A COMPETENT SECURITY GUARD TO CONTROL ACCESS AT THE GATE. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED.
 G. THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE SITE.
 H. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 I. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS NOT TO VIOLATE AIRPORT PART 77 SURFACES, OR RUNWAY AND TAXIWAY SAFETY AREAS.
 J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING.

GENERAL NOTES

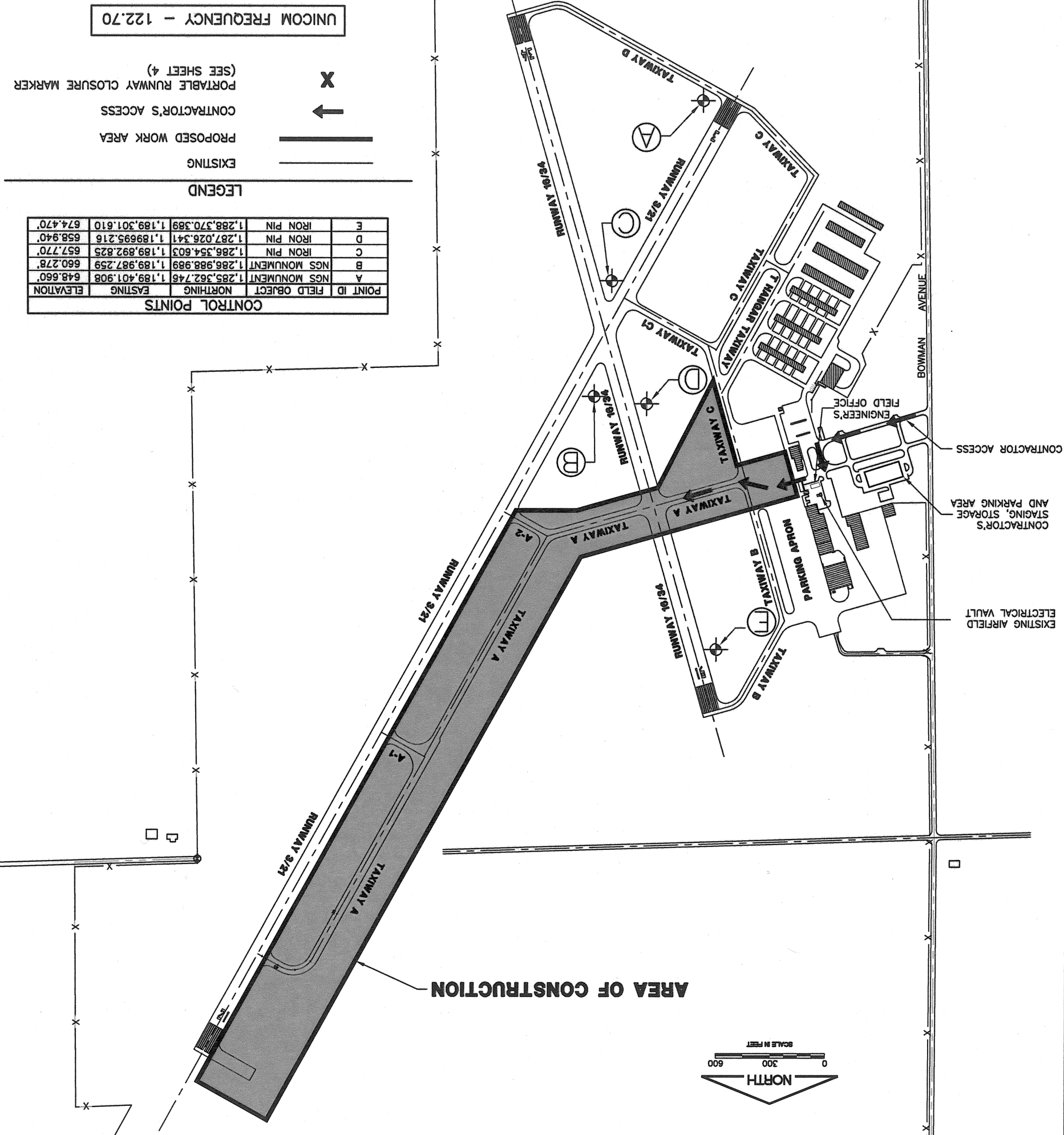
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 J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING.

UNICOM FREQUENCY - 122.70

PORTABLE RUNWAY CLOSURE MARKER
 CONTRACTOR'S ACCESS
 PROPOSED WORK AREA
 EXISTING

LEGEND

| POINT ID | FIELD OBJECT | NORTHING | EASTING | ELEVATION |
|----------|--------------|---------------|---------------|-----------|
| A | NGS MONUMENT | 1,285,362.746 | 1,189,401.908 | 648.660 |
| B | NGS MONUMENT | 1,286,988.989 | 1,189,987.259 | 660.278 |
| C | IRON PIN | 1,286,354.603 | 1,189,892.825 | 657.770 |
| D | IRON PIN | 1,287,026.341 | 1,189,695.216 | 658.940 |
| E | IRON PIN | 1,288,370.389 | 1,189,301.610 | 674.470 |



AREA OF CONSTRUCTION

REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM

VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS

VE046

REVISIONS

| NUMBER | BY | DATE |
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FILE: XX SITE PLAN.dwg
 UPDATE BY: Dale Draughon
 PLOT DATE: 1/19/2010 9:18 AM
 DNV-EXISTBASE
 BASE_PROPGEO

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34x22).

0 1 2

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 CHAMFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 94-000693

DESIGN BY: TJH
 DRAWN BY: CMT
 CHECKED BY:
 APPROVED BY:
 DATE: 01-22-2010
 JOB No: 0904203
 IL PROJ. NO. DNV-3921
 AIP PROJ. NO. 3-17-0032-B12
 SHEET 02 OF 14 SHEETS

SHEET 03 OF 14 SHEETS
 AIP PROJ. NO. 3-17-0032-B12
 ILL. PROJ. NO. DNV-3921
 JOB No.: 0904203
 DATE: 01-22-2010
 APPROVED BY:
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 DRAWN BY: CMT
 DESIGN BY: TJH

VERMILION REGIONAL AIRPORT
DANVILLE, ILLINOIS
REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
CONSTRUCTION ACTIVITY PLAN
PHASE 1

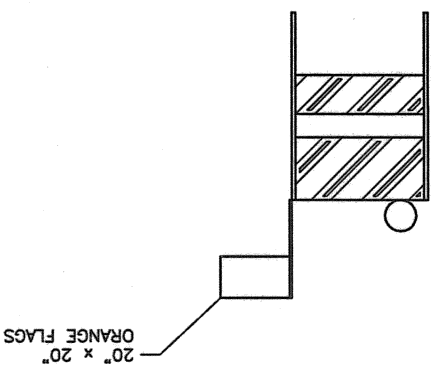
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 UPDATE BY: Dale Droughan
 PLOT DATE: 1/19/2010 9:18 AM
 DNV-EXISTBASE
 BASE_PROPGEO

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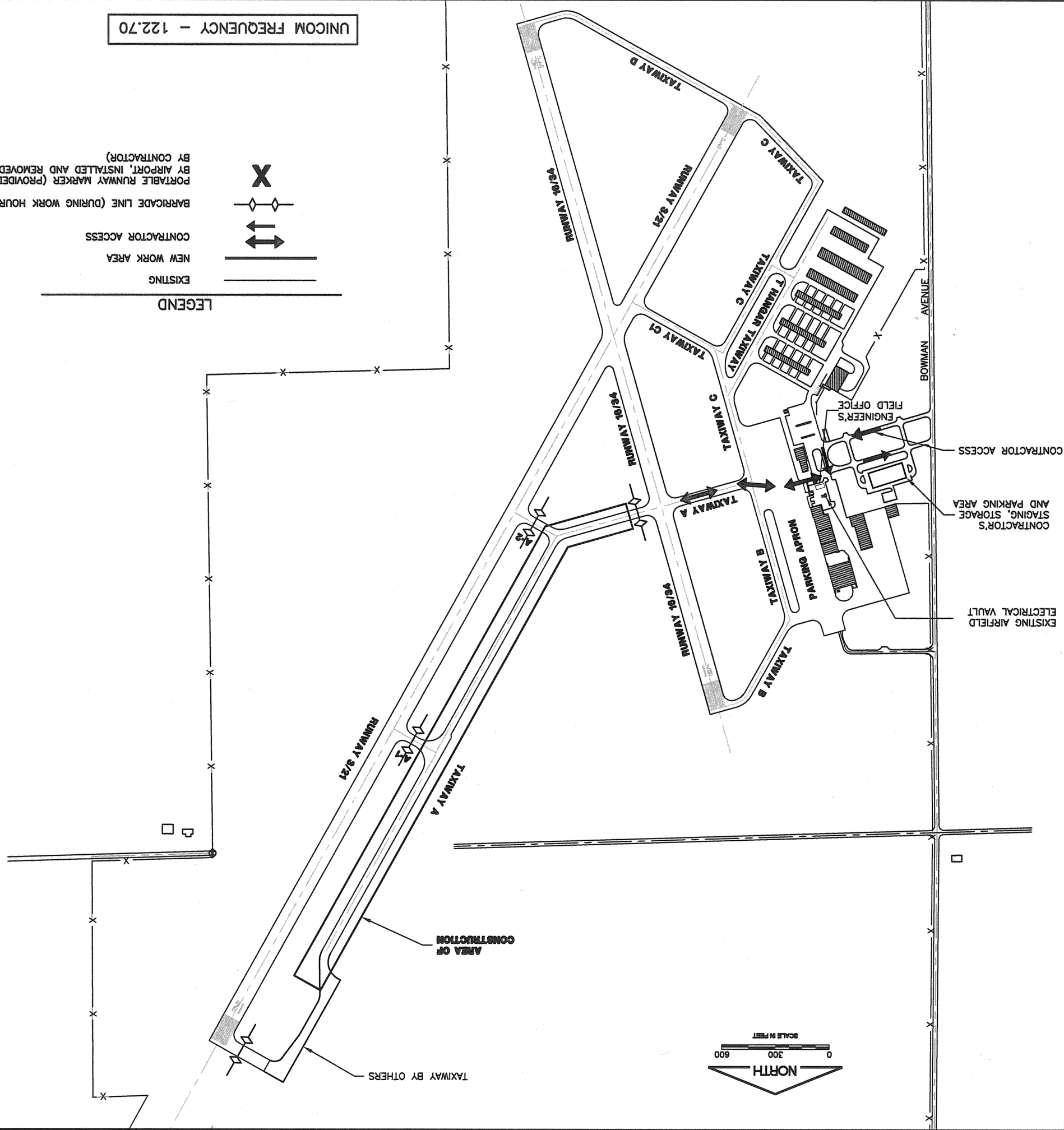
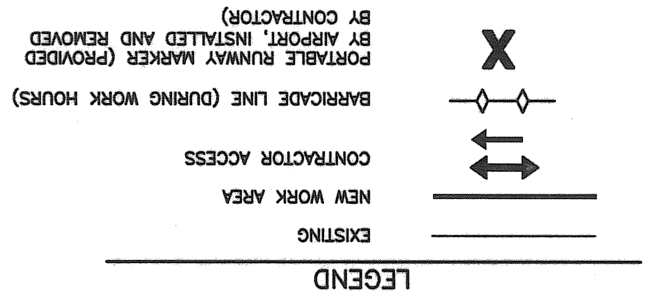
- PHASE 1 NOTES**
1. THE CONTRACTOR SHALL CLOSE TAXIWAY ALPHA DURING CONSTRUCTION WORK HOURS FOR THE REPLACEMENT OF LIGHTING CABLE ALONG THE TAXIWAY.
 2. THE CONTRACTOR SHALL PROVIDE A FLAGGER TO USE TAXIWAY A AND CROSS RUNWAY 16/34.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING THE WORK OR DEPARTING THE WORK IMMEDIATELY FOLLOWING SAID VEHICLE.
 4. WORK SHALL NOT BE COMPLETED WITHIN 200' FROM THE CENTERLINE OF EITHER RUNWAY.
 5. AT THE END OF EACH DAILY CLOSURE, THE WORK AREA SHALL BE CLEANED, EXCAVATIONS BACKFILLED AND PAVEMENT RE-OPENED TO AIRCRAFT TRAFFIC.
 6. THE CONTRACTOR SHALL PROMINENTLY MARK OPEN TRENCHES AND EXCAVATIONS AT THE CONSTRUCTION SITE, AS APPROVED BY THE AIRPORT OPERATOR, AND LIGHT THEM WITH RED LIGHTS DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
 7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ESTABLISH HOURS OF CONSTRUCTION FOR EACH PHASE THAT RESULT IN RUNWAY OR TAXIWAY CLOSURES. THE CONTRACTOR SHALL ADHERE TO THIS SCHEDULE TO ENSURE THAT NO CONSTRUCTION IS COMPLETED OUTSIDE OF THE DAILY CLOSURE TIMES.
 8. THE CONTRACTOR SHALL NOTIFY THE AIRPORT 5 DAYS PRIOR TO ANY CLOSURES SO THAT THE AIRPORT MAY ISSUE THE APPROPRIATE NOTAMS. THE CONTRACTOR SHALL CONTINUOUSLY UPDATE AND COMMUNICATE HIS SCHEDULE WITH THE AIRPORT THROUGHOUT THE DURATION OF THE PROJECT.

