05 - ELECTRICAL
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
E-001	ELECTRICAL INDEX OF DRAWINGS		
ED-001	ELECTRICAL DEMOLITION PLAN 1 OF 2		
ED-002	ELECTRICAL DEMOLITION PLAN 2 OF 2		
E-002	ELECTRICAL PLAN 1 OF 2		
E-003	ELECTRICAL PLAN 2 OF 2		
E-004	GUIDANCE SIGN AND LIGHT FIXTURE SCHEDULES		
E-005	TAXIWAY B PARTIAL CIRCUIT SCHEMATIC		
E-006	ELECTRICAL DETAILS - 1		
E-007	ELECTRICAL DETAILS - 2		
E-008	ELECTRICAL DETAILS - 3		

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/21/2013

DESIGNER/DRAFTER: **JRH**

CHECKED BY: **WTG**

SCALE AS NOTED

CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_E001.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT MICHAEL R. DESROCHERS 19904 LICENSED PROFESSIONAL ENGINEER

Michael Desrochers

Digitally signed by Michael Desrochers
DN: CN=Michael Desrochers, O=Jacobs Engineering Group Inc., OU=Civil, E=michael.desrochers.com, S=Massachusetts, C=US
Reason: I attest to the accuracy and integrity of this document
Date: 2023.11.28 15:21:56-05'00'

PROJECT TITLE:

WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

TOWN: **OXFORD, CONNECTICUT**

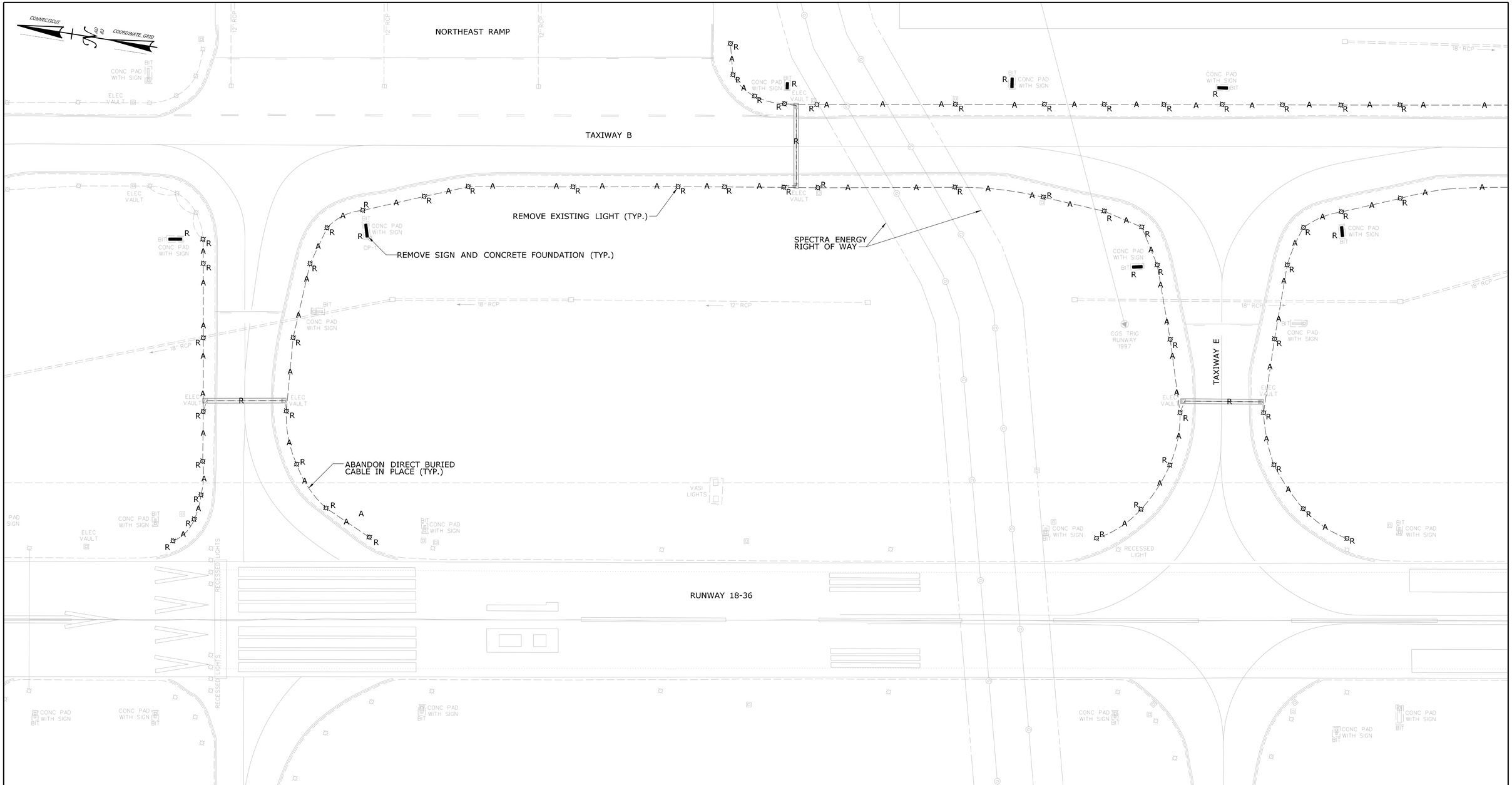
DRAWING TITLE: **ELECTRICAL INDEX OF DRAWINGS**

PROJECT NO. **107-178**

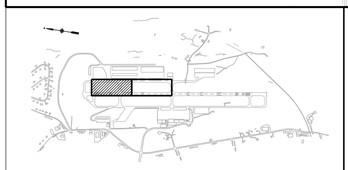
DRAWING NO. **E-001**

SHEET NO. **05.01**

Connecticut Department of Transportation
QA/QC Format Check



FOR CONTINUATION SEE DRAWING ED-002



KEY PLAN
NOT TO SCALE

ELECTRICAL DEMOLITION PLAN (1 OF 2)

NOTES:

1. OBSOLETE GUIDANCE SIGN AND TAXIWAY EDGE LIGHTS TO BE DISPOSED OF OFF AIRPORT PROPERTY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

DEMOLITION LEGEND:

- R — REMOVE EXISTING LIGHT
- R — REMOVE SIGN AND CONCRETE FOUNDATION
- A — ABANDON CABLE IN PLACE
- R — REMOVE CABLE

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Plotted Date: 11/26/2013

DESIGNER/DRAFTER: **JRH**
CHECKED BY: **WTG**
SCALE IN FEET
0 40 80
SCALE 1"=40'

CAA™ CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_ED001.dgn

SIGNATURE/BLOCK:
STATE OF CONNECTICUT DIVISION OF PUBLIC UTILITY CONTROL PROFESSIONAL ENGINEER No. 15530
JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

