LETTING ITEM NO. 3A
LETTING DATE: 6/13/2014

TOTAL SHEETS: 30
CE032

SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
BASE BID			
AR108158	1/C #8 5KV UG CABLE IN UD	LF	12255
AR108258	2/C #8 5KV UG CABLE IN UD	LF	395
AR800321	2-1/C #2 USE, 1 #8 GND IN 1-1/4" UD	LF	3040
AR800322	2-1/C #4 USE, 1 #8 GND IN 1" UD	LF	1355
AR109100	CONSTRUCT ELECTRICAL VAULT	LS	1
AR109311	7.5 KW REGULATOR, STYLE 1	EA	1
AR109600	L-821 CONTROL PANEL	EA	1
AR109610	L-854 PCAL SYSTEM	LS	1
AR109963	RELOCATE REGULATOR	EA	2
AR109901	REMOVE ELECTRICAL VAULT	LS	1
AR110014	4" DIRECTIONAL BORE	LF	60
AR125444	TAXI GUIDANCE SIGN, 4 CHARACTER	EA	4
AR125447	TAXI GUIDANCE SIGN, 7 CHARACTER	EA	2
AR125545	MI THRESHOLD LIGHT BASE MTD	EA	16
AR125550	MIRL, STAKE MOUNTED	EA	33
AR125551	MIRL, BASE MOUNTED	EA	14
AR125565	SPLICE CAN	EA	2
AR125610	REILS	PAIR	2
AR125620	ABBREVIATED PAPI (L-881 SYSTEM)	EA	2
AR125901	REMOVE STAKE MOUNTED LIGHT	EA	42
AR125902	REMOVE BASE MOUNTED LIGHT	EA	22
AR125904	REMOVE TAXI GUIDANCE SIGN	EA	5
AR125907	REMOVE REILS	PAIR	2
AR125909	REMOVE VASI	EA	2
AR901510	SEEDING	ACRE	0.1
AR908510	MULCHING	ACRE	0.1
ADDITIVE ALTERNATE #1			
AS125511	MIRL LED UPGRADE	EA	47
AS125546	MI THRESHOLD LIGHT LED UPGRADE	EA	16

DESIGN INFORMATION

RUNWAY 18/36
AIRPLANE DESIGN GROUP II
AIRPLANE APPROACH CATEGORY B
RUNAY SAFETY AREA (RSA) WIDTH = 150'
RUNWAY OBJECT FREE ZONE (ROFZ) WIDTH = 400'
RUNWAY OBJECT FREE AREA (ROFA) WIDTH = 500'

RUNWAY 9/27
AIRPLANE DESIGN GROUP I
AIRPLANE APPROACH CATEGORY A
RUNAY SAFETY AREA (RSA) WIDTH = 120'
RUNWAY OBJECT FREE ZONE (ROFZ) WIDTH = 250'
RUNWAY OBJECT FREE AREA (ROFA) WIDTH = 400'

TAXIWAY A
AIRPLANE DESIGN GROUP II
TAXIWAY SAFETY AREA (TSA) WIDTH = 79'
TAXIWAY OBJECT FREE AREA (TOFA) WIDTH = 131'

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

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 THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE 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. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL 911 IN THE EVENT IN WHICH DAMAGE RESULTS IN THE RELEASE OF NATURAL GAS.

CALL J.U.L.I.E.
BEFORE EXCAVATING
1-800-892-0123

TOWNSHIP:	T. 1 N.
RANGE:	R. 1 E.
SECTION:	16 & 21
COUNTY:	MARION
CIVIL TOWNSHIP:	CENTRALIA

K:\Centralia\110720\Draw\Sheets
FILE: COVER SHEET.dwg
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 3:55 PM

CONSTRUCTION PLANS FOR

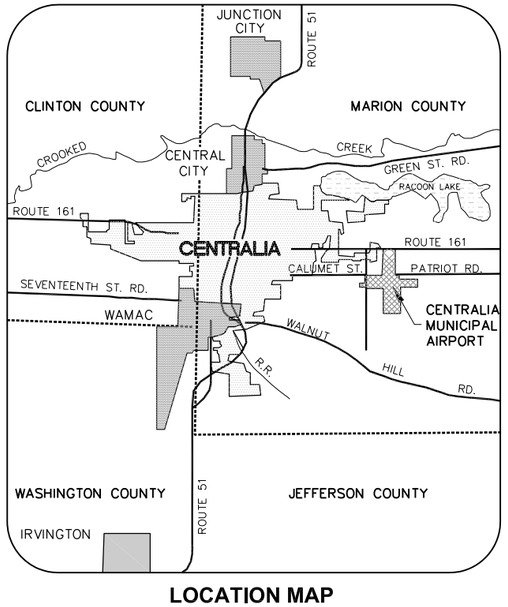
CENTRALIA MUNICIPAL AIRPORT

CITY OF CENTRALIA, ILLINOIS
CENTRALIA, ILLINOIS

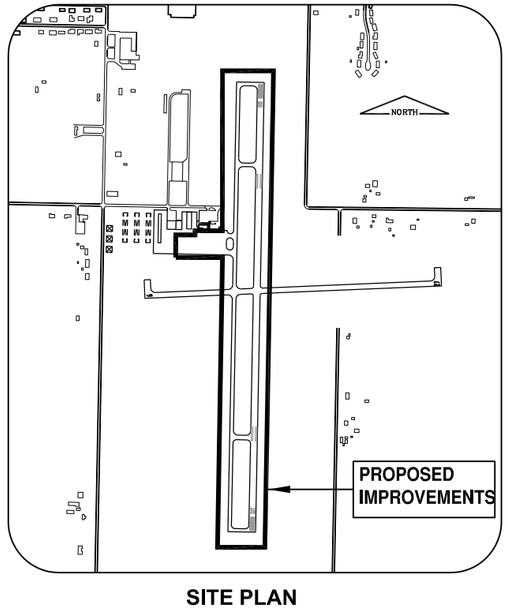
ILLINOIS PROJECT NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY18/36

MAY 2, 2014



LOCATION MAP



SITE PLAN

INDEX OF SHEETS

5/12/14
LICENSED PROFESSIONAL ENGINEER
KRISTY L. BROD
062-062491
STATE OF ILLINOIS
EXP. 11/30/15

2 MAY 2014
STATE OF ILLINOIS
THOMAS MEMMINGER
062-053744
SPRINGFIELD
LICENSED PROFESSIONAL ENGINEER
Expires: 30 NOV 2015

MAX EQUIPMENT HEIGHT IS 25'
CENTRALIA UNICOM FREQUENCY
IS 122.8 MHz

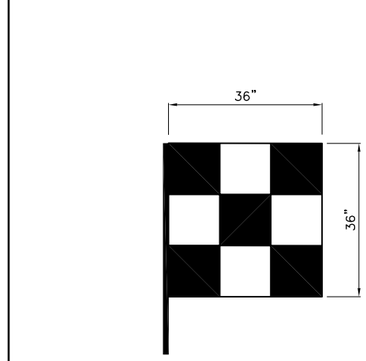
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

APPROVED: Don Barry
DATE April 11th 2014

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

SUBMITTED BY Kristy Brod
DATE MAY 2, 2014

CMT JOB NUMBER: 11072-02-00



VEHICLE SIGNAL FLAG
(ORANGE / WHITE)
N.T.S.

LEGEND

PROJECT AREA

BENCHMARK DATA

USGS BM P154 ELEV. 519.31
BRASS DISC BETWEEN
TAXIWAY AND FUEL FARM

CONTRACTOR'S RESPONSIBILITY FOR UTILITY SERVICE

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES 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 TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDER- GROUND 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 OWNER AND THE ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

GENERAL NOTES

1. ALL RUNWAYS, TAXIWAYS, AND APRON AREAS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC EXCEPT AS NOTED IN THE CONSTRUCTION PHASING PLAN OR AS DIRECTED BY THE AIRPORT MANAGER.
2. ALL CONSTRUCTION TRAFFIC OPERATING ON, OR CROSSING, ACTIVE AIRFIELD PAVEMENTS SHALL BE UNDER RADIO CONTROL AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE HIS OWN RADIOS.
3. 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 MANAGER.
4. IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UTILITIES, INCLUDING UNDERGROUND UTILITIES, AT CRITICAL POINTS SO AS TO AVOID ANY DAMAGE. ANY UTILITY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND 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.
5. THE CONTRACTOR SHALL PROVIDE LIGHTS AND FLAGGING ON ALL EQUIPMENT IN CONFORMANCE WITH FEDERAL AVIATION REGULATIONS, PART 77, OBJECTS MEETING NAVIGABLE AIRSPACE AND FAA ADVISORY CIRCULAR 5370-2 (LATEST EDITION).
6. WHEN ANY VEHICLE IS REQUIRED TO OPERATE WITHIN THE PERIMETER FENCE OR TO TRAVEL OVER ANY PORTION OF THE AIRCRAFT MOVEMENT AREA AND RUNWAY APPROACH AREA,THE VEHICLE SHALL BE PROPERLY IDENTIFIED TO OPERATE IN THE AREA:
   A. DURING DAYLIGHT HOURS, MARK VEHICLES WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG SHOULD BE NOT LESS THAN 3-FEET SQUARE CONSISTING OF A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE SQUARES OF NOT LESS THAN ONE FOOT ON EACH SIDE AND DISPLAYED IN FULL VIEW ABOVE THE VEHICLE.
   B. DURING NIGHTTIME OR LOW-VISIBILITY OPERATIONS, MARK VEHICLES WITH FLASHING YELLOW BEACONS.
   C. MARK AND IDENTIFY VEHICLES IN ACCORDANCE WITH AC 150/5210-5, PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AN AIRPORT.
   D. HAUL VEHICLES WILL NOT BE REQUIRED TO HAVE THE VEHICLE SIGNAL FLAG.
7. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN AREAS 65.5' FROM THE CENTERLINE OF ACTIVE TAXIWAY A OR 200' FROM THE CENTERLINE OF ACTIVE RUNWAY 9/27.
8. CONTRACTOR SHALL PROVIDE HIS OWN RADIOS CAPABLE OF MONITORING UNICOM FREQUENCY 122.80 WHEN REQUIRED.
9. ALL PAVEMENTS, DRIVES OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND AIRPORT MANAGER. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
10. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN ALL RUNWAY, TAXIWAY, APRON PAVEMENTS OR ACCESS DRIVES USED BY HIS VEHICLES AND EQUIPMENT.
11. 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 MANAGER.
12. CONTRACTOR'S ACCESS SHALL BE AS SHOWN IN THE PLANS.
13. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN. THE MAXIMUM HEIGHT OF EQUIPMENT, MATERIALS AND STOCKPILES SHALL BE 25'. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A MANNER AS NOT TO VIOLATE AIRPORT PART 77 SURFACES.
14. THE CONTRACTOR SHALL PROVIDE BARRICADES AT THE LOCATIONS SHOWN IN THE PLANS. BARRICADES SHALL BE AT A 15-FOOT SPACING, WITH ONE BARRICADE ON THE CENTERLINE. BARRICADES SHALL HAVE FLAGS AND LIGHTS. THE BARRICADES SHALL BE LIGHTED WITH A FLASHING RED LIGHT AND BE MARKED WITH A 20"x20" ORANGE FLAG.
15. BROKEN OR WASTE CONCRETE AND BITUMINOUS MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF AIRPORT PROPERTY, UNLESS DIRECTED BY THE AIRPORT MANAGER.
16. IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, MEN AND EQUIPMENT.
17. EMERGENCY FIRE/CRASH/RESCUE VEHICLES SHALL HAVE COMPLETE ACCESS TO THE ENTIRE AIRFIELD INCLUDING THE CLOSURE AREAS.
18. ALL WORK SHALL BE IN ACCORDANCE WITH FAA ADVISORY CIRCULAR AC 150/5370-2, LATEST EDITION OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

FILE: AIRPORT SITE PLAN.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 11:49 AM

BASE

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

AIRPORT SITE PLAN

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD,DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 02 OF 30 SHEETS

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CRITICAL POINT TABLE			
POINT	LATITUDE	LONGITUDE	ELEVATION
1	N38° 30' 28.12"	W89° 05' 29.00"	530'
2	N38° 30' 28.14"	W89° 05' 31.75"	531'
3	N38° 30' 37.81"	W89° 05' 31.61"	526'
4	N38° 30' 37.82"	W89° 05' 32.71"	526'
5	N38° 30' 38.85"	W89° 05' 32.69"	526'
6	N38° 30' 38.84"	W89° 05' 31.59"	526'
7	N38° 30' 53.86"	W89° 05' 31.37"	522'
8	N38° 30' 53.97"	W89° 05' 28.62"	522'
9	N38° 30' 56.84"	W89° 05' 28.58"	520'
10	N38° 30' 56.73"	W89° 05' 31.33"	520'
11	N38° 31' 01.83"	W89° 05' 31.26"	519'
12	N38° 31' 01.86"	W89° 05' 34.83"	518'
13	N38° 31' 03.62"	W89° 05' 34.81"	518'
14	N38° 31' 03.59"	W89° 05' 31.23"	519'
15	N38° 31' 19.01"	W89° 05' 31.01"	518'
16	N38° 31' 18.98"	W89° 05' 28.26"	518'
17	N38° 31' 10.88"	W89° 05' 28.38"	518'
18	N38° 31' 10.87"	W89° 05' 27.37"	518'
19	N38° 31' 09.99"	W89° 05' 27.38"	518'
20	N38° 31' 09.99"	W89° 05' 28.39"	518'

PATRIOT ROAD

WOODS ROAD

RUNWAY 9/27

RUNWAY 18/36

PHASE 1 WORK AREA

CONTRACTOR STAGING AND STORAGE

AIRPORT MANAGER'S OFFICE

AIRPORT ROAD

NORTH

SCALE IN FEET 0 200 400

LEGEND

- BARRICADES IDOT TYPE 1 WITH RED LIGHTS AND 20"x 20" ORANGE FLAGS AT 15' SPACING
- ROFZ — RUNWAY OBJECT FREE ZONE
- TOFA — TAXIWAY OBJECT FREE AREA
- SITEWORK AREAS
- CONTRACTOR ACCESS
- RUNWAY CLOSURE MARKER

NOTES:
1. CONTRACTOR SHALL PLACE ALL BARRICADES AND CLOSED RUNWAY MARKERS AS SHOWN PRIOR TO STARTING WORK EACH CONSTRUCTION PHASE.
2. ALL WORK AREAS SHALL BE SWEPT AND CLEANED PRIOR TO ENDING WORK EACH DAY.

FILE: CONACT01.dwg
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 3:48 PM

1107202-V-VF2D
BASE_PROP_ELEC
Baselines
BASE
VAULT PLAN

CE032

REVISIONS		
NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

CONSTRUCTION ACTIVITY PLAN 1

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 03 OF 30 SHEETS

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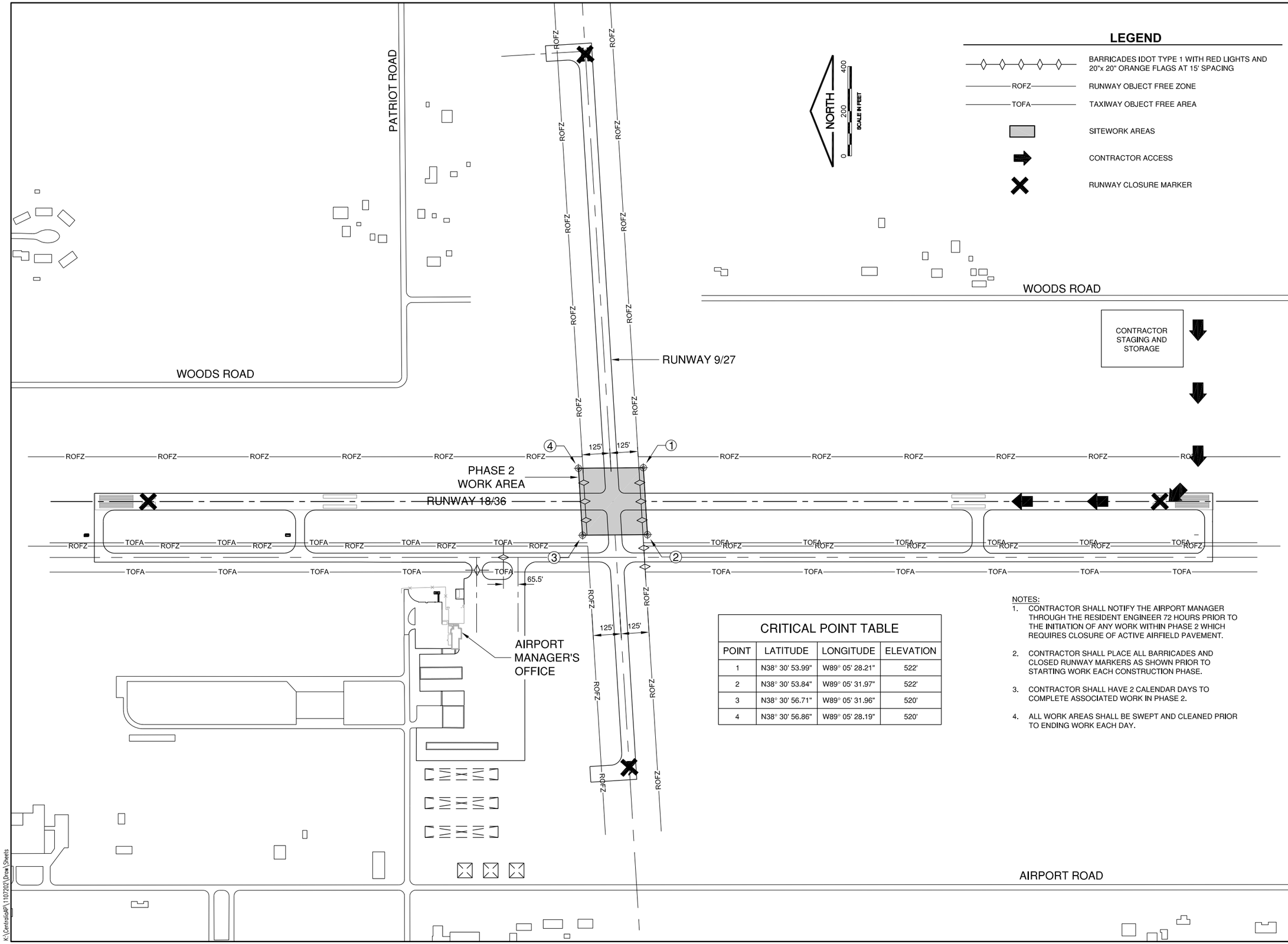


LEGEND

- BARRICADES IDOT TYPE 1 WITH RED LIGHTS AND 20"x 20" ORANGE FLAGS AT 15' SPACING
- ROFZ — RUNWAY OBJECT FREE ZONE
- TOFA — TAXIWAY OBJECT FREE AREA
- SITEWORK AREAS
- CONTRACTOR ACCESS
- RUNWAY CLOSURE MARKER

CRITICAL POINT TABLE			
POINT	LATITUDE	LONGITUDE	ELEVATION
1	N38° 30' 53.99"	W89° 05' 28.21"	522'
2	N38° 30' 53.84"	W89° 05' 31.97"	522'
3	N38° 30' 56.71"	W89° 05' 31.96"	520'
4	N38° 30' 56.86"	W89° 05' 28.19"	520'

NOTES:

1. CONTRACTOR SHALL NOTIFY THE AIRPORT MANAGER THROUGH THE RESIDENT ENGINEER 72 HOURS PRIOR TO THE INITIATION OF ANY WORK WITHIN PHASE 2 WHICH REQUIRES CLOSURE OF ACTIVE AIRFIELD PAVEMENT.
2. CONTRACTOR SHALL PLACE ALL BARRICADES AND CLOSED RUNWAY MARKERS AS SHOWN PRIOR TO STARTING WORK EACH CONSTRUCTION PHASE.
3. CONTRACTOR SHALL HAVE 2 CALENDAR DAYS TO COMPLETE ASSOCIATED WORK IN PHASE 2.
4. ALL WORK AREAS SHALL BE SWEPT AND CLEANED PRIOR TO ENDING WORK EACH DAY.

FILE: CONACT02.dwg
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 4:30 PM

1107202-V-VF2D
BASE_PROP_ELEC
Baselines
BASE
VAULT PLAN

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

CONSTRUCTION ACTIVITY PLAN 2

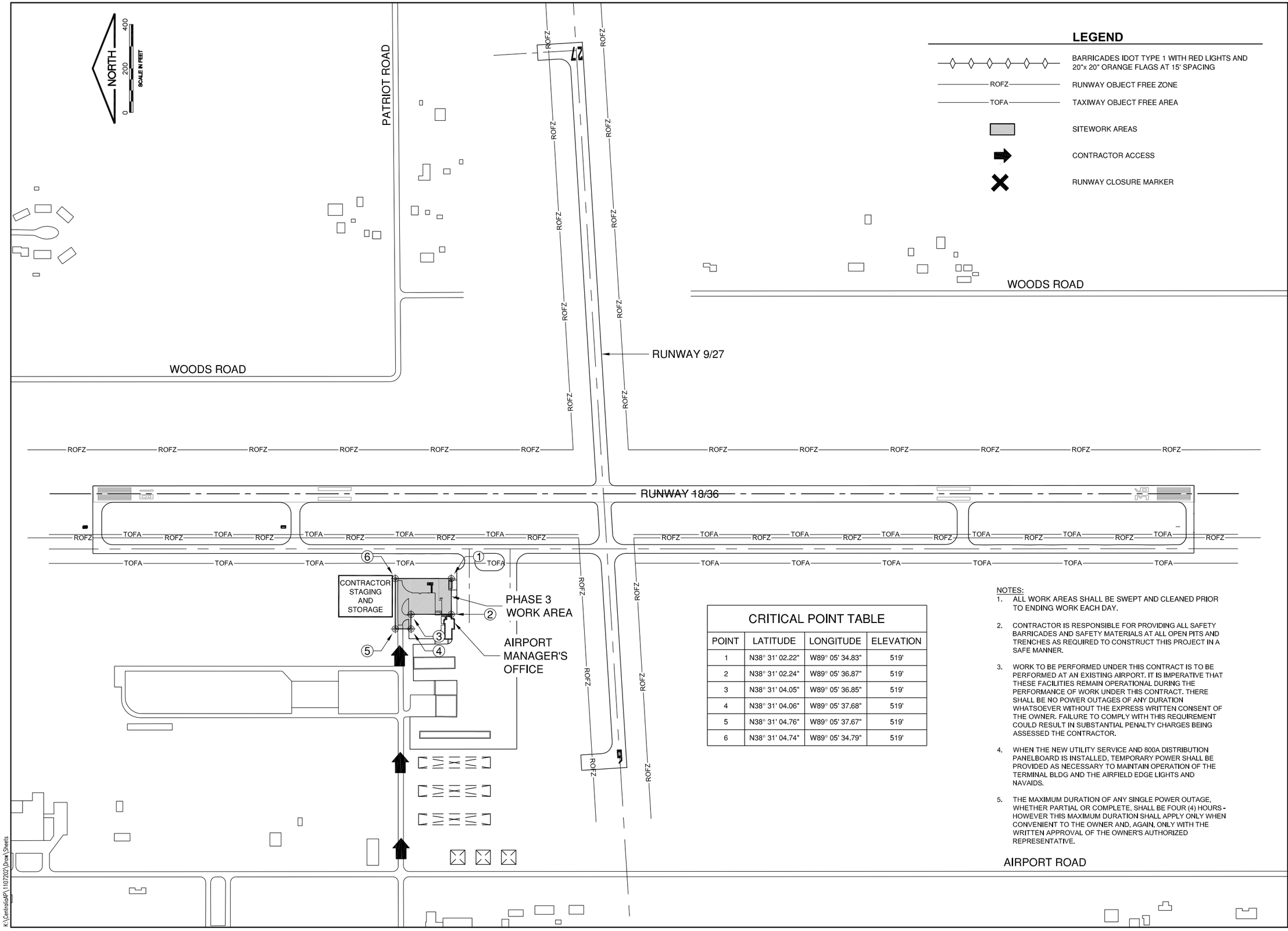
CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 04 OF 30 SHEETS

K:\Centralia\AP\1107202\Draw\Sheets



LEGEND

- BARRICADES IDOT TYPE 1 WITH RED LIGHTS AND 20"x 20" ORANGE FLAGS AT 15' SPACING
- ROFZ — RUNWAY OBJECT FREE ZONE
- TOFA — TAXIWAY OBJECT FREE AREA
- SITEWORK AREAS
- CONTRACTOR ACCESS
- RUNWAY CLOSURE MARKER

CRITICAL POINT TABLE

POINT	LATITUDE	LONGITUDE	ELEVATION
1	N38° 31' 02.22"	W89° 05' 34.83"	519'
2	N38° 31' 02.24"	W89° 05' 36.87"	519'
3	N38° 31' 04.05"	W89° 05' 36.85"	519'
4	N38° 31' 04.06"	W89° 05' 37.68"	519'
5	N38° 31' 04.76"	W89° 05' 37.67"	519'
6	N38° 31' 04.74"	W89° 05' 34.79"	519'

NOTES:

1. ALL WORK AREAS SHALL BE SWEPT AND CLEANED PRIOR TO ENDING WORK EACH DAY.
2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SAFETY BARRICADES AND SAFETY MATERIALS AT ALL OPEN PITS AND TRENCHES AS REQUIRED TO CONSTRUCT THIS PROJECT IN A SAFE MANNER.
3. WORK TO BE PERFORMED UNDER THIS CONTRACT IS TO BE PERFORMED AT AN EXISTING AIRPORT. IT IS IMPERATIVE THAT THESE FACILITIES REMAIN OPERATIONAL DURING THE PERFORMANCE OF WORK UNDER THIS CONTRACT. THERE SHALL BE NO POWER OUTAGES OF ANY DURATION WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF THE OWNER. FAILURE TO COMPLY WITH THIS REQUIREMENT COULD RESULT IN SUBSTANTIAL PENALTY CHARGES BEING ASSESSED THE CONTRACTOR.
4. WHEN THE NEW UTILITY SERVICE AND 800A DISTRIBUTION PANELBOARD IS INSTALLED, TEMPORARY POWER SHALL BE PROVIDED AS NECESSARY TO MAINTAIN OPERATION OF THE TERMINAL BLDG AND THE AIRFIELD EDGE LIGHTS AND NAVAIDS.
5. THE MAXIMUM DURATION OF ANY SINGLE POWER OUTAGE, WHETHER PARTIAL OR COMPLETE, SHALL BE FOUR (4) HOURS - HOWEVER THIS MAXIMUM DURATION SHALL APPLY ONLY WHEN CONVENIENT TO THE OWNER AND, AGAIN, ONLY WITH THE WRITTEN APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.

FILE: CONACT03.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 1:11 PM

1107202-V-VF2D
BASE_PROP_ELEC
Baselines
BASE
VAULT PLAN

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

CONSTRUCTION ACTIVITY PLAN 3

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 05 OF 30 SHEETS

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1. GENERAL

1. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW THE REQUIREMENTS OF THE AIRPORT'S APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), FAA AC 150/5370-2 (LATEST EDITION) AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS.
2. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE AIRPORT FOR APPROVAL A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA AC 150/5370-2F. NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL THE AIRPORT HAS APPROVED THE SPCD.
3. THE CSPP COVERS OPERATIONAL SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INDIVIDUAL SAFETY OF HIS/HER PERSONNEL.
4. A MINIMUM OF 10 DAYS PRIOR TO THE NOTICE TO PROCEED, THE CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS.
5. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SIGN THE SWPPP CERTIFICATION STATEMENT.
6. ALL CONTRACTOR COSTS ASSOCIATED WITH THE REQUIREMENTS LISTED ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A SPECIFIC PAY ITEM IS PROVIDED.

2. COORDINATION

1. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE WITH THE AIRPORT, RESIDENT ENGINEER, AND ILLINOIS DIVISION OF AERONAUTICS (IDA). THE COST OF PREPARING FOR AND ATTENDING THE PRECONSTRUCTION CONFERENCE SHALL BE INCIDENTAL TO THE CONTRACT.
2. ON OR BEFORE THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE PROJECT. THE SCHEDULE SHALL INCLUDE A START AND COMPLETION DATE FOR EACH ITEM OF WORK. THE SCHEDULE SHALL BE UPDATED ON A WEEKLY BASIS. ALL COSTS ASSOCIATED WITH THE SCHEDULE SHALL BE INCIDENTAL TO THE CONTRACT.
3. DURING CONSTRUCTION THE CONTRACTOR SHALL ATTEND A WEEKLY COORDINATION MEETING WITH THE AIRPORT STAFF AND RESIDENT ENGINEER. ALL COSTS ASSOCIATED WITH ATTENDING THE WEEKLY MEETING SHALL BE INCIDENTAL TO THE CONTRACT.