FLASHER BARRICADE DETAIL
N.T.S.



- FLASHER BARRICADE NOTES**
1. FLASHERS TO BE BATTERY OPERATED, LENS TO BE RED AND BE ABLE TO ROTATE 90 DEGREES.
 2. SANDBAGS TO BE PLACED ON EACH SUPPORT BRACE AS REQUIRED TO PREVENT DISPLACEMENT BY WIND, JET OR PROP BLAST.
 3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
 4. PLACE AT 15' INTERVALS.

UNICOM FREQUENCY - 122.70



SHEET 04 OF 14 SHEETS
 IL PROJ. NO. DNV-3921
 AP PROJ. NO. 3-17-0032-B12
 JOB No: 0904203
 DATE: 01-22-2010
 APPROVED BY:
 CHECKED BY:
 DRAWN BY: CMT
 DESIGN BY: TJH

VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS
 REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
 CONSTRUCTION PLAN
 PHASE 2

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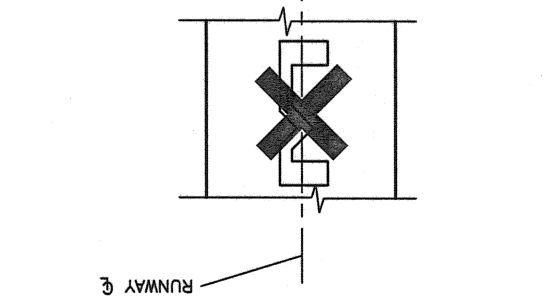
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REVISIONS
 VE046

FILE: XX CAP PHASE 2.dwg
 UPDATE BY: Dale Droughan
 PLOT DATE: 1/19/2010 9:18 AM
 DNV-EXISTBASE
 BASE_PROPGEO

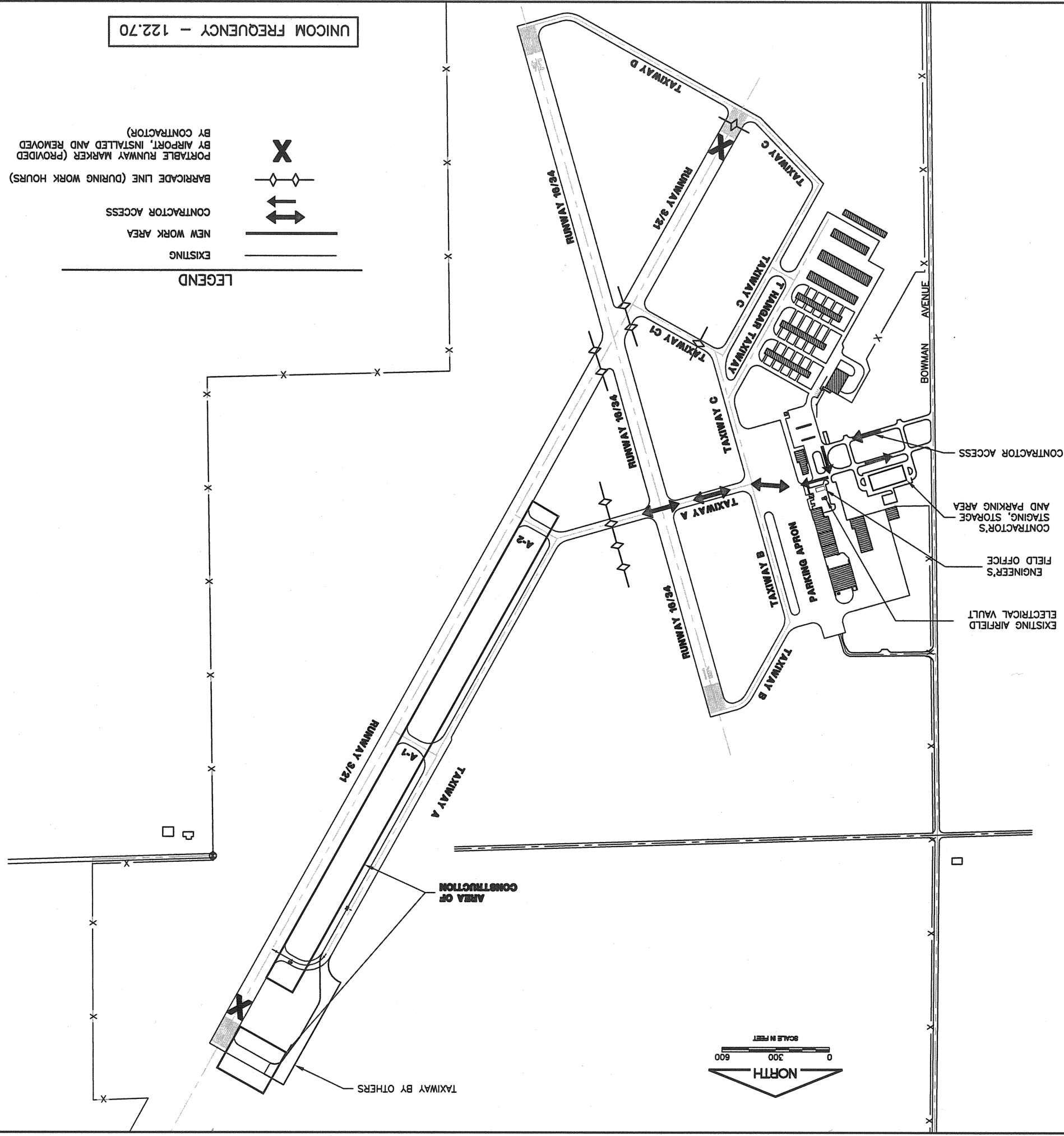
PHASE 2 NOTES

1. PHASE 2 MAY TAKE PLACE CONCURRENT WITH THE WORK IN PHASE 1.
2. THE CONTRACTOR WILL BE ALLOWED TO CLOSE RUNWAY 3/21 DURING WORKING HOURS FOR A MAXIMUM OF 5 DAYS TOTAL FOR THE WORK TO BE COMPLETED IN PHASE 2.
3. THE CONTRACTOR SHALL NOT PARK WORK VEHICLES OR MACHINERY ON THE RUNWAY AT ANY TIME.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING THE WORK OR DEPARTING THE WORK IMMEDIATELY FOLLOWING SAID VEHICLE.
5. THE CONTRACTOR MUST PROVIDE A YELLOW RUNWAY CLOSURE MARKER AT EACH END OF THE RUNWAY IN ORDER TO CLOSE THAT RUNWAY. SEE DETAIL BELOW.
6. THE CONTRACTOR MUST CLEAR THE RUNWAY CLOSURE MARKERS EACH DAY AFTER WORKING HOURS.
7. AT THE END OF EACH DAILY CLOSURE, THE WORK AREA SHALL BE CLEANED, EXCAVATIONS BACKFILLED AND PAVEMENTS RE-OPENED TO AIRCRAFT TRAFFIC.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ESTABLISH HOURS OF CONSTRUCTION FOR EACH PHASE THAT RESULT IN RUNWAY OR TAXIWAY CLOSURES. THE CONTRACTOR SHALL ADHERE TO THIS SCHEDULE TO ENSURE THAT NO CONSTRUCTION IS COMPLETED OUTSIDE OF THE DAILY CLOSURE TIMES.
9. THE CONTRACTOR SHALL NOTIFY THE AIRPORT 5 DAYS PRIOR TO ANY CLOSURES SO THAT THE AIRPORT MAY ISSUE THE APPROPRIATE NOTAMS. THE CONTRACTOR SHALL CONTINUOUSLY UPDATE AND COMMUNICATE HIS SCHEDULE WITH THE AIRPORT THROUGHOUT THE DURATION OF THE PROJECT.



NOTES

1. MARKERS SHALL BE SOLID YELLOW.
2. MARKERS SHALL BE PAINTED BURLAP, PLYWOOD OR OTHER APPROVED SOLID MATERIALS.
3. CONTRACTOR SHALL MAINTAIN MARKERS.
4. COST OF FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING MARKERS SHALL BE INCIDENTAL TO THE CONTRACT.
5. MARKERS SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS.
6. PORTABLE CLOSED RUNWAY MARKERS SHALL BE PROVIDED, INSTALLED, OPERATED AND MAINTAINED AS SPECIFIED.
7. THE PORTABLE CLOSED RUNWAY MARKERS SHALL BE INSTALLED ON RUNWAY 13/31.