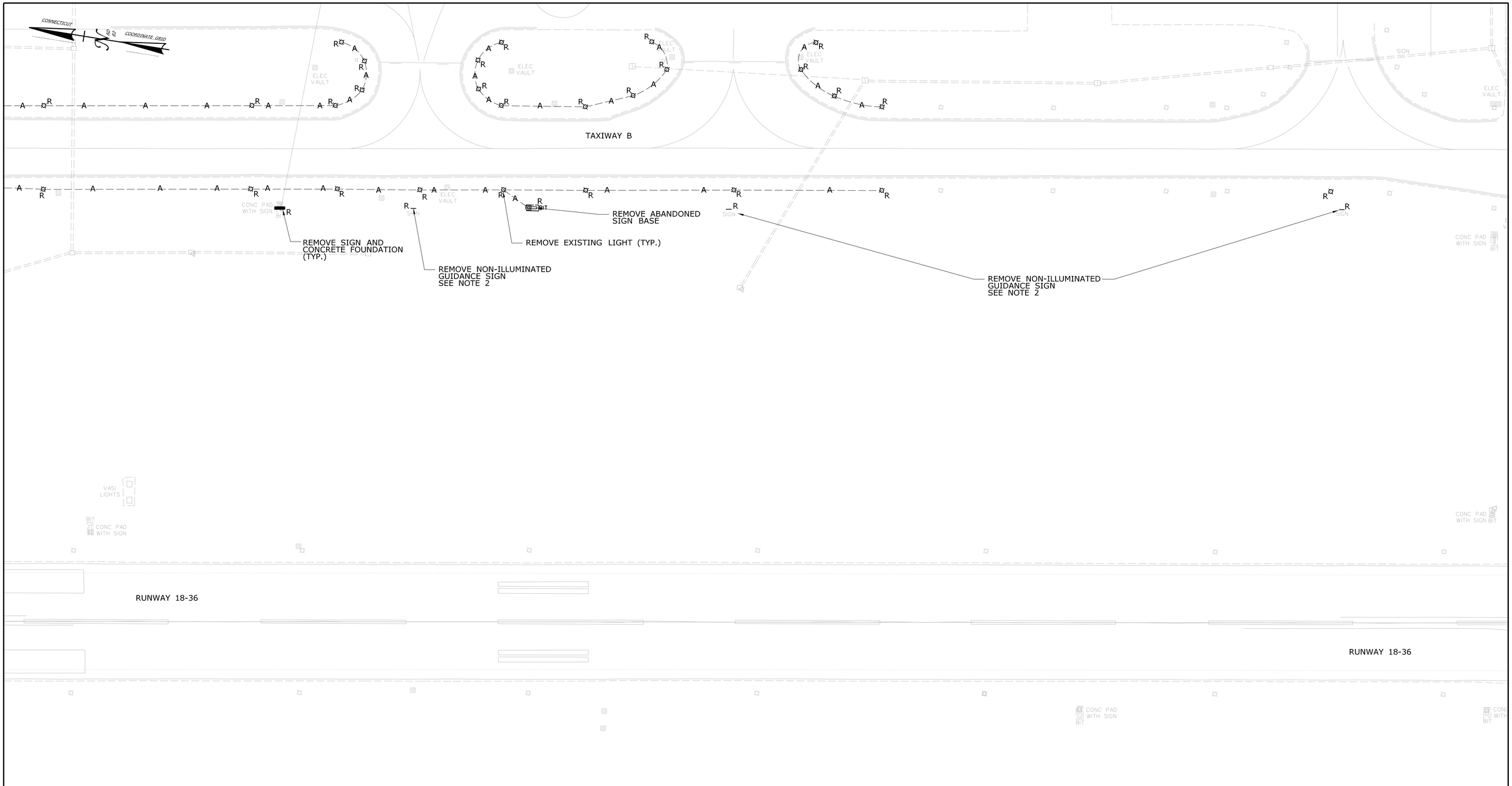
PROJECT TITLE:
WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

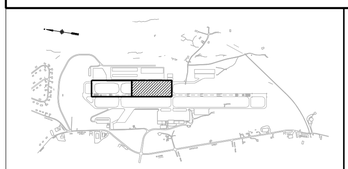
TOWN: **OXFORD, CONNECTICUT**

DRAWING TITLE: **ELECTRICAL DEMOLITION PLAN 1 OF 2**

PROJECT NO. **107-178**
DRAWING NO. **ED-001**
SHEET NO. **05.02**

FOR CONTINUATION SEE DRAWING ED-001





KEY PLAN
NOT TO SCALE

ELECTRICAL DEMOLITION PLAN (2 OF 2)

NOTES:

1. OBSOLETE GUIDANCE SIGN AND TAXIWAY EDGE LIGHTS TO BE DISPOSED OF OFF AIRPORT PROPERTY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. SALVAGE SONOTUBE FOUNDATION OF SIGN AND TURN OVER TO AIRPORT. STORE AT A LOCATION AS DIRECTED BY THE ENGINEER.

DEMOLITION LEGEND:

- R — REMOVE EXISTING LIGHT
- R — REMOVE SIGN AND CONCRETE FOUNDATION
- A — ABANDON CABLE IN PLACE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/26/2013

DESIGNER/DRAFTER: **JRH**
CHECKED BY: **WTG**
SCALE IN FEET 0 40 80
SCALE 1"=40'

CAA™ CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_ED002.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT WILLIAM TRUMPER LIC. NO. 18380 PROFESSIONAL ENGINEER

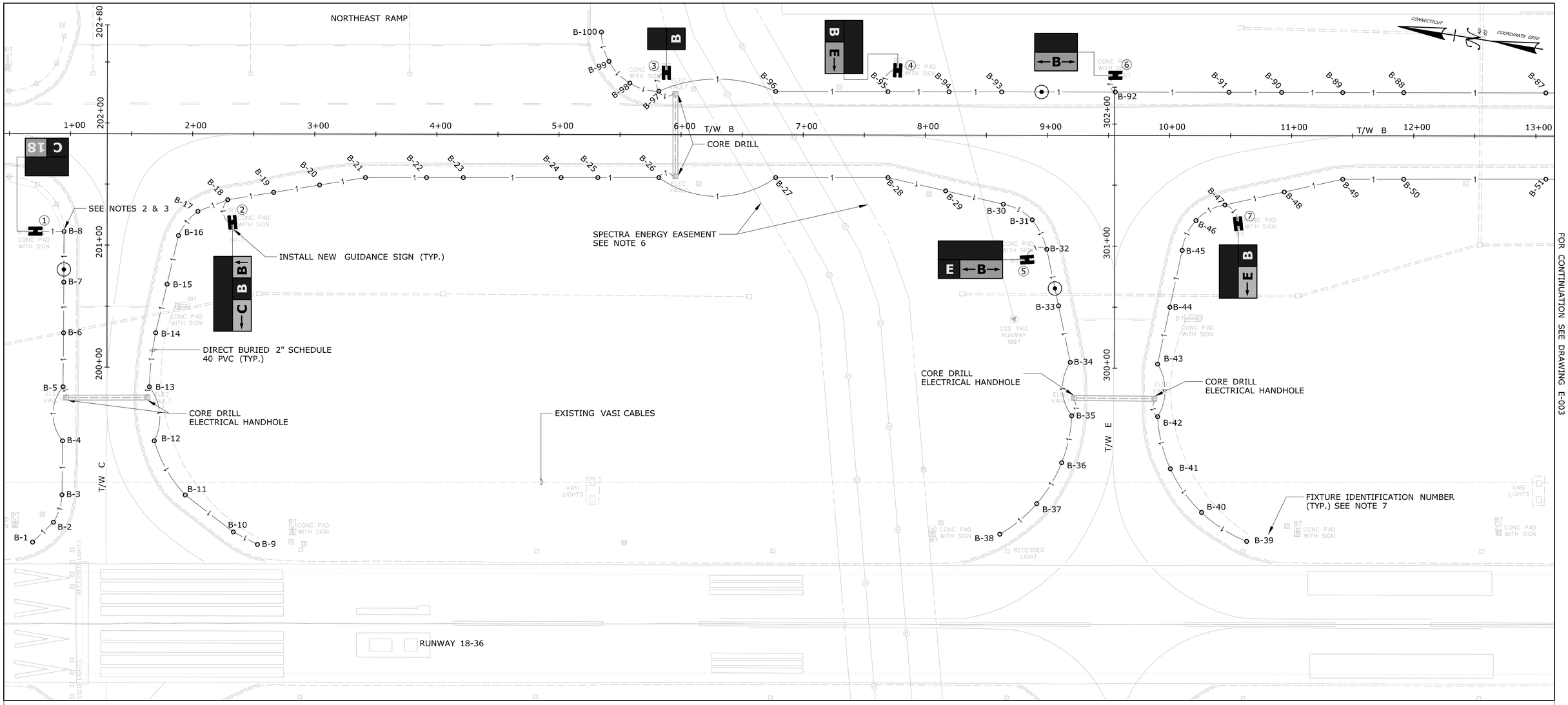
JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