3. PHASING

1. TOTAL CONTRACT TIME SHALL BE 70 CALENDAR DAYS.
2. NO ADDITIONAL CONTRACT TIME SHALL BE AWARDED FOR ADDITIVE ALTERNATE #1.
3. PHASING SHALL BE AS NOTED BELOW AND AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN (CAP) SHEETS.

4. AREAS AND OPERATIONS AFFECTED BY CONSTRUCTION ACTIVITY

1. ALL RUNWAYS, TAXIWAYS AND APRONS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED ON THE PHASING 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. ALL CONSTRUCTION TRAFFIC SHALL IMMEDIATELY YIELD TO ONCOMING AIRCRAFT AT ALL TIMES.

5. CONTRACTOR ACCESS

1. CONTRACTOR ACCESS SHALL BE AS NOTED BELOW AND AS SHOWN ON THE SITE PLAN AND CONSTRUCTION ACTIVITY PLAN SHEETS.
2. THE CONTRACTOR IS TO ACCESS THE SITE USING THE GATES SHOWN.
3. CONTRACTOR EMPLOYEES MAY BE REQUIRED TO OBTAIN AN AIRPORT IDENTIFICATION BADGE. THIS CONSISTS OF FILLING OUT ALL NECESSARY PAPERWORK, FINGERPRINTING, ATTENDING AND PASSING A TRAINING CLASS CONCERNING SAFETY AND SECURITY AT THE AIRPORT. CONTRACTOR EMPLOYEES MUST MEET CERTAIN BACKGROUND CHECK CRITERIA AND THE CONTRACTOR MUST MAKE CERTAIN CERTIFICATION ABOUT EACH EMPLOYEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINGERPRINTING COSTS. ALL COSTS ASSOCIATED WITH OBTAINING THE IDENTIFICATION BADGE SHALL BE BORNE BY THE CONTRACTOR.
4. DRIVERS OF TRUCKS CONTAINING MATERIAL DELIVERIES (AGGREGATE, ASPHALT, ETC.) NEED NOT OBTAIN AN AIRPORT ID BADGE BUT SHALL BE REQUIRED TO SUBMIT THEIR NAME, DRIVER'S LICENSE NUMBER, TRUCK LICENSE PLATE NUMBER AND NAME OF TRUCKING COMPANY TO THE PRIME CONTRACTOR PRIOR TO ENTERING THE JOBSITE.
5. CONTRACTOR WORK CREWS MUST MONITOR THE GROUND CONTROL FREQUENCY AT AT ALL TIMES. THE CONTRACTOR SHALL SUPPLY ALL APPROPRIATE RADIOS NEEDED FOR COMMUNICATIONS. BE AWARE OF TENANT AIRCRAFT MOVEMENT NEAR THE WORK AREAS.
6. THE CONTRACTORS STORAGE AND STAGING AREA WILL BE AS SHOWN IN THE SITE PLAN.
7. THE CONTRACTOR SHALL KEEP A RECORD OF THE NAMES OF ALL EMPLOYEES ENTERING THE JOB SITE ON A DAILY BASIS. A RECORD OF EACH SUBCONTRACTOR ENTERING THE JOB SITE SHALL ALSO BE KEPT BY THE CONTRACTOR.
8. WHEN THE CONTRACTOR IS NOT WORKING, EQUIPMENT SHALL BE STORED AT THE STAGING AREA.
9. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS ONLY AT THE LOCATIONS SHOWN. PARKED EQUIPMENT AND MATERIAL STOCKPILES SHALL NOT PENETRATE SURFACES DEFINED BY F.A.R. TITLE 14 PART 77 - OBJECTS AFFECTING NAVIGABLE AIRSPACE.
10. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CONSTRUCTION AREAS AND HAUL ROUTES WHICH WILL BE OPENED TO AIR TRAFFIC TO THE SATISFACTION OF AIRPORT OPERATIONS OR THE RESIDENT ENGINEER. A POWER BROOM AND OPERATOR SHALL BE ON SITE AT ALL TIMES WHEN ACTIVE PAVEMENTS ARE UTILIZED FOR CONSTRUCTION TRAFFIC.
11. ALL PAVEMENTS, DRIVES OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED TO THE SAME CONDITION OR BETTER THAN THEY WERE PRIOR TO BEGINNING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR THIS WORK.
12. ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR.

6. WILDLIFE MANAGEMENT

1. THE CONTRACTOR SHALL NOTIFY AIRPORT OPERATIONS OR THE RESIDENT ENGINEER IF ANY WILDLIFE IS SEEN ENTERING THE AIRPORT.
2. CONTRACTOR ACCESS GATES SHALL REMAIN CLOSED WHEN THE CONTRACTOR IS NOT WORKING.
3. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH INCLUDING FOOD SCRAPS IN APPROVED CONTRACTOR PROVIDED CONTAINERS.

7. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

1. THE CONTRACTOR SHALL PICK UP ANY FOREIGN OBJECT DEBRIS (FOD) SEEN ON THE AIRFIELD PAVEMENTS.
2. THE CONTRACTOR SHALL SECURE ALL LOOSE ITEMS FROM VEHICLES PRIOR TO DRIVING ON AIRFIELD PAVEMENTS.

8. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

1. THE CONTRACTOR SHALL DEVELOP A HAZMAT MANAGEMENT PLAN AND KEEP COPIES ON THE JOBSITE OF MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS HANDLED ON THE JOBSITE.

9. NOTIFICATION OF CONSTRUCTION ACTIVITIES

1. THE CONTRACTOR SHALL PROVIDE A 24 HOUR EMERGENCY CONTACT PERSON AND PHONE NUMBER.
2. THE CONTRACTOR SHALL GIVE A MINIMUM OF 72 HOURS NOTICE TO AIRPORT OPERATIONS PRIOR TO CLOSING ANY PAVEMENTS SO THAT PROPER NOTAMS MAY BE ISSUED BY THE AIRPORT.
3. THE CONTRACTOR SHALL NOTIFY THE AIRPORT 7 DAYS BEFORE STARTING WORK IN EACH PHASE. THIS WILL ENSURE THAT THE AIRPORT CAN CONTACT TENANTS ABOUT MOVING AIRCRAFT DURING THE TIME OF CONSTRUCTION.
4. FOR ANY EQUIPMENT USED BY THE CONTRACTOR WITH A HEIGHT GREATER THAN 25', THE CONTRACTOR SHALL PROVIDE TO THE AIRPORT THE TYPE OF EQUIPMENT, TOTAL HEIGHT, AND LOCATION WHERE THE EQUIPMENT WILL BE USED. THE AIRPORT WILL SUBMIT FAA FORM 7460-1 TO THE FAA FOR AN AIRSPACE STUDY. NO EQUIPMENT WITH A HEIGHT GREATER THAN 25' SHALL BE USED UNTIL A DETERMINATION FROM FAA IS RECEIVED.
5. IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL 911 AND SAFETY.
6. CONTACTS FOR THIS PROJECT ARE AS DISCUSSED IN THE PRE-CONSTRUCTION MEETING.

10. INSPECTION REQUIREMENTS

1. THE CONTRACTOR SHALL INSPECT THE JOBSITE DAILY TO ENSURE COMPLIANCE WITH THE CSPP. THE CHECKLIST FOUND IN APPENDIX 3 OF FAA AC 150/5370-2F MAY BE USED TO AID IN THE INSPECTIONS.
2. THE CONTRACTOR AND AIRPORT SHALL ATTEND AN INSPECTION OF EACH PHASE WORK AREA PRIOR TO OPENING THE AREA TO AIRPORT OPERATIONS.

11. UNDERGROUND UTILITIES

1. 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. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION.
2. BEFORE INITIATING ANY DIGGING, DRILLING OR EXCAVATING ON THE AIRPORT PROPERTY, THE CONTRACTOR SHALL CALL J.U.L.I.E. AND CONTACT THE LOCAL FAA OFFICE TO ARRANGE FOR UTILITY LOCATES. SEE SECTION 70-17 OF THE SPECIAL PROVISIONS FOR UTILITY CONTACT INFORMATION.

12. PENALTIES

1. NONCOMPLIANCE BY THE CONTRACTOR WITH AIRPORT RULES AND REGULATIONS OR FAILURE TO COMPLY WITH THE AIRPORT'S APPROVED CSPP AND THE CONTRACTOR'S APPROVED SPCD MAY RESULT IN FINES AS ALLOWED BY LAW.

13. SPECIAL CONDITIONS

1. ADJACENT CONSTRUCTION MAY IMPACT THE OPERATIONS OF THE CONTRACTOR. SEE THE COORDINATION NOTES FOR ADDITIONAL INFORMATION.

14. HAZARD MARKING AND LIGHTING

1. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND HIS/HER CONSTRUCTION EQUIPMENT.
2. ALL CONSTRUCTION EQUIPMENT SHALL BE FLAGGED AND/OR LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2F AND 150/5210-5C AT ALL TIMES WHILE OPERATING ON AIRPORT PROPERTY. THE MAXIMUM EQUIPMENT HEIGHT IS 25'.
3. BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEET OR AS DIRECTED BY THE RESIDENT ENGINEER.
4. THE CONTRACTOR SHALL INSPECT THE BARRICADES ONCE DURING EACH WORK DAY TO INSURE PROPER PLACEMENT AND PROPER OPERATION OF THE RED LIGHTS AND FLAG PLACEMENT.

15. PROTECTION

1. ALL WORK REQUIRED ON AN ACTIVE RUNWAY 9/27 OR INSIDE OF AN ACTIVE RUNWAY 9/27 OBJECT FREE ZONE (ROFZ), WHICH EXTENDS 125' FROM THE RUNWAY CENTERLINE, WILL REQUIRE THE RUNWAY TO BE CLOSED.
2. ALL WORK REQUIRED ON AN ACTIVE TAXIWAY OR INSIDE OF AN ACTIVE TAXIWAY OBJECT FREE AREA (TOFA), WHICH EXTENDS 65.5' FROM THE TAXIWAY CENTERLINE, WILL REQUIRE THE TAXIWAY TO BE CLOSED.
3. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR TO THE REQUESTED CLOSURE TIME.

16. OTHER LIMITATIONS ON CONSTRUCTION

1. IF DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT.
2. BROKEN CONCRETE, BROKEN ASPHALT, AND OTHER MISCELLANEOUS DEBRIS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS OTHERWISE SPECIFIED.

FILE: 1107202-GC006.dwg
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 3:50 PM

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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

CSSP-CONSTRUCTION SAFETY PHASING PLAN NOTES

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

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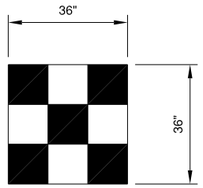
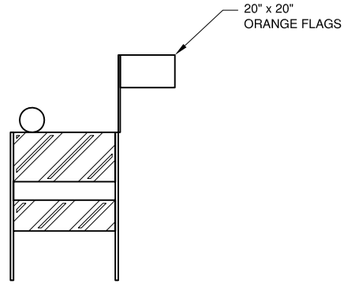


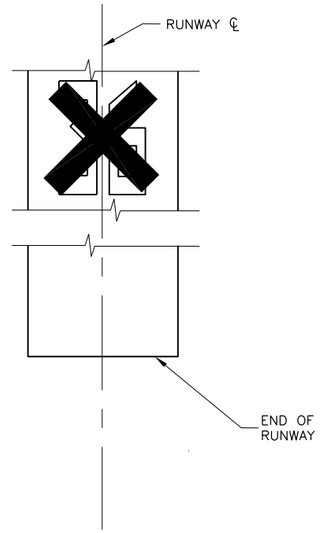
CONSTRUCTION EQUIPMENT AND
TRUCK SIGNAL FLAG
N.T.S.



FLASHER BARRICADE DETAIL-IDOT TYPE 1
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.



CLOSED RUNWAY MARKER DETAIL
N.T.S.

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.

SECURITY NOTES

1. MAINTAINING THE SECURITY REQUIREMENTS OF THE AIRPORT SHALL BE A PRIMARY CONCERN FOR THE CONTRACTOR.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING AIRPORT SECURITY BY SUPERVISING OPENINGS OR MAINTAINING THE AIRPORT PERIMETER FENCE LINE AT ALL TIMES DURING THE COURSE OF THE WORK.
3. FINES CAN BE LEVIED AGAINST THE CONTRACTOR BY THE TRANSPORTATION SECURITY ADMINISTRATION (TSA) FOR NEGLIGENCE IF THE AIRPORT SECURITY IS COMPROMISED AND THE AIRPORT PERIMETER FENCE LINE IS NOT MAINTAINED AS SPECIFIED ABOVE. FINES CAN ALSO BE LEVIED AGAINST THE CONTRACTOR FOR FAILURE TO COOPERATE WITH THE AIRPORT MANAGEMENT AS REQUIRED TO MAINTAIN AIRPORT SECURITY.

CONSTRUCTION ACTIVITY GENERAL NOTES

1. CONSTRUCTION PHASING IS OF CRITICAL IMPORTANCE TO THE AIRPORT FOR THIS PROJECT.
2. THE CONTRACTOR SHALL PLAN AND CONDUCT HIS WORK SO AS TO NOT INTERFERE OR HINDER THE PROGRESS OR WORK BEING PERFORMED BY OTHER CONTRACTORS.
3. THE TIMELY PROSECUTION OF THE OVERALL PROJECT IS DEPENDENT UPON THE PROPER COORDINATION BETWEEN CONTRACTORS.
4. IT SHALL BE FULLY UNDERSTOOD BY THE CONTRACTOR THAT THE PROSECUTION OF THE OVERALL PROJECT ARE THE GOVERNING CRITERIA FOR RESOLVING CONFLICTS WHICH MAY ARISE BETWEEN HIS SCHEDULE AND THE SCHEDULE OF OTHER CONTRACTORS.
5. WHEN CONFLICTS ARISE, RESOLUTION OF SUCH CONFLICTS WILL BE MADE BY THE AIRPORT THROUGH THE RESIDENT ENGINEER IN THE BEST INTEREST OF THE AIRPORT.
6. DELAYS, CHANGES IN SCHEDULING, OR THE EXPEDITION OF WORK UNDER THIS CONTRACT TO PROVIDE FOR THE TIMELY PROSECUTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. CONTRACTOR'S STAGING, STORAGE, AND PARKING WILL BE AS SHOWN ON THE CONSTRUCTION ACTIVITY PLANS.
8. THE CONTRACTOR SHALL PLACE ALL BARRICADES AND EROSION CONTROL ITEMS AS SHOWN IN THE PLANS PRIOR TO INITIATING WORK IN EACH PHASE. ALL COSTS TO FURNISH, INSTALL, AND MAINTAIN THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
9. CONSTRUCTION RELATED ITEMS REQUIRING THE CLOSURE OF RUNWAYS AND TAXIWAYS SHALL REQUIRE CLOSE COORDINATION WITH THE AIRPORT. NO EXTENSION TO CONTRACT TIME WILL BE GIVEN FOR DELAYS CAUSED BY LACK OF ADEQUATE COORDINATION. THE AIRPORT SHALL REQUIRE72 HOURS NOTIFICATION PRIOR TO THE CLOSURE OF RUNWAYS.
10. CONSTRUCTION BARRICADES SHALL BE SET AT THE LIMITS OF THE WORK AREA OF EACH PHASE. OFFSETTING BARRICADES TO ANY LOCATION DIFFERENT THAN SHOWN IN THE PLANS WILL COORDINATED WITH THE AIRPORT IN ADVANCE. IN THE EVENT OF A CONFLICT BETWEEN CONSTRUCTION OPERATIONS AND TAXIING AIRCRAFT, THE CONTRACTOR SHALL CEASE OPERATIONS AND RETURN THE BARRICADES TO THE EDGE OF THE WORKING LIMITS. ALL BARRICADES SHALL BE REMOVED AT THE END OF EACH CONSTRUCTION PHASE.

FILE: 1107202-GC007.dwg
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 3:57 PM

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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

CONSTRUCTION ACTIVITY PLAN NOTES AND DETAILS

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 07 OF 30 SHEETS

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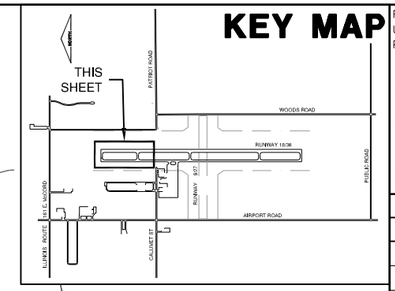
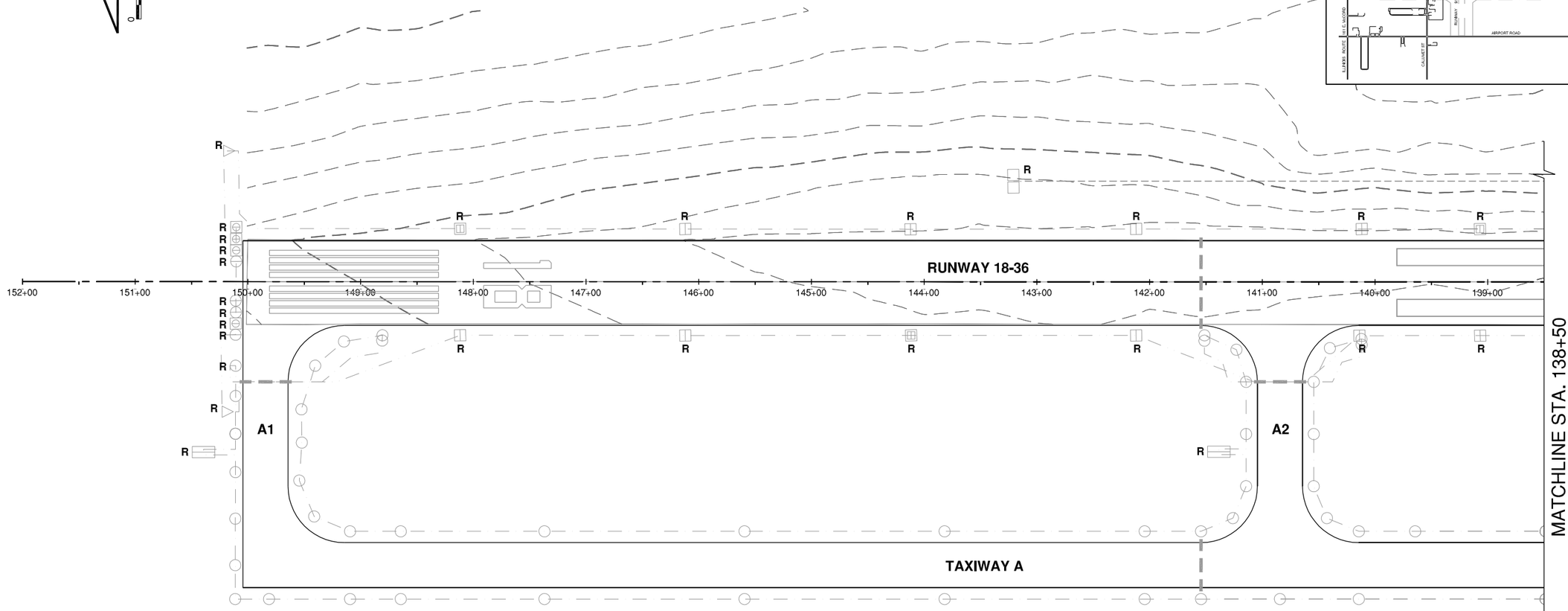
KEY MAP





LEGEND

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CB	EXISTING INLET		EXISTING SPLICE CAN
	EXISTING END SECTION		EXISTING AIRFIELD DUCT
	EXISTING STAKE MOUNTED RUNWAY EDGE LIGHT		EXISTING 18/36 RUNWAY CIRCUIT
	EXISTING BASE MOUNTED RUNWAY EDGE LIGHT		EXISTING 9/27 RUNWAY CIRCUIT
	EXISTING STAKE MOUNTED RUNWAY THRESHOLD LIGHT		EXISTING TAXIWAY CIRCUIT
	EXISTING BASE MOUNTED RUNWAY THRESHOLD LIGHT		EXISTING VASI CIRCUIT
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CONTRACTOR'S RESPONSIBILITY FOR UTILITY SERVICE

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES 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 TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE 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 OWNER AND THE ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

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UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:01 PM

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Baselines
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KEYMAP

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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

EXISTING CONDITIONS AND REMOVALS 1

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
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DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 08 OF 30 SHEETS

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RUNWAY 18-36

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MATCHLINE STA. 138+50

MATCHLINE STA. 125+00

RUNWAY 9-27

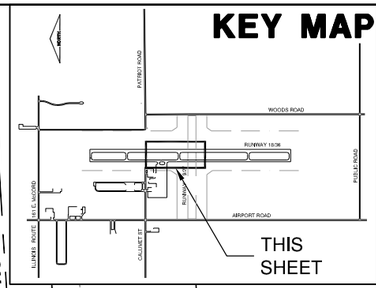
CRITICAL SEQUENCE 250'

TAXIWAY A

TO EXISTING VAULT

AIRPORT MANAGER'S OFFICE

KEY MAP



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LEGEND

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UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 1:42 PM

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BASE
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CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

EXISTING CONDITIONS AND REMOVALS 2

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SHEET 09 OF 30 SHEETS

NORTH
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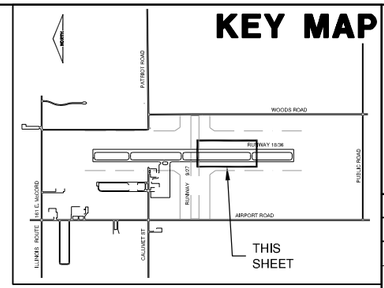
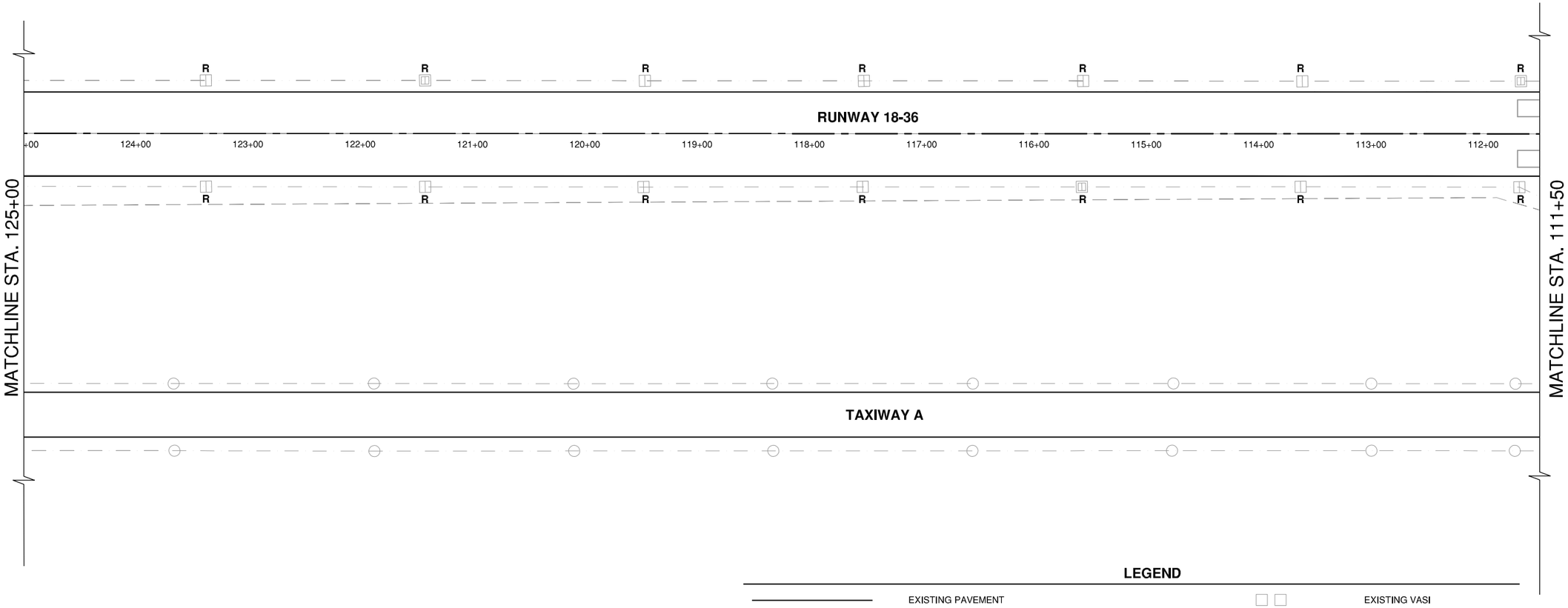
SCALE IN FEET

KEY MAP





CONTRACTOR'S RESPONSIBILITY FOR UTILITY SERVICE

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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 OWNER AND THE ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

LEGEND

	EXISTING PAVEMENT		EXISTING VASI
X X	EXISTING FENCE	J	EXISTING TRANSFORMER
SS SS	EXISTING STORM SEWER	DM	EXISTING DUCT MARKER
CB	EXISTING INLET		EXISTING SPLICE CAN
	EXISTING END SECTION		EXISTING AIRFIELD DUCT
	EXISTING STAKE MOUNTED RUNWAY EDGE LIGHT		EXISTING 18/36 RUNWAY CIRCUIT
	EXISTING BASE MOUNTED RUNWAY EDGE LIGHT		EXISTING 9/27 RUNWAY CIRCUIT
	EXISTING STAKE MOUNTED RUNWAY THRESHOLD LIGHT		EXISTING TAXIWAY CIRCUIT
	EXISTING BASE MOUNTED RUNWAY THRESHOLD LIGHT		EXISTING VASI CIRCUIT
	EXISTING STAKE MOUNTED TAXIWAY EDGE LIGHT		EXISTING WINDCONE CIRCUIT
	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT	520	EXISTING CONTOUR
	EXISTING AIRFIELD GUIDANCE SIGN	R	REMOVE
	EXISTING REIL		

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FILE: EXCON03.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:13 PM

centdesbase
BASE_PROP-GEO-SW
Baselines
1107202-V-VF2D
BASE
EXIST COND. LEGEND
KEYMAP

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

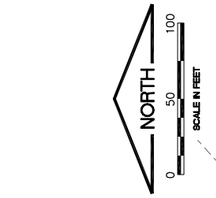
EXISTING CONDITIONS AND REMOVALS 3

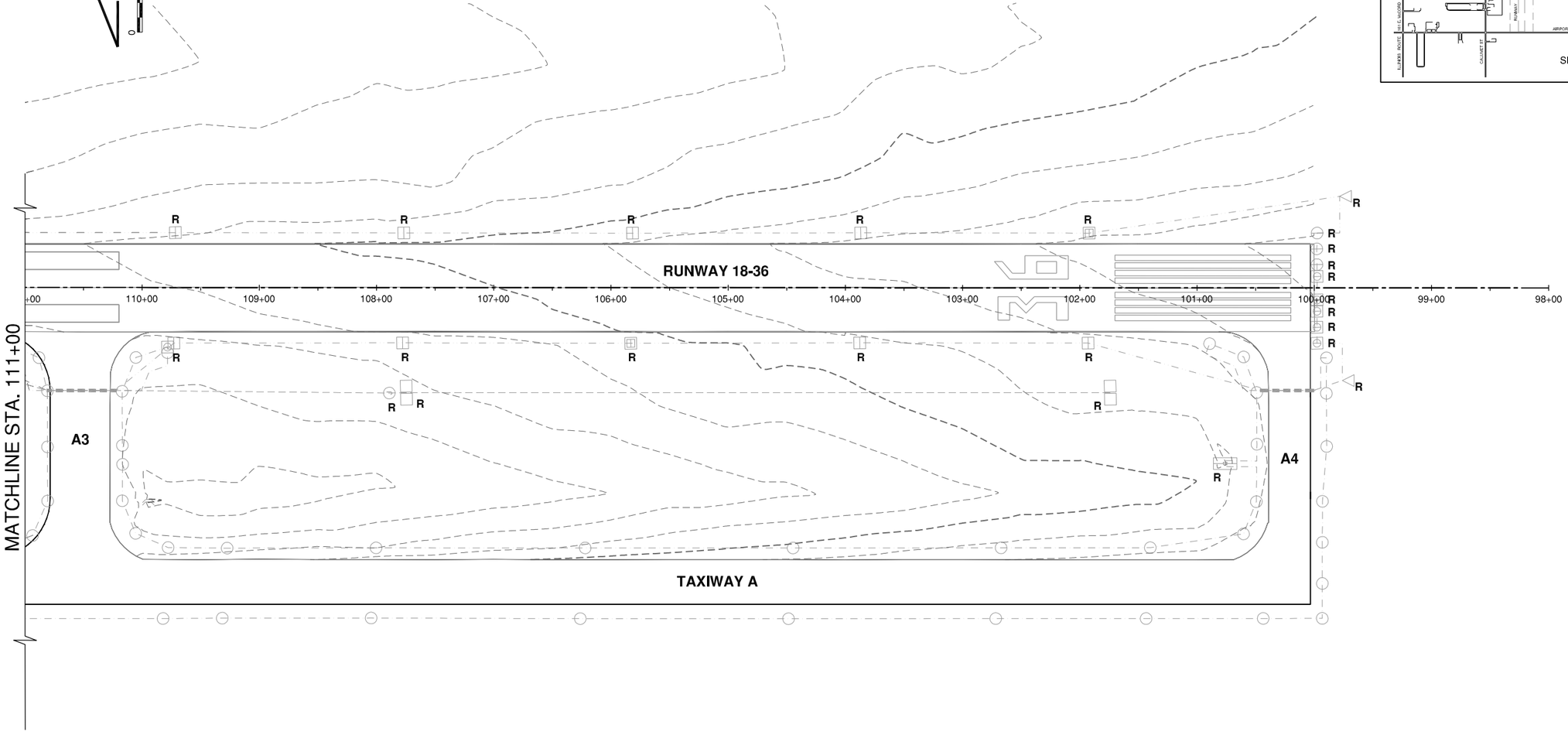
CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

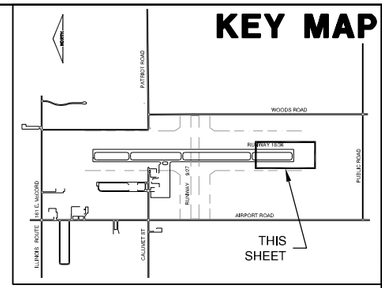
IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 10 OF 30 SHEETS





KEY MAP



FILE: EXCON04.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:14 PM

centdesbase
BASE_PROP-GEO-SW
BASE
Baselines
1107202-V-VF2D
EXIST COND. LEGEND
KEYMAP

CE032

REVISIONS

NUMBER	BY	DATE

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

CONTRACTOR'S RESPONSIBILITY FOR UTILITY SERVICE

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES 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 TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.