CONTRACTOR ACCESS
 CONTRACTOR'S STAGING AND PARKING AREA
 ENGINEER'S FIELD OFFICE
 EXISTING AIRFIELD ELECTRICAL VAULT

SHEET 05 OF 14 SHEETS
 AIP PROJ. NO. 3-17-0032-B12
 ILL. PROJ. NO. DNV-3921
 JOB No: 0904203
 DATE: 01-22-2010
 APPROVED BY:
 CHECKED BY:
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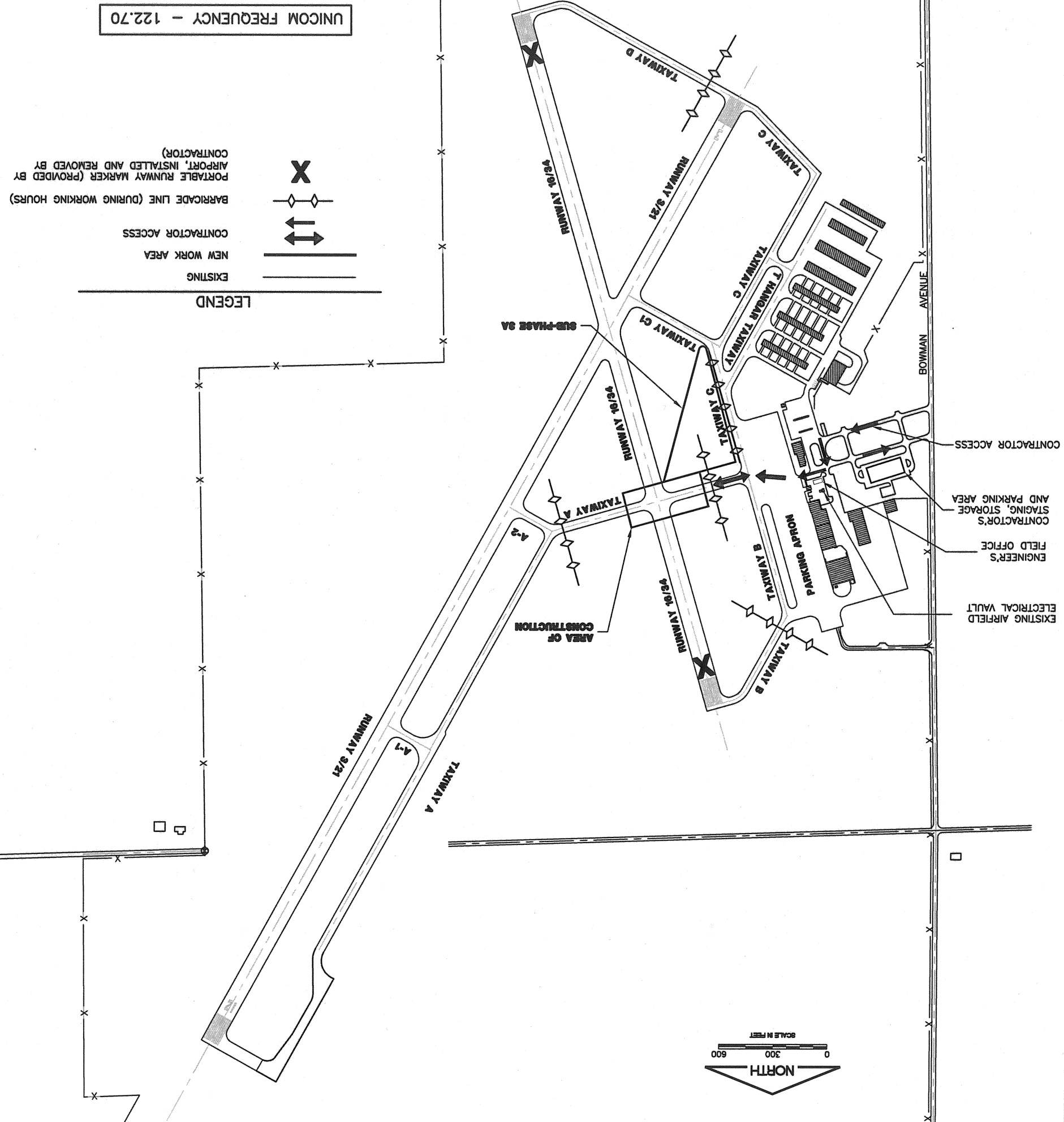
**VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS**
**REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
 CONSTRUCTION ACTIVITY PLAN
 PHASE 3**

FILE: XX CAP PHASE 3.dwg
 UPDATE BY: Dale Droughan
 PLOT DATE: 1/19/2010 9:19 AM
 DNV-EXISTBASE
 BASE_PROPGEO
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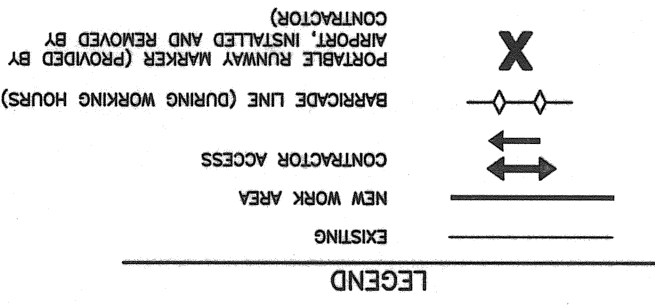
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AT FULL SCALE (34x22).
 THIS BAR IS EQUAL TO 2'

- PHASE 3 NOTES**
1. THE CONTRACTOR SHALL BE ALLOWED TO CLOSE TAXIWAY ALPHA FOR THE REPLACEMENT OF LIGHTING CABLE ALONG THE TAXIWAY.
 2. THE CONTRACTOR SHALL BE ALLOWED TO CLOSE RUNWAY 16/34 DURING WORKING HOURS FOR A MAXIMUM OF 5 DAYS FOR PHASE 3 CONSTRUCTION.
 3. THE CONTRACTOR SHALL NOT PARK VEHICLES OR MACHINERY ON THE RUNWAY AT ANY TIME.
 4. THE CONTRACTOR MUST PROVIDE A YELLOW RUNWAY CLOSURE MARKER AT EACH END OF THE RUNWAY IN ORDER TO CLOSE THAT RUNWAY.
 5. THE CONTRACTOR MUST CLEAR THE RUNWAY CLOSURE MARKERS EACH DAY AFTER WORKING HOURS.
 6. AT THE END OF EACH DAILY CLOSURE, THE WORK AREA SHALL BE CLEANED, EXCAVATIONS BACKFILLED AND PAVEMENTS RE-OPENED TO AIRCRAFT TRAFFIC.
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 8. THE CONTRACTOR SHALL NOTIFY THE AIRPORT 5 DAYS PRIOR TO ANY CLOSURES SO THAT THE AIRPORT MAY ISSUE THE APPROPRIATE NOTAM'S. THE CONTRACTOR SHALL CONTINUOUSLY UPDATE AND COMMUNICATE HIS SCHEDULE WITH THE AIRPORT THROUGHOUT THE DURATION OF THE PROJECT.
 9. CONSTRUCTION ACTIVITY MAY BE ACCOMPLISHED WITHIN THE TAXIWAY SAFETY AREA IN SUB-PHASE 3A PROVIDING THE FOLLOWING RESTRICTIONS:
 - A. THE ACTIVITY IS FIRST COORDINATED WITH THE AIRPORT OPERATOR.
 - B. BARRICADES, MARKING, AND LIGHTING ARE IMPLEMENTED ACCORDING TO THE DETAILS AND NOTES LISTED IN THE PLANS.
 - C. ADEQUATE CLEARANCE IS MAINTAINED BETWEEN EQUIPMENT AND MATERIALS AND ANY PART OF AN AIRCRAFT. WHEN SUCH CLEARANCE CAN ONLY BE MAINTAINED IF AN AIRCRAFT DOES NOT HAVE FULL USE OF THE ENTIRE TAXIWAY WIDTH, THEN IT WILL BE NECESSARY TO MOVE PERSONNEL AND EQUIPMENT FOR EACH PASSING AIRCRAFT. IN THESE SITUATIONS, FLAG PERSONS WILL BE USED TO DIRECT CONSTRUCTION EQUIPMENT.



UNICOM FREQUENCY - 122.70

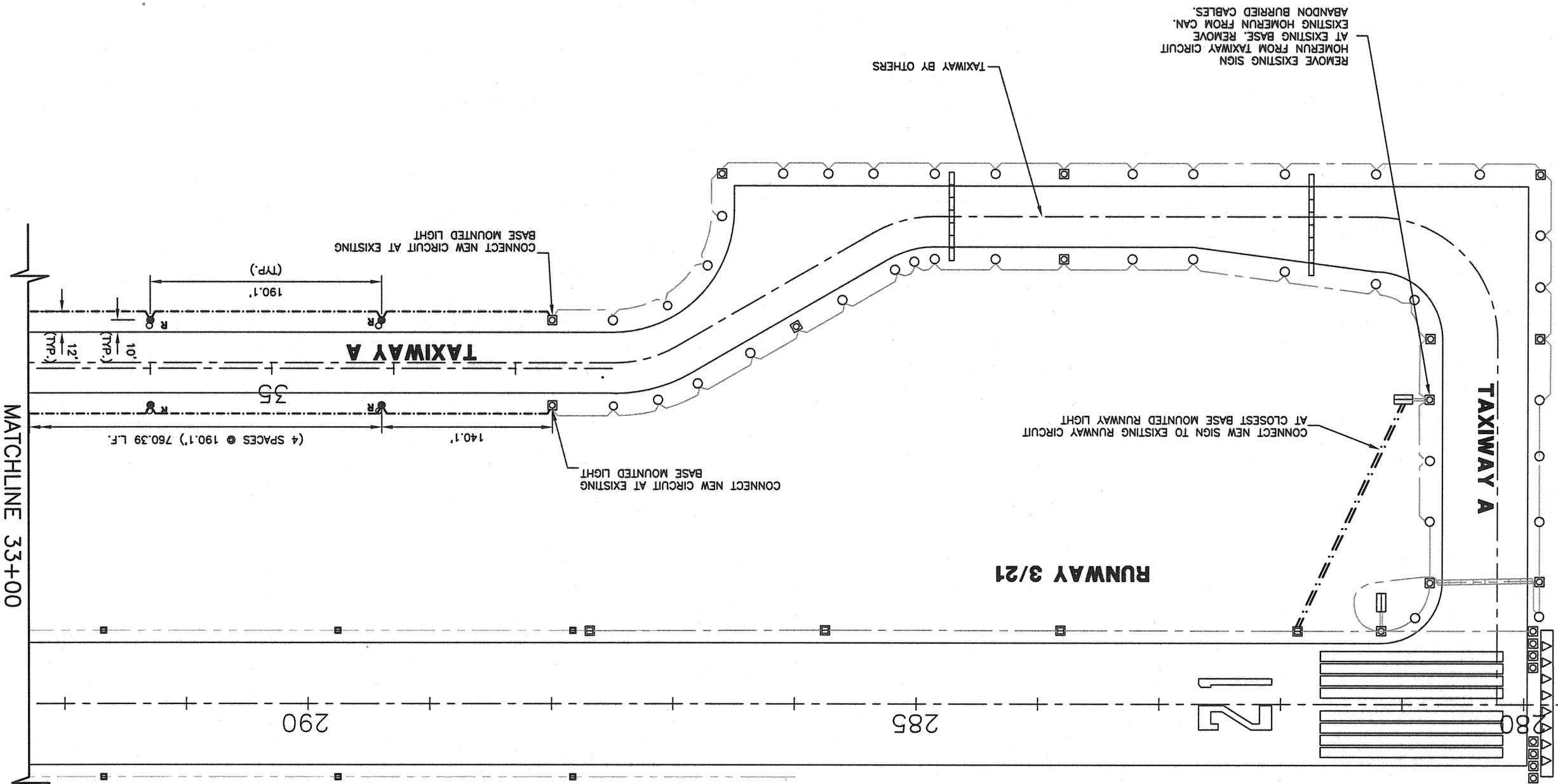


DESIGN BY: TJH
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 AIP PROJ. NO. 3-17-0032-B12
 SHEET 06 OF 14 SHEETS