PROJECT TITLE:
WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

TOWN: **OXFORD, CONNECTICUT**

DRAWING TITLE: **ELECTRICAL DEMOLITION PLAN 2 OF 2**

PROJECT NO. **107-178**
DRAWING NO. **ED-002**
SHEET NO. **05.03**



FOR CONTINUATION SEE DRAWING E-003

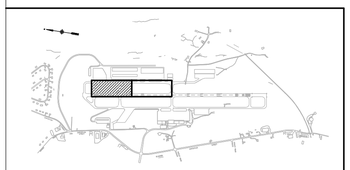
ELECTRICAL PLAN (1 OF 2)

LEGEND:

- NEW BASE MOUNTED ELEVATED TAXIWAY EDGE LIGHT
- EXISTING RUNWAY/TAXIWAY EDGE LIGHT
- EXISTING ELECTRIC HANDHOLE
- EXISTING SIGN AND FOUNDATION
- NEW ILLUMINATED GUIDANCE SIGN ON NEW CONCRETE FOUNDATION
- DIRECT BURIED 2" SCHEDULE 40 PVC AND COUNTERPOISE SYSTEM
- EXISTING DUCTBANK
- TAXIWAY B HOMERUN
- EXISTING CABLE/CONDUIT
- FIELD LIGHTING ARRESTOR

NOTES:

1. REFERENCE DRAWING E-008 FOR ELECTRICAL VAULT DETAILS.
2. REDIRECT EXISTING DIRECT BURIED CABLE INTO NEW BASE CAN AND CONNECT TO NEW TAXIWAY CIRCUIT CONDUCTOR.
3. CONNECT NEW COUNTERPOISE WIRE TO EXISTING COUNTERPOISE SYSTEM.
4. FOR CIRCUITING INFORMATION SEE DRAWING E-005.
5. FOR SIGN AND LIGHT SCHEDULES SEE DRAWING E-004.
6. INSTALLATION OF AIRPORT LIGHTING BASES AND CONDUIT SHALL BE COORDINATED WITH SPECTRA ENERGY AROUND THE GAS LINES. THE CONTRACTOR SHALL INSTALL SUCH CIRCUITING PER UTILITY REQUIREMENTS.
7. FIXTURE IDENTIFICATION NUMBER SHOWN IS ARBITRARY AND SHALL BE MODIFIED AS DIRECTED BY THE ENGINEER ACCORDING TO ACTUAL FIELD NUMBERS OF ADJACENT, EXISTING FIXTURES.



KEY PLAN
NOT TO SCALE

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Plotted Date: 11/21/2013

DESIGNER/DRAFTER: **JRH**
CHECKED BY: **WTG**
SCALE IN FEET 0 40 80
SCALE 1"=40'

CAA™ CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_E002.dgn

SIGNATURE/BLOCK:
JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

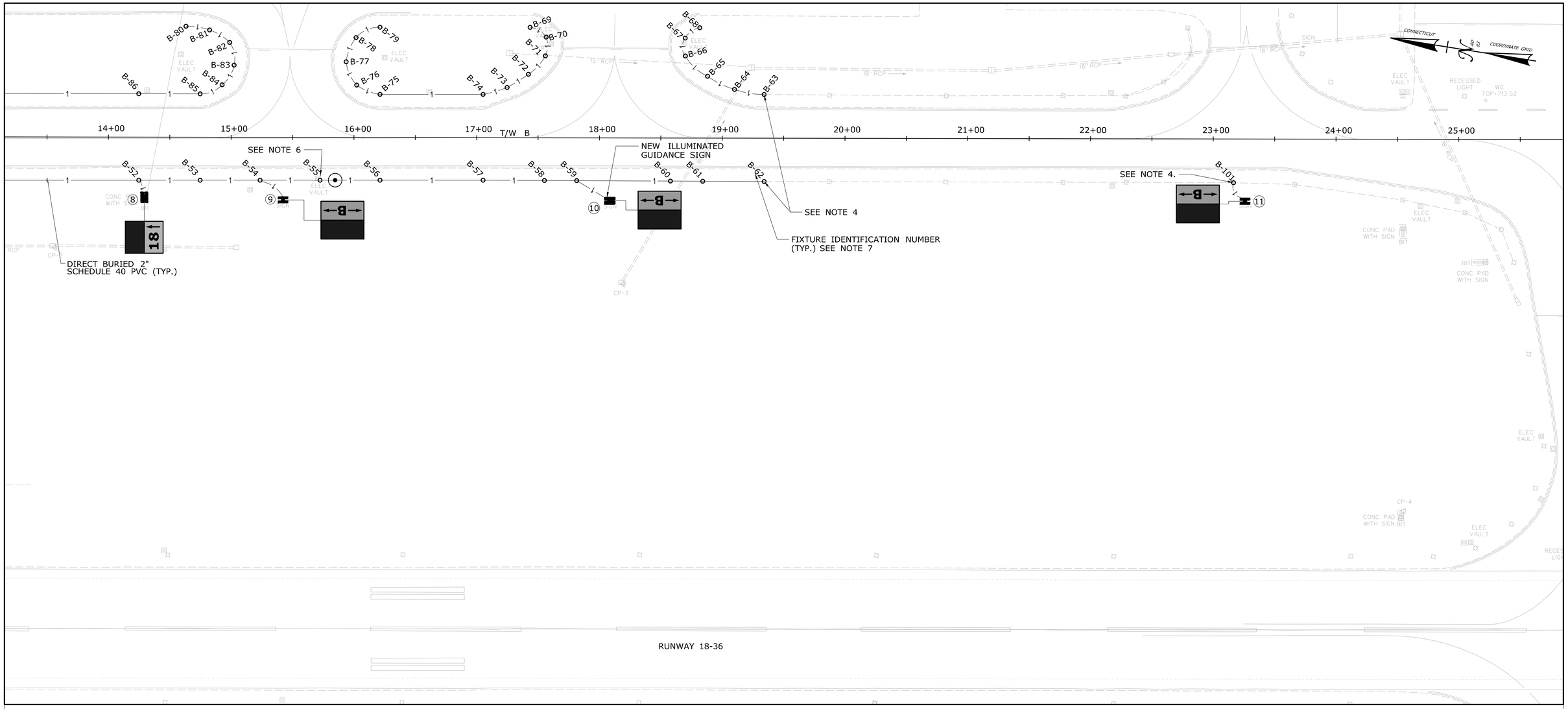
PROJECT TITLE:
WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