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LEGEND

	EXISTING PAVEMENT		EXISTING VASI
x x x x	EXISTING FENCE	J	EXISTING TRANSFORMER
SS SS SS SS	EXISTING STORM SEWER	DM	EXISTING DUCT MARKER
CB	EXISTING INLET		EXISTING SPLICE CAN
	EXISTING END SECTION		EXISTING AIRFIELD DUCT
	EXISTING STAKE MOUNTED RUNWAY EDGE LIGHT		EXISTING 18/36 RUNWAY CIRCUIT
	EXISTING BASE MOUNTED RUNWAY EDGE LIGHT		EXISTING 9/27 RUNWAY CIRCUIT
	EXISTING STAKE MOUNTED RUNWAY THRESHOLD LIGHT		EXISTING TAXIWAY CIRCUIT
	EXISTING BASE MOUNTED RUNWAY THRESHOLD LIGHT		EXISTING VASI CIRCUIT
	EXISTING STAKE MOUNTED TAXIWAY EDGE LIGHT		EXISTING WINDCONE CIRCUIT
	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT	520	EXISTING CONTOUR
	EXISTING AIRFIELD GUIDANCE SIGN	R	REMOVE
	EXISTING REIL		

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

EXISTING CONDITIONS AND REMOVALS 4

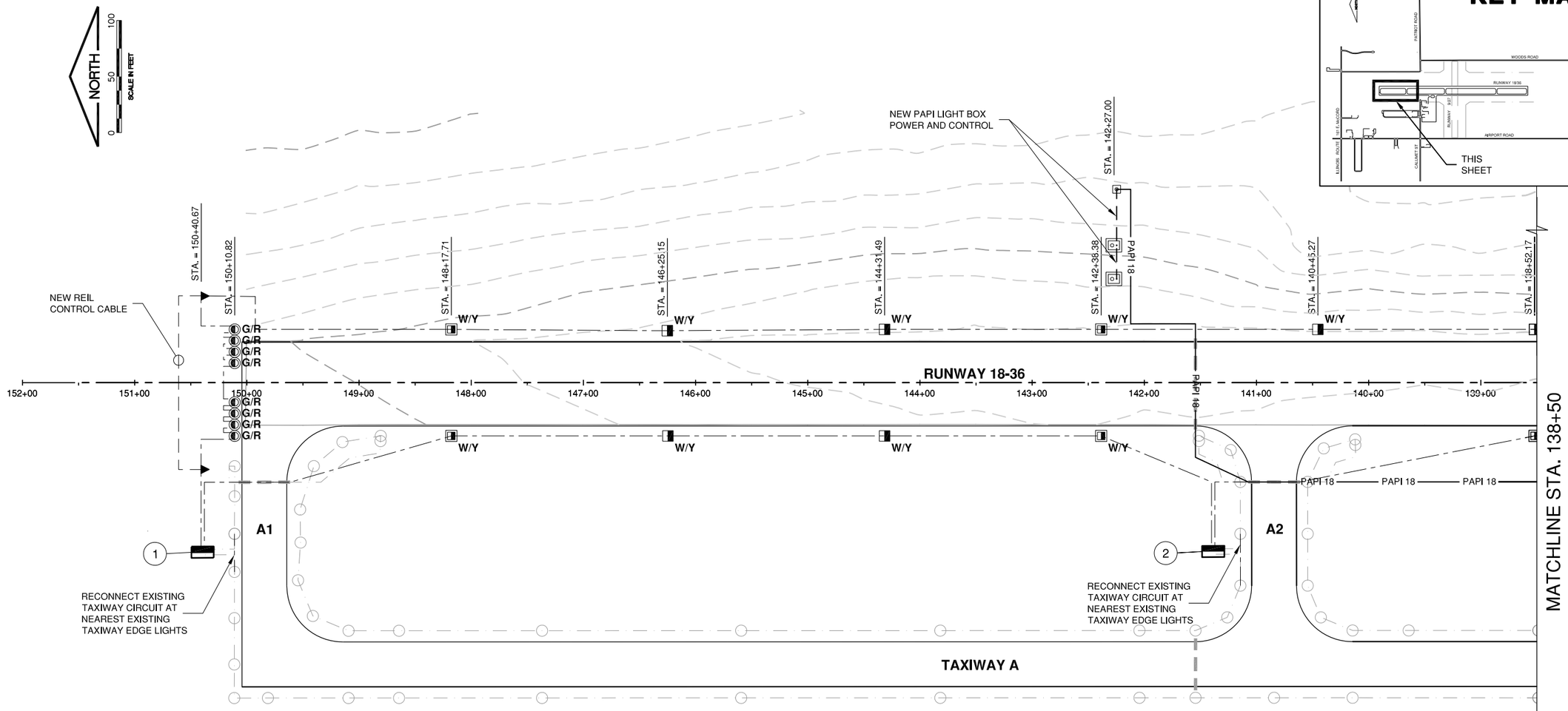
CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 11 OF 30 SHEETS

K:\Centralia\P\1107202\Draw\Sheets



LEGEND

- NEW STAKE MOUNTED RUNWAY EDGE LIGHT
- NEW BASE MOUNTED RUNWAY EDGE LIGHT
- NEW STAKE MOUNTED RUNWAY THRESHOLD LIGHT
- NEW BASE MOUNTED RUNWAY THRESHOLD LIGHT
- NEW AIRFIELD GUIDANCE SIGN
- NEW PAPI
- NEW REIL
- NEW SPLICE CAN
- W — WHITE OMNIDIRECTIONAL LENS
- W/Y — WHITE/YELLOW BIDIRECTIONAL LENS
- G/R — GREEN/RED BIDIRECTIONAL LENS
- NEW 18/36 RUNWAY CIRCUIT -1/C #8 5 KV UG CABLE IN UD; NEW 1836 RUNWAY HOMERUN -2/C #8 5KV UG CABLE IN UD
- PAPI 18 — NEW RUNWAY 18 PAPI CIRCUIT -2-1/C #4 USE, 1 #8 GND IN 1" UD
- PAPI 36 — NEW RUNWAY 36 PAPI CIRCUIT -2-1/C #2 USE, 1 #8 GND IN 1-1/4" UD
- NEW 4" DIRECTIONAL BORE
- EXISTING AIRFIELD DUCT
- EXISTING 9/27 RUNWAY CIRCUIT
- EXISTING TAXIWAY CIRCUIT
- EXISTING WIND CONE CIRCUIT

SIGNAGE SCHEDULE

SIGN NO.	SIDE	NEW SIGN LEGEND	WHITE LEGEND ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND AND BORDER ON BLACK BACKGROUND	NO. OF CHARACTERS	POWER CIRCUIT	NOTES
1	EAST WEST	←A A1 A1 18	18	←A	A1 A1	4	RWY 18/36	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS
2	EAST WEST	A2 ←A→ A2 18-36	18-36	←A→	A2 A2	7	RWY 18/37	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS
3	NORTH SOUTH	27-9	27-9			4	RWY 9/27	REPLACE EXISTING SIGN
4	NORTH SOUTH	9-27	9-27			4	RWY 9/27	REPLACE EXISTING SIGN
5	EAST WEST	A3 ←A→ A3 18-36	18-36	←A→	A3 A3	7	RWY 18/36	NEW SIGN
6	EAST WEST	A4 A→ A4 36	36	A→	A4 A4	4	RWY 18/36	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS

NOTES

1. LIGHTS SHALL BE LOCATED NO MORE THAN 10' FROM THE EXISTING PAVEMENT EDGE.

FILE: ELECTRICAL & LIGHTING PLAN 1.dwg
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 3:51 PM

1107202-V-VF2D
BASE
LEGEND PROP LIGHT
KEYMAP
BASE_PROP_ELEC

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

ELECTRICAL & LIGHTING PLAN 1

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 12 OF 30 SHEETS

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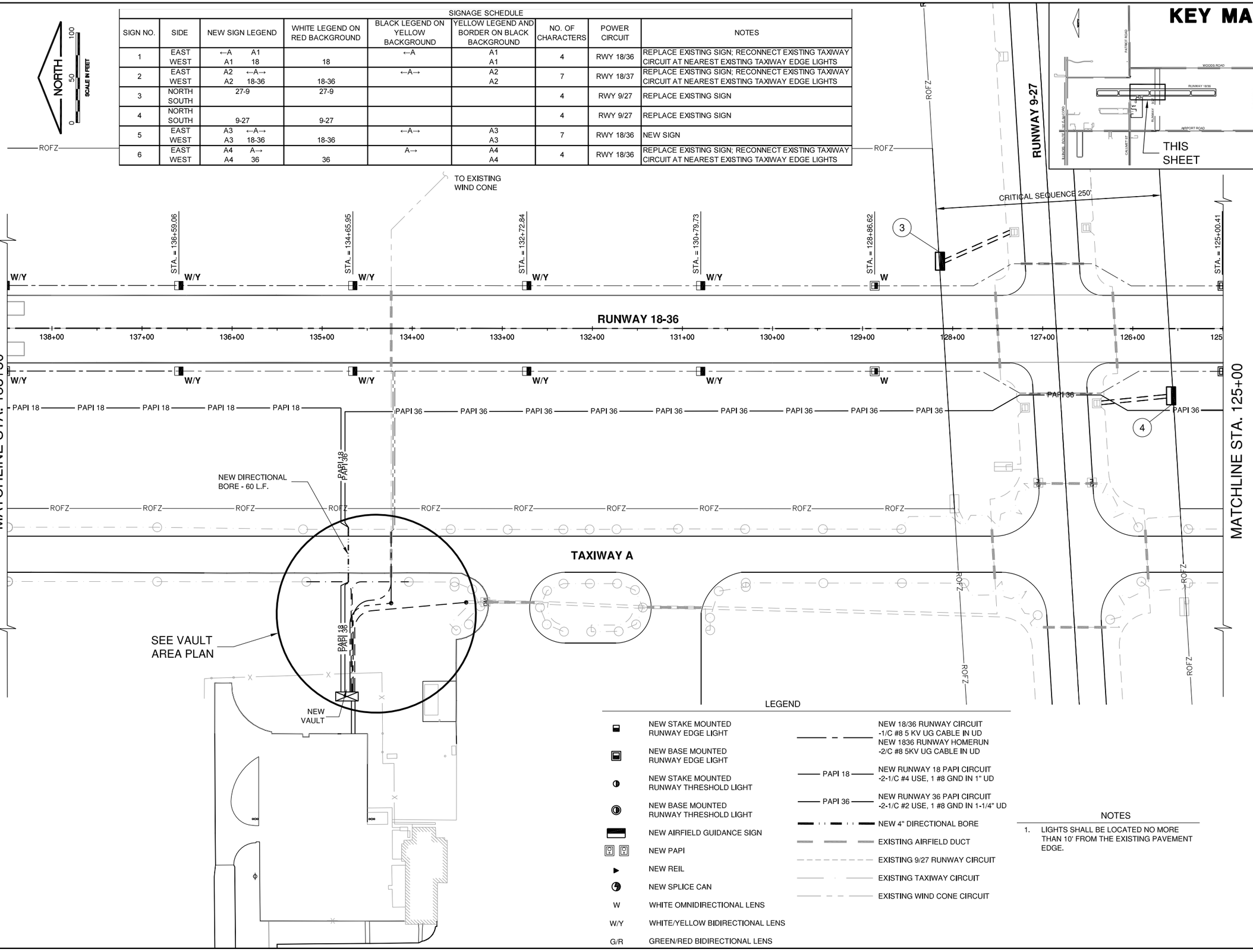
NORTH

SCALE IN FEET
0 50 100

SIGNAGE SCHEDULE

SIGN NO.	SIDE	NEW SIGN LEGEND	WHITE LEGEND ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND AND BORDER ON BLACK BACKGROUND	NO. OF CHARACTERS	POWER CIRCUIT	NOTES
1	EAST WEST	←A A1 A1 18	18	←A	A1 A1	4	RWY 18/36	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS
2	EAST WEST	A2 ←A→ A2 18-36	18-36	←A→	A2 A2	7	RWY 18/37	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS
3	NORTH SOUTH	27-9	27-9			4	RWY 9/27	REPLACE EXISTING SIGN
4	NORTH SOUTH	9-27	9-27			4	RWY 9/27	REPLACE EXISTING SIGN
5	EAST WEST	A3 ←A→ A3 18-36	18-36	←A→	A3 A3	7	RWY 18/36	NEW SIGN
6	EAST WEST	A4 A→ A4 36	36	A→	A4 A4	4	RWY 18/36	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS



LEGEND

- NEW STAKE MOUNTED RUNWAY EDGE LIGHT
- NEW BASE MOUNTED RUNWAY EDGE LIGHT
- NEW STAKE MOUNTED RUNWAY THRESHOLD LIGHT
- NEW BASE MOUNTED RUNWAY THRESHOLD LIGHT
- NEW AIRFIELD GUIDANCE SIGN
- NEW PAPI
- NEW REIL
- NEW SPLICE CAN
- W — WHITE OMNIDIRECTIONAL LENS
- W/Y — WHITE/YELLOW BIDIRECTIONAL LENS
- G/R — GREEN/RED BIDIRECTIONAL LENS
- NEW 18/36 RUNWAY CIRCUIT -1/C #8 5 KV UG CABLE IN UD; NEW 1836 RUNWAY HOMERUN -2/C #8 5KV UG CABLE IN UD
- PAPI 18 — NEW RUNWAY 18 PAPI CIRCUIT -2-1/C #4 USE, 1 #8 GND IN 1" UD
- PAPI 36 — NEW RUNWAY 36 PAPI CIRCUIT -2-1/C #2 USE, 1 #8 GND IN 1-1/4" UD
- NEW 4" DIRECTIONAL BORE
- EXISTING AIRFIELD DUCT
- EXISTING 9/27 RUNWAY CIRCUIT
- EXISTING TAXIWAY CIRCUIT
- EXISTING WIND CONE CIRCUIT

NOTES

1. LIGHTS SHALL BE LOCATED NO MORE THAN 10' FROM THE EXISTING PAVEMENT EDGE.

FILE: ELECTRICAL & LIGHTING PLAN 2.dw
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 3:52 PM

KEYMAP
BASE
Baselines
BASE_PROP_ELEC
1107202-V-VF2D
LEGEND PROP LIGHT
VAULT PLAN

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

ELECTRICAL & LIGHTING PLAN 2

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

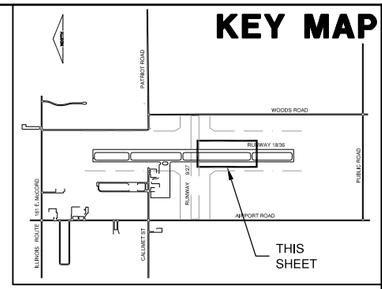
IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

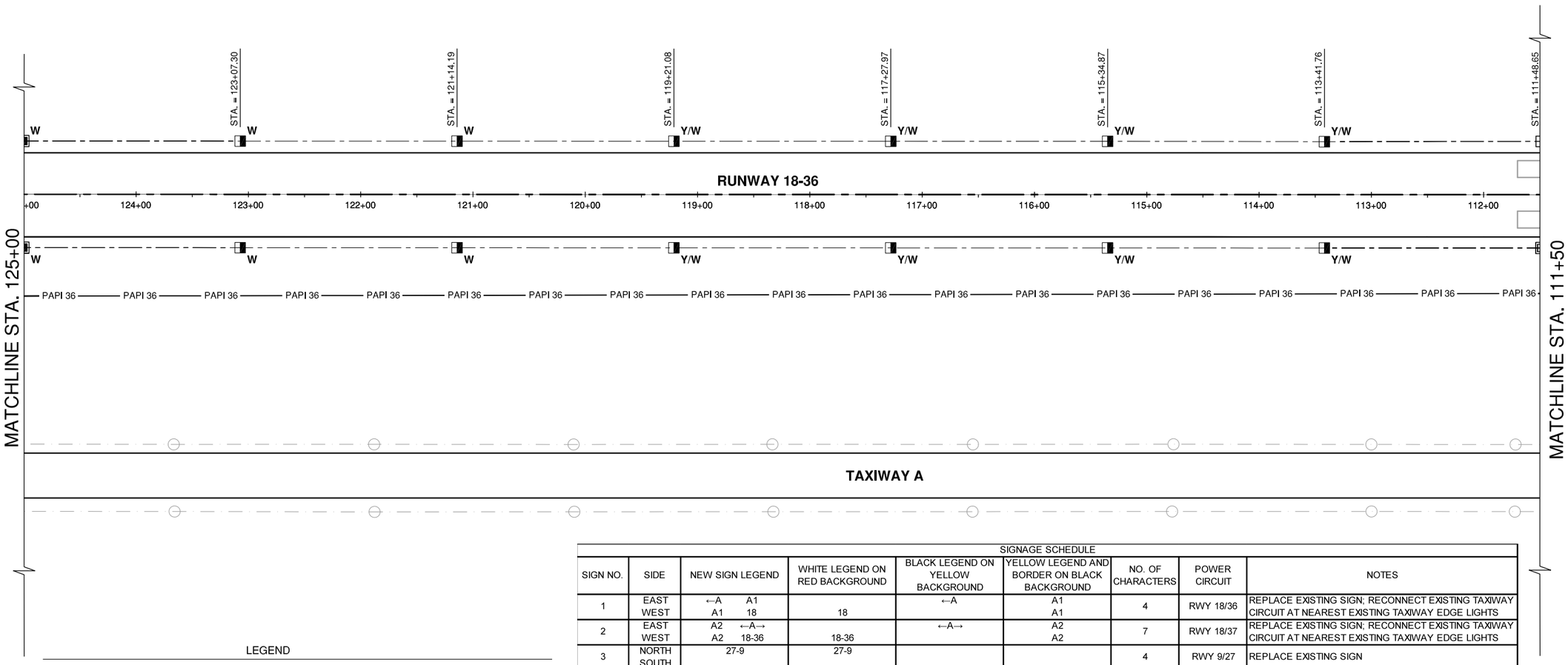
SHEET 13 OF 30 SHEETS

K:\Centralia\AP\1107202\Draw\Sheets

NORTH
0 50 100
SCALE IN FEET

KEY MAP





LEGEND

- NEW STAKE MOUNTED RUNWAY EDGE LIGHT
- NEW BASE MOUNTED RUNWAY EDGE LIGHT
- NEW STAKE MOUNTED RUNWAY THRESHOLD LIGHT
- NEW BASE MOUNTED RUNWAY THRESHOLD LIGHT
- NEW AIRFIELD GUIDANCE SIGN
- NEW PAPI
- NEW REIL
- NEW SPLICE CAN
- W — WHITE OMNIDIRECTIONAL LENS
- W/Y — WHITE/YELLOW BIDIRECTIONAL LENS
- G/R — GREEN/RED BIDIRECTIONAL LENS
- NEW 18/36 RUNWAY CIRCUIT -1/C #8 5 KV UG CABLE IN UD; NEW 1836 RUNWAY HOMERUN -2/C #8 5KV UG CABLE IN UD
- PAPI 18 — NEW RUNWAY 18 PAPI CIRCUIT -2-1/C #4 USE, 1 #8 GND IN 1" UD
- PAPI 36 — NEW RUNWAY 36 PAPI CIRCUIT -2-1/C #2 USE, 1 #8 GND IN 1-1/4" UD
- NEW 4" DIRECTIONAL BORE
- EXISTING AIRFIELD DUCT
- EXISTING 9/27 RUNWAY CIRCUIT
- EXISTING TAXIWAY CIRCUIT
- EXISTING WIND CONE CIRCUIT

SIGNAGE SCHEDULE

SIGN NO.	SIDE	NEW SIGN LEGEND	WHITE LEGEND ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND AND BORDER ON BLACK BACKGROUND	NO. OF CHARACTERS	POWER CIRCUIT	NOTES
1	EAST WEST	←A A1 A1 18	18	←A	A1 A1	4	RWY 18/36	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS
2	EAST WEST	A2 ←A→ A2 18-36	18-36	←A→	A2 A2	7	RWY 18/37	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS
3	NORTH SOUTH	27-9	27-9			4	RWY 9/27	REPLACE EXISTING SIGN
4	NORTH SOUTH	9-27	9-27			4	RWY 9/27	REPLACE EXISTING SIGN
5	EAST WEST	A3 ←A→ A3 18-36	18-36	←A→	A3 A3	7	RWY 18/36	NEW SIGN
6	EAST WEST	A4 A→ A4 36	36	A→	A4 A4	4	RWY 18/36	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS

NOTES

1. LIGHTS SHALL BE LOCATED NO MORE THAN 10' FROM THE EXISTING PAVEMENT EDGE.

FILE: ELECTRICAL & LIGHTING PLAN 3.dw
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 3:53 PM

1107202-V-VF2D
BASE
Baselines
BASE_PROP_ELEC
LEGEND PROP LIGHT
KEYMAP

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

ELECTRICAL & LIGHTING PLAN 3

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 14 OF 30 SHEETS

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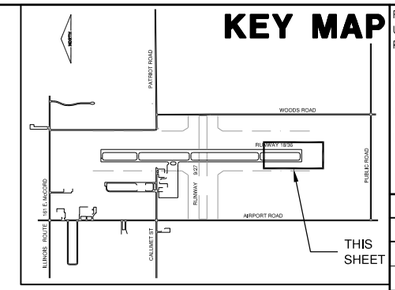
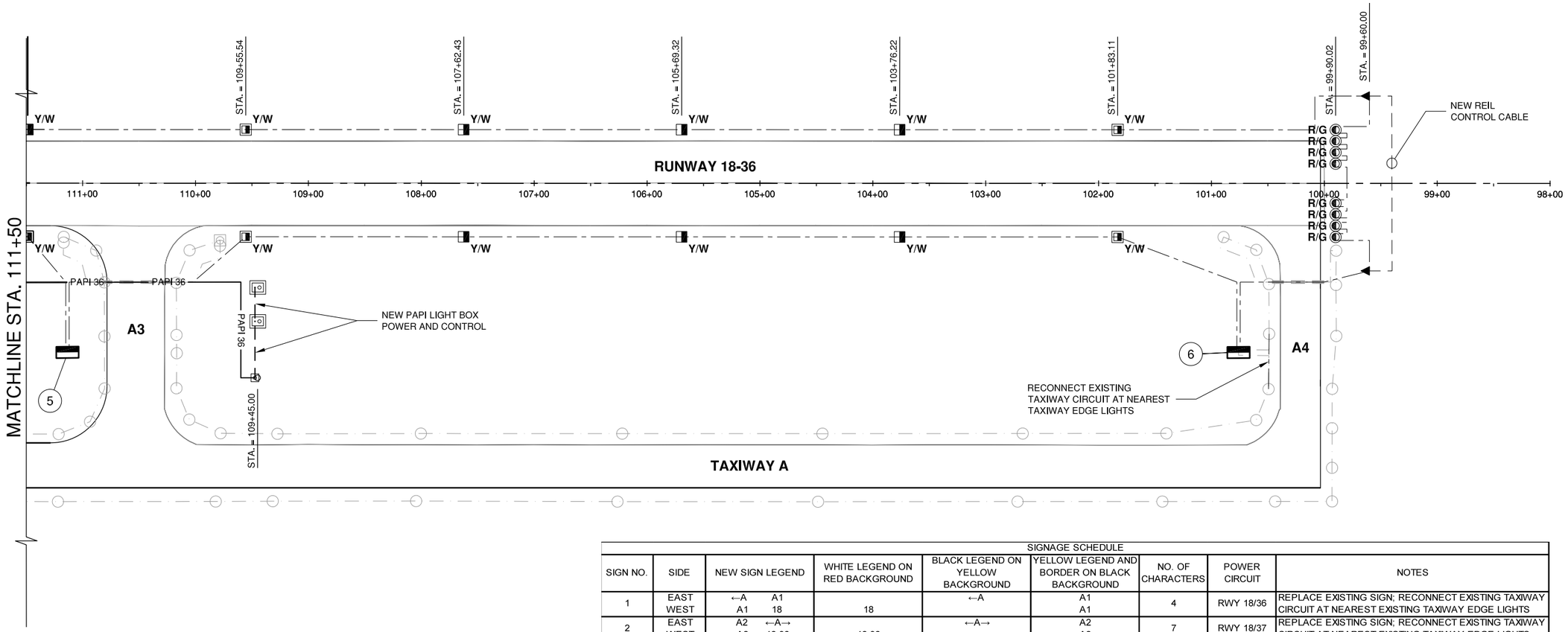
NORTH
SCALE IN FEET
0 50 100





LEGEND

- NEW STAKE MOUNTED RUNWAY EDGE LIGHT
- NEW BASE MOUNTED RUNWAY EDGE LIGHT
- NEW STAKE MOUNTED RUNWAY THRESHOLD LIGHT
- NEW BASE MOUNTED RUNWAY THRESHOLD LIGHT
- NEW AIRFIELD GUIDANCE SIGN
- NEW PAPI
- NEW REIL
- NEW SPLICE CAN
- W — WHITE OMNIDIRECTIONAL LENS
- W/Y — WHITE/YELLOW BIDIRECTIONAL LENS
- G/R — GREEN/RED BIDIRECTIONAL LENS

- NEW 18/36 RUNWAY CIRCUIT -1/C #8 5 KV UG CABLE IN UD; NEW 1836 RUNWAY HOMERUN -2/C #8 5KV UG CABLE IN UD
- PAPI 18 — NEW RUNWAY 18 PAPI CIRCUIT -2-1/C #4 USE, 1 #8 GND IN 1" UD
- PAPI 36 — NEW RUNWAY 36 PAPI CIRCUIT -2-1/C #2 USE, 1 #8 GND IN 1-1/4" UD
- NEW 4" DIRECTIONAL BORE
- EXISTING AIRFIELD DUCT
- EXISTING 9/27 RUNWAY CIRCUIT
- EXISTING TAXIWAY CIRCUIT
- EXISTING WIND CONE CIRCUIT

SIGNAGE SCHEDULE

SIGN NO.	SIDE	NEW SIGN LEGEND	WHITE LEGEND ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND AND BORDER ON BLACK BACKGROUND	NO. OF CHARACTERS	POWER CIRCUIT	NOTES
1	EAST WEST	←A A1 A1 18	18	←A	A1 A1	4	RWY 18/36	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS
2	EAST WEST	A2 ←A→ A2 18-36	18-36	←A→	A2 A2	7	RWY 18/37	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS
3	NORTH SOUTH	27-9	27-9			4	RWY 9/27	REPLACE EXISTING SIGN
4	NORTH SOUTH	9-27	9-27			4	RWY 9/27	REPLACE EXISTING SIGN
5	EAST WEST	A3 ←A→ A3 18-36	18-36	←A→	A3 A3	7	RWY 18/36	NEW SIGN
6	EAST WEST	A4 A→ A4 36	36	A→	A4 A4	4	RWY 18/36	REPLACE EXISTING SIGN; RECONNECT EXISTING TAXIWAY CIRCUIT AT NEAREST EXISTING TAXIWAY EDGE LIGHTS