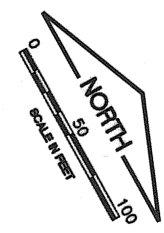


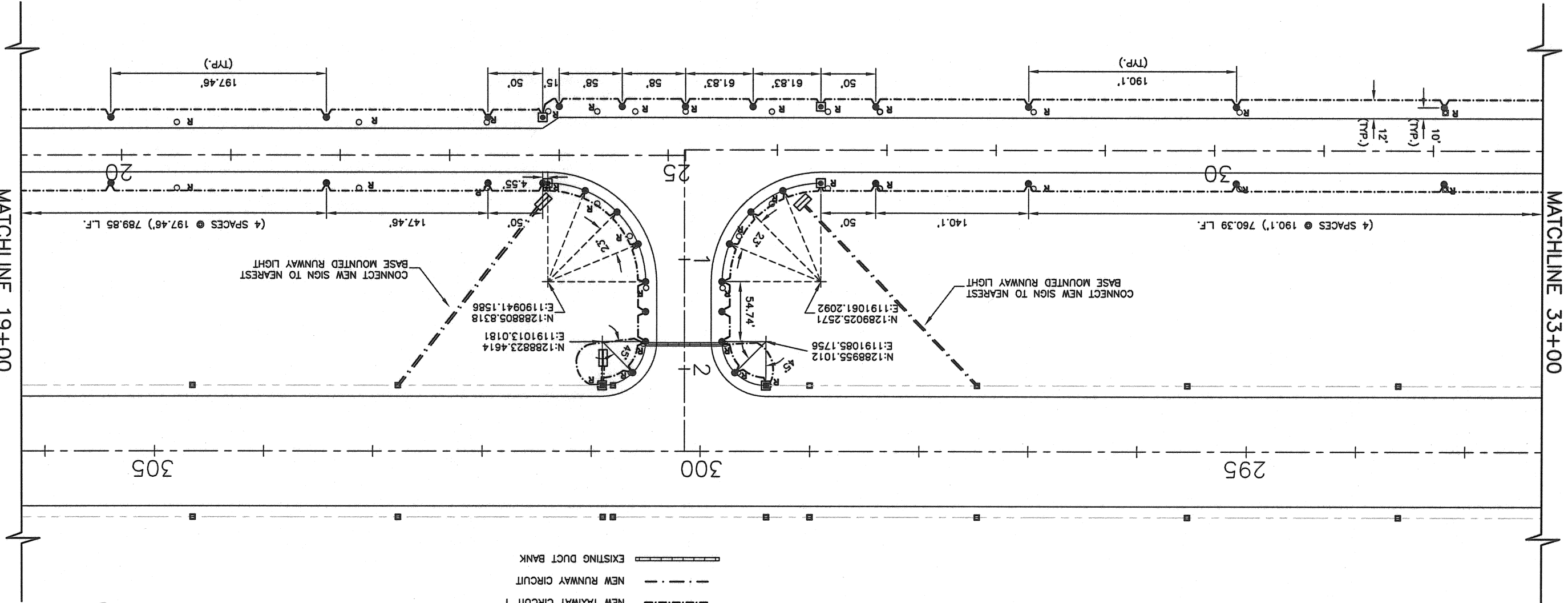
VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS
 REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
 ELECTRICAL LAYOUT PLAN 1

REVISIONS
 VE046
 FILE: XX ELECTRIC PLAN 1.dwg
 UPDATE BY: Dale Droughan
 PLOT DATE: 1/19/2010 9:19 AM
 DNV-EXISTBASE
 DNV-PROPGEO-1
 BASE_PROPELEC
 DNV-EXISTBASE-1
 DNV-EXISTBASE-1
 BASE_EXIST_ELEC-1
 DNVsurvey\topo_StatePlane
 AT FULL SCALE (34x22).
 THIS BAR IS EQUAL TO 2'

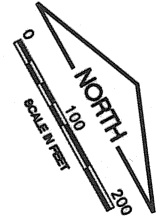


- LEGEND
- EXISTING BASE MOUNTED TAXIWAY LIGHT
 - EXISTING STAKE MOUNTED TAXIWAY LIGHT
 - NEW STAKE MOUNTED TAXIWAY LIGHT
 - NEW BASE MOUNTED TAXIWAY LIGHT
 - REMOVE AND REPLACE EXISTING STRUCTURE
 - EXISTING STRUCTURE TO BE REMOVED
 - NEW TAXIWAY CIRCUIT 1
 - NEW RUNWAY CIRCUIT
 - EXISTING DUCT BANK





- LEGEND**
- EXISTING BASE MOUNTED TAXIWAY LIGHT
 - EXISTING STAKE MOUNTED TAXIWAY LIGHT
 - NEW STAKE MOUNTED TAXIWAY LIGHT
 - NEW BASE MOUNTED TAXIWAY LIGHT
 - RR REMOVE AND REPLACE EXISTING STRUCTURE
 - R EXISTING STRUCTURE TO BE REMOVED
 - NEW TAXIWAY CIRCUIT 1
 - - - NEW RUNWAY CIRCUIT
 - ▬ EXISTING DUCT BANK



SHEET 07 OF 14 SHEETS
 AIP PROJ. NO. 3-17-0032-B12
 I.L. PROJ. NO. DNV-3921
 JOB No: 0904203
 DATE: 01-22-2010
 APPROVED BY:
 CHECKED BY:
 DRAWN BY: CMT
 DESIGN BY: TJH

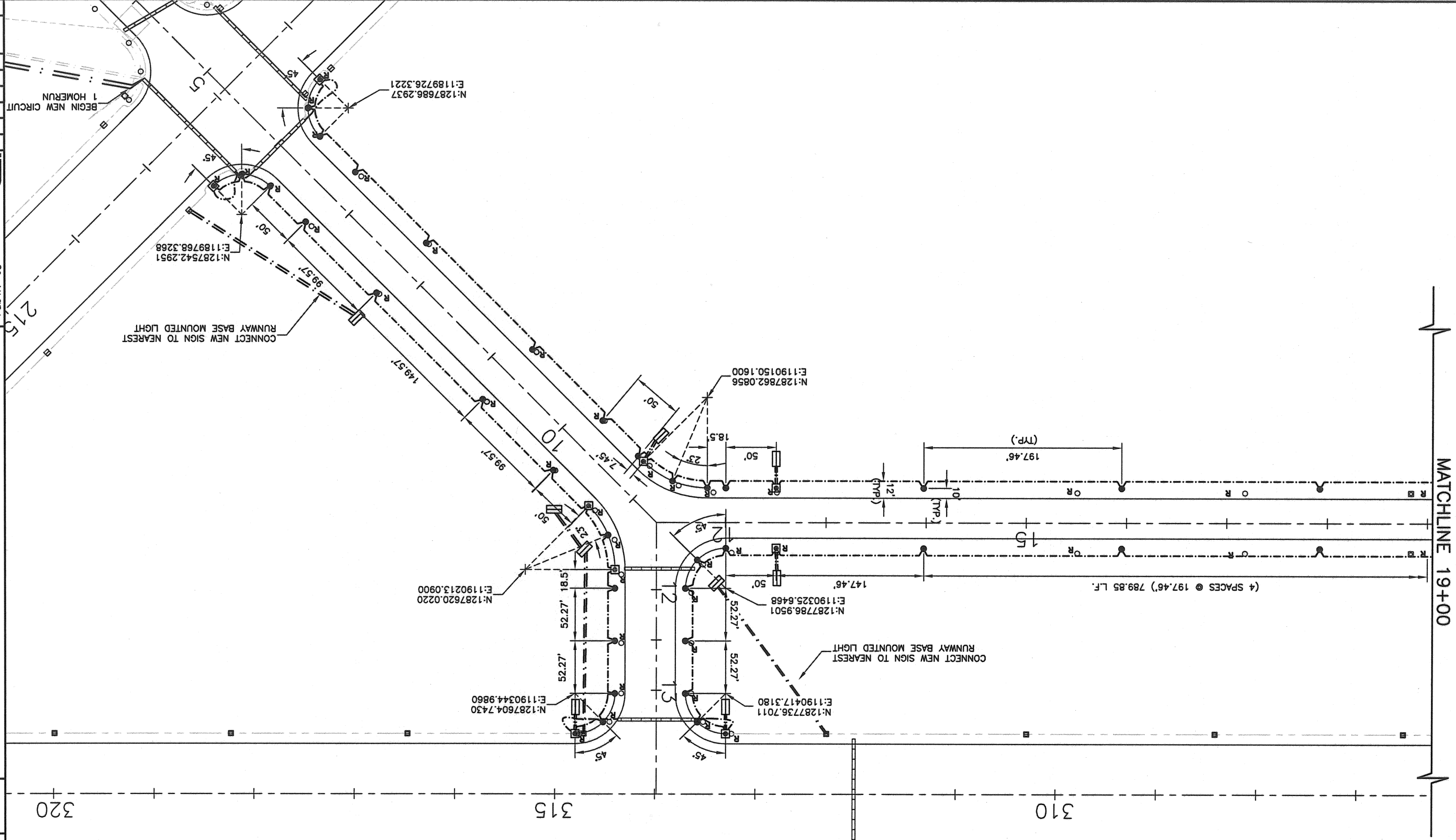


VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS
 REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
 ELECTRICAL LAYOUT PLAN 2