TOWN: **OXFORD, CONNECTICUT**

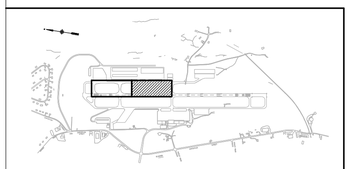
DRAWING TITLE: **ELECTRICAL PLAN 1 OF 2**

PROJECT NO. **107-178**
DRAWING NO. **E-002**
SHEET NO. **05.04**

FOR CONTINUATION SEE DRAWING E-002



ELECTRICAL PLAN (2 OF 2)



KEY PLAN
NOT TO SCALE

NOTES:

1. FOR ELECTRICAL LEGEND SEE DRAWING E-002.
2. FOR CIRCUITING INFORMATION SEE DRAWING E-005.
3. REFERENCE DRAWING E-008 FOR ELECTRICAL VAULT DETAILS.
4. REDIRECT EXISTING DIRECT BURIED CABLE IN NEW BASE CAN AND CONNECT TO NEW CONDUCTORS
5. FOR SIGN AND LIGHT SCHEDULES SEE DRAWING E-004.
6. NEW TAXIWAY EDGE LIGHT SHALL BE FIELD LOCATED TO AVOID EXISTING HANDHOLE.
7. FIXTURE IDENTIFICATION NUMBER SHOWN IS ARBITRARY AND SHALL BE MODIFIED AS DIRECTED BY THE ENGINEER ACCORDING TO ACTUAL FIELD NUMBERS OF ADJACENT, EXISTING FIXTURES.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/21/2013

DESIGNER/DRAFTER: **JRH**
CHECKED BY: **WTG**
SCALE IN FEET
0 40 80
SCALE 1"=40'

CAA™
CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_E003.dgn

SIGNATURE/ BLOCK:
STATE OF CONNECTICUT PROFESSIONAL ENGINEER WILLIAM T. THOMPSON No. 18350 LICENSED
JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

PROJECT TITLE:
WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

TOWN:
OXFORD, CONNECTICUT

DRAWING TITLE:
ELECTRICAL PLAN 2 OF 2

PROJECT NO. **107-178**
DRAWING NO. **E-003**
SHEET NO. **05.05**

GUIDANCE SIGN SCHEDULE

SIGN NO.	FRONT							BACK					CIRCUIT	SIZE	MODULES	STYLE	REMARKS
	TYPE	MESSAGE	COLOR	MESSAGE	COLOR	MESSAGE	COLOR	TYPE	MESSAGE	COLOR	MESSAGE	COLOR					
1	LOC/MAND	C	Y/B	18	W/R	-	-	-	-	-	-	-	RW 18-36	2	2	3	
2	DIR/LOC/DIR	←C	B/Y	B	Y/B	B↓	B/Y	-	-	-	-	-	T/W B	2	3	2	
3	LOC	B	Y/B	-	-	-	-	-	-	-	-	-	T/W B	2	1	2	
4	LOC/DIR	B	Y/B	E→	B/Y	-	-	-	-	-	-	-	T/W B	2	2	2	
5	LOC/DIR	E	Y/B	←B→	B/Y	-	-	-	-	-	-	-	T/W B	2	3	2	
6	DIR	←B→	B/Y	-	-	-	-	-	-	-	-	-	T/W B	2	2	2	
7	DIR/LOC	←E	B/Y	B	Y/B	-	-	-	-	-	-	-	T/W B	2	2	2	
8	DIR	18↓	B/Y	-	-	-	-	-	-	-	-	-	T/W B	2	1	2	
9	DIR	←B→	B/Y	-	-	-	-	-	-	-	-	-	T/W B	2	2	2	
10	DIR	←B→	B/Y	-	-	-	-	-	-	-	-	-	T/W B	2	2	2	
11	DIR	←B→	B/Y	-	-	-	-	-	-	-	-	-	T/W B	2	2	2	

LEGEND:

B/Y
- B/Y → BACKGROUND COLOR
- B/Y → TEXT COLOR

B = BLACK
Y = YELLOW
R = RED
W = WHITE

TAXIWAY EDGE LIGHT SCHEDULE

BASELINE REF.	LIGHT NO.	LIGHT TYPE	LIGHT DIA.	BOLT CIRCLE DIA.	STATION	OFFSET
TAXIWAY B	B-1	L-861 T	12"	10.25"	0+69.45	334.63
	B-2	L-861 T	12"	10.25"	0+86.47	318.36
	B-3	L-861 T	12"	10.25"	0+93.44	295.86
	B-4	L-861 T	12"	10.25"	0+93.80	251.64
	B-5	L-861 T	12"	10.25"	0+94.16	207.43
	B-6	L-861 T	12"	10.25"	0+94.52	163.22
	B-7	L-861 T	12"	10.25"	0+94.63	121.71
	B-8	L-861 T	12"	10.25"	0+94.75	80.20
	B-9	L-861 T	12"	10.25"	2+53.59	336.30
	B-10	L-861 T	12"	10.25"	2+33.84	326.09
	B-11	L-861 T	12"	10.25"	1+94.39	295.85
	B-12	L-861 T	12"	10.25"	1+68.97	251.52
	B-13	L-861 T	12"	10.25"	1+64.84	207.31
	B-14	L-861 T	12"	10.25"	1+69.92	163.09
	B-15	L-861 T	12"	10.25"	1+79.24	123.18
	B-16	L-861 T	12"	10.25"	1+88.52	83.45
	B-17	L-861 T	12"	10.25"	2+04.35	63.52
	B-18	L-861 T	12"	10.25"	2+28.78	54.04
	B-19	L-861 T	12"	10.25"	2+66.38	47.92
	B-20	L-861 T	12"	10.25"	3+03.99	41.80
	B-21	L-861 T	12"	10.25"	3+41.59	35.68
	B-22	L-861 T	12"	10.25"	3+91.59	35.59
	B-23	L-861 T	12"	10.25"	4+21.69	35.54
	B-24	L-861 T	12"	10.25"	5+01.78	35.40
	B-25	L-861 T	12"	10.25"	5+31.87	35.35
	B-26	L-861 T	12"	10.25"	5+81.87	35.27
	B-27	L-861 T	12"	10.25"	6+77.51	35.11
	B-28	L-861 T	12"	10.25"	7+69.53	34.95
	B-29	L-861 T	12"	10.25"	8+16.78	45.78
	B-30	L-861 T	12"	10.25"	8+64.02	56.60
	B-31	L-861 T	12"	10.25"	8+87.73	69.36
	B-32	L-861 T	12"	10.25"	8+99.67	93.47
	B-33	L-861 T	12"	10.25"	9+09.37	139.72
	B-34	L-861 T	12"	10.25"	9+19.07	185.96
	B-35	L-861 T	12"	10.25"	9+20.33	229.80
	B-36	L-861 T	12"	10.25"	9+12.15	268.20
	B-37	L-861 T	12"	10.25"	8+91.81	301.79
	B-38	L-861 T	12"	10.25"	8+61.57	326.83
	B-39	L-861 T	12"	10.25"	10+63.78	332.39
	B-40	L-861 T	12"	10.25"	10+26.77	308.74
	B-41	L-861 T	12"	10.25"	10+01.18	273.04
	B-42	L-861 T	12"	10.25"	9+90.67	230.39
	B-43	L-861 T	12"	10.25"	9+90.56	187.33
	B-44	L-861 T	12"	10.25"	10+00.57	140.74
	B-45	L-861 T	12"	10.25"	10+10.58	94.15
	B-46	L-861 T	12"	10.25"	10+21.85	69.69
	B-47	L-861 T	12"	10.25"	10+45.54	56.89
	B-48	L-861 T	12"	10.25"	10+94.13	46.23
	B-49	L-861 T	12"	10.25"	11+41.94	35.73
	B-50	L-861 T	12"	10.25"	11+91.94	35.63