NOTES

1. LIGHTS SHALL BE LOCATED NO MORE THAN 10' FROM THE EXISTING PAVEMENT EDGE.

FILE: ELECTRICAL & LIGHTING PLAN 4.dw
UPDATE BY: Kristy Brod
PLOT DATE: 5/12/2014 3:53 PM

BASE
Baselines
1107202-V-VF2D
LEGEND PROP LIGHT
KEYMAP
BASE_PROP_ELEC

CE032

REVISIONS

NUMBER	BY	DATE

0 1 2
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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

ELECTRICAL & LIGHTING PLAN 4

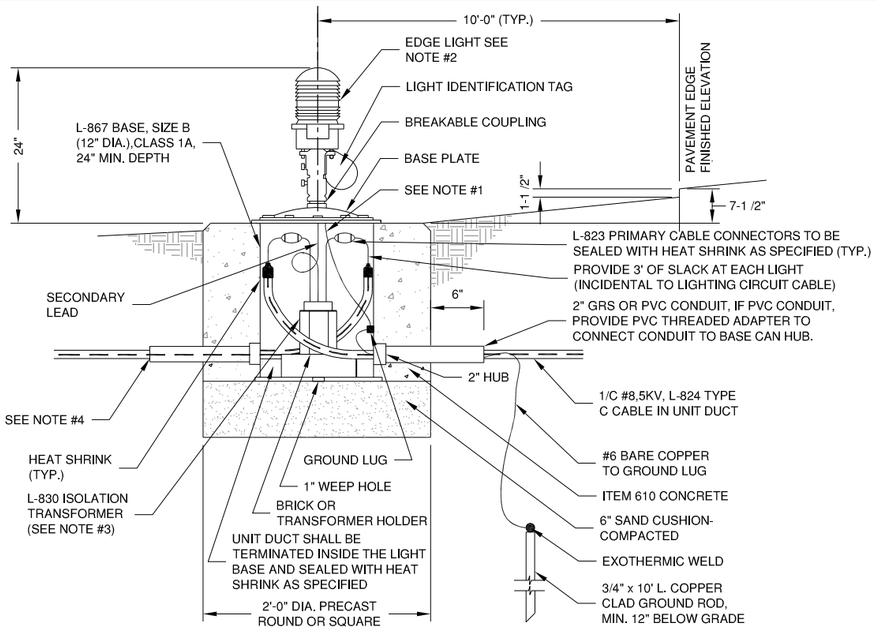
CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 15 OF 30 SHEETS

K:\Centralia\P\1107202\Draw\Sheets

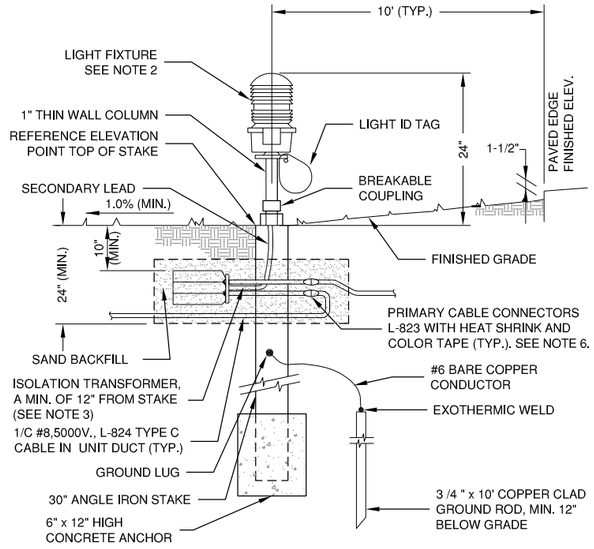


NOTES

1. THE LIGHT FIXTURE SHALL BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A #6 AWG STRANDED COPPER WIRE RATED FOR 600 VOLTS WITH GREEN XHHW INSULATION. THE GROUND WIRE LENGTH SHALL BE SUFFICIENT TO ALLOW THE REMOVAL OF THE LIGHT FIXTURE FROM THE LIGHT BASE FOR ROUTINE MAINTENANCE. SEE THE LIGHT FIXTURE MANUFACTURER'S INSTRUCTIONS FOR PROPER METHODS OF ATTACHING THIS BONDING WIRE.
2. LIGHT FIXTURES SHALL BE AS INDICATED IN NOTE 2 OF STAKE MOUNTED LIGHT DETAIL .
3. L-830 ISOLATION TRANSFORMERS SHALL BE AS INDICATED IN NOTE 3 OF STAKE MOUNTED LIGHT DETAIL.
4. AFTER INSTALLATION OF CABLE IN UNIT DUCT, SEAL END OF CONDUIT TO MAKE WATERTIGHT.
5. THE TOLERANCE FOR THE HEIGHT OF RUNWAY/TAXIWAY EDGE LIGHTS MUST BE ± 1 INCH. THE TOLERANCE FOR THE LATERAL SPACING (LIGHT LANE TO RUNWAY/TAXIWAY CENTERLINE) OF RUNWAY/TAXIWAY EDGE LIGHTS MUST BE ± 1 INCH.
6. DIRECTION OF PRIMARY CABLES MUST BE IDENTIFIED BY COLOR CODING AS FOLLOWS: WHEN FACING LIGHT WITH BACK FACING PAVEMENT., CABLE TO THE LEFT IS CODED RED AND CABLE TO THE RIGHT IS CODED BLUE.
7. APPLY A CORROSION INHIBITING, ANTI-SEIZE COMPOUND TO ALL SCREWS, NUTS AND FRANGIBLE COUPLING THREADS. IF COATED BOLTS ARE USED PER ENGINEERING BRIEF #83, DO NOT APPLY ANTI-SEIZE COMPOUND.
8. ELECTRICAL INSULATING GREASE MUST BE APPLIED WITHIN THE L-830 ISOLATION TRANSFORMER SECONDARY TWO CONDUCTOR CONNECTORS TO PREVENT WATER ENTRANCE. THE CONNECTORS MUST NOT BE TAPED.

BASE MOUNTED EDGE LIGHT

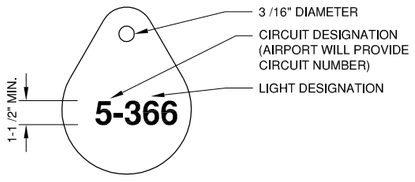
N.T.S.



1. CABLES SHALL NOT BE LESS THAN 24" DEEP. ENCASE ISOLATION TRANSFORMER, L-823 CONNECTORS, AND 2 FOOT MINIMUM OF L-824 CABLE SLACK IN SAND BACKFILL.
2. LIGHT FIXTURES SHALL BE L-861, L-861E, AS INDICATED ON THE PLANS AND SPECIFICATIONS. LED EDGE LIGHTS SHALL BE INDICATED WITH THE SUFFIX (L). WHERE INDICATED TO BE QUARTZ, LAMPS SHALL BE 30W OR 45W AS REQUIRED BY LIGHT FIXTURE MANUFACTURER TO MEET MINIMUM DISTRIBUTION AND OUTPUT REQUIREMENTS OF AC 150/5345-46(LATEST EDITION).
3. L-830 ISOLATION TRANSFORMERS FOR QUARTZ EDGE LIGHTS AND LED EDGE LIGHTS WITH HEATERS SHALL BE L-830-1, 30/45 WATT. LED EDGE LIGHTS WITHOUT HEATERS SHALL BE L-830-16, 10/15 WATT OR L-830-17, 20/25 WATT, AS RECOMMENDED BY LIGHT FIXTURE MANUFACTURER.
4. UNIT DUCT, WHERE INSTALLED, SHALL BE TERMINATED AT L-823 CONNECTORS AND SEALED TO MAKE WATERTIGHT.
5. DO NOT INSTALL ANGLE IRON STAKE BY DRIVING. MAKE ELECTRICAL CONNECTIONS AND BACKFILL AROUND THE STAKE WITH EARTH PASSING THE 1-INCH SIEVE. COMPACT AS REQUIRED TO PROVIDE FIRM SUPPORT FOR STAKE, AND TO THE SATISFACTION OF THE RESIDENT ENGINEER.
6. DIRECTION OF PRIMARY CABLES MUST BE IDENTIFIED BY COLOR CODING AS FOLLOWS WHEN FACING LIGHT WITH BACK FACING PAVEMENT: CABLE TO THE LEFT IS CODED RED AND CABLE TO THE RIGHT IS CODED BLUE.
7. THE TOLERANCE FOR THE HEIGHT OF RUNWAY/TAXIWAY EDGE LIGHTS MUST BE ± 1 INCH. THE TOLERANCE FOR THE LATERAL SPACING (LIGHT LANE TO RUNWAY/TAXIWAY CENTERLINE) OF RUNWAY/TAXIWAY EDGE LIGHTS MUST BE ± 1 INCH.

STAKE MOUNTED MEDIUM INTENSITY LIGHTS

N.T.S.

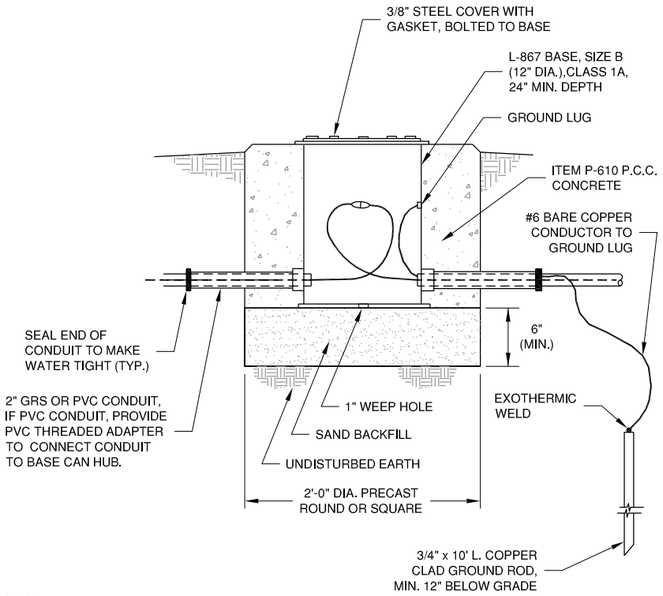


LIGHT IDENTIFICATION TAG DETAIL

N.T.S.

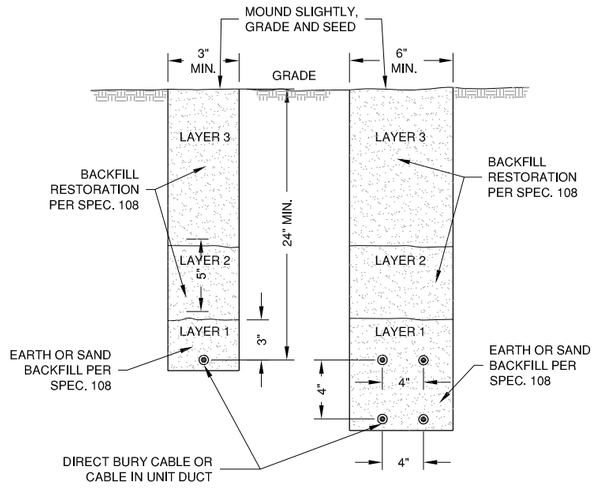
NOTES

1. 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.
2. NUMERALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
3. AIRFIELD SIGNS SHALL BE TAGGED AND NUMBERED.
4. THE CONTRACTOR SHALL NUMBER THE EXISTING AND PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT, STARTING AT THE HOMERUN AND CONTINUING AROUND THE ENTIRE CIRCUIT, BACK TO THE HOMERUN.



SPLICE CAN DETAIL

N.T.S.



NOTES:

1. CABLES SHALL NOT BE PLACED LESS THAN 24" DEEP IN ANY ONE TRENCH UNLESS PERMITTED BY ENGINEER.
2. WHERE PERMITTED, CONTRACTOR MAY INSTALL CABLE IN UNIT DUCT BY PLOWING METHOD.

CABLE TRENCH DETAIL

N.T.S.

FILE: ELECTRICAL DETAILS 1.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:21 PM

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

ELECTRICAL DETAILS

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 16 OF 30 SHEETS

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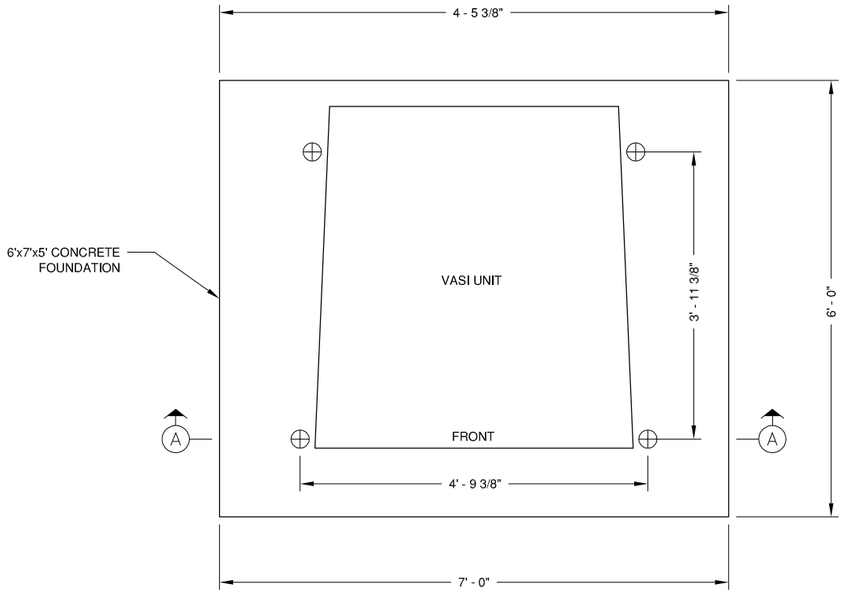
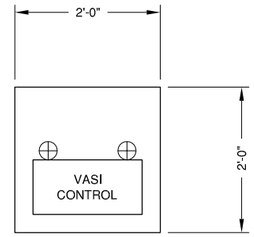


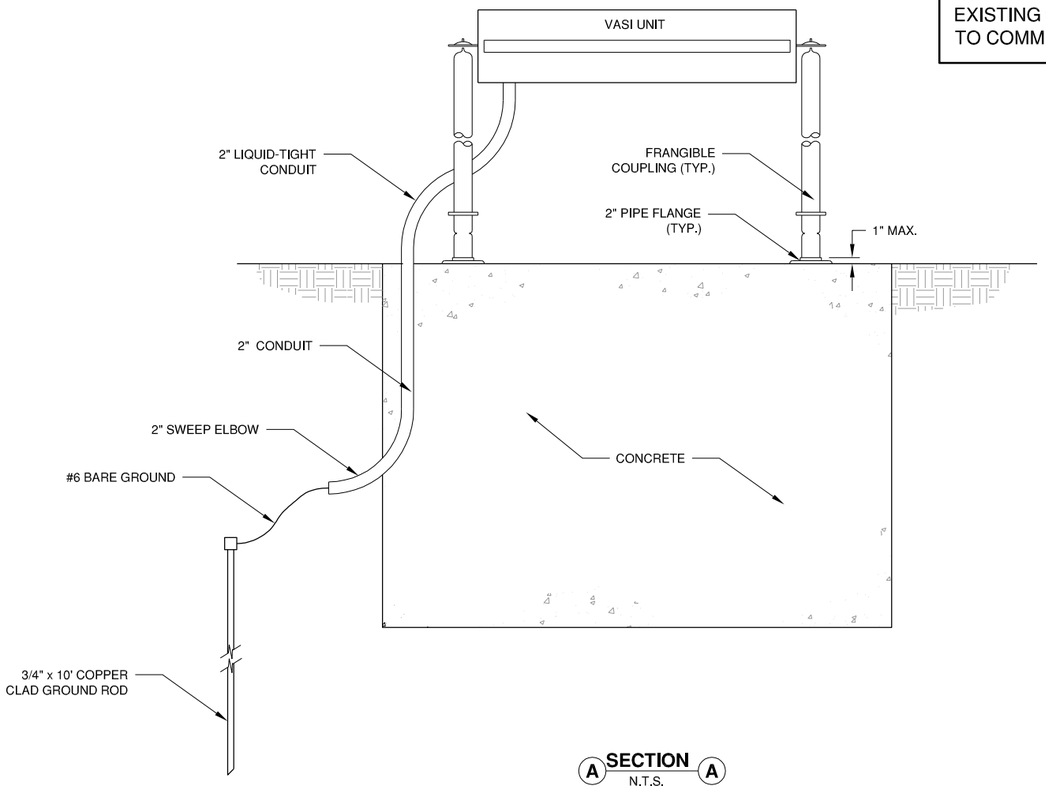
PLAN VIEW
N.T.S.



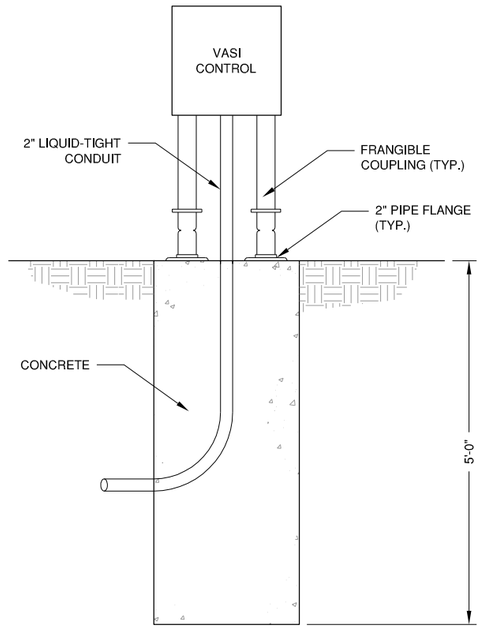
PLAN VIEW
N.T.S.

NOTE:
1. EACH VASI REMOVAL INCLUDES (2) VASI UNITS AND (1) CONTROL UNIT.
2. BACKFILL AND COMPACT AT EACH REMOVAL WITH CLEAN EARTH AND SEED TO MATCH SURROUNDING TURF.

DETAILS SHOWN ARE FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.



A SECTION A
N.T.S.



ELEVATION
N.T.S.

FILE: VASI REMOVAL DETAIL.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:22 PM

CE032

REVISIONS

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0 1 2
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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

VASI REMOVAL DETAIL

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 17 OF 30 SHEETS

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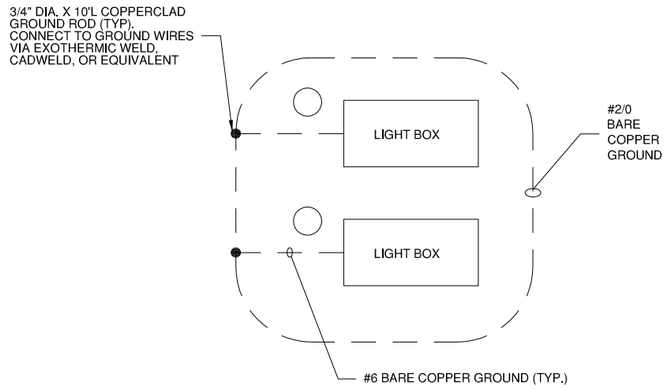
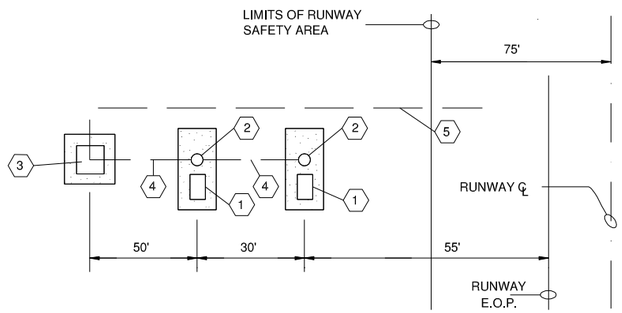


PAPI GROUND RING DETAIL
N.T.S.



1. PAPI LIGHT BOX. SEE DETAIL, THIS SHEET.
2. L-867 CAN WITH SOLID LID. SEE DETAIL, THIS SHEET.
3. PAPI PCU. SEE DETAIL, THIS SHEET.
4. PAPI LIGHT BOX POWER & TILT SWITCH WIRING. SEE DETAIL, THIS SHEET.
5. PAPI POWER WIRING FROM VAULT. SEE DETAIL, THIS SHEET.

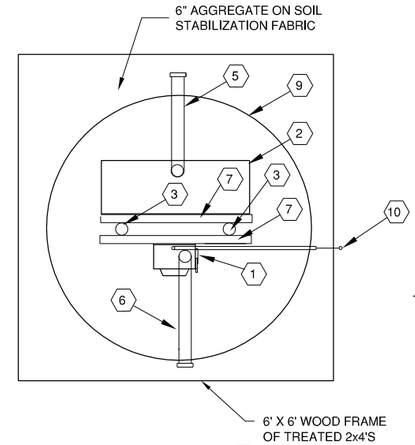
RWY. 18 PAPI PLAN
(RWY. 36 MIRROR IMAGE)
N.T.S.

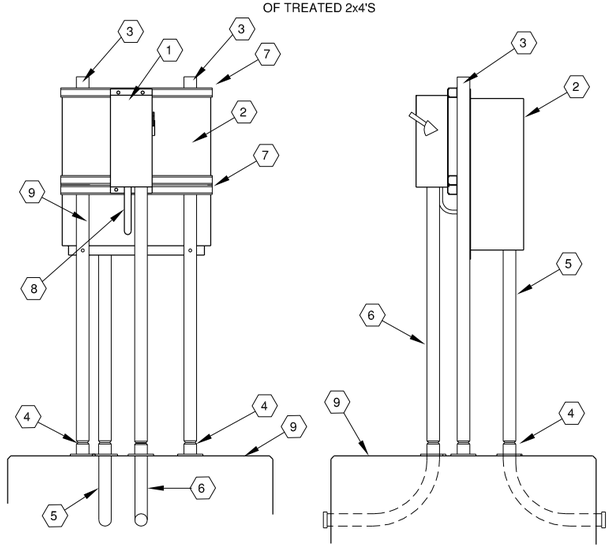
AIMING OF TYPE L-881 (2-BOX) PAPI RELATIVE TO PRESELECTED GLIDE PATH (3°00')

LIGHT UNIT	AIMING ANGLE (IN MINUTES OF ARC) STANDARD INSTALLATION
UNIT NEAREST RUNWAY	15' ABOVE GLIDE PATH
UNIT FARTHEST FROM RUNWAY	15' BELOW GLIDE PATH

RUNWAY	18	36
HEIGHT GROUP USED FOR SITING	1	1
THRESHOLD STATIONING	150+00.82	100+00.00
THRESHOLD ELEVATION	519.25	534.14
THRESHOLD CROSSING HEIGHT	40'	40'
STATION FOR MIDPOINT OF PROJECTORS	142+27.00	109+45.00
GLIDE PATH ANGLE *	3°	3°
ELEVATION ℄ OF APERTURE	522.46	529.09
ELEVATION OF FOUNDATION OF UNIT NEAREST RUNWAY	520.80	526.86
ELEVATION OF FOUNDATION OF UNIT FARTHEST FROM RUNWAY	519.68	526.62

* THE VISUAL GLIDE PATH ANGLE IS THE CENTER OF THE ON COURSE ZONE AND IS MEASURED FROM THE HORIZONTAL

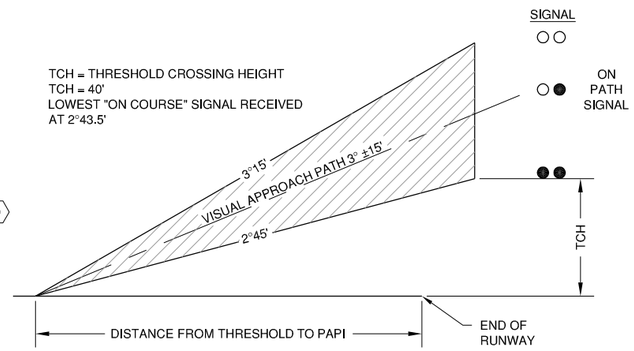




PAPI PCU DETAILS

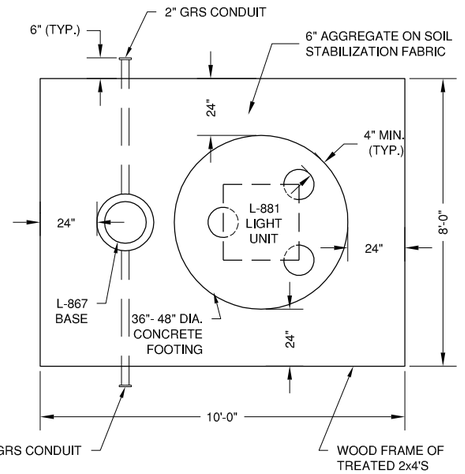
PAPI PCU PLAN AND ELEVATION NOTES

1. HEAVY DUTY FUSIBLE DISCONNECT, 600VAC, 30A, NEMA 3R. SQUARE D H361AWK OR EQUAL, WITH TWO 15A FUSES.
2. 208V PAPI POWER & CONTROL UNIT, WITH PHOTOCELL.
3. 2" GALVANIZED EMT LEGS WITH TOPS CAPPED.
4. FRANGIBLE COUPLINGS & FLOOR FLANGES. ANCHOR TO CONCRETE FOUNDATION.
5. 2" GRS CONDUIT WITH PAPI LIGHT HOUSING POWER & PAPI TILT CONTROL CABLES, PER PAPI MANUFACTURER.
6. CONDUIT AND WIRING TO VAULT AS FOLLOWS:
   PAPI 18: TWO #4 TYPE USE, ONE #8 GND IN 1" UNIT DUCT
   PAPI 36: TWO #2 TYPE USE, ONE #8 GND IN 1-1/4" UNIT DUCT
7. 1 5/8 X 1 5/8 GALVANIZED STRUT.
8. TWO #12 THWN, ONE #12 GND IN 3/4" CONDUIT, TO PAPI POWER & CONTROL UNIT.
9. CONCRETE FOOTING, 36" DIAMETER X 48" DEEP (MIN.). SEE PAPI INSTALLATION FOR REBAR AND WIRE MESH INFO.
10. 3/4" DIA. BY 10 FT. LONG COPPER CLAD GROUND ROD WITH #6 SOLID BARE COPPER GROUND CABLE ATTACHED BY EXOTHERMIC WELDING. OTHER END OF CABLE TERMINATES ON GROUND LUG IN DISCONNECT.

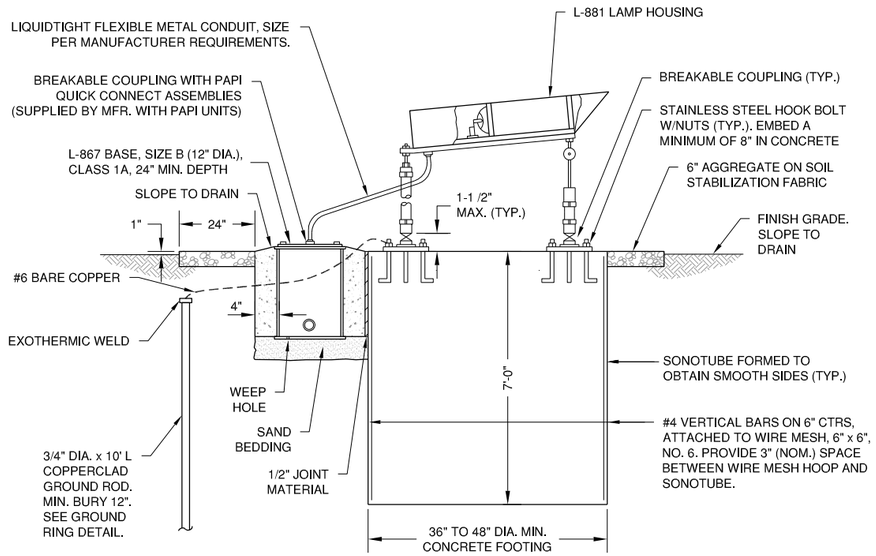


RUNWAY TYPICAL PROFILE
N.T.S.

PAPI -L-881 (2 BOX)



PAPI LIGHT UNIT PLAN
N.T.S.



PAPI LIGHT UNIT ELEVATION
N.T.S.