FILE: XX ELECTRIC PLAN 2.dwg
 UPDATE BY: Dale Droughan
 PLOT DATE: 1/19/2010 9:19 AM
 DNV-EXISTBASE
 BASE_EXIST_ELEC-1
 BASE_PROP_ELEC
 DNV-EXISTBASE-1
 DMSurveyTopo_StatePlane
 DNVBase_StatePlane

| NUMBER | BY | DATE |
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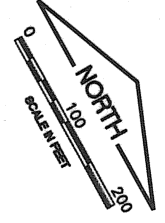
REVISIONS
 VE046
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).
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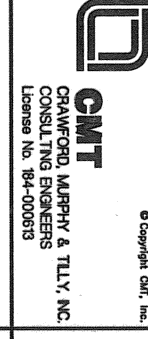
MATCHLINE 19+00

LEGEND

- ◻ EXISTING BASE MOUNTED TAXIWAY LIGHT
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- NEW STAKE MOUNTED TAXIWAY LIGHT
- ◻ NEW BASE MOUNTED TAXIWAY LIGHT
- RR REMOVE AND REPLACE EXISTING STRUCTURE
- R EXISTING STRUCTURE TO BE REMOVED
- NEW TAXIWAY CIRCUIT 1
- - - NEW RUNWAY CIRCUIT
- EXISTING DUCT BANK



SHEET 08 OF 14 SHEETS
 IL PROJ. NO. DNV-3921
 AP PROJ. NO. 3-17-0032-B12
 JOB No: 0904203
 DATE: 01-22-2010
 APPROVED BY:
 CHECKED BY:
 DRAWN BY: CMT
 DESIGN BY: TJH

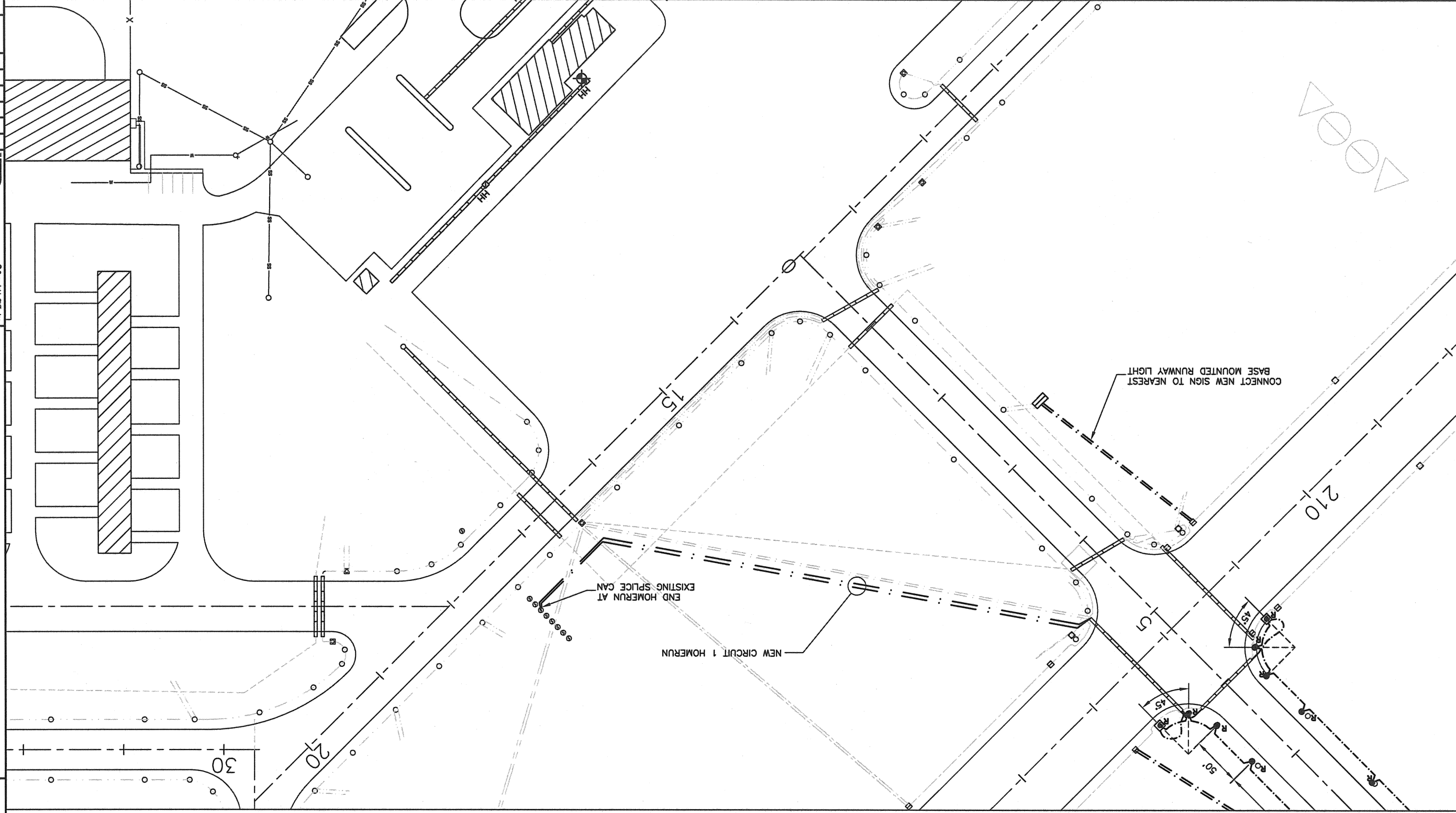


VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS
 REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
 ELECTRICAL LAYOUT PLAN 3

THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22).
 0 1 2

| REVISIONS | NUMBER | BY | DATE |
|-----------|--------|----|------|
| VE046 | | | |

FILE: \\D:\m\p\0904203\Draw\Sheets
 UPDATE BY: Dale Droughan
 PLOT DATE: 1/19/2010 9:19 AM
 DNV-EXISTBASE
 DNV-EXISTBASE-1
 BASE_PROPELEC
 DNVSurvey\topo_StatePlane



SHEET 09 OF 14 SHEETS
 AIP PROJ. NO. 3-17-0032-B12
 IL PROJ. NO. DNV-3921
 JOB No: 0904203
 DATE: 01-22-2010
 APPROVED BY:
 CHECKED BY:
 DRAWN BY: CMT
 DESIGN BY: TJH

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 094-000613

VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS
 REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
 ELECTRICAL LAYOUT PLAN 4

THIS BAR IS EQUAL TO 2'
 AT FULL SCALE (34X22)
 0 1 2

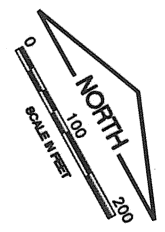
| NUMBER | BY | DATE |
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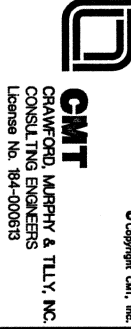
REVISIONS
VE046

FILE: XX ELECTRIC PLAN 4.dwg
 UPDATE BY: Dale Droughon
 PLOT DATE: 1/19/2010 9:19 AM
 DNV-EXISTBASE-1
 DNV-EXISTBASE-1
 BASE_PROPELEC

LEGEND

| | |
|---------------------------------------|-------------|
| EXISTING BASE MOUNTED TAXIWAY LIGHT | ◻ |
| EXISTING STAKE MOUNTED TAXIWAY LIGHT | ○ |
| NEW STAKE MOUNTED TAXIWAY LIGHT | ● |
| NEW BASE MOUNTED TAXIWAY LIGHT | ◻ |
| REMOVE AND REPLACE EXISTING STRUCTURE | RR |
| EXISTING STRUCTURE TO BE REMOVED | R |
| NEW TAXIWAY CIRCUIT 1 | --- |
| NEW RUNWAY CIRCUIT | - . - . - . |
| EXISTING DUCT BANK | ===== |
| EXISTING SPICE CAN | ⊙ |

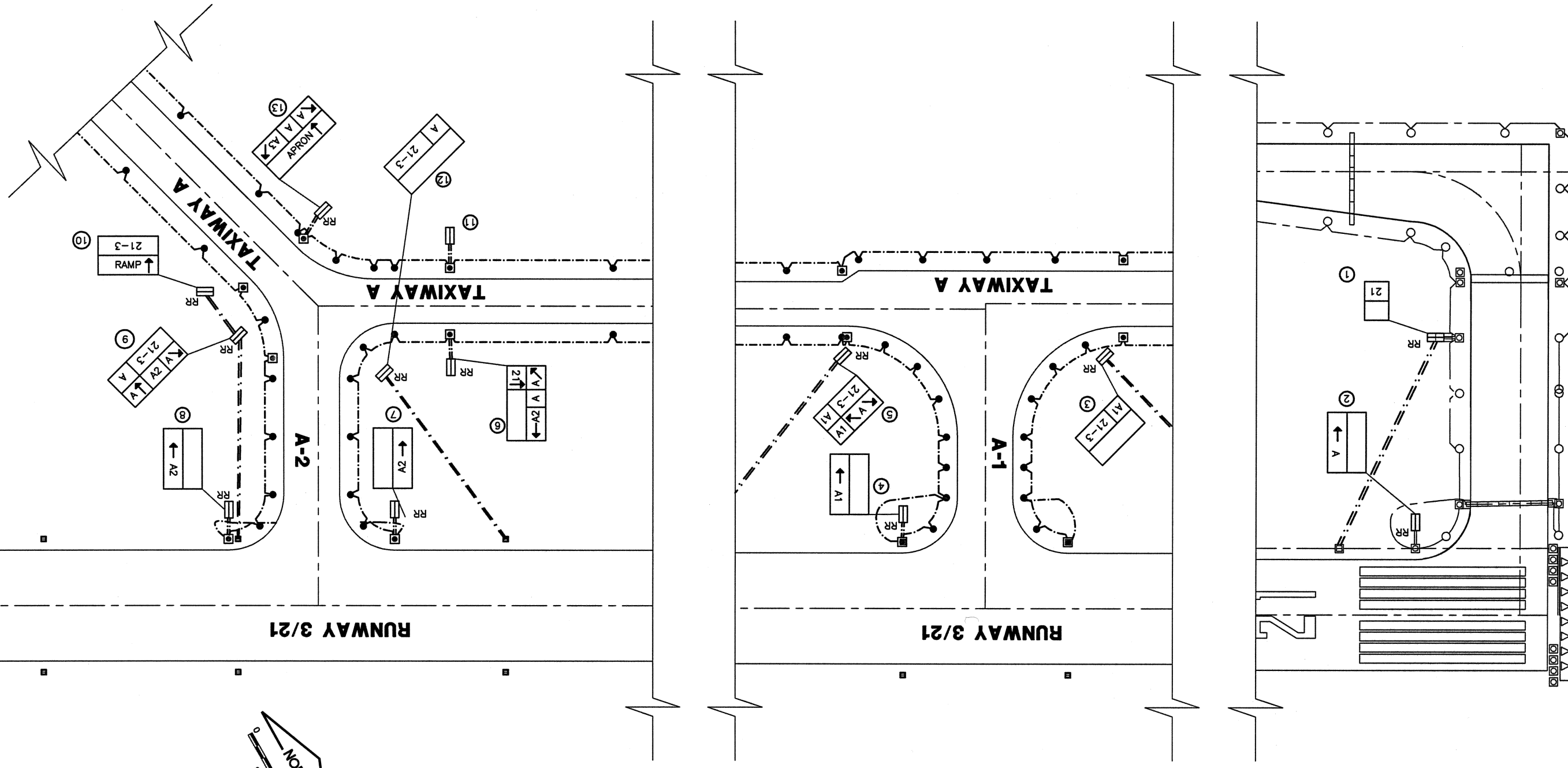




VERMILION REGIONAL AIRPORT
DANVILLE, ILLINOIS
REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
SIGN PLAN 1

| REVISIONS | NUMBER | BY | DATE |
|-----------|--------|----|------|
| VE046 | | | |

FILE: XX SIGN PLAN.dwg
 UPDATE BY: Dale Draughan
 PLOT DATE: 1/19/2010 9:19 AM
 BASE_PROPGEO
 DNV-EXISTBASE
 DNV-EXISTBASE-1
 BASE_EXISSTOPO-1
 BASE_EXISSTOPO-1
 BASE_EXISSTOPO-1
 BASE_PROPELEC