TAXIWAY EDGE LIGHT SCHEDULE

BASELINE REF.	LIGHT NO.	LIGHT TYPE	LIGHT DIA.	BOLT CIRCLE DIA.	STATION	OFFSET
TAXIWAY B	B-51	L-861 T	12"	10.25"	13+08.34	35.37
	B-52	L-861 T	12"	10.25"	14+24.74	35.17
	B-53	L-861 T	12"	10.25"	14+74.74	35.07
	B-54	L-861 T	12"	10.25"	15+23.58	34.99
	B-55	L-861 T	12"	10.25"	15+72.42	34.90
	B-56	L-861 T	12"	10.25"	16+21.26	34.82
	B-57	L-861 T	12"	10.25"	17+05.21	34.70
	B-58	L-861 T	12"	10.25"	17+55.21	34.81
	B-59	L-861 T	12"	10.25"	17+81.53	34.90
	B-60	L-861 T	12"	10.25"	18+57.85	35.13
	B-61	L-861 T	12"	10.25"	18+84.16	35.22
	B-62	L-861 T	12"	10.25"	19+34.16	35.37
	B-63	L-861 T	12"	10.25"	19+34.04	-35.52
	B-64	L-861 T	12"	10.25"	19+09.93	-39.60
	B-65	L-861 T	12"	10.25"	18+87.94	-50.30
	B-66	L-861 T	12"	10.25"	18+69.85	-66.75
	B-67	L-861 T	12"	10.25"	18+69.72	-81.31
	B-68	L-861 T	12"	10.25"	18+81.57	-89.76
	B-69	L-861 T	12"	10.25"	17+43.32	-89.85
	B-70	L-861 T	12"	10.25"	17+56.43	-81.94
	B-71	L-861 T	12"	10.25"	17+55.81	-66.65
	B-72	L-861 T	12"	10.25"	17+42.01	-51.63
	B-73	L-861 T	12"	10.25"	17+24.68	-40.89
	B-74	L-861 T	12"	10.25"	17+05.10	-35.22
	B-75	L-861 T	12"	10.25"	16+21.14	-35.07
	B-76	L-861 T	12"	10.25"	16+02.15	-42.59
	B-77	L-861 T	12"	10.25"	15+93.52	-61.61
	B-78	L-861 T	12"	10.25"	16+01.54	-81.30
	B-79	L-861 T	12"	10.25"	16+21.06	-89.72
	B-80	L-861 T	12"	10.25"	14+63.01	-90.25
	B-81	L-861 T	12"	10.25"	14+82.25	-87.27
	B-82	L-861 T	12"	10.25"	14+98.61	-77.17
	B-83	L-861 T	12"	10.25"	15+02.26	-58.69
	B-84	L-861 T	12"	10.25"	14+92.53	-42.65
	B-85	L-861 T	12"	10.25"	14+74.62	-35.25
	B-86	L-861 T	12"	10.25"	14+24.62	-35.26
	B-87	L-861 T	12"	10.25"	13+08.22	-35.28
	B-88	L-861 T	12"	10.25"	11+91.82	-35.31
	B-89	L-861 T	12"	10.25"	11+41.82	-35.25
	B-90	L-861 T	12"	10.25"	10+91.82	-35.33
	B-91	L-861 T	12"	10.25"	10+48.72	-35.34
	B-92	L-861 T	12"	10.25"	9+55.62	-35.36
	B-93	L-861 T	12"	10.25"	8+62.52	-35.38
	B-94	L-861 T	12"	10.25"	8+19.42	-35.39
	B-95	L-861 T	12"	10.25"	7+69.41	-35.40
	B-96	L-861 T	12"	10.25"	6+77.40	-35.42
	B-97	L-861 T	12"	10.25"	5+81.75	-35.45
	B-98	L-861 T	12"	10.25"	5+58.01	-42.03
	B-99	L-861 T	12"	10.25"	5+40.82	-59.82
	B-100	L-861 T	12"	10.25"	5+34.62	-83.78
	B-101	L-861 T	12"	10.25"	23+16.53	35.68

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/21/2013

DESIGNER/DRAFTER: JRH
CHECKED BY: WTG
SCALE AS NOTED

CAA
CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_E004.dgn

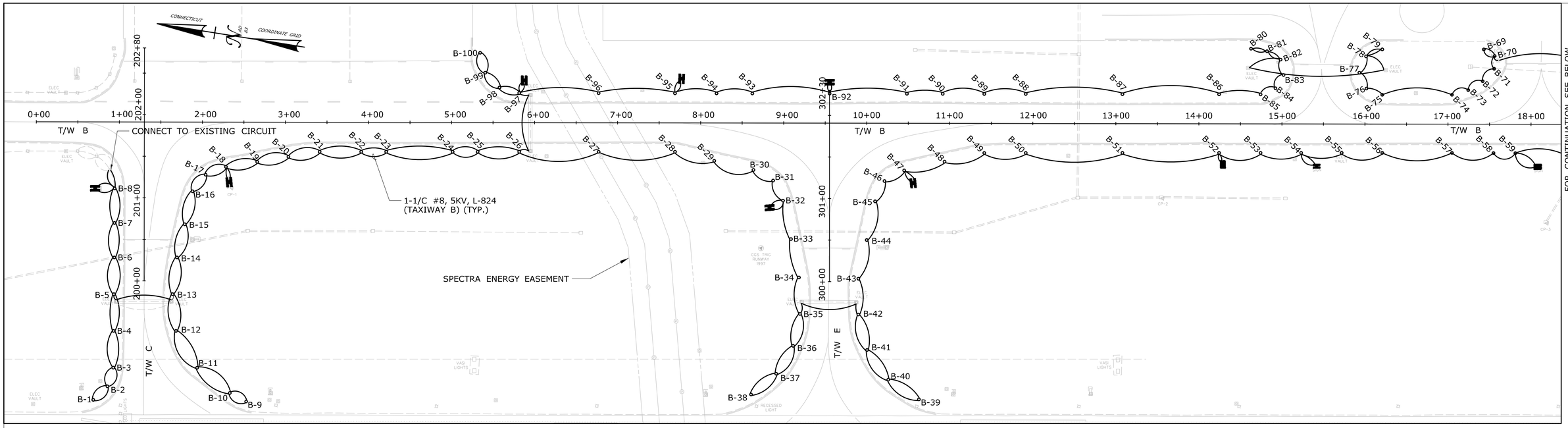
SIGNATURE/BLOCK:
STATE OF CONNECTICUT
WILLIAM R. HOUSTON
No. 18381
LICENSED PROFESSIONAL ENGINEER
JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