FOUNDATIONS:
FOUNDATIONS FOR MOUNTING LIGHT BOXES SHALL BE MADE OF ITEM 610 CONCRETE. ALL LIGHT BOXES SHALL BE FRANGIBLY MOUNTED TO THE FOUNDATION.

AZIMUTHAL AIMING:
EACH LIGHT UNIT SHALL BE AIMED OUTWARD INTO THE APPROACH ZONE ON A LINE PARALLEL TO THE RUNWAY CENTERLINE WITHIN A TOLERANCE OF ±1/2 DEGREE.

MOUNTING HEIGHT TOLERANCES:
THE BEAM CENTERS OF ALL LIGHT UNITS SHALL BE WITHIN ±1 INCH OF A HORIZONTAL PLANE AT THE ELEVATION GIVEN IN THE TABLE.

TOLERANCE ALONG LINE PERPENDICULAR TO RUNWAY:
THE FRONT FACE OF EACH LIGHT UNIT IN A BAR SHALL BE LOCATED ON A LINE PERPENDICULAR TO THE RUNWAY CENTERLINE WITHIN ±6 INCHES.

LATERAL SPACING:
THE DIFFERENCE IN LATERAL SPACING BETWEEN LIGHT UNITS SHALL NOT EXCEED 1'-0".

FILE: ELECTRICAL DETAILS 4.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:22 PM

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REVISIONS

NUMBER	BY	DATE

0 1 2
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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
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CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

PAPI DETAILS

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 18 OF 30 SHEETS

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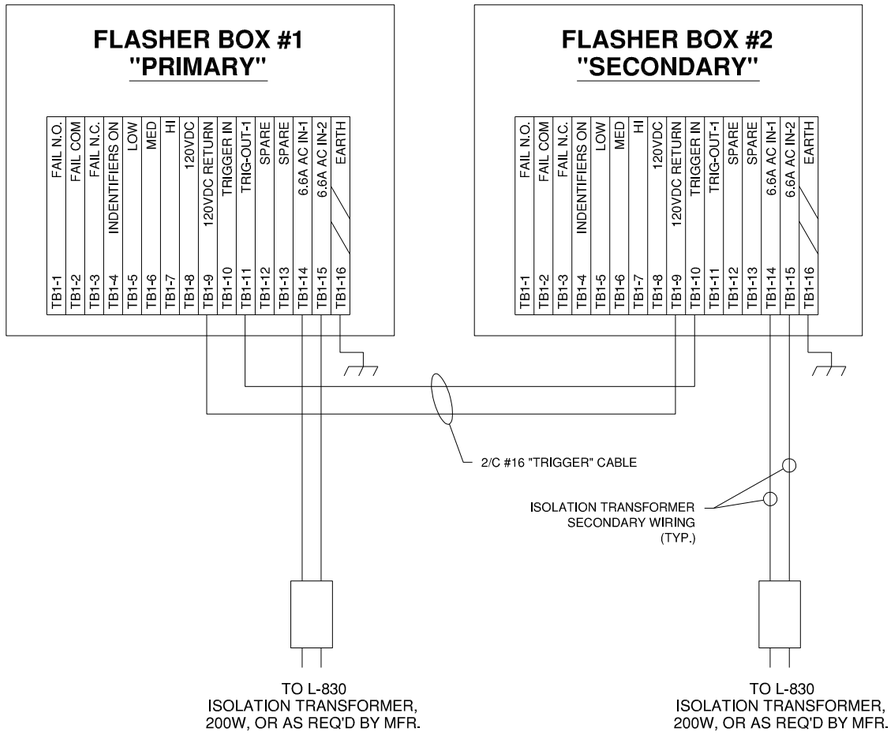

REIL WIRING NOTE

REIL WIRING SHOWN IS BASED ON ONE MANUFACTURER. REQUIRED REIL WIRING FROM ANOTHER REIL MANUFACTURER MAY VARY FROM WIRING SHOWN. CONTRACTOR SHALL OBTAIN REIL WIRING DIAGRAM FROM MANUFACTURER OF REIL TO BE INSTALLED AND VERIFY REIL WIRING PRIOR TO INSTALLATION OF WIRING. INCLUDE WIRING DIAGRAM WITH REIL SUBMITTAL.

REIL EXTERNAL WIRING DIAGRAM

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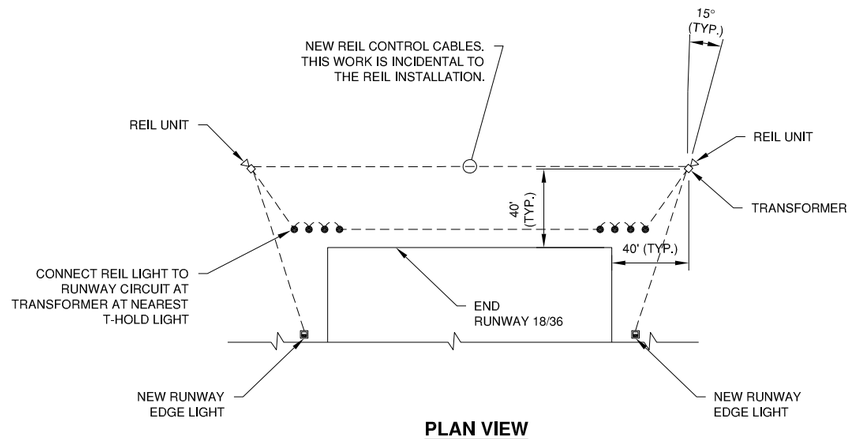
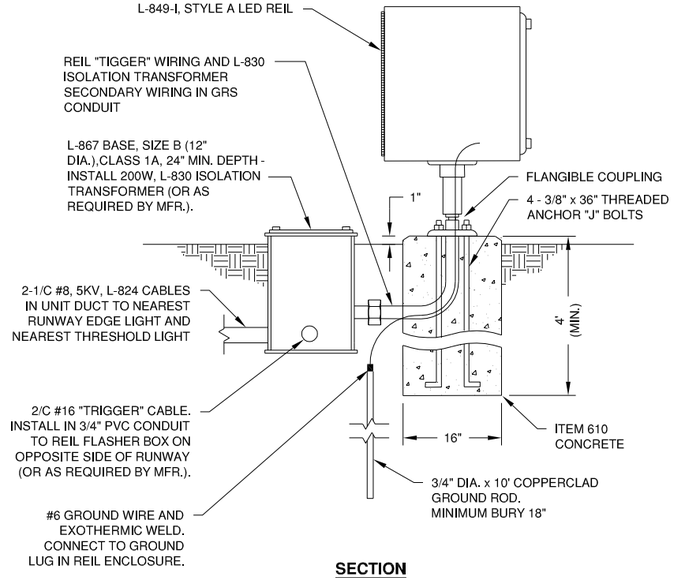


PLAN VIEW

N.T.S.



SECTION

REIL DETAILS

N.T.S.

NOTES

1. ORIENT THE BEAM AXIS OF AN UN-BAFFLED REIL UNIT 15 DEGREES OUTWARD FROM A LINE PARALLEL TO THE RUNWAY AND INCLINED AT AN ANGLE 10 DEGREES ABOVE THE HORIZONTAL (AS SHOWN).

   IF THIS STANDARD SETTING IS OPERATIONALLY OBJECTIONABLE, PROVIDE OPTICAL BAFFLES (PER THE MANUFACTURER'S INSTRUCTIONS) AND ORIENT THE BEAM AXIS OF THE UNIT 10 DEGREES OUTWARD FROM A LINE PARALLEL TO THE RUNWAY CENTERLINE AND INCLINED AT AN ANGLE OF 3 DEGREES ABOVE THE HORIZONTAL. THIS SHALL BE INCIDENTAL TO THE PROJECT WORK.

2. THE OPTIMUM LOCATION OF THE LIGHTS IS 40 FT. FROM THE RUNWAY EDGE AND IN LINE WITH THE EXISTING RUNWAY THRESHOLD LIGHTS (AS SHOWN).

3. STENCIL HORIZONTAL AND VERTICAL AIMING ANGLES ON EACH REIL FLASH HEAD OR EQUIPMENT ENCLOSURE. THE NUMERALS MUST BE BLACK AND ONE INCH (1") MINIMUM HEIGHT.

FILE: LED REIL DETAILS.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:23 PM

CE032

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LED REIL DETAILS

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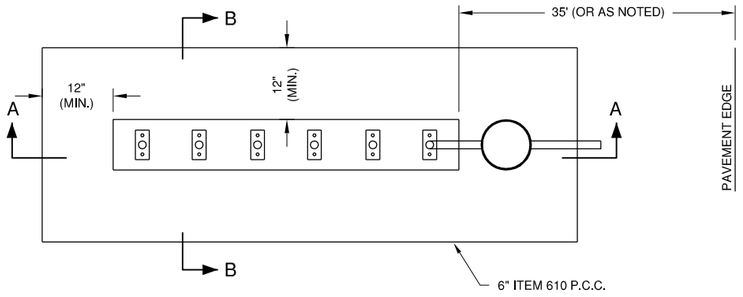


PLAN VIEW
N.T.S.

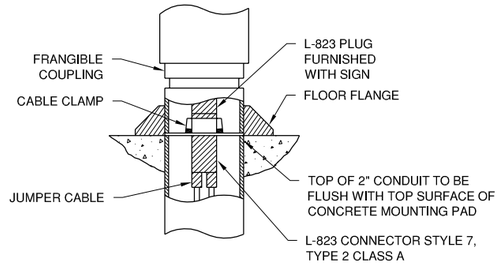
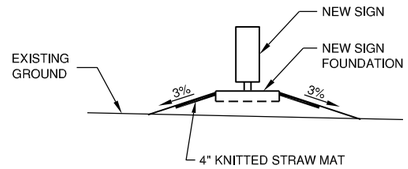


FIGURE 1 - ELECTRICAL CONNECTION DETAIL
N.T.S.

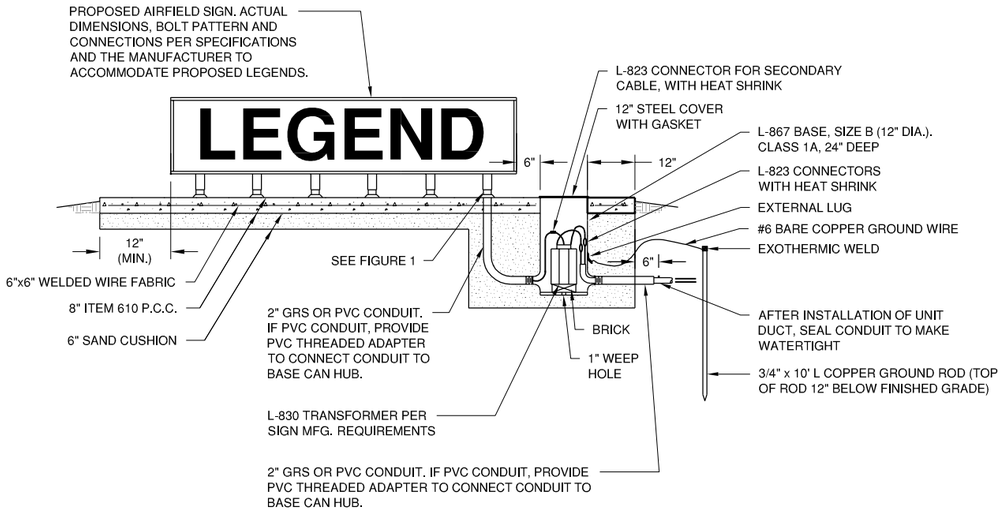
NOTES:

1. ESTIMATED 1 C.Y. OF EMBANKMENT MAY BE REQUIRED TO CONSTRUCT SIGN BASE FOUNDATION. COSTS TO CONSTRUCT SHALL BE INCIDENTAL TO SIGN PAY ITEM.
2. 4" OF KNITTED STRAW MAT SHALL BE PLACED AROUND THE PROTECTION APRON, COST FOR MAT SHALL BE INCIDENTAL TO SIGN PAY ITEM.



SECTION C-C

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

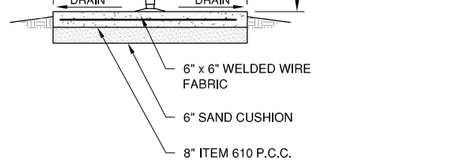


SECTION A-A
N.T.S.

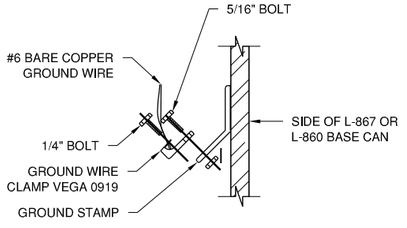
L-858Y GUIDANCE - BLACK LEGEND ON YELLOW BACKGROUND
L-858L LOCATION - YELLOW LEGEND AND BORDER ON A BLACK BACKGROUND
L-858R MANDATORY - WHITE LEGEND ON A RED BACKGROUND

AIRFIELD SIGN NOTES

1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
3. SIGNS SHALL BE SIZE 2, STYLE 2, CLASS 2.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH NEW LEGENDS FOR APPROVAL PRIOR TO MANUFACTURING SIGN.
5. PROVIDE 3 FEET OF CABLE SLACK IN BASE CAN.



SECTION B-B
N.T.S.



FACTORY GROUND LUG DETAIL
N.T.S.

FILE: ELECTRICAL DETAILS 2.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:23 PM

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

AIRFIELD SIGN DETAILS

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

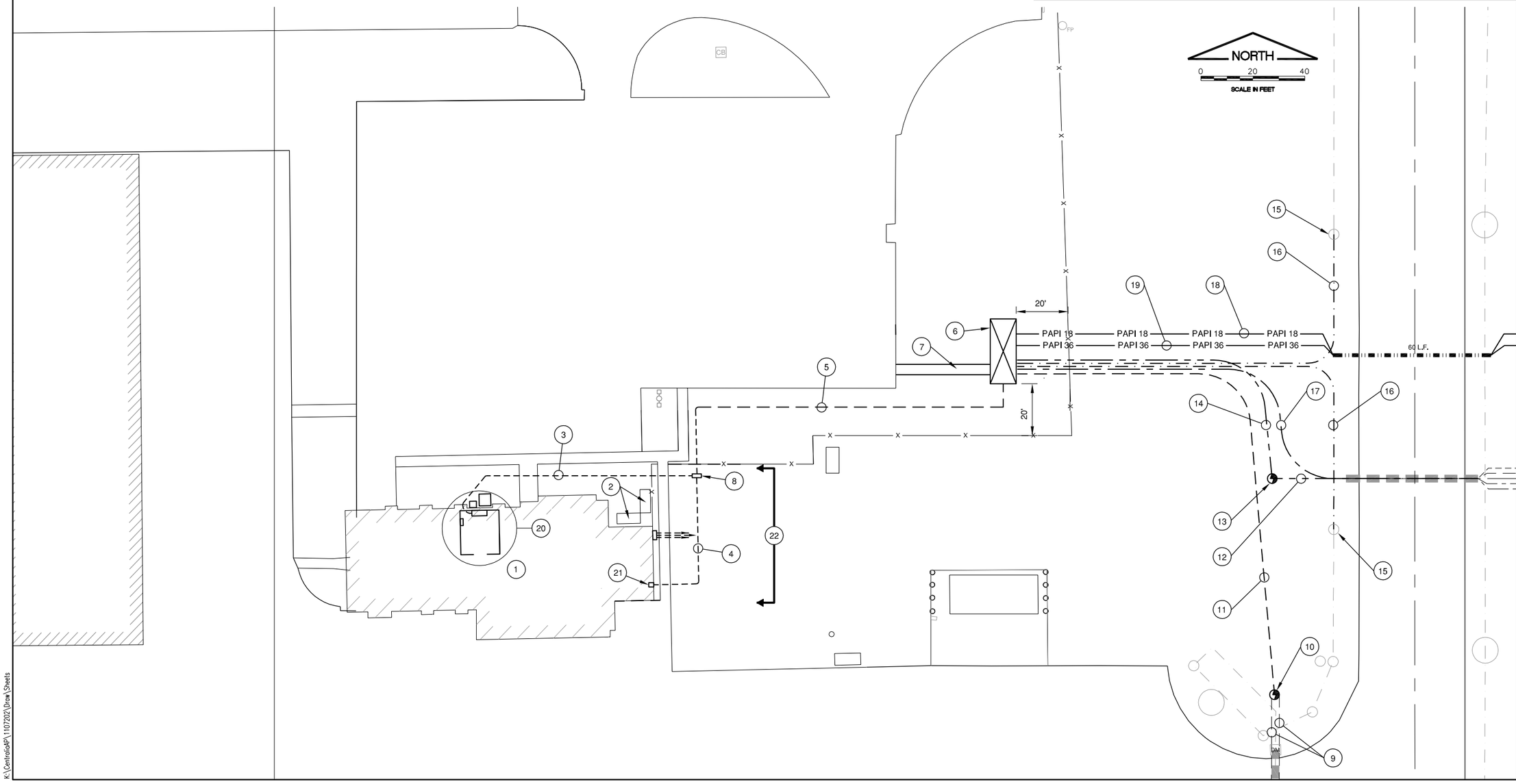
SHEET 20 OF 30 SHEETS

K:\Centralia\AP\1107202\Draw\Sheets

1. EXISTING TERMINAL BUILDING. FOR INFORMATION ON REMOVAL OF EXISTING ITEMS, EQUIPMENT, CONDUIT AND WIRING IN THIS BUILDING, SEE TERMINAL BLDG ELECTRICAL 1 SHEET. FOR INFORMATION ON NEW ITEMS, EQUIPMENT, CONDUIT AND WIRING IN THIS BUILDING, SEE TERMINAL BLDG ELECTRICAL 2 SHEET.
2. EXISTING AIRFIELD LIGHTING VAULT. FOR INFORMATION ON REMOVAL OF EXISTING ITEMS, EQUIPMENT, CONDUIT AND WIRING, SEE TERMINAL BLDG ELECTRICAL 1 SHEET.
3. NEW 300A, 208Y/120V SERVICE TO NEW AIRFIELD LIGHTING VAULT; TWO #1/0 PER PHASE, TWO #1/0 NEUTRAL, TWO #4 GROUND IN TWO 2" PVC CONDUITS.
4. NEW L-821 PANEL CONTROL WIRING IN 3" PVC CONDUIT TO L-821 RELAY PANEL IN NEW VAULT: FOUR 5/C #14 (RWY & TXY CONTROL) THREE 4/C #14 (PCAL INDICATING LIGHT/SPARE TOGGLE SWITCH CONTROL), ONE 5/C #14 (SPARE), AND A #10 GROUND.
5. SEE NOTES #3 & #4, ABOVE, FOR CONTENTS.
6. NEW PRE-ENGINEERED VAULT BUILDING, 10' X 25' X 9'H, DELIVERED TO JOB SITE AND PLACED ON A CONCRETE SLAB. FOR ADDITIONAL INFORMATION ON THIS BUILDING, SEE THE SPECIFICATIONS AND VARIOUS PLAN SHEETS. DO NOT INSTALL NEW VAULT CLOSER THAN 20 FEET FROM FENCES.
7. NEW 4' WIDE, 4" THICK CONCRETE SIDEWALK ON UNDISTURBED OR COMPACTED SOIL.
8. NEW POLYMER CONCRETE HANDHOLE, OPEN-BOTTOM DESIGN, 24" X 36" X 42" DEEP, QUAZITE/HUBBELL #PG-2436-BA-42 WITH #PG-2436-HH-00-17 COVER LABELED "ELECTRICAL", OR EQUIVALENT.
9. EXISTING RUNWAY 09/27 HOMERUN CABLES.
10. CONTRACTOR SHALL FIELD LOCATE THE EXISTING RUNWAY 09/27 HOMERUN CABLES, AND SHALL CAREFULLY DIG THEM UP BY HAND. RE-ROUTE THE CABLES AS NEEDED TO A NEW L-867 SPLICE CAN. SPLICE EXISTING CABLES TO TWO NEW #8 L-824 5KV CABLES IN SPLICE CAN.
11. TWO #8 L-824 5KV CABLES IN UNIT DUCT. RUNWAY 09/27 HOMERUN.
12. EXISTING WIND CONE WIRING.
13. CONTRACTOR SHALL FIELD LOCATE THE EXISTING WIND CONE WIRING, AND SHALL CAREFULLY DIG THEM UP BY HAND. RE-ROUTE THE CABLES AS NEEDED TO A NEW L-867 SPLICE CAN. SPLICE EXISTING CABLES TO NEW POWER WIRING IN SPLICE CAN. SPLICES SHALL BE 3M TYPE 82-A, OR EQUIVALENT.
14. TWO #10 THWN, ONE #10 GROUND IN 3/4" PVC CONDUIT. WIND CONE POWER WIRING.
15. EXISTING TAXIWAY STAKE MOUNTED EDGE LIGHT. DISCONNECT EXISTING SERIES CIRCUIT WIRING BETWEEN LIGHT FIXTURES AND ABANDON IN PLACE. CONNECT NEW TAXIWAY EDGE LIGHT HOME RUN CABLES TO EDGE LIGHT ISOLATION TRANSFORMERS.
16. NEW #8 L-824 5KV CABLE IN UNIT DUCT. TAXIWAY A HOMERUN.
17. TWO #8 L-824 5KV CABLES IN UNIT DUCT. RUNWAY 18/36 HOMERUN.
18. TWO #4 TYPE USE, ONE #8 GND IN 1" UNIT DUCT. PAPI 18 208V POWER WIRING.
19. TWO #2 TYPE USE, ONE #8 GND IN 1-1/4" UNIT DUCT. PAPI 36 208V POWER WIRING.
20. EXISTING ELECTRICAL / FURNACE ROOM & UTILITY TRANSFORMER & METERING. SEE TERMINAL BLDG ELECTRICAL 1 & TERMINAL BLDG ELECTRICAL 2 SHEETS FOR WORK IN THIS AREA.
21. LOCATION OF EXISTING & NEW L-821 PANEL. SEE TERMINAL BLDG ELECTRICAL 1 SHEET & L-821 DETAILS 1 SHEET FOR ADDITIONAL INFORMATION.
22. SEE TERMINAL BLDG ELECTRICAL 2 SHEET FOR ADDITIONAL INFORMATION ON WORK IN THIS AREA.

LEGEND

	NEW STAKE MOUNTED RUNWAY EDGE LIGHT
	NEW BASE MOUNTED RUNWAY EDGE LIGHT
	NEW STAKE MOUNTED RUNWAY THRESHOLD LIGHT
	NEW BASE MOUNTED RUNWAY THRESHOLD LIGHT
	NEW AIRFIELD GUIDANCE SIGN
	NEW PAPI
	NEW REIL
	NEW SPLICE CAN
W	WHITE OMNIDIRECTIONAL LENS
W/Y	WHITE/YELLOW BIDIRECTIONAL LENS
G/R	GREEN/RED BIDIRECTIONAL LENS
	NEW 18/36 RUNWAY CIRCUIT -1/C #8 5 KV UG CABLE IN UD NEW 1836 RUNWAY HOMERUN -2/C #8 5KV UG CABLE IN UD
PAPI 18	NEW RUNWAY 18 PAPI CIRCUIT -2-1/C #4 USE, 1 #8 GND IN 1" UD
PAPI 36	NEW RUNWAY 36 PAPI CIRCUIT -2-1/C #2 USE, 1 #8 GND IN 1-1/4" UD
	NEW 4" DIRECTIONAL BORE
	EXISTING AIRFIELD DUCT
	EXISTING 9/27 RUNWAY CIRCUIT
	EXISTING TAXIWAY CIRCUIT
	EXISTING WIND CONE CIRCUIT



FILE: VAULT PLAN.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:25 PM

BASE
Baselines
BASE_PROP_ELEC
1107202-V-VF2D
LEGEND PROP LIGHT

CE032

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0 1 2
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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
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CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

VAULT AREA PLAN

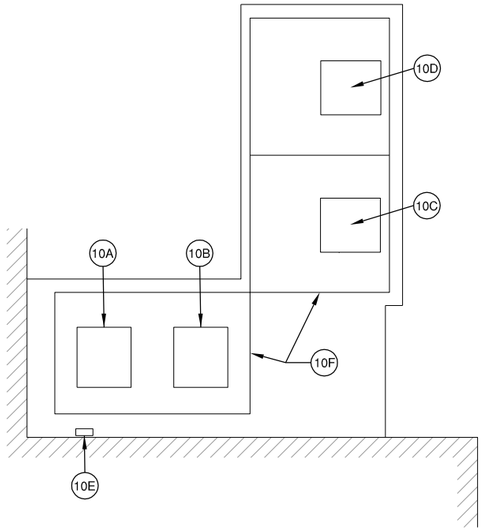
CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	WDP
DRAWN BY:	ADD, DPA
CHECKED BY:	TM
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

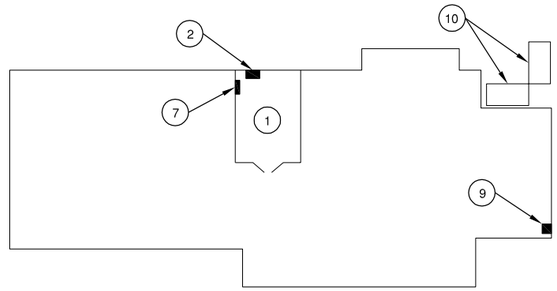
IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 21 OF 30 SHEETS

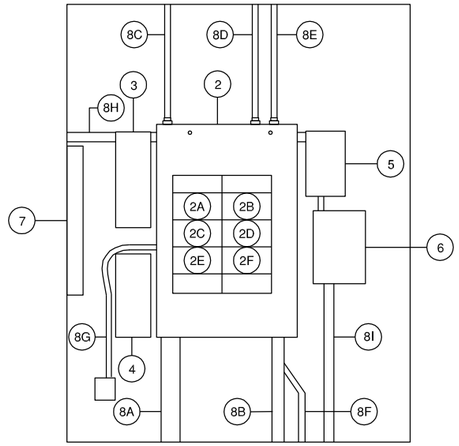
K:\Centralia\P\1107202\Draw\Sheets



EXISTING AIRFIELD LIGHTING VAULT PLAN VIEW



TERMINAL BUILDING
N.T.S.



EXISTING POWER PANEL DETAIL
N.T.S.

NOTE: ALL INFORMATION ON THIS SHEET IS FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL THOROUGHLY INVESTIGATE EXISTING CONDITIONS, EXISTING WIRING AND THE EQUIPMENT POWERED AND CONTROLLED. EXCEPT AS NOTED HEREIN, ALL EXISTING EQUIPMENT SHALL REMAIN POWERED IN TERMINAL BUILDING AT COMPLETION OF WORK.

1. TERMINAL BUILDING ELECTRICAL/FURNACE ROOM.

2. TERMINAL BLDG MAIN DISTRIBUTION PANELBOARD, FEDERAL PACIFIC, 400A, 208Y/120V, MAIN LUGS ONLY. TO BE DISCONNECTED AND REMOVED. TO BE REPLACED WITH NEW 800A MAIN DISTRIBUTION PANELBOARD.

   THIS PANELBOARD CONTAINS THE FOLLOWING FUSED DISCONNECTS, FEEDING THE FOLLOWING CIRCUITS:

   2A. TO AVIATION GAS FUEL SYSTEM LOAD CENTER MOUNTED ON EXTERIOR EAST WALL OF TERMINAL BLDG. EXISTING CIRCUIT WIRING TO BE RECONNECTED TO NEW 800A MAIN DISTRIBUTION PANELBOARD.

   2B. TO TERMINAL BLDG LIGHTING PANEL ON WEST WALL OF ELECTRIC ROOM (SEE BELOW).

   2C. TO BOTH TAXIWAY REGULATOR CIRCUIT BREAKER AND RWY 09/27 REGULATOR CIRCUIT BREAKER, MOUNTED ON LEFT SIDE OF THIS PANELBOARD (SEE BELOW).

   2D. TO TERMINAL BLDG AIR CONDITIONER ON ROOF. EXISTING CIRCUIT WIRING TO BE RECONNECTED TO NEW 800A MAIN DISTRIBUTION PANELBOARD.

   2E. TO PARKING LOT LIGHTING CONTACTOR MOUNTED ON RIGHT SIDE OF THIS PANELBOARD (SEE BELOW).

   2F. TO EXISTING RWY 18/36 REGULATOR IN EXISTING AIRFIELD LIGHTING VAULT AT NORTHEAST CORNER OF TERMINAL BLDG. REGULATOR TO BE RELOCATED TO NEW AIRFIELD LIGHTING VAULT. EXISTING WIRING TO REGULATOR AND EXPOSED CONDUIT SHALL BE REMOVED (SEE BELOW).