LEGEND

 □ RR EXISTING AIRFIELD SIGN
 □ ③ REMOVE AND REPLACE EXISTING AIRFIELD SIGN
 □ ③ SIGN NUMBER

- NOTES**
1. SIGNS TO BE REMOVED AND REPLACED SHALL BE INSTALLED IN THE SAME LOCATION AND ORIENTATION AS THE EXISTING SIGN.
 2. ALL SIGN FACES ARE TO MATCH THE LEGEND SHOWN ON THIS SHEET FOR EACH SIGN. THE CONTRACTOR SHALL VERIFY THE LEGENDS SHOWN ON THE PLANS VERSUS THE EXISTING SIGN PANELS PRIOR TO ORDERING THE NEW SIGNS.
 3. SIGN CONNECTIONS SHALL BE MADE AT THE NEAREST BASE MOUNTED TAXIWAY LIGHT.
 4. SEE ELECTRICAL DETAIL SHEET 3 FOR SIGN DIMENSIONS AND SPECIFICATIONS.

SHEET 11 OF 14 SHEETS
 AIP PROJ. NO. 3-17-0032-812
 IL PROJ. NO. DNV-3921
 JOB No: 0904203
 DATE: 01-22-2010
 APPROVED BY:
 CHECKED BY:
 DRAWN BY: CMT
 DESIGN BY: TJH

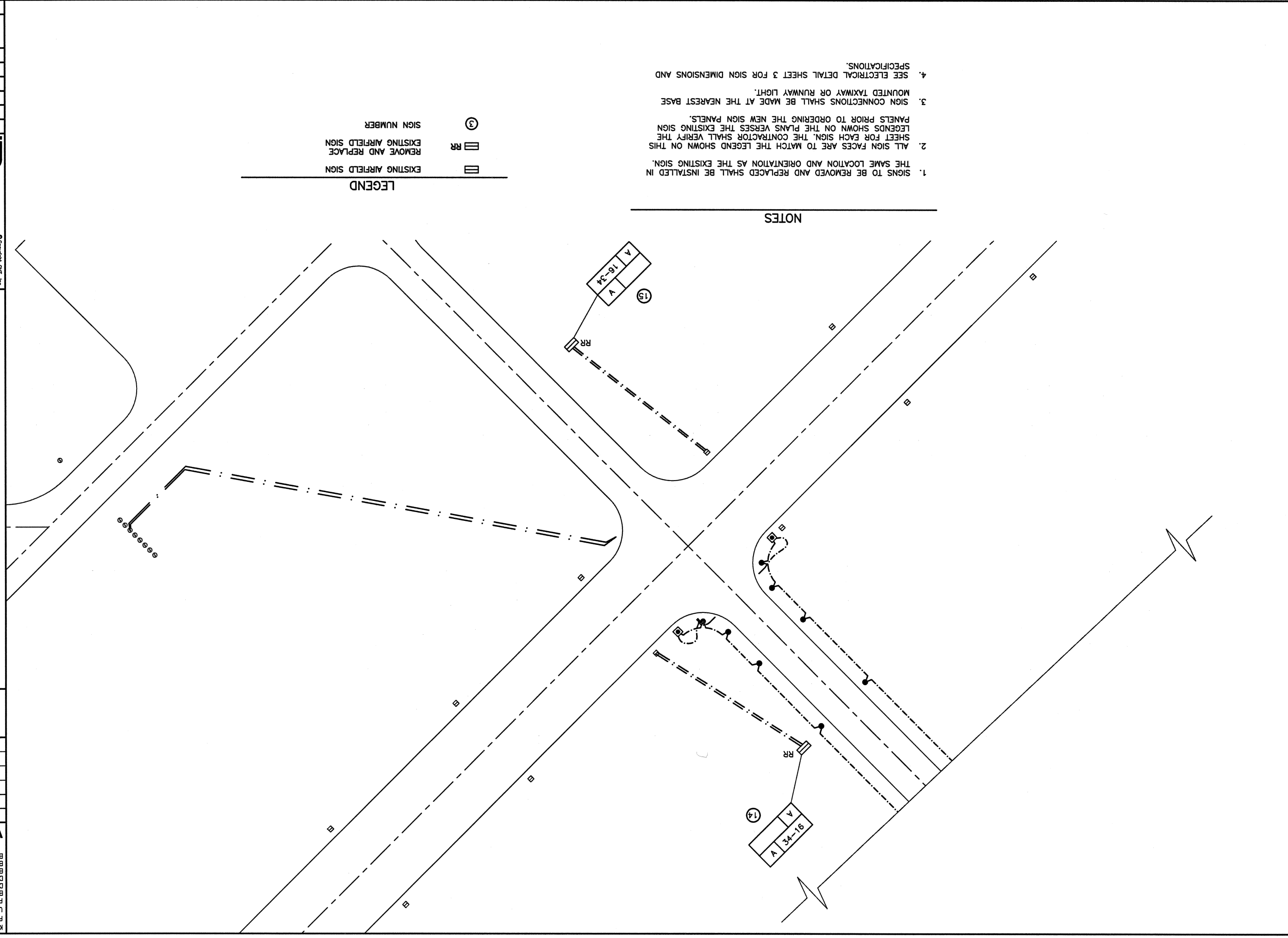


VERMILION REGIONAL AIRPORT
DANVILLE, ILLINOIS
REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
SIGN PLAN 2

THIS BAR IS EQUAL TO 2'
 AT FULL SCALE (34x22)

| NUMBER | BY | DATE |
|--------|----|------|
| | | |
| | | |
| | | |

VE046
 REVISIONS
 FILE: XX SIGN PLAN 2.dwg
 UPDATE BY: Dale Draughan
 PLOT DATE: 1/19/2010 9:19 AM
 BASE_PROPOSED
 DNV-EXISTBASE
 DNV-EXISTBASE-1
 BASE_EXISTPO-1
 BASE_EXIST_ELEC-1
 BASE_EXIST_ELEC
 BASE_PROPELEC