PROJECT TITLE:
WATERBURY-OXFORD AIRPORT
REHABILITATION OF TAXIWAY 'B'

TOWN:
OXFORD, CONNECTICUT

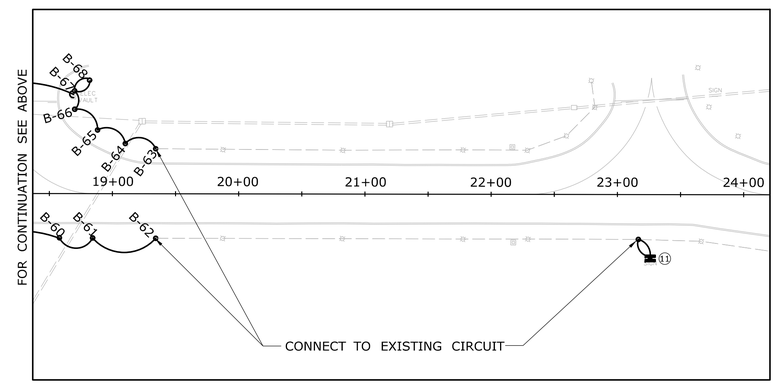
DRAWING TITLE:
GUIDANCE SIGN AND
LIGHT FIXTURE SCHEDULES

PROJECT NO. 107-178
DRAWING NO. E-004
SHEET NO. 05.06



PARTIAL CIRCUIT SCHEMATIC

NOT TO SCALE



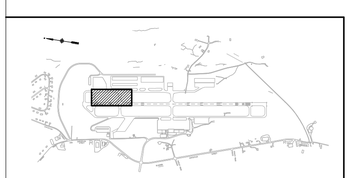
NOTES:

1. CIRCUIT ROUTING SHOWN IS DIAGRAMATICAL ONLY. SEE ELECTRICAL PLANS FOR EXACT CABLE LOCATIONS.

CABLE IDENTIFICATION LEGEND

1-1/C #8 5KV L-824 (T/W B)

- QUANTITY OF CABLE
- TYPE OF CABLE
- CIRCUIT DESIGNATION



KEY PLAN
NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/21/2013

DESIGNER/DRAFTER: JRH
CHECKED BY: WTG
SCALE IN FEET
0 60 120
SCALE 1" = 60'

CAA™ CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_E005.dgn

SIGNATURE/ BLOCK:

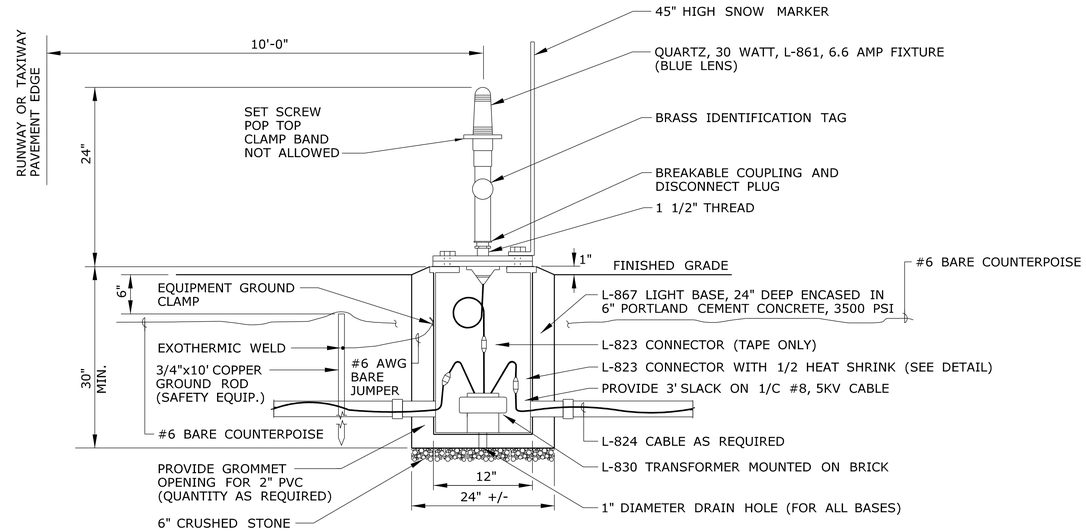
JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

PROJECT TITLE:
WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

TOWN:
OXFORD, CONNECTICUT

DRAWING TITLE:
TAXIWAY B PARTIAL CIRCUIT SCHEMATIC

PROJECT NO. 107-178
DRAWING NO. E-005
SHEET NO. 05.07



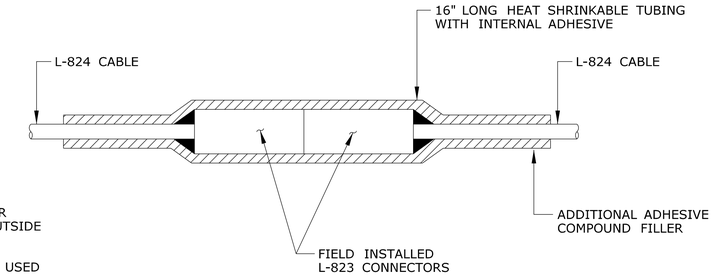
NOTE

DO NOT CONNECT BARE COUNTERPOISE TO LIGHT, BASE OR SAFETY GROUND ROD.
CONNECT BARE COUNTERPOISE WIRE TO LIGHTNING PROTECTION GROUND RODS AS SHOWN ON DRAWING E-007.