3. TAXIWAY REGULATOR CIRCUIT BREAKER. TO BE DISCONNECTED AND REMOVED. EXISTING WIRING TO REGULATOR AND EXPOSED CONDUIT SHALL BE REMOVED.

4. RWY 09/27 REGULATOR CIRCUIT BREAKER. TO BE DISCONNECTED AND REMOVED. EXISTING WIRING TO REGULATOR AND EXPOSED CONDUIT SHALL BE REMOVED.

5. PARKING LOT LIGHTING CONTACTOR. TO REMAIN AND BE RECONNECTED TO NEW 800A MAIN DISTRIBUTION PANELBOARD.

6. PARKING LOT LIGHTS LOAD CENTER. TO REMAIN UNDISTURBED.

7. TERMINAL BLDG LIGHTING PANEL. TO REMAIN AND BE RECONNECTED TO NEW 800A MAIN DISTRIBUTION PANELBOARD. DISCONNECT AND REMOVE EXISTING WIRING TO:
   - A. EXISTING WIND CONE
   - B. EXISTING VAULT LIGHTING
   - C. EXISTING VAULT RECEPTACLES
   - D. EXISTING L-821 PANEL (IF ANY)
   - E. EXISTING REGULATOR CONTROL WIRING
   - F. ADDITIONAL CIRCUITS WIRING AS NEEDED AS PART OF THE REMOVAL OF THE EXISTING VAULT AND EXISTING L-821 PANEL.

   NOTE: CONTRACTOR SHALL THOROUGHLY INVESTIGATE THE EXISTING CIRCUITS POWERED FROM THIS PANELBOARD. AT JOB COMPLETION, THE CONTRACTOR SHALL PROVIDE A NEW, TYPED (HANDWRITTEN IS NOT ACCEPTABLE) PANELBOARD SCHEDULE, LISTING ALL THE ITEMS AND LOCATIONS POWERED FROM THIS PANELBOARD.

8. EXISTING CONDUITS:

   8A. INCOMING SERVICE WIRING FROM UTILITY TRANSFORMER. REMOVE WIRING. REMOVE EXPOSED CONDUIT TO FLOOR AND SEAL OPENING WITH NON-SHRINK GROUT.

   8B WIRING TO TERMINAL BLDG LIGHTING PANEL. TO BE RECONNECTED TO CIRCUIT BREAKER IN NEW 800A MAIN DISTRIBUTION PANELBOARD.

   8C WIRING TO AVIATION GAS FUEL SYSTEM LOAD CENTER MOUNTED ON EXTERIOR EAST WALL OF TERMINAL BLDG. TO BE RECONNECTED TO CIRCUIT BREAKER IN NEW 800A MAIN DISTRIBUTION PANELBOARD.

   8D 120V AND 208V WIRING TO EXISTING AIRFIELD LIGHTING VAULT EQUIPMENT IN VAULT AT NORTHEAST CORNER OF TERMINAL BLDG. REMOVE WIRING. REMOVE EXPOSED CONDUIT AND SEAL OPENING WITH NON-SHRINK GROUT.

   8E WIRING TO AIR CONDITIONER ON ROOF. TO BE RECONNECTED TO CIRCUIT BREAKER IN NEW 800A MAIN DISTRIBUTION PANELBOARD.

   8F THIS WIRING IS BELIEVED TO GO TO TERMINAL BUILDING BATTERY POWERED EXIT SIGNS AT DOORS. CONTRACTOR SHALL CONFIRM, AND IF SO, THIS WIRING SHALL BE RECONNECTED TO A SPARE 15A OR 20A CIRCUIT BREAKER IN TERMINAL BUILDING LIGHTING PANEL, WITH NEW CONDUIT AND WIRING AS NEEDED.

   8G THIS WIRING IS BELIEVED TO BE ABANDONED WIRING TO A DEMOLISHED T-HANGAR. IF SO, REMOVE WIRING AND REMOVE EXPOSED CONDUIT. NOTE: ALSO REMOVE EXPOSED CONDUIT ON OUTSIDE OF BUILDING TO BELOW GRADE.

   8H 120V POWER AND CONTROL WIRING FROM LIGHTING PANEL TO EXISTING AIRFIELD LIGHTING EQUIPMENT IN VAULT AT NORTHEAST CORNER OF TERMINAL BLDG. REMOVE WIRING AND CONDUIT. RELABELED UNUSED CIRCUIT BREAKERS IN LIGHTING PANEL AS "SPARE".

   8I EXISTING WIRING AND CONDUIT TO REMAIN UNDISTURBED.

9. L-821 CONTROL PANEL. TO BE REMOVED, INCLUDING CABINET. REMOVE ALL WIRING.

10. EXISTING AIRFIELD LIGHTING VAULT. DISCONNECT THE FOLLOWING:

    10A. EXISTING ABANDONED 4KW REGULATOR. THE REGULATOR SHALL BE DISPOSED OF OFFSITE UNLESS REQUESTED OTHERWISE BY THE OWNER.

    10B. EXISTING RUNWAY 18/36 REGULATOR. THE REGULATOR SHALL BE DISPOSED OF OFFSITE UNLESS REQUESTED OTHERWISE BY THE OWNER.

    10C. EXISTING TAXIWAY REGULATOR. THIS REGULATOR SHALL BE RELOCATED TO THE NEW VAULT.

    10D EXISTING RUNWAY 09/27 REGULATOR. THIS REGULATOR SHALL BE RELOCATED TO THE NEW VAULT.

    10E EXISTING PHOTOCELL AND CONTROLS ON TERMINAL BUILDING WALL. ITEMS NOT REQUESTED TO BE TURNED OVER TO THE OWNER SHALL BE DISPOSED OF OFFSITE.

    10F. AFTER THE REGULATORS HAVE BEEN REMOVED, ALL REMAINING EQUIPMENT, MATERIALS, CONDUITS AND WIRING INSIDE THE METAL TRANSCLOSURES SHALL BE REMOVED AND DISPOSED OF OFFSITE. ANY CONDUIT PENETRATIONS SHALL BE REMOVED TO FLUSH WITH THE CONCRETE PAD FLOORS, AND SHALL BE FILLED WITH NON-SHRINK GROUT, FLUSH WITH FLOOR.

AS REQUESTED BY THE OWNER, THE TRANSCLOSURES SHALL CLEANED AND LEFT EMPTY, FOR USE BY THE OWNER. THIS WORK SHALL BE AS DIRECTED BY THE OWNER AND THE R.E. CONTRACTOR SHALL COORDINATE THIS WORK.

FILE: EXISTING VAULT DETAILS.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:26 PM

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

TERMINAL BUILDING ELECTRICAL 1

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	WDP
DRAWN BY:	ADD, DPA
CHECKED BY:	TM
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 22 OF 30 SHEETS

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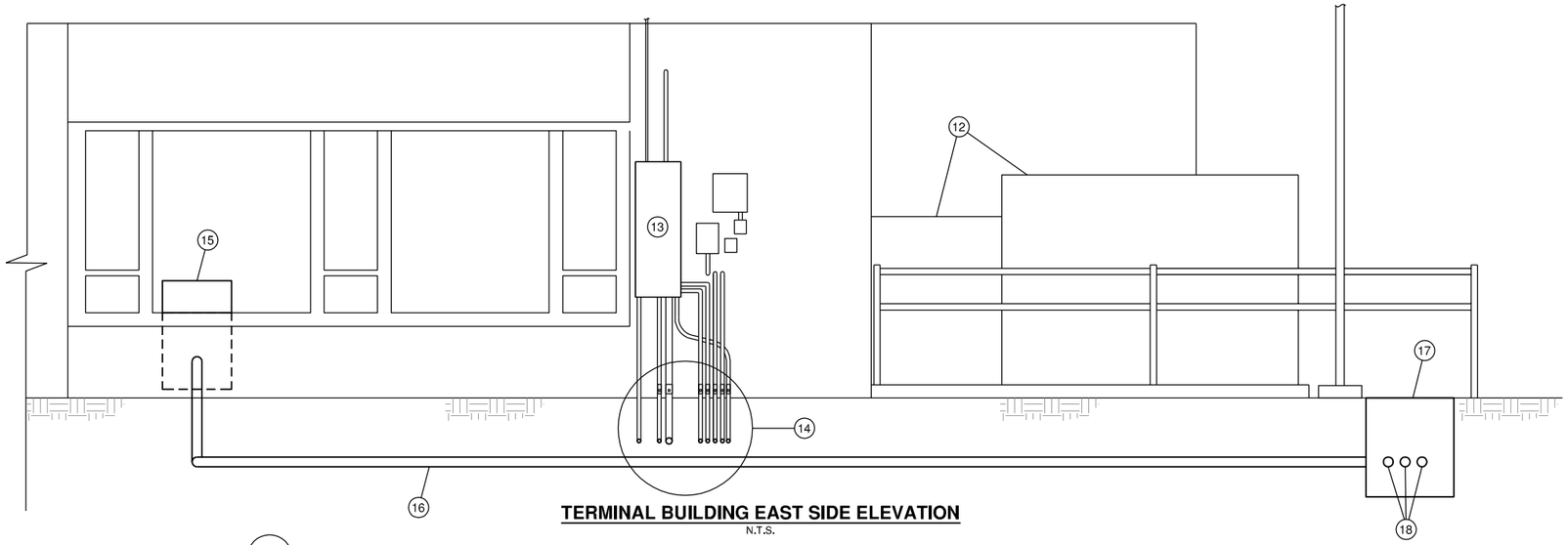
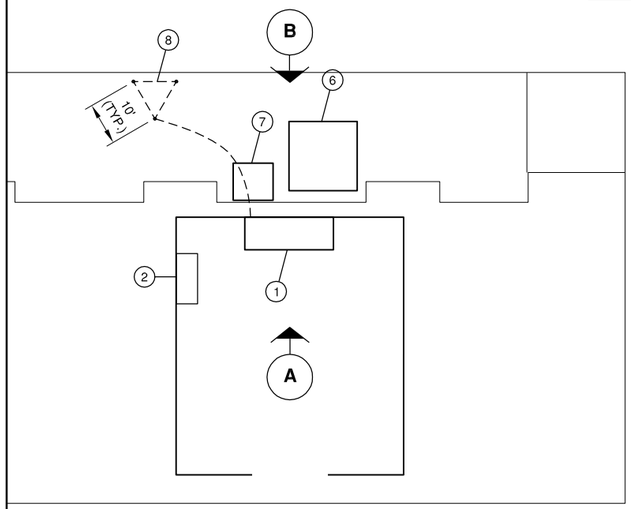


TERMINAL BUILDING EAST SIDE ELEVATION
N.T.S.

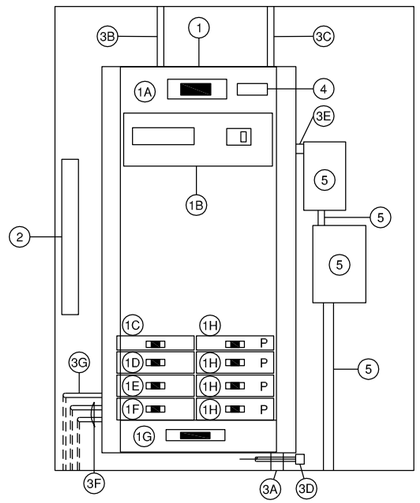
⚠ WARNING

Maximum available fault current:
23,260 Symmetrical RMS Amperes
Date: 04/25/14

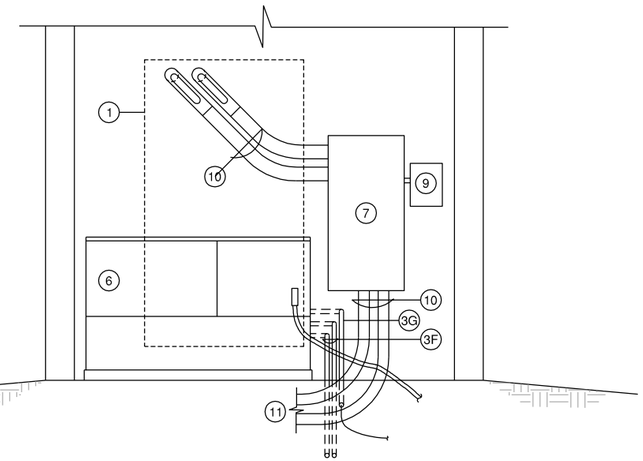
MAXIMUM FAULT CURRENT WARNING LABEL
NTS



ELECTRICAL / FURNANCE ROOM
N.T.S.



A ELECTRICAL / FURNACE ROOM ELEVATION
N.T.S.



B UTILITY SERVICE ELEVATION
N.T.S.

1. NEW MAIN DISTRIBUTION PANELBOARD, 800A, 208Y/120V, 3 PHASE, 4 WIRE, EATON, CUTLER-HAMMER, OR EQUIVALENT. PANELBOARD SHALL BE UL LISTED AND LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT. PROVIDE AN ENGRAVED NAMEPLATE READING: "800A MAIN PANEL, 208Y/120V, 3P, 4W". PROVIDE THE FOLLOWING AS A MINIMUM:
   - 1A 800A, 3P MAIN CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "MAIN BREAKER".
   - 1B SURGE PROTECTIVE DEVICE, MINIMUM 240 KA PER PHASE, 120 KA PER MODE, WITH SURGE COUNTER.
   - 1C 60A, 2P CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "PARKING LOT LIGHTS".
   - 1D 100A, 3P CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "TERMINAL BLDG LIGHTING PANEL".
   - 1E 100A, 3P CIRCUIT BREAKER TO FUEL DISPENSER PANELBOARD ON EAST WALL OF TERMINAL BLDG. PROVIDE NAMEPLATE READING "FUEL DISPENSER PANELBOARD".
   - 1F 100A, 3P CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "TERMINAL BLDG AIR CONDITIONER".
   - 1G 300A, 3P CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "AIRFIELD LIGHTING VAULT".
   - 1H SPACE FOR FUTURE CIRCUIT BREAKER.
2. EXISTING TERMINAL BLDG LIGHTING PANEL. CONNECT TO NEW MAIN PANEL AS INDICATED BELOW. PROVIDE NEW TYPED PANELBOARD SCHEDULE.
3. EXISTING AND PROPOSED CONDUITS AND WIRING AS FOLLOWS:
   - 3A EXISTING WIRING TO TERMINAL BLDG LIGHTING PANEL. RECONNECT TO CIRCUIT BREAKER 1D IN NEW 800A MAIN DISTRIBUTION PANELBOARD.
   - 3B EXISTING WIRING TO AVIATION GAS FUEL SYSTEM LOAD CENTER MOUNTED ON EXTERIOR EAST WALL OF TERMINAL BLDG. RECONNECT TO CIRCUIT BREAKER 1E IN NEW 800A MAIN DISTRIBUTION PANELBOARD.
   - 3C EXISTING WIRING TO AIR CONDITIONER ON ROOF. RECONNECT TO CIRCUIT BREAKER 1F IN NEW 800A MAIN DISTRIBUTION PANELBOARD.
   - 3D THIS WIRING IS BELIEVED TO GO TO TERMINAL BUILDING BATTERY POWERED EXIT SIGNS AT DOORS. CONTRACTOR SHALL CONFIRM , AND IF SO, THIS WIRING SHALL BE RECONNECTED TO A SPARE 15A OR 20A CIRCUIT BREAKER IN TERMINAL BUILDING LIGHTING PANEL. INSTALL NEW NEMA 1 JUNCTION BOX AND NEW CONDUIT AND #12 THWN POWER AND GROUND WIRING AS NEEDED. REVISE LIGHTING PANEL SCHEDULE TO READ "EXIT SIGNS".
   - 3E INSTALL NEW TWO #6 THWN, ONE #8 GROUND FROM PARKING LOT CONTACTOR TO CIRCUIT BREAKER 1C IN NEW 800A MAIN DISTRIBUTION PANELBOARD.
   - 3F TWO 2" CONDUITS, EACH WITH THREE #1/0 THWN, ONE #1/0 NEUTRAL, ONE #4 GROUND, TO NEW AIRFIELD LIGHTING VAULT.
   - 3G 1" PVC CONDUIT WITH #2/0 BARE COPPER GROUND TO TRIANGULAR GROUND FIELD.
4. MAXIMUM FAULT CURRENT WARNING LABEL. SEE DETAIL, THIS SHEET.
5. PARKING LOT LIGHTING CONTACTOR, LOAD CENTER, CONDUIT AND WIRING TO REMAIN UNDISTURBED.
6. EXISTING PAD MOUNT UTILITY TRANSFORMER, 150 KVA, 208Y/120V, 3 PHASE, 4 WIRE.
7. NEW CONTRACTOR FURNISHED AND INSTALLED, UTILITY-APPROVED C.T. CABINET (AMEREN CT-84-AMR, ERICKSON 283-2, CONTRACTOR TO VERIFY), 24"W X 48"H X 8"D. MOUNT TO EXTERIOR WALL IN COMPLIANCE WITH UTILITY REQUIREMENTS.
8. #2/0 BARE COPPER TRIANGULAR GROUND FIELD, 10' MINIMUM EACH SIDE, MINIMUM BURY 12". EACH CORNER SHALL TERMINATE IN 3/4" DIAMETER BY 10' LONG COPERCLAD GROUND ROD. CONNECT ONE CORNER OF GROUND FIELD TO NEUTRAL BAR IN NEW MAIN DISTRIBUTION PANELBOARD WITH #2/0 BARE COPPER WIRE IN 1" PVC CONDUIT.
9. NEW CONTRACTOR FURNISHED AND INSTALLED, UTILITY-APPROVED METER BASE.
10. SERVICE ENTRANCE, TWO 4" CONDUITS, EACH WITH THREE 600 MCM THWN, ONE 600 MCM THWN NEUTRAL. CORE DRILL THROUGH BRICK WALL OF TERMINAL BLDG AND SEAL OPENINGS AFTER CONDUIT INSTALLATION TO MAKE WATER TIGHT.
11. CONTRACTOR WORK AS FOLLOWS. ALL WORK SHALL BE IN COMPLIANCE WITH UTILITY COMPANY REQUIREMENTS.
    - 11A IF UTILITY TRANSFORMER IS ON A PAD, THE CONTRACTOR SHALL HAND DIG AND INSTALL 4" CONDUITS UNDER PAD AND UP INTO LOW VOLTAGE OPENING OF PAD. TERMINATE CONDUCTORS AND TAG FOR CONNECTION TO TRANSFORMER BY UTILITY.
    - 11B IF UTILITY TRANSFORMER IN ON A TRANSFORMER VAULT THE CONTRACTOR SHALL CORE DRILL THROUGH WALLS FOR CONDUITS. TERMINATE CONDUCTORS AND TAG FOR CONNECTION TO TRANSFORMER BY UTILITY.
12. EXISTING AIRFIELD LIGHTING VAULT TRANSCLOSURES. SEE TERMINAL BLDG ELECTRICAL 1 SHEET FOR ADDITIONAL INFORMATION.
13. EXISTING FUEL DISPENSER PANELBOARD.
14. EXISTING CONDUITS TO FUEL DISPENSING EQUIPMENT. NOTE THAT THIS WIRING WAS INSTALLED IN COMPLIANCE WITH NEC REQUIREMENTS FOR CLASS 1, DIVISION 1 & 2 CONDITIONS. THIS WIRING SHALL NOT BE DISTURBED. THE CONTRACTOR SHALL HAND DIG IN THIS AREA FOR INSTALLATION OF 3" CONDUIT FOR L-821 CONTROL PANEL WIRING. ANY DAMAGE TO THESE EXISTING CONDUITS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS DIRECTED BY THE R.E.
15. LOCATION OF BOTH THE EXISTING L-821 CONTROL PANEL AND CABINET AND THE NEW L-821 CONTROL PANEL AND CABINET. REMOVE OLD L-821 PANEL AND INSTALL NEW L-821 PANEL.
16. NEW L-821 PANEL CONTROL WIRING IN 3" PVC CONDUIT TO L-821 RELAY PANEL IN NEW VAULT: FOUR 5/C #14 (RWY & TXY CONTROL) THREE 4/C #14 (PCAL INDICATING LIGHT/SPARE TOGGLE SWITCH CONTROL), ONE 5/C #14 (SPARE), 600V, BELDEN, OR EQUIVALENT. CORE DRILL THROUGH BUILDING WALL AND SEAL OPENINGS AFTER CONDUIT INSTALLATION TO MAKE WATER TIGHT.
17. NEW POLYMER CONCRETE HANDHOLE, OPEN-BOTTOM DESIGN, 24" X 36" X 42" DEEP, QUAZITE/HUBBELL #PG-2436-BA-42 WITH #PG-2436-HH-00-17 COVER LABELED "ELECTRICAL", OR EQUIVALENT.
18. CONDUIT AND WIRING TO NEW AIRFIELD LIGHTING VAULT. SEE VAULT AREA PLAN FOR ADDITIONAL INFORMATION.

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FILE: TERMINAL BUILDING ELECTRICAL 2.dwk
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:27 PM

BASE
BASE_PROP_ELEC

CE032

REVISIONS

NUMBER	BY	DATE

0 1 2
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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

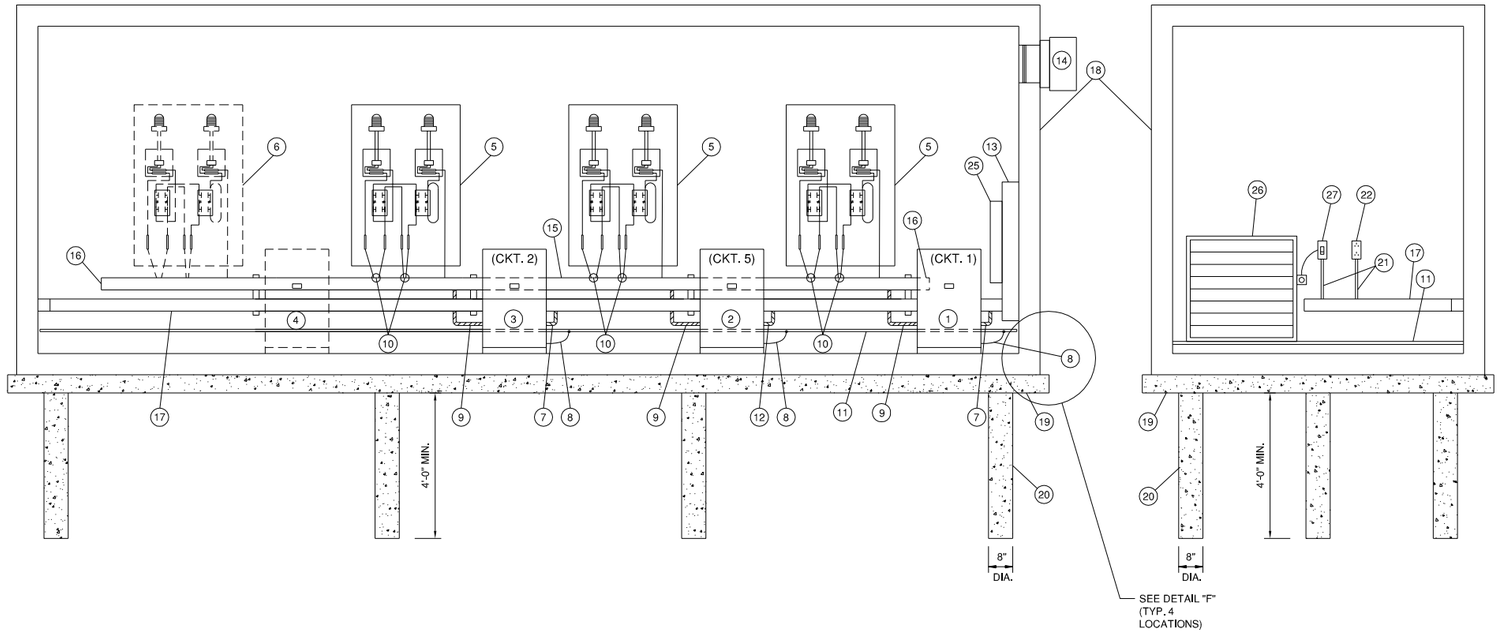
TERMINAL BUILDING ELECTRICAL 2

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	WDP
DRAWN BY:	ADD, DPA
CHECKED BY:	TM
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 23 OF 30 SHEETS

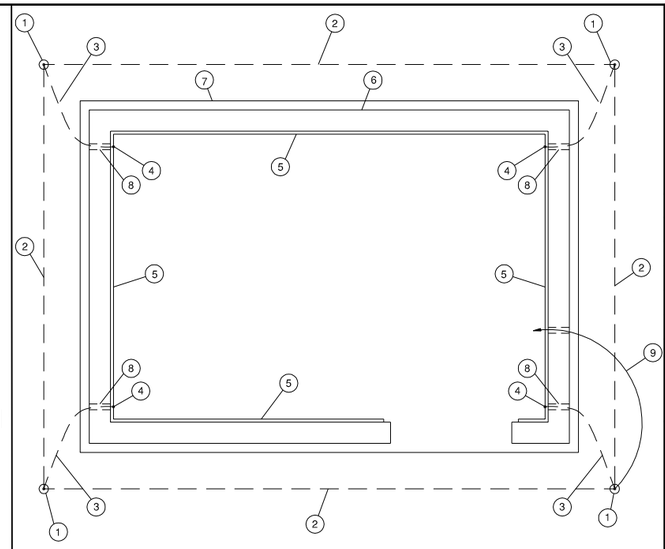


SECTION A
N.T.S.

SECTION B
N.T.S.

○ VAULT DETAILS 1 NOTES

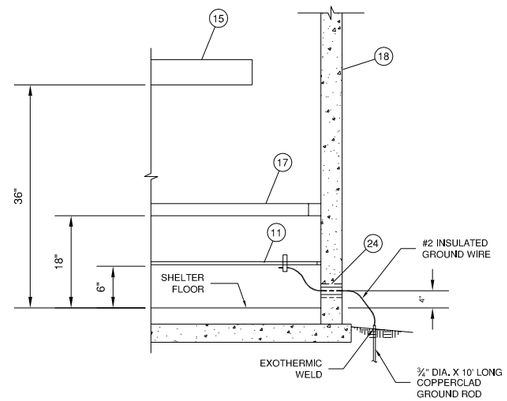
1. NEW 7.5 KW REGULATOR, 208V INPUT, 3-STEP 6.6A OUTPUT. PROVIDE ENGRAVED NAMEPLATE READING "RUNWAY 18/36".
2. RELOCATED 10 KW REGULATOR, 208V INPUT, 3-STEP 6.6A OUTPUT. PROVIDE ENGRAVED NAMEPLATE READING "TAXIWAY A ".
3. RELOCATED 7.5 KW REGULATOR, 208V INPUT, 3-STEP 6.6A OUTPUT. PROVIDE ENGRAVED NAMEPLATE READING "RUNWAY 09/27".
4. SPACE FOR FUTURE 10 KW REGULATOR.
5. REGULATOR INDICATING LIGHTS ASSEMBLY. FOR ADDITIONAL INFORMATION, SEE REGULATOR INDICATING LIGHT DETAILS SHEET.
6. SPACE FOR FUTURE REGULATOR INDICATING LIGHTS ASSEMBLY.
7. TWO #4 THWN (208V TO REGULATOR), ONE 8 GND IN 1" FLEXIBLE METALLIC CONDUIT.
8. #6 INSULATED GROUND WIRE FROM REGULATOR. CLAMP TO GROUND BUS.
9. 2-1/C #8, L-824, TYPE C, 5 KV CABLES IN 1" FLEXIBLE METALLIC CONDUIT. ROUTE TO INDICATING LIGHT EQUIPMENT.
10. 2-1/C #8, L-824, TYPE C, 5 KV CABLES (ONE SET TO REGULATOR, ONE SET TO EDGE LIGHTS). WHERE CABLES ENTER TOP OF HIGH VOLTAGE WIREWAY, CONTRACTOR SHALL INSTALL GROMMETS TO SEAL AROUND CABLES.
11. 1/8" x 3/4" COPPER GROUND BUS, ALL AROUND INSIDE OF VAULT. STAND-OFF MOUNT A MINIMUM OF 1/4" FROM WALL.
12. TWO #2 THWN (208V TO REGULATOR), ONE 8 GND IN 1" FLEXIBLE METALLIC CONDUIT.
13. POWER DISTRIBUTION PANELBOARD, 30-POLE, 400A, 208Y/120V, 3-PHASE, 4-WIRE, WITH 300A, 3P MAIN CIRCUIT BREAKER, SQUARE D NQ, OR EQUIVALENT.
14. EXHAUST FAN, GREENHECK MODEL CWB-300-7, 120V, 3/4 HP, 6,200 CFM, WITH MOTORIZED BACKDRAFT DAMPER AND MOTOR STARTER MS1P-1, OR EQUIVALENT.
15. 4"x4" NEMA 1 HIGH VOLTAGE WIREWAY. INSTALL A MINIMUM OF TWO ADHESIVE WARNING LABELS ON HINGED DOOR, READING "CAUTION: HIGH VOLTAGE".
16. END OF HIGH VOLTAGE WIREWAY.
17. 4"x4" LOW VOLTAGE WIREWAY.
18. PRE-FABRICATED CONCRETE EQUIPMENT SHELTER, 25'x10'x9'H. SEE SPECIFICATIONS. PROVIDE WARNING SIGN ON DOOR READING "CAUTION: HIGH VOLTAGE".
19. STEEL REINFORCED CONCRETE VAULT PAD.
20. REINFORCED CONCRETE VAULT PAD FOOTINGS, TYPICAL OF 10.
21. TWO #12 THWN, ONE #12 GROUND IN 3/4" CONDUIT.
22. GFCI RECEPTACLE.
23. EXHAUST FAN THERMOSTAT, LINE VOLTAGE, HONEYWELL T6051A WITH HONEYWELL Q651A1009 AUTO-OFF-ON SUBBASE. PROVIDE ENGRAVED NAMEPLATE READING "EXHAUST FAN".
24. 1/2" PVC CONDUIT NIPPLE THROUGH SHELTER WALL (BY SHELTER MFR.) AFTER INSTALLATION OF #2 INSULATED GROUND WIRE, SEAL OPENING TO MAKE WATER TIGHT.
25. L-821 RELAY CABINET.
26. INTAKE LOUVER, RUSKIN ELF375DXH, 48"WX42"H, MIN. FREE AREA 7.10 SQ.FT. WITH EXTENDED SILL, BIRD SCREEN, KYNAR FINISH TO MATCH SHELTER COLOR (OR AS DIRECTED BY OWNER), CD 35 MOTORIZED DAMPER (POWER-OPEN/SPRING-CLOSE), OR EQUIVALENT. NOTE: CONTRACTOR SHALL PROVIDE AN INTERIOR FILTER RACK WITH A REPLACEABLE FILTER.
27. FRACTIONAL HORSEPOWER STARTER WITH OVERLOADS SIZED FOR LOUVER MOTOR. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER.