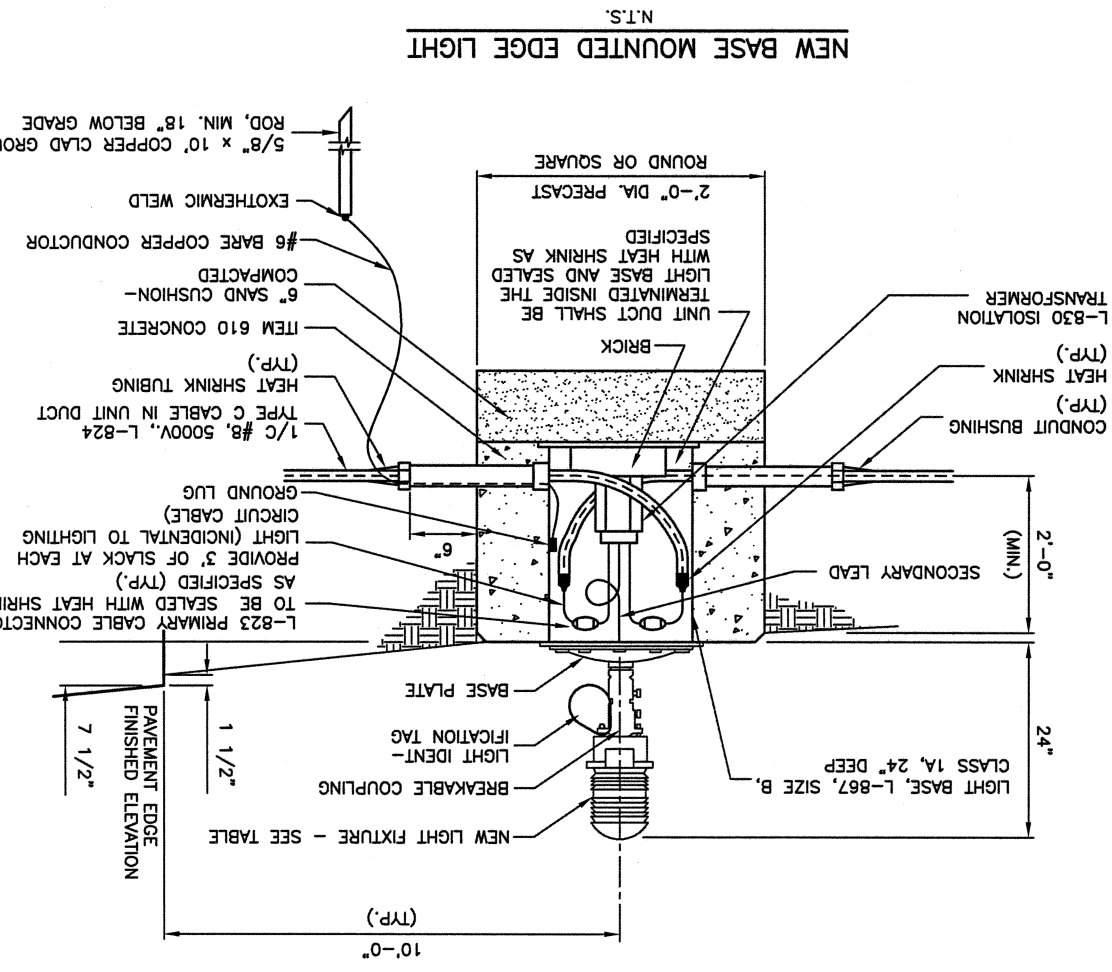


LEGEND

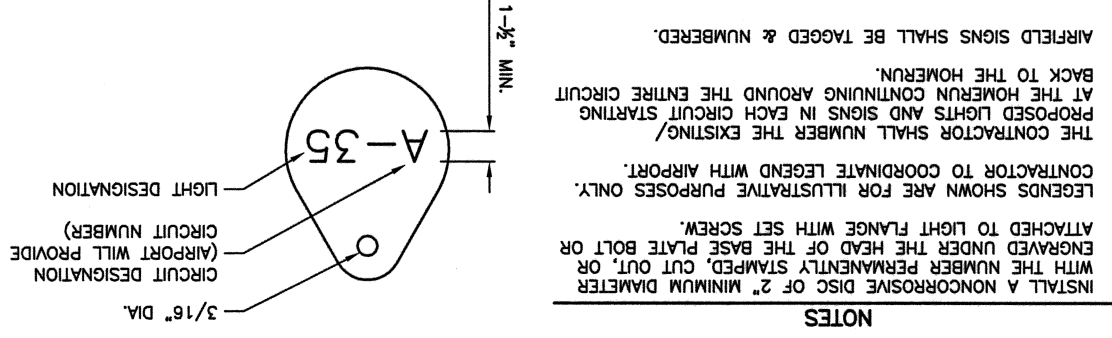
- NOTES**
1. SIGNS TO BE REMOVED AND REPLACED SHALL BE INSTALLED IN THE SAME LOCATION AND ORIENTATION AS THE EXISTING SIGN.
 2. ALL SIGN FACES ARE TO MATCH THE LEGEND SHOWN ON THIS SHEET FOR EACH SIGN. THE CONTRACTOR SHALL VERIFY THE LEGENDS SHOWN ON THE PLANS VERSUS THE EXISTING SIGN PANELS PRIOR TO ORDERING THE NEW SIGN PANELS.
 3. SIGN CONNECTIONS SHALL BE MADE AT THE NEAREST BASE MOUNTED TAXIWAY OR RUNWAY LIGHT.
 4. SEE ELECTRICAL DETAIL SHEET 3 FOR SIGN DIMENSIONS AND SPECIFICATIONS.



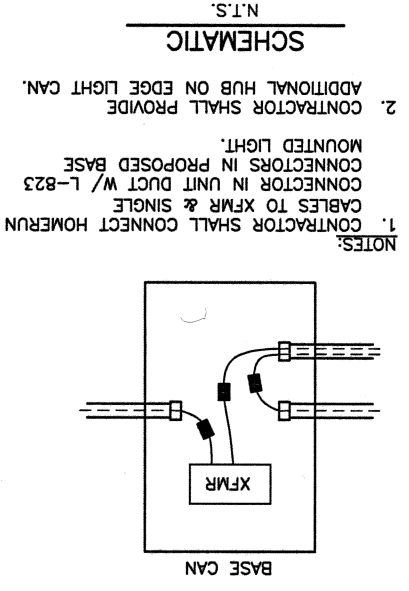
VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS
 REHABILITATE TAXWAY A EDGE LIGHTING SYSTEM
 ELECTRICAL DETAILS 1



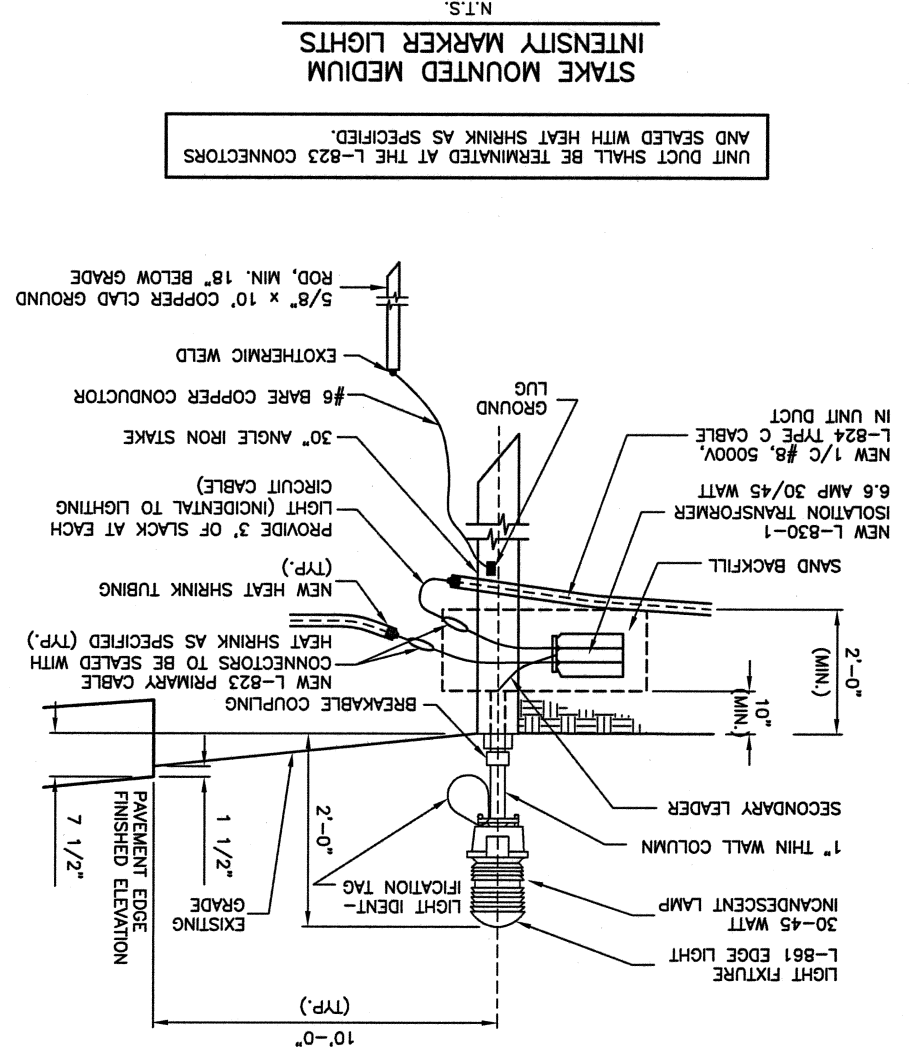
| FAA LIGHT FIXTURE TYPE | LAMP WATTAGE | LAMP DESCRIPTION | TRANSFORMER TYPE | TRANSFORMER PRI/SEC | HEIGHT |
|------------------------|--------------|------------------|------------------|---------------------|--------|
| L-861-T | 30-45 | INCAN. 6.6A | L-830 | 6.6A/6.6A | 24" |



NOTES
 INSTALL A NONCORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH SET SCREW.
 LEGENDS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO COORDINATE LEGEND WITH AIRPORT.
 THE CONTRACTOR SHALL NUMBER THE EXISTING/PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT STARTING AT THE HOMERUN CONTINUING AROUND THE ENTIRE CIRCUIT BACK TO THE HOMERUN.
 AIRFIELD SIGNS SHALL BE TAGGED & NUMBERED.



NOTES:
 1. CONTRACTOR SHALL CONNECT HOMERUN CABLES TO XFMR & SINGLE CONNECTOR IN UNIT DUCT W/ L-823 CONNECTOR IN PROPOSED BASE MOUNTED LIGHT.
 2. CONTRACTOR SHALL PROVIDE ADDITIONAL HUB ON EDGE LIGHT CAN.



UNIT DUCT SHALL BE TERMINATED AT THE L-823 CONNECTORS AND SEALED WITH HEAT SHRINK AS SPECIFIED.

STAKE MOUNTED MEDIUM INTENSITY MARKER LIGHTS
 N.T.S.

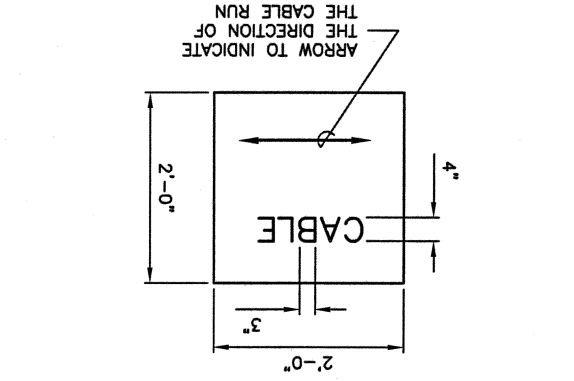
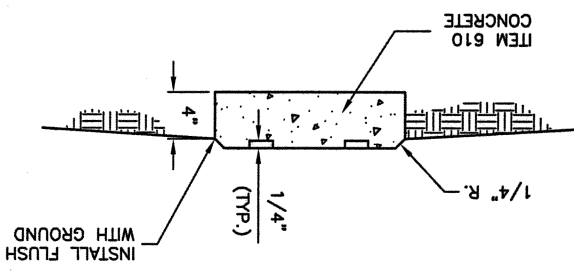
Copyright CMT, Inc.

- CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE HOMERUN.
- ITEM 610 CONCRETE SHALL BE USED.
- ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" RADIUS TOOL.
- THE COST OF FURNISHING AND INSTALLING NEW MARKERS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS.
- 0.049 CU. YD. CONCRETE PER MARKER.
- A MARKER CONFORMING TO THIS DETAIL MARKED "SPICE" SHALL BE INSTALLED AT ALL SPLICE LOCATIONS NOT IN LIGHT CANS OR MANHOLES.

NOTES

N.T.S.

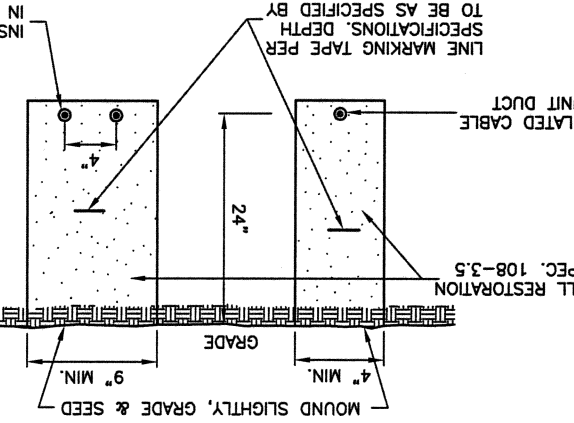
TURF CABLE / SPICE MARKER



- TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE, IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
- DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
- ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO ITEM 108.