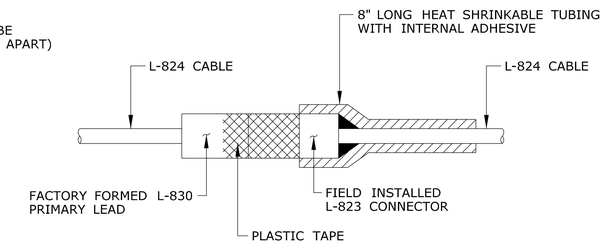
NEW MEDIUM INTENSITY ELEVATED BASE MOUNTED TAXIWAY EDGE LIGHT
NOT TO SCALE

SPLICING NOTES:

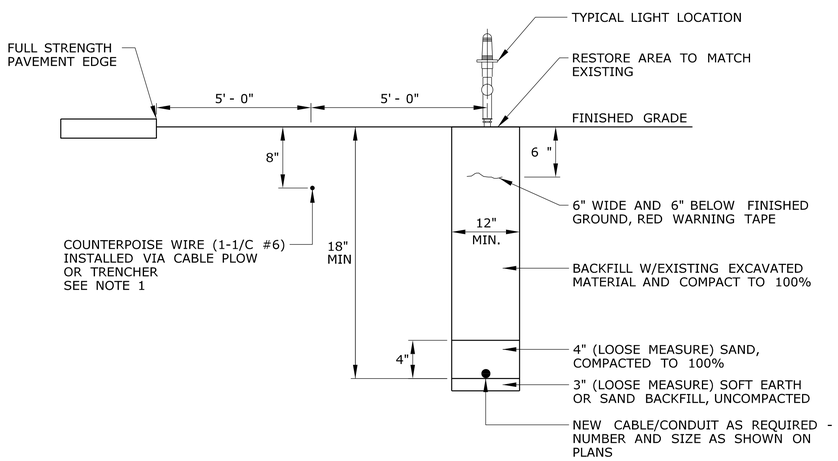
1. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
2. HEAT SHRINK TUBING SHALL BE USED ON ALL FIELD INSTALLED L-823 CONNECTORS EXCEPT FOR SECONDARY CONNECTIONS ON ISOLATION TRANSFORMERS.
3. USE PENCILING TOOL WHEN REMOVING CABLE INSULATION TO PREVENT NICKING.
4. USE CRIMPING TOOL (THOMAS & BETTS TBM 25S OR EQUAL) WHEN INSTALLING SERIES CIRCUIT PINS. EACH PIN SHALL BE CRIMPED TWICE (CRIMPS SHALL BE 90° APART)



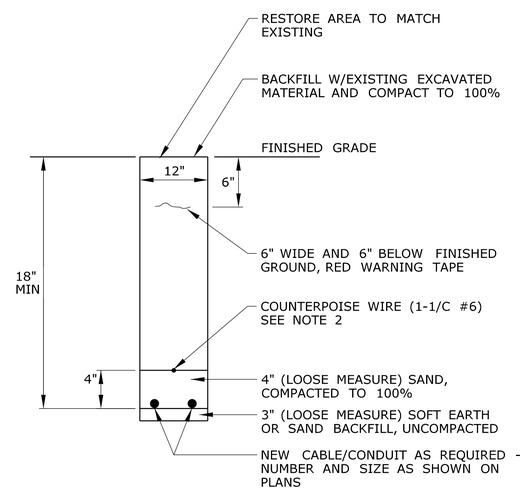
L-823 CONNECTOR DETAIL FOR STRAIGHT THRU SPLICE
NOT TO SCALE



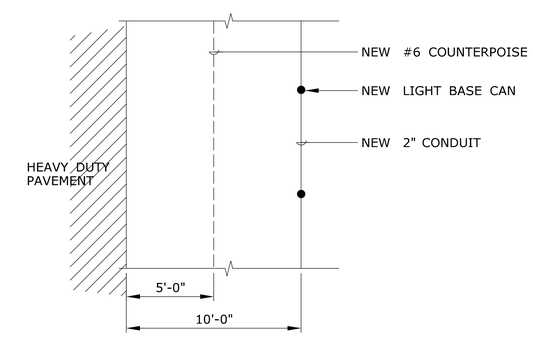
L-823 CONNECTOR DETAIL AT ISOLATION TRANSFORMER
NOT TO SCALE



NEW COUNTERPOISE PLACEMENT IN EARTH (DETAIL 1)
NOT TO SCALE



NEW COUNTERPOISE PLACEMENT IN EARTH (DETAIL 2)
NOT TO SCALE



NEW CABLE PLACEMENT DETAIL
NOT TO SCALE

COUNTERPOISE PLACEMENT NOTES:

1. WHERE CABLE/CONDUIT RUNS ARE ADJACENT TO PAVEMENT, SUCH AS ALONG RUNWAY OR TAXIWAY EDGES, THE COUNTERPOISE SHALL BE INSTALLED 8" BELOW GRADE, LOCATED HALF THE DISTANCE FROM EDGE OF PAVEMENT TO THE CABLE OR UNENCASED CONDUIT.
2. WHERE CABLE/CONDUIT INSTALLATION IS NOT ADJACENT TO PAVEMENT, THE COUNTERPOISE SHALL BE INSTALLED DIRECTLY ABOVE THE CABLE/CONDUIT AT A MINIMUM DISTANCE OF 4" FROM THE CABLE.

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Plotted Date: 11/21/2013

DESIGNER/DRAFTER: JRH
CHECKED BY: WTG
SCALE AS NOTED

CAA CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD..MSH..107..178..E006.dgn

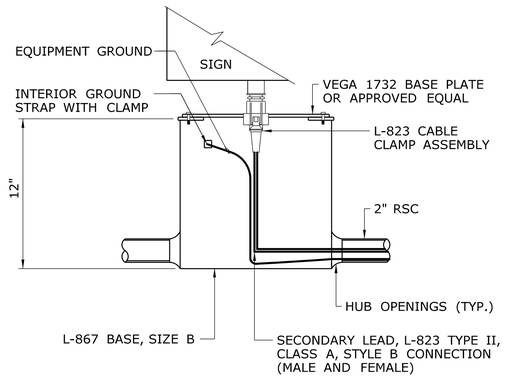
SIGNATURE/BLOCK:
JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