VAULT GROUND RING KEYED PLAN
N.T.S.

○ VAULT GROUNDING & BONDING NOTES

1. 3/4" DIAMETER x 10' LONG COPPERCLAD GROUND ROD. BOND GROUND WIRES TO GROUND ROD USING EXOTHERMIC WELD, CADWELD, OR EQUIVALENT. CLAMPED CONNECTIONS SHALL NOT BE ACCEPTABLE.
2. #2/0 BARE COPPER GROUND WIRE.
3. #2 INSULATED GROUND WIRE.
4. CLAMP #2 INSULATED GROUND WIRE TO VAULT GROUND BUS.
5. VAULT GROUND BUS, 1/8"x3/4" COPPER BUS BAR. STAND-OFF MOUNT, 6" MINIMUM ABOVE VAULT FLOOR ON ALL SIDES.
6. PRE-FABRICATED EQUIPMENT SHELTER.
7. 6" THICK REINFORCED CONCRETE VAULT PAD.
8. PRE-FABRICATED EQUIPMENT SHELTER TO BE DELIVERED WITH 1/2" HOLES AT EACH CORNER AS SHOWN.
9. #2/0 BARE COPPER GROUND WIRE TO GROUND BAR OF POWER DISTRIBUTION PANEL BOARD, DELIVER WITH PROVIDED 1/2" HOLE IN EQUIPMENT SHELTER.



DETAIL "F"
N.T.S.

FILE: VAULT DETAILS 1.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:28 PM

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REIL ON RUNWAY 18/36

VAULT DETAILS 1

CMT
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SHEET 24 OF 30 SHEETS

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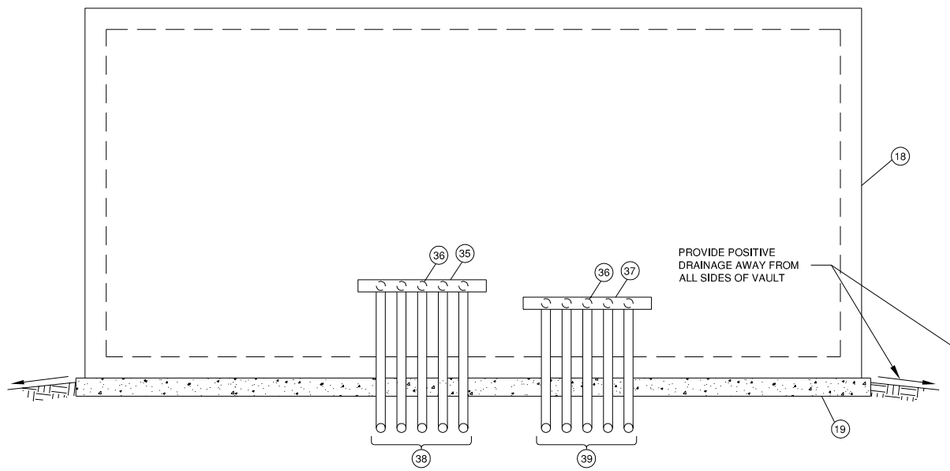
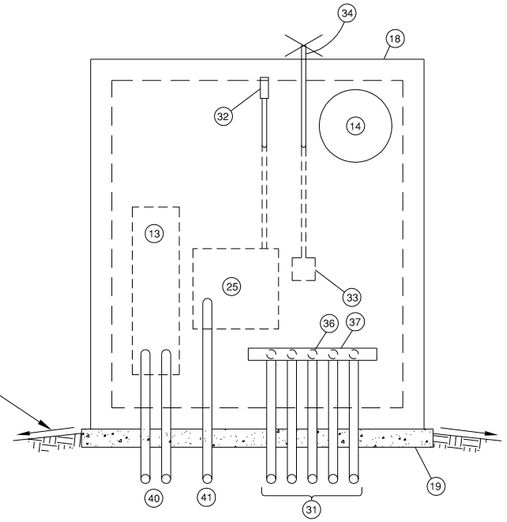


SECTION C
N.T.S.



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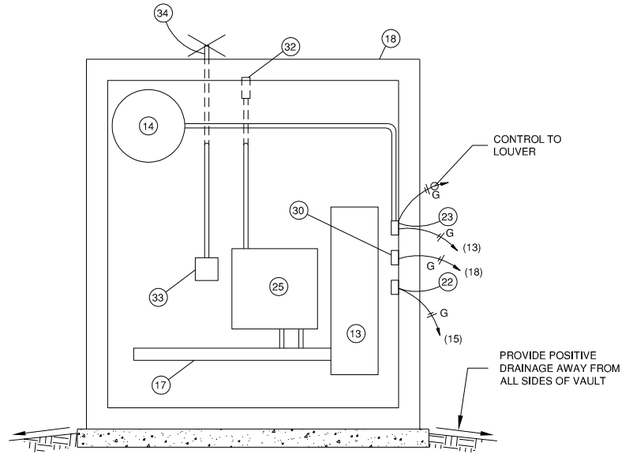

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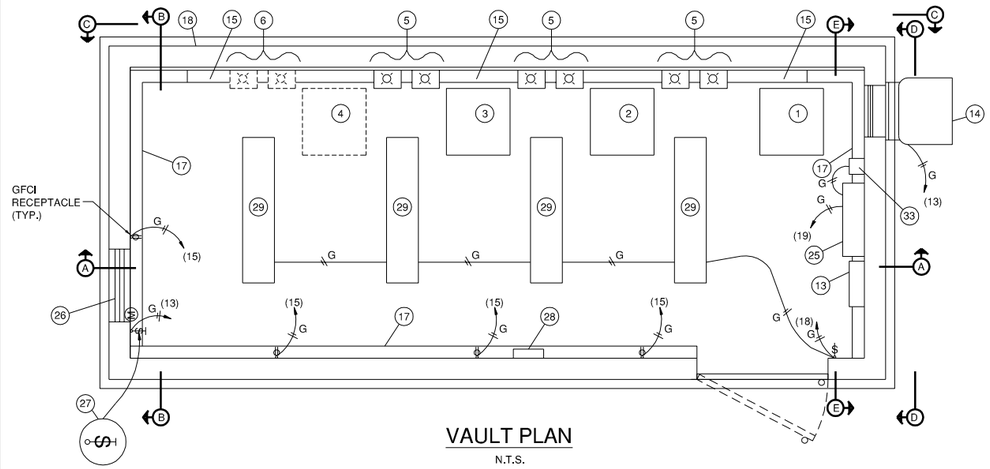
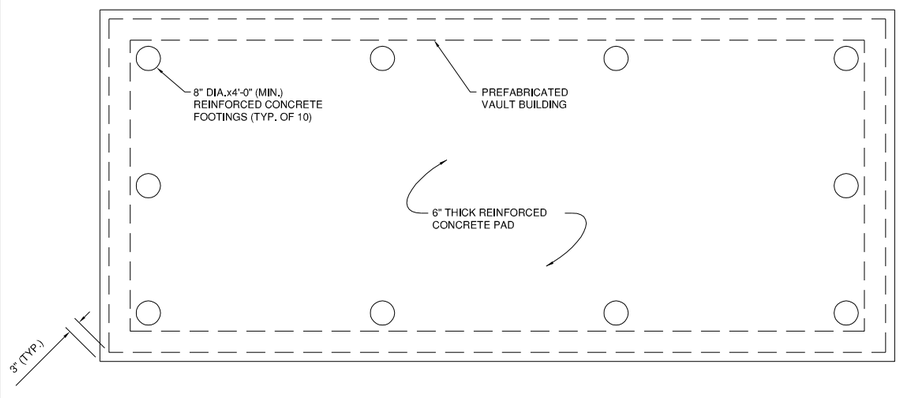


VAULT PLAN
N.T.S.



CONCRETE PAD DETAIL
N.T.S.

VAULT DETAILS 2 NOTES

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2. RELOCATED 10 KW REGULATOR, 208V INPUT, 3-STEP 6.6A OUTPUT. PROVIDE ENGRAVED NAMEPLATE READING "TAXIWAY A".
3. RELOCATED 7.5 KW REGULATOR, 208V INPUT, 3-STEP 6.6A OUTPUT. PROVIDE ENGRAVED NAMEPLATE READING "RUNWAYY. 09/27".
4. SPACE FOR FUTURE 10 KW REGULATOR.
5. REGULATOR INDICATING LIGHTS ASSEMBLY. FOR ADDITIONAL INFORMATION, SEE REGULATOR INDICATING LIGHT DETAILS SHEET.
6. SPACE FOR FUTURE REGULATOR INDICATING LIGHTS ASSEMBLY.
13. POWER DISTRIBUTION PANELBOARD, 30-POLE, 400A, 208Y/120V, 3-PHASE, 4-WIRE, WITH 300A, 3P MAIN CIRCUIT BREAKER, SQUARE D NQ, OR EQUIVALENT.
14. EXHAUST FAN, GREENHECK MODEL CWB-300-7, 120V, 3/4 HP, 6,200 CFM, WITH MOTORIZED BACKDRAFT DAMPER AND MOTOR STARTER MS1P-1, OR EQUIVALENT.
15. 4"x4" NEMA 1 HIGH VOLTAGE WIREWAY, INSTALLED ABOVE LOW VOLTAGE WIREWAY. INSTALL A MINIMUM OF TWO ADHESIVE WARNING LABELS ON HINGED DOOR, READING "CAUTION: HIGH VOLTAGE".
17. 4"x4" LOW VOLTAGE WIREWAY.
18. PRE-FABRICATED CONCRETE EQUIPMENT SHELTER, 25'x10'x9'H. SEE SPECIFICATIONS. PROVIDE WARNING SIGN ON DOOR READING "CAUTION: HIGH VOLTAGE".
19. STEEL REINFORCED CONCRETE VAULT PAD.
23. EXHAUST FAN THERMOSTAT, LINE VOLTAGE, HONEYWELL T6051A WITH HONEYWELL Q651A1009 AUTO-OFF-ON SUBBASE. PROVIDE ENGRAVED NAMEPLATE READING "EXHAUST FAN".
25. L-821 RELAY CABINET.
26. INTAKE LOUVER, RUSKIN ELF375DXH, 48"Wx42"H, MIN. FREE AREA 7.10 SQ.FT. WITH EXTENDED SILL, BIRD SCREEN, KYNAR FINISH TO MATCH SHELTER COLOR (OR AS DIRECTED BY OWNER), CD 35 MOTORIZED DAMPER (POWER-OPEN/SPRING-CLOSE), OR EQUIVALENT. NOTE: CONTRACTOR SHALL PROVIDE AN INTERIOR FILTER RACK WITH A REPLACEABLE FILTER.
27. FRACTIONAL HORSEPOWER STARTER WITH OVERLOADS SIZED FOR LOUVER MOTOR. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER.
28. ARECHITECTURAL WALL HEATER, 4.8KW, 208V, SINGLE-PHASE, INDEECO WAI SERIES, CAT. #933U04800C, WITH SURFACE MOUNT FRAME, OR EQUIVALENT. WIRING TO PANELBOARD SHALL BE TWO #10 THWN, ONE #10 GROUND, IN 3/4" CONDUIT (CKT. 9).
29. SURFACE MOUNT NON-METALLIC FLUORESCENT LIGHT FIXTURE, LITHONIA FEM4-2-54T5HO-S1-IMACL-MVOLT-GEB10IS-LP841-USPOM, OR EQUIVALENT, WITH TWO 54W T5HO FLUORESCENT BULBS.
30. TOGGLE SWITCH.
31. FIVE 2" SPARE CONDUITS. CAP AND MAKE WATER TIGHT.
32. PHOTOCELL TORK 2100, OR EQUIVALENT
33. L-854 RADIO CONTROLLER. PROVIDE ENGRAVED NAMEPLATE READING "L-854 RADIO CONTROLLER (PILOT CONTROL)".
34. L-854 RADIO CONTROLLER ANTENNA. MOUNT TO VAULT WALL, AS NEEDED FOR PROPER RECEPTION FROM ALL AIRPLANES IN THE AIR (CONTRACTOR SHALL FIELD VERIFY). THE COAXIAL CABLE SHALL EXIT THROUGH WALL THROUGH SEALED OPENING. PROVIDE DRIP LOOP IN EXTERIOR SIGNAL CABLE.
35. 6"x6" NEMA 3R HIGH VOLTAGE WIREWAY. MOUNT AT SAME HEIGHT AS INTERIOR HIGH VOLTAGE WIREWAY. INSTALL A WEATHERPROOF ADHESIVE WARNING LABEL ON HINGED DOOR READING "CAUTION: HIGH VOLTAGE".
36. 2" GRS CONDUIT NIPPLES AS NEEDED BETWEEN INTERIOR AND EXTERIOR WIREWAYS.
37. 6"x6" NEMA 3R LOW VOLTAGE WIREWAY. MOUNT AT SAME HEIGHT AS INTERIOR LOW VOLTAGE WIREWAY.
38. 3" GRS CONDUITS TO MIN. 24" BELOW GRADE AND MIN. OF 5 FEET FROM BUILDING. INSTALL THE FOLLOWING CIRCUITS:
    - TWO 1/C #8, L-824, 5KV CABLES IN UNIT DUCT (RUNWAY 18/36 EDGE LIGHTS)
    - 1/C #8, L-824, 5KV CABLE IN UNIT DUCT (RWY 18/36 TAXIWAY EDGE LIGHTS)
    - 1/C #8, L-824, 5KV CABLE IN UNIT DUCT (RWY 18/36 TAXIWAY EDGE LIGHTS)
    - TWO 1/C #8, L-824, 5KV CABLES IN UNIT DUCT (RUNWAY 09/27 EDGE LIGHTS)

    UNUSED 3" CONDUITS SHALL BE CAPPED AND MADE WATERTIGHT.
39. 3" GRS CONDUITS TO MIN. 24" BELOW GRADE AND MIN. OF 5 FEET FROM BUILDING. INSTALL THE FOLLOWING CIRCUITS:
    - TWO #4 TYPE USE, ONE #8 GND IN 1" UNIT DUCT (CKT.6). PAPI 18 208V POWER WIRING
    - TWO #2 TYPE USE, ONE #8 GND IN 1-1/4" UNIT DUCT (CKT. 14). PAPI 36 208V POWER WIRING
    - TWO #10 USE (120V, CKT. 17), ONE #10 GROUND IN UNIT DUCT TO PRIMARY WIND CONE

    UNUSED 3" GRS CONDUITS SHALL BE CAPPED AND MADE WATERTIGHT.

    NOTE:
    WHEN MAKING TRANSITIONS FROM UNIT DUCT TO 3" GRS CONDUIT, THE CONTRACTOR SHALL SEAL AROUND CABLES AT ENDS OF CONDUIT AND UNIT DUCT TO MAKE WATERTIGHT, USING "HYDROBLOCK" BY WATERGUARD TECHNOLOGY PRODUCTS, POLYWATER DUCT SEALANT FST-250 SERIES, O-Z/GEDNEY TYPE DUX WATER SEALING COMPOUND, OR EQUIVALENT.
40. TWO #1/0 THWN PER PHASE, TWO #1/0 NEUTRAL, ONE #4 GROUND IN TWO 2" PVC CONDUITS TO TERMINAL BLDG
41. FOUR 5/C #14 (RWY & TXY CONTROL), THREE 4/C #14 (PCAL INDICATING LIGHT/SPARE TOGGLE SWITCH CONTROL), ONE 5/C #14 (SPARE), 600V, BELDEN, OR EQUIVALENT, ONE #10 GROUND, TO L-821 PANEL IN TERMINAL BLDG.

FILE: VAULT DETAILS 2.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:28 PM

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

VAULT DETAILS 2

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
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DATE:	MAY 2, 2014
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SHEET 25 OF 30 SHEETS

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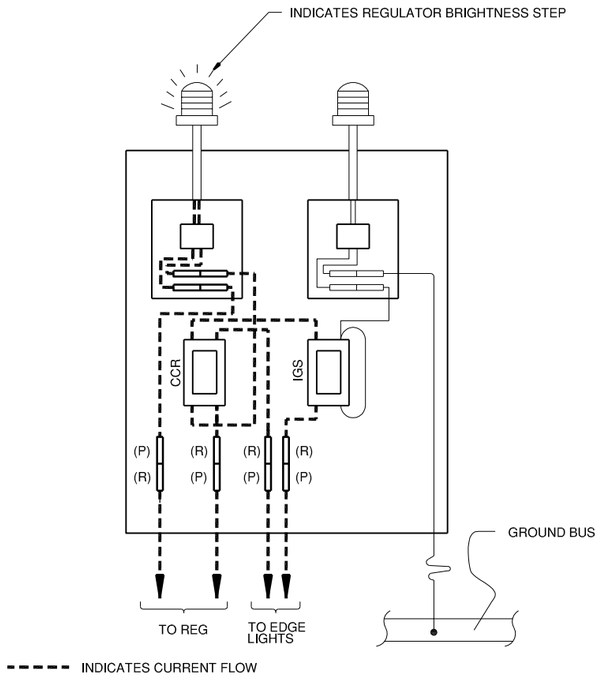
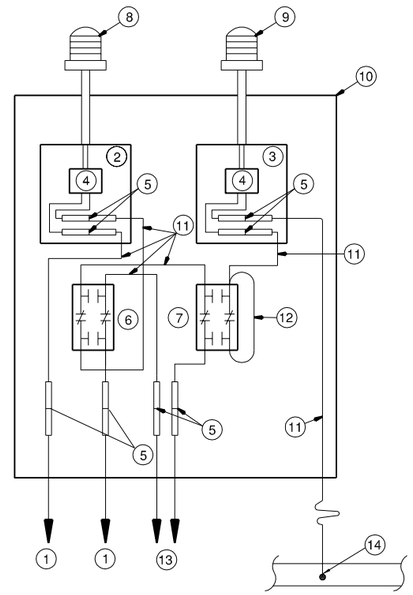
TESTING

1. TO TEST FOR A GROUND FAULT ON EDGE LIGHT SERIES CIRCUIT:
   A. TURN OFF REGULATOR
   B. REMOVE "IGS" S1 CUTOUT FROM SOCKET
   C. TURN REGULATOR ON
   D. VERIFY THAT REGULATOR OUTPUT INDICATION LAMP IS ILLUMINATED AND INDICATES REGULATOR BRIGHTNESS STEP
   E. GROUND FAULT INDICATION LAMP WILL ILLUMINATE IF A GROUND FAULT EXISTS ON THE LIGHTING CIRCUIT

2. TO ISOLATE REGULATOR FROM EDGE LIGHT SERIES CIRCUIT HOMERUN AND GROUND FAULT INDICATION CIRCUIT FOR TESTING JUST THE REGULATOR:
   A. TURN OFF REGULATOR
   B. REMOVE "CCR" S1 CUTOUT FROM SOCKET.
   C. TURN REGULATOR ON
   D. THE CCR OUTPUT INDICATION LAMP AT MOUNTING PANEL WILL STILL ILLUMINATE FOR TESTING REGULATOR



NORMAL OPERATION
NTS
(BOTH PLUG CUTOUTS ARE IN)



REGULATOR INDICATING LIGHT NOTES

1 5KV L-824 CABLES TO REGULATOR.

2 HINGED COVER NEMA 1 ENCLOSURE SIZED AS REQUIRED TO HOUSE EQUIPMENT, WITH ENGRAVED NAMEPLATE READING: "CIRCUIT INDICATOR".

3 HINGED COVER NEMA 1 ENCLOSURE SIZED AS REQUIRED TO HOUSE EQUIPMENT, WITH ENGRAVED NAMEPLATE READING: "GROUND INDICATOR".

4 L-830 ISOLATION TRANSFORMER.

5 L-823 CONNECTOR. (SEE CONNECTOR ORIENTATION GUIDE)

6 "CCR" TYPE S-1 PLUG CUTOUT FOR ISOLATING REGULATOR OUTPUT TO TEST REGULATOR.

7 "IGS" TYPE S-1 PLUG CUTOUT FOR INTENTIONAL GROUNDING OF SERIES CIRCUIT TO TEST FOR GROUND FAULTS.

8 REGULATOR OUTPUT INDICATION EDGE LIGHT (RUNWAY OR TAXIWAY EDGE LIGHT).

9 GROUND FAULT INDICATION EDGE LIGHT WITH WHITE GLOBE.

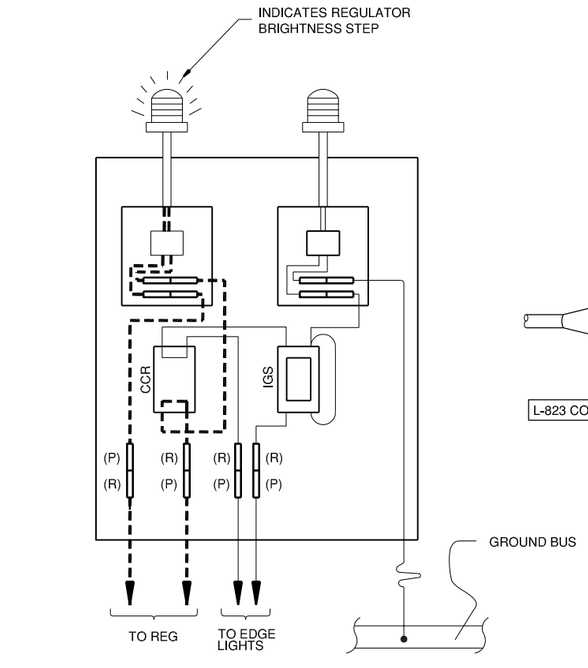
10 EQUIPMENT MOUNTING PANEL.

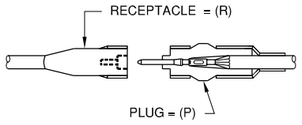
11 5KV L-824 CABLE.

12 5KV L-824 CABLE USED AS A JUMPER.

13 REGULATOR SERIES CIRCUIT HOMERUN CABLES TO EDGE LIGHTS.

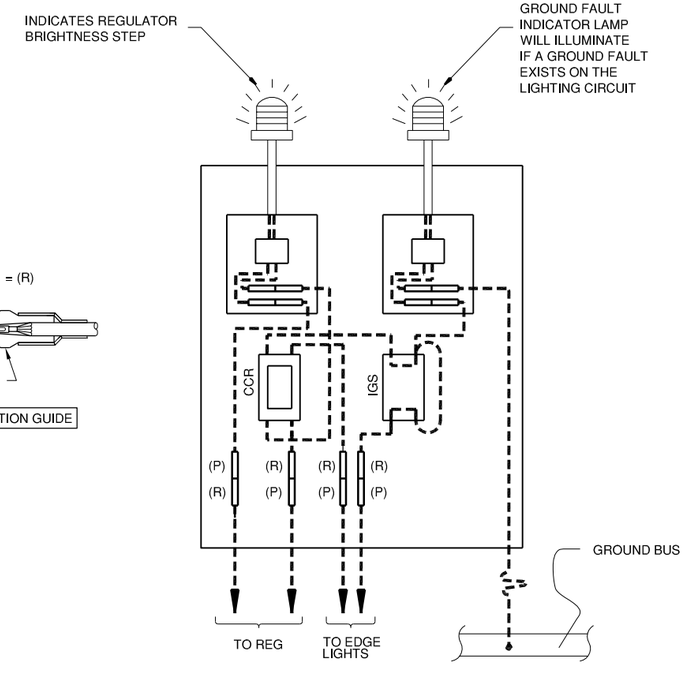
14 CLAMP TO GROUND BUS.