TRENCH DETAIL

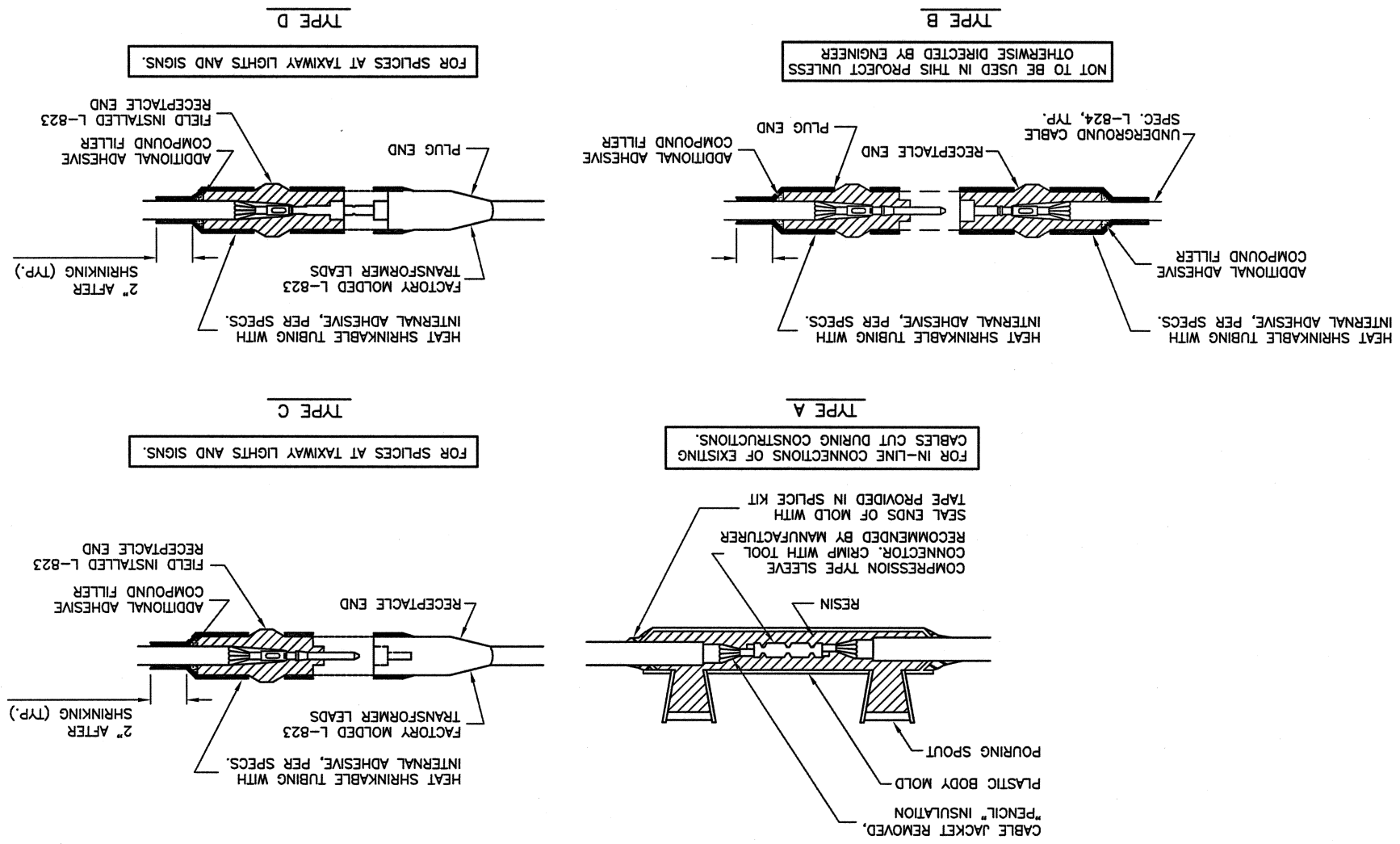
N.T.S.



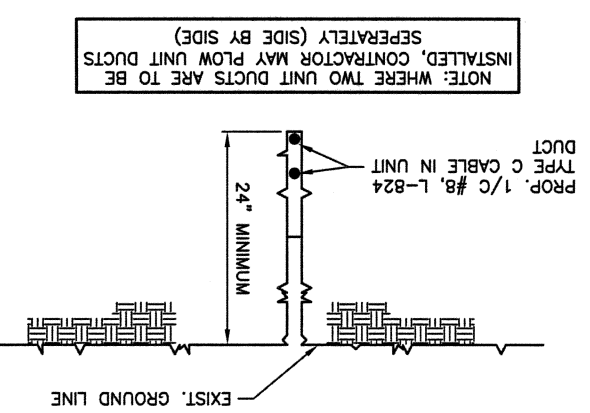
- NOTES**
- TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE, IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
 - DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 - SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
 - ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO ITEM 108.
- NOTE: AT CONTRACTOR'S OPTION, CABLE FLOWING MAY BE USED IN LIEU OF TRENCHING

- INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
- THE COST OF FURNISHING AND INSTALLING ALL SPLICE MATERIALS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS.
- THE CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) TYPE A SPLICE KITS ON THE JOB SITE AT ALL TIMES FOR EMERGENCY REPAIRS.

CABLE SPLICES
N.T.S.



CABLE IN UNIT-DUCT - PLOWED
N.T.S.



- NOTE: WHERE TWO UNIT DUCTS ARE TO BE INSTALLED, CONTRACTOR MAY FLOW UNIT DUCTS SEPARATELY (SIDE BY SIDE)
- PROP. 1/C #8, L-824
TYPE C CABLE IN UNIT DUCT
24" MINIMUM

DESIGN BY: TJH
DRAWN BY: CMT
CHECKED BY:
APPROVED BY:
DATE: 01-22-2010
JOB No: 0904203
IL PROJ. NO. DNV-3921
AIP PROJ. NO. 3-17-0032-B12
SHEET 13 OF 14 SHEETS

CMT
DRAWNFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 84-000613

**VERMILION REGIONAL AIRPORT
DANVILLE, ILLINOIS**
**REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
ELECTRICAL DETAILS 2**

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34x22).
0 1 2

| REVISIONS | NUMBER | BY | DATE |
|-----------|--------|----|------|
| VE046 | | | |

FILE: XX ELECDET1 2.dwg
UPDATE BY: Dale Droughnan
PLOT DATE: 1/19/2010 9:19 AM

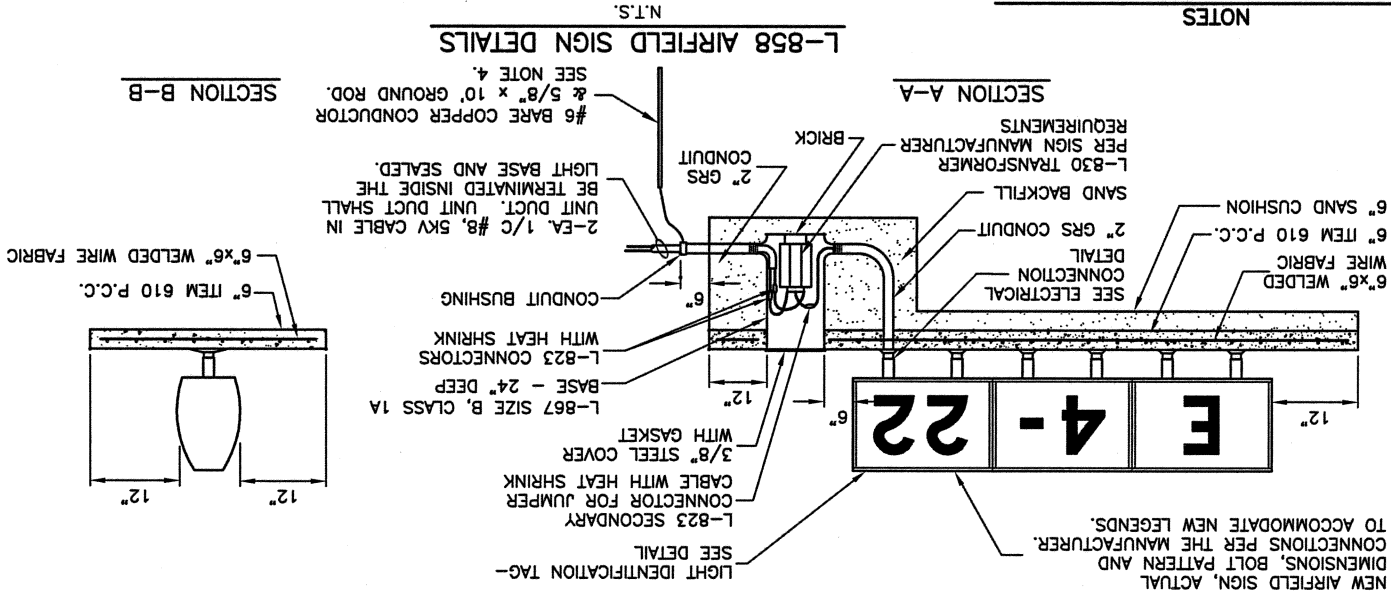
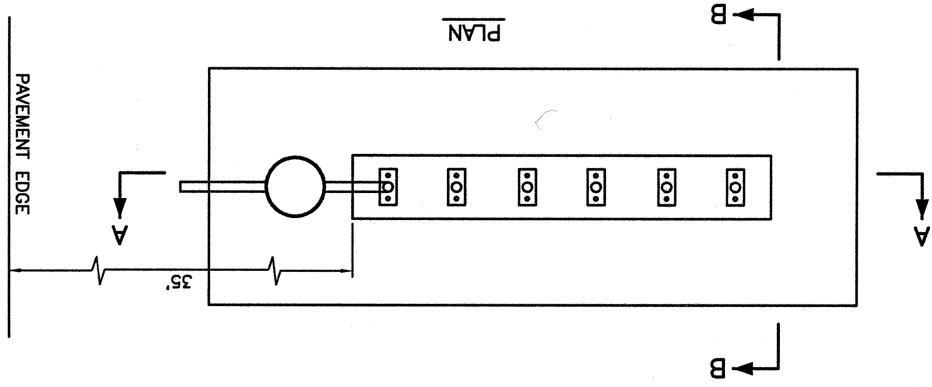
VE046

REVISIONS

| NUMBER | BY | DATE |
|--------|----|------|
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| | | |
| | | |
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THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34x22)

- AIRFIELD SIGNAGE NOTES**
1. SIGN SCHEDULE IS SUBJECT TO FAA APPROVAL OF THE SIGNAGE PLAN.
 2. CHANGES TO NEW LEGENDS MAY OCCUR SUBJECT TO 1 ABOVE.
 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH NEW LEGENDS FOR APPROVAL PRIOR TO STARTING MANUFACTURE.
 4. EXISTING SIGNS ARE LUMACURVE.



- NOTES**
1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
 2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
 3. SIGNS ON THE RUNWAY 3/21 SHALL BE SIZE 2, STYLE 3, CLASS 2. SIGNS ON ALL OTHER CIRCUITS SHALL BE SIZE 2, STYLE 2, CLASS 2.
 4. SEE "NEW BASE MOUNTED EDGE LIGHT" DETAIL FOR GROUNDING DETAILS.

L-858 AIRFIELD SIGN DETAILS
 N.T.S.

VERMILION REGIONAL AIRPORT
 DANVILLE, ILLINOIS
 REHABILITATE TAXIWAY A EDGE LIGHTING SYSTEM
 ELECTRICAL DETAILS 3