L-823 CONNECTOR ORIENTATION GUIDE

REGULATOR TESTING
NTS
"CCR" PLUG CUTOUT IS OUT
"IGS" CUTOUT IS IN



GROUND FAULT TESTING
NTS
"CCR" PLUG CUTOUT IS IN
"IGS" PLUG CUTOUT IS OUT

FILE: VAULT DETAILS 4.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:29 PM

CE032

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0 1 2
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REGULATOR INDICATING LIGHT DETAILS

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SHEET 26 OF 30 SHEETS

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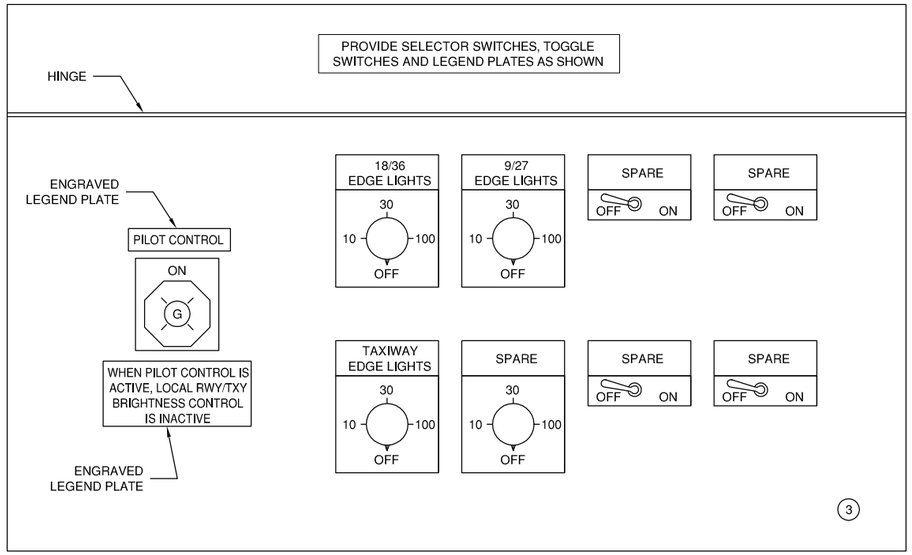
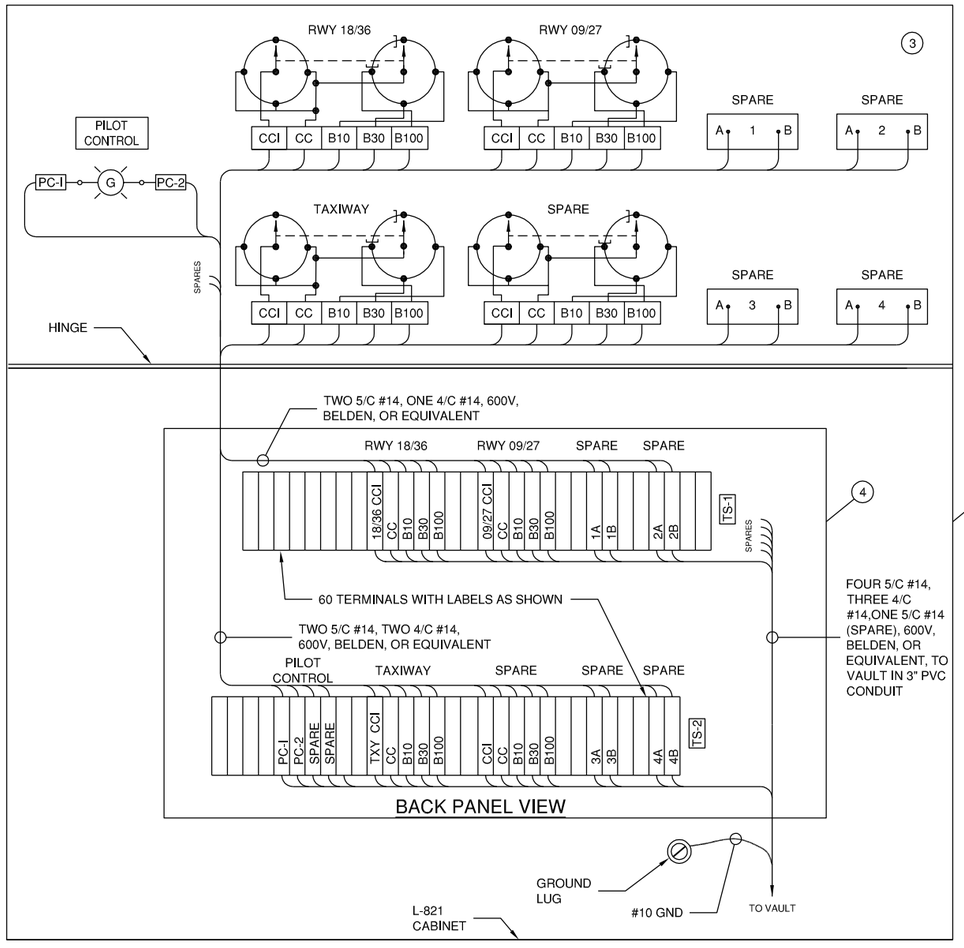
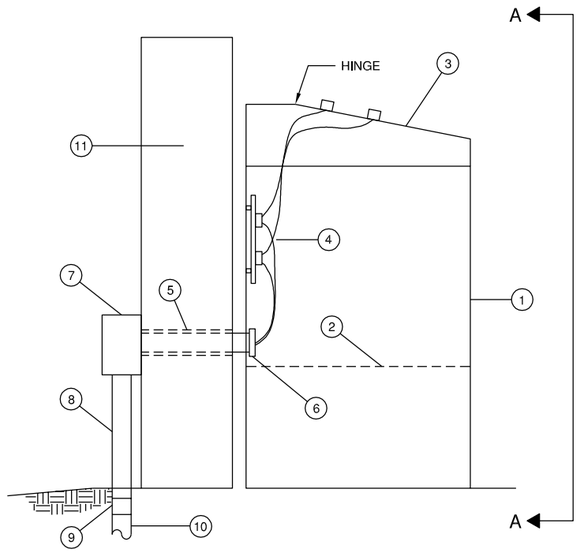
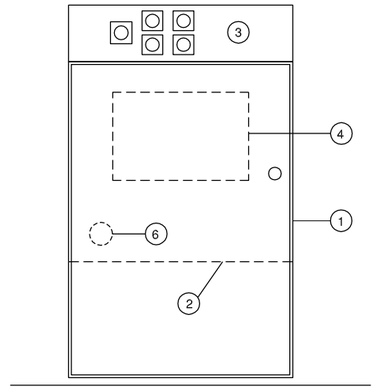


FLIP-UP TOP PANEL VIEW





ELEVATION



SECTION A-A

NOTES:

1. L-821 STEEL CABINET SIZED AS REQUIRED (NOM. 24" SQ. X 36"H), WITH HINGED DOOR, BAKED ENAMEL CHARCOAL FINISH. PROVIDE OPEN TOP FOR MOUNTING L-821 PANEL ENCLOSURE.
2. ADJUSTABLE INTERIOR SHELF.
3. L-821 PANEL AND STEEL ENCLOSURE WITH BAKED ENAMEL CHARCOAL FINISH, MOUNTED ON TOP OF CABINET. PROVIDE HINGE AS NOTED AT TOP OF L-821 PANEL.
4. 600V TERMINAL STRIPS ON MOUNTING PANEL, STAND-OFF MOUNTED TO BACK OF ENCLOSURE.
5. CORE DRILL THROUGH TERMINAL BUILDING WALL AND INSTALL 3" GRS CONDUIT NIPPLE. SEAL AROUND CONDUIT AFTER INSTALLATION WITH NON-SHRINK GROUT.
6. INSULATED BUSHING.
7. NEMA 4 JUNCTION BOX, SIZED AS REQUIRED.
8. 3" GRS CONDUIT.
9. 3" GRS TO PVC ADAPTER.
10. 3" SCHEDULE 40 PVC CONDUIT, DIRECT BURY, TO NEW VAULT.
11. TERMINAL BUILDING WALL.

L-821 CABINET IN TERMINAL

NTS

FILE: L-821 DETAILS 1.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:30 PM

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CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

L-821 DETAILS 1

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	WDP
DRAWN BY:	ADD, DPA
CHECKED BY:	TM
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02

IL. PROJ. NO. ENL-4230
PROJ. NO. 3-17-SBGP-XX

SHEET 27 OF 30 SHEETS

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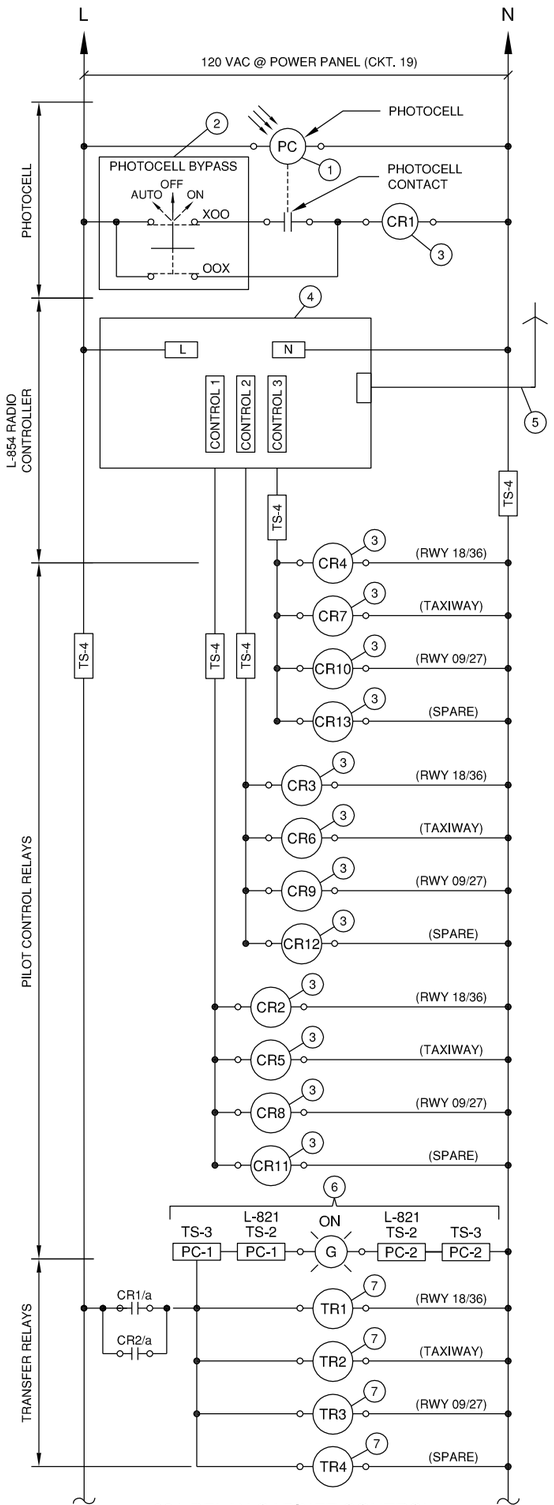
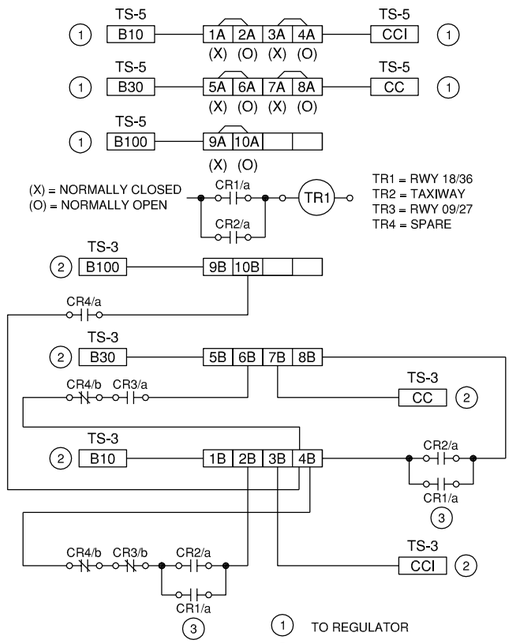
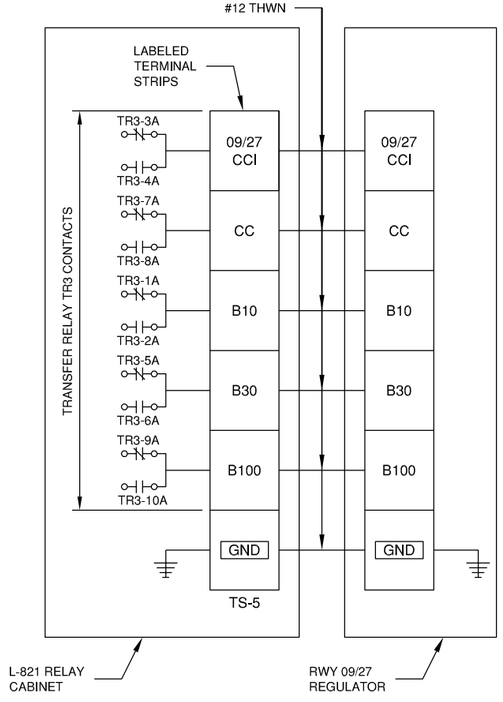


L-821 RELAY CABINET CONTROL WIRING SCHEMATIC



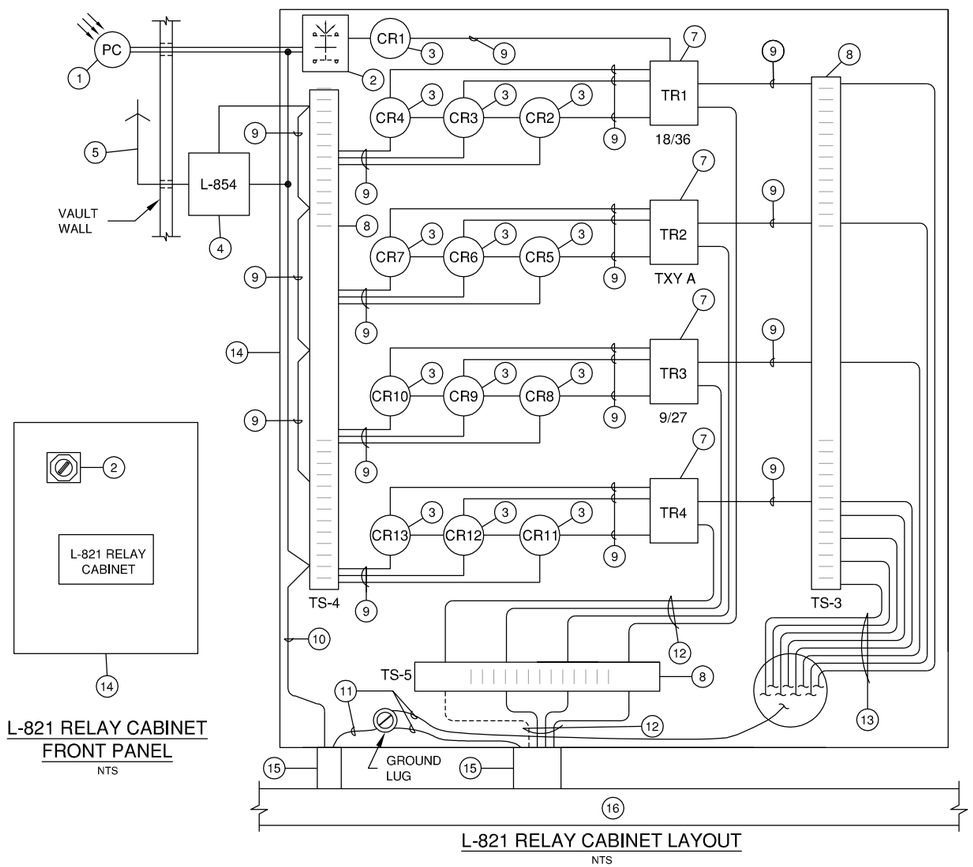
TYPICAL TRANSFER RELAY WIRING - (4 REQ'D)

(RUNWAY 18/36 SHOWN)



TYPICAL REGULATOR WIRING

(RUNWAY 09/27 SHOWN)



L-821 RELAY CABINET LAYOUT

NTS

L-821 RELAY CABINET FRONT PANEL

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L-821 DETAILS 2 NOTES

NOTE: L-821 RELAY CABINET DETAIL SHOWN IS REPRESENTATIVE, AND IS NOT INTENDED TO SHOW ALL WIRING OR EQUIPMENT.

1. PHOTOCELL, 120V, 1800W, TORK 2100, OR EQUIVALENT, MOUNTED ON EXTERIOR WALL, POINTED SOUTH. ADJUST SLIDE CONTROL AS NEEDED. (SEAL OPENING IN VAULT WALL WITH NON-SHRINK GROUT AFTER CONDUIT INSTALLATION.)
2. PHOTOCELL BYPASS SELECTOR SWITCH, THREE-POSITION, NONMETALLIC, NEMA 4X, SQUARE D TYPE SK, OR EQUIVALENT, WITH CONTACT BLOCKS AS NEEDED. MOUNT IN DOOR OF L-821 RELAY CABINET. PROVIDE ENGRAVED NAMEPLATE READING "PHOTOCELL BYPASS".
3. CONTROL RELAY, 4PDT, 10A, 120V CONTACTS, POTTER & BRUMFIELD KUP-14A39-120, WITH SOCKET, OR EQUIVALENT. PROVIDE ENGRAVED NAMEPLATE NEXT TO RELAY IDENTIFYING RELAY, "CR1", FOR EXAMPLE. (THIRTEEN RELAYS REQUIRED.)
4. L-854 RADIO CONTROLLER. WALL MOUNT NEXT TO L-821 RELAY CABINET. PROVIDE ENGRAVED NAMEPLATE READING: "L-854 RADIO CONTROLLER (PILOT CONTROL)".
5. ANTENNA CABLE AND ANTENNA, PROVIDED WITH L-854 RADIO CONTROLLER. INSTALL CABLE IN CONDUIT THROUGH VAULT WALL (SEAL OPENING IN VAULT WALL WITH NON-SHRINK GROUT AFTER CONDUIT INSTALLATION). MOUNT ANTENNA ABOVE VAULT ROOF LINE AS RECOMMENDED BY L-854 MANUFACTURER.
6. PILOT CONTROL "ON" INDICATING LIGHT IN L-821 PANEL IN TERMINAL BUILDING.
7. TRANSFER RELAY, SQUARE D TYPE "X", 10A, 120V, MODEL # XO1000-V02, WITH 10 CONVERTIBLE CONTACTS IN CONFIGURATION AS SHOWN. PROVIDE ENGRAVED NAMEPLATE NEXT TO RELAY IDENTIFYING RELAY, "TR1" "18/36", FOR EXAMPLE. (FOUR RELAYS REQUIRED.)
8. TERMINAL STRIP, 600V, AS NEEDED FOR WIRE TERMINATIONS. PROVIDE LABELS FOR ALL TERMINATIONS AS NEEDED TO ADEQUATELY DESCRIBE THE WIRING CONNECTED. PROVIDE VERTICAL "GENERAL LABELS" NEXT TO TERMINALS, IDENTIFYING THE PURPOSE OF A GROUP OF TERMINATIONS ("RWY 18/36", "RWY 09/27", "TAXIWAY A", "SPARE", ETC.).
9. #16 AWG CONTROL WIRING INSIDE RELAY CABINET.
10. TWO #12 THWN (120V, CKT. #19).
11. #10 GROUND. (NOT ALL GROUND WIRING REQUIRED BY NEC IS SHOWN.)
12. FIVE #12 THWN TO RESPECTIVE RUNWAY OR TAXIWAY REGULATOR. THE DASHED PORTION INDICATES FUTURE WIRING.
13. FOUR 5/C #14 (RWY & TXY CONTROL) THREE 4/C #14 (PCAL INDICATING LIGHT/SPARE TOGGLE SWITCH CONTROL), ONE 5/C #14 (SPARE), 600V, BELDEN, OR EQUIVALENT, ONE #10 GROUND, IN 3" CONDUIT TO L-821 PANEL IN TERMINAL BUILDING.
14. L-821 RELAY CABINET, HINGED COVER (WITH STAINLESS STEEL HINGE PIN), NEMA 12 GASKETED, HOFFMAN, OR EQUIVALENT, SIZED AS REQUIRED TO HOUSE EQUIPMENT. PROVIDE ENGRAVED NAMEPLATE ON CABINET DOOR READING "L-821 RELAY CABINET".
15. (LT. TO RT.): 3/4' CONDUIT (120V, CKT. #19), 2" CONDUIT (REGULATOR CONTROL WIRING).
16. LOW VOLTAGE WIREWAY.

FILE: L-821 DETAILS 2.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:31 PM

CE032

REVISIONS

NUMBER	BY	DATE

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

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

L-821 DETAILS 2

CMT
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SHEET 28 OF 30 SHEETS

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PANELBOARD SCHEDULE

PANEL DESIGNATION: **VAULT**
LOCATION: **VAULT**

BOND NEUTRAL AND GROUND BAR: **NO**
NEUTRAL BUS RATING: **100%**
SERVICE ENTRANCE RATED: **NO**

POLE: **30**
SHORT CIRCUIT RATING: **30KA**
SERIES OR FULLY RATED: **SERIES**
SPD & DISCONNECT REQUIRED: **YES**

VOLTS: **208Y/120V**
PHASE: **3**
WIRE: **4**

MOUNTING: **SURFACE**
ENCL RATING: **NEMA 1**

BUS RATING (AMPS): **400**
BUS: **COPPER; SILVER OR TIN PLATED**
MAIN CIRCUIT BREAKER: AMP/POLE **300/3**

CKT NO.	LOAD	BREAKER SIZE	LOAD AMPS	USAGE FACTOR	PHASE AMPS (USAGE) A	B	C	POLE NO.		PHASE AMPS (USAGE) A	B	C	USAGE FACTOR	LOAD AMPS	BREAKER SIZE	LOAD	CKT NO.
1	RUNWAY 18/36 REGULATOR 7.5 KW	70/2	51	0.8	40.8			1	2	40.8			0.8	51	70/2	RUNWAY 09/27 REGULATOR 7.5 KW	2
----	----------	----	51	0.8		40.8		3	4		40.8		0.8	51	----	----------	----
5	TAXIWAY REGULATOR 10 KW	90/2	68	0.8			54.4	5	6			7	1	7	20/2	PAPI 18	6
----	----------	----	68	0.8	54.4			7	8	7			1	7	----	----------	----
9	WALL HEATER 4.8 KW	30/2	24	1		24		9	10		54.4		0.8	68	90/2	FUTURE TAXIWAY REGULATOR 10 KW	10
----	----------	----	24	1			24	11	12			54.4	0.8	68	----	----------	----
13	EXHAUST FAN	20/1	4	1	4			13	14	7			1	7	20/2	PAPI 36	14
15	RECEPTACLES	20/1	16	0.5		8		15	16		7		1	7	----	----------	---
17	PRIMARY WIND CONE	20/1	5	1			5	17	18			4	1	4	20/1	LIGHTS	18
19	L-854 PILOT CONTROL & L-821 RELAY CAB.	20/1	1.5	1	1.5			19	20	0					20/1		20
21		20/1				0		21	22		0				20/1		22
23		20/1					0	23	24			0			20/1		24
25	SURGE PROTECTIVE DEVICE	15/3			0			25	26	0					20/1		26
----	----------	----				0		27	28		0				20/1		28
----	----------	----					0	29	30			0			20/1		30
	SECTION TOTAL:				100.7	72.8	83.4			54.8	102.2	65.4					

	A	B	C
PHASE TOTAL AMPS:	155.5	175	148.8
PHASE TOTAL VA:	18660	21000	17856

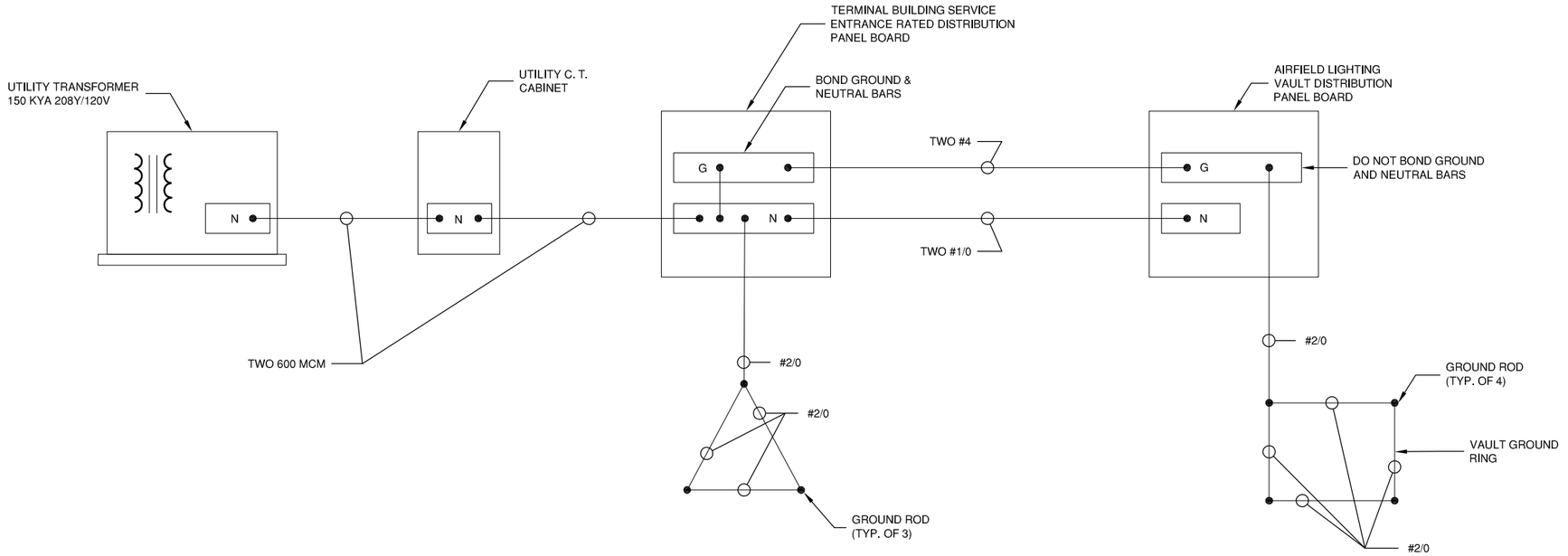
MINIMUM MAIN CIRCUIT BREAKER AMPS: 249

TOTAL USAGE LOAD: 57516 VA

MIN. XFMR VA: 71895 VA

NOTES:

1.) PROVIDE 120 KA SURGE PROTECTIVE DEVICE INSIDE PANELBOARD.
2.) AFTER INSTALLATION OF ALL CIRCUITS, TURN ON ALL CIRCUITS AND PHYSICALLY BALANCE ALL PHASES, MOVING CIRCUITS AS NEEDED.
3.) PROVIDE A TYPED PANELBOARD SCHEDULE (HANDWRITTEN SCHEDULES ARE NOT ACCEPTABLE).



SYSTEM BONDING AND EARTHING

NTS

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FILE: VAULT DETAILS 3.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:31 PM

CE032

REVISIONS

NUMBER	BY	DATE

0 1 2
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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

MISCELLANEOUS ELECTRICAL DETAILS

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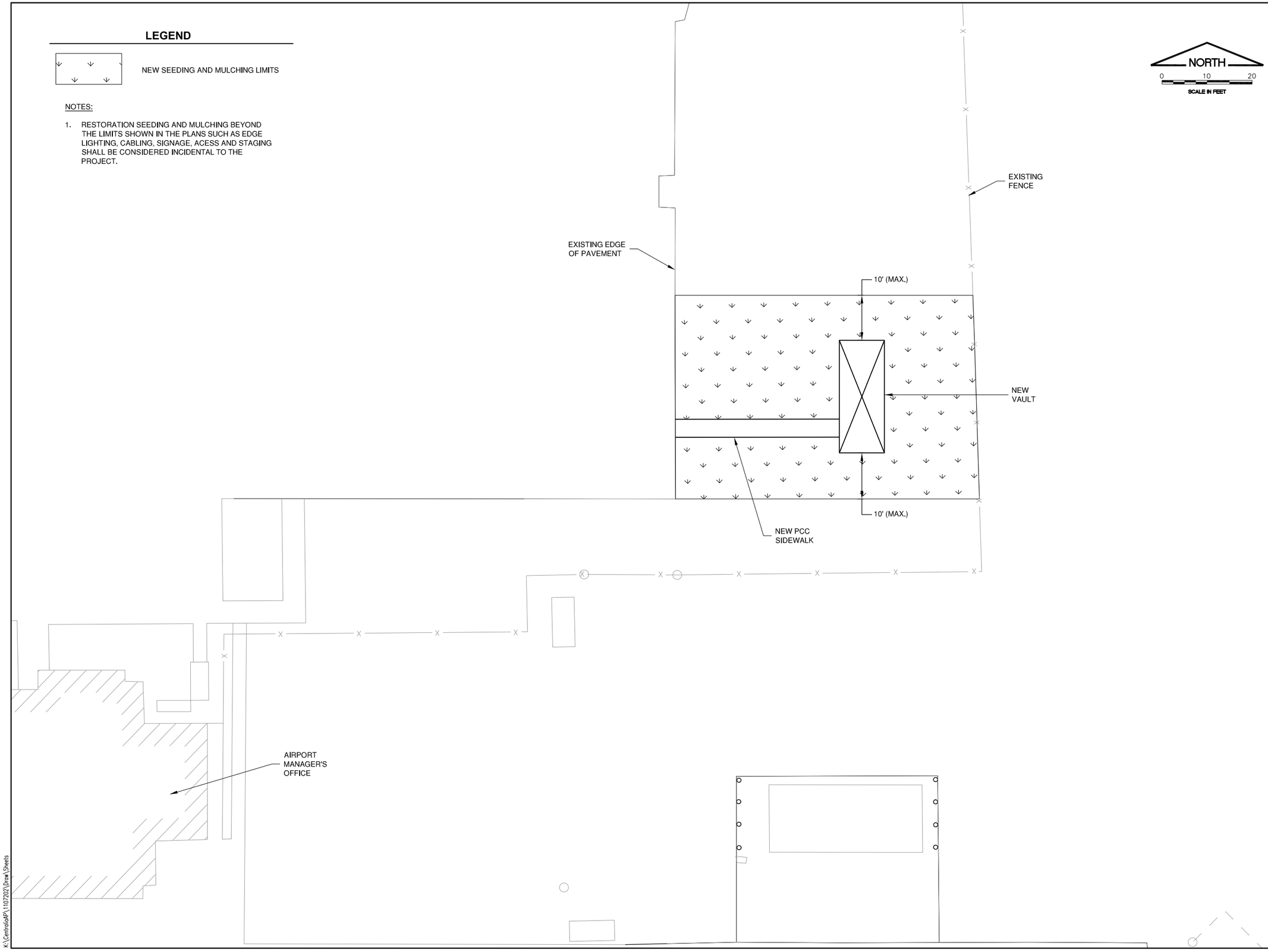
LEGEND

NEW SEEDING AND MULCHING LIMITS

NOTES:

1. RESTORATION SEEDING AND MULCHING BEYOND THE LIMITS SHOWN IN THE PLANS SUCH AS EDGE LIGHTING, CABLING, SIGNAGE, ACESS AND STAGING SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.



FILE: TURFING PLAN.dwg
UPDATE BY: Dale Draughan
PLOT DATE: 5/8/2014 12:33 PM

BASE
Baselines
BASE_PROP_ELEC
1107202-V-VF2D
BASE_PROP_TURF

CE032

REVISIONS

NUMBER	BY	DATE

0 1 2
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CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36

TURFING PLAN

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	KLB
DRAWN BY:	ADD, DPA
CHECKED BY:	KLB
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SHEET 30 OF 30 SHEETS

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