PROJECT TITLE: WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

TOWN: OXFORD, CONNECTICUT

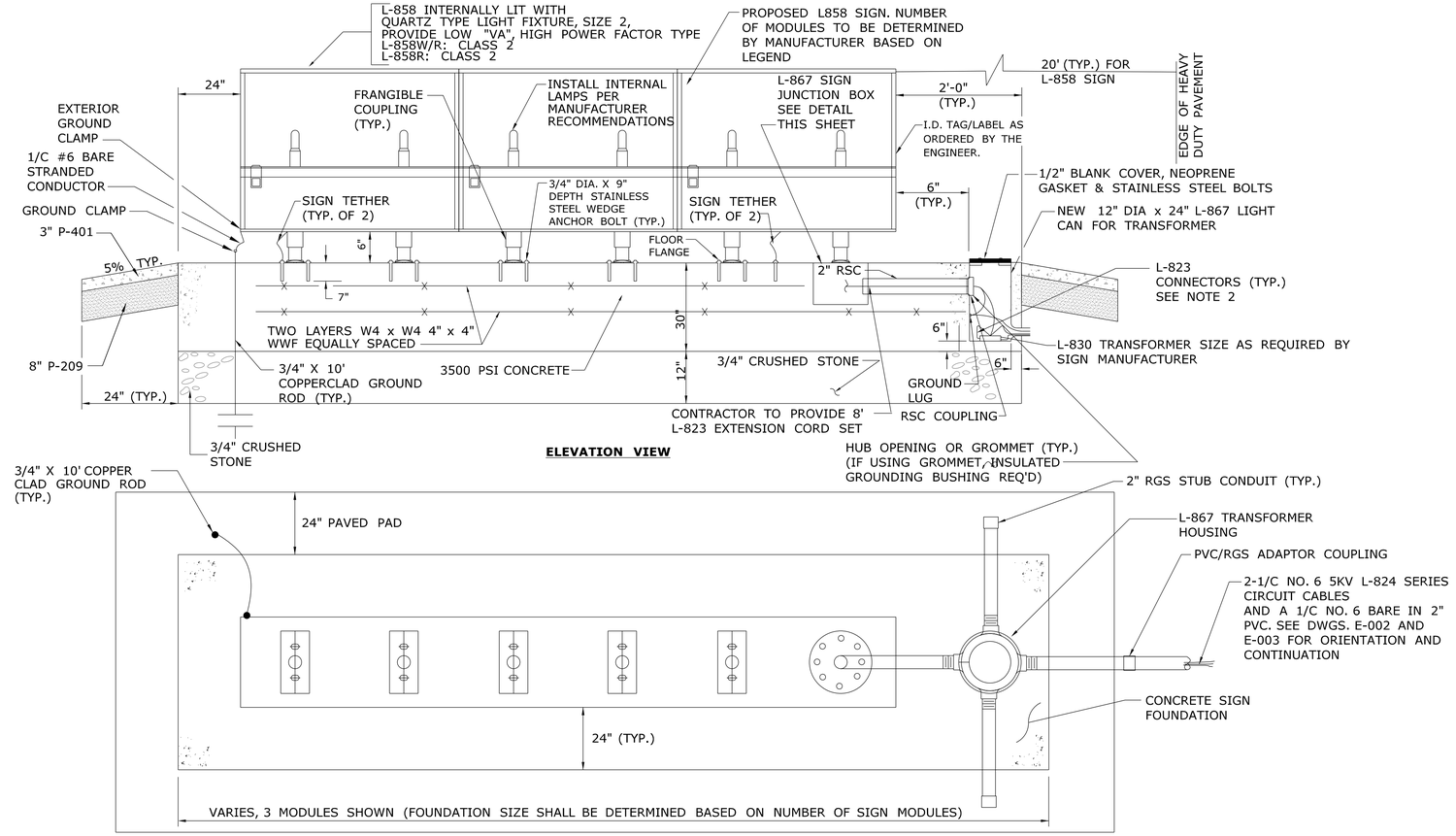
DRAWING TITLE: ELECTRICAL DETAILS - 1

PROJECT NO. 107-178
DRAWING NO. E-006
SHEET NO. 05.08



L-867 SIGN JUNCTION BOX DETAIL

NOT TO SCALE



* WHEN SIGNS ARE PLACED IN AN ARRAY, FOUNDATION SHALL BE PLACED AS A COMPLETE UNIT FOR BOTH SIGNS. LATERAL DISTANCE BETWEEN SIGNS SHALL BE BETWEEN 3" AND 12"

NOTES:

1. PROVIDE SIGNS WITH FLAT PANEL FACES AS SPECIFIED, CURVED PANELS WILL NOT ACCEPTED.
2. PROVIDE HEAT SHRINK ON LINE SIDE OF PRIMARY CONNECTOR KITS ONLY. SECONDARY L-823 CONNECTION TO BE TAPED ONLY.
3. SIGN FOUNDATION SHALL BE PRECAST.
4. REFER TO SIGN SCHEDULE ON DRAWING E-004.

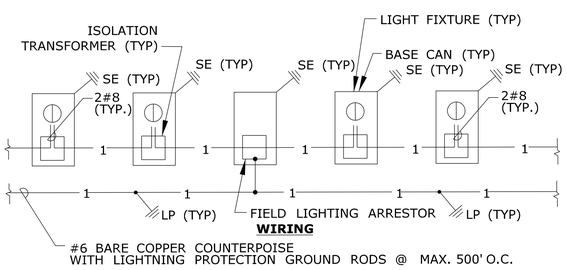
L-858 AIRFIELD GUIDANCE SIGN DETAIL

NOT TO SCALE

LEGEND:

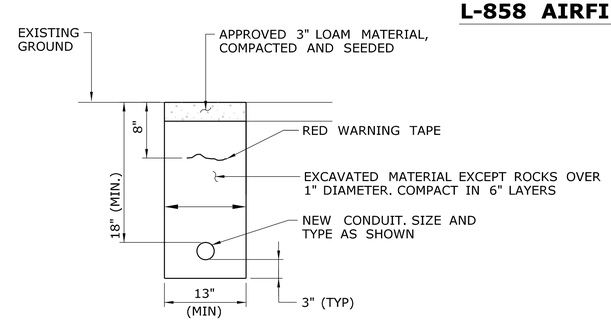
NOT TO SCALE

1	1 #8 AWG, 5KV, PER CIRCUIT. EDGE LIGHTING CABLES, CONTINUES FOR LENGTH OF CIRCUIT (TYP)
1	1 #6 BARE COPPER COUNTERPOISE WIRE ABOVE DUCTBANK WITH LIGHTNING PROTECTION GROUND RODS @ MAX. 500' O.C.
LP	GROUND ROD (LP = LIGHTNING PROTECTION GROUND ROD FOR COUNTERPOISE WIRE ABOVE DUCTBANK)
SE	SAFETY EQUIPMENT GROUND ROD



LIGHTING CONDUIT/WIRING CONFIGURATION (IN INFIELD)

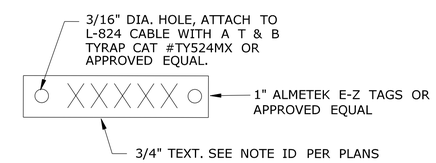
NOT TO SCALE



NOTE: SEE SHEET E-006 FOR COUNTERPOISE WIRE PLACEMENT

DIRECT BURIED PVC CONDUIT

NOT TO SCALE



NOTE:

ALL L-824 CABLES SHALL BE IDENTIFIED WITH A TAG WITH ITS RESPECTIVE CIRCUIT/LOOP NUMBER AT ALL ACCESSIBLE LOCATIONS. ATTACH THE ID TAG 12" FROM THE L-823 CONNECTORS. THE LOOPS SHALL BE IDENTIFIED ON EACH SIDE OF THE CONNECTORS

TYPICAL L-824 CABLE ID TAG

NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/21/2013

DESIGNER/DRAFTER: JRH

CHECKED BY: WTG

SCALE AS NOTED

CAA CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_E007.dgn

SIGNATURE/BLOCK:

JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

PROJECT TITLE: WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

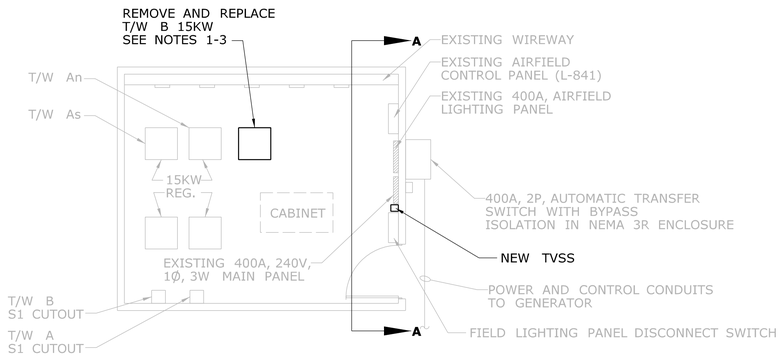
TOWN: OXFORD, CONNECTICUT

DRAWING TITLE: ELECTRICAL DETAILS - 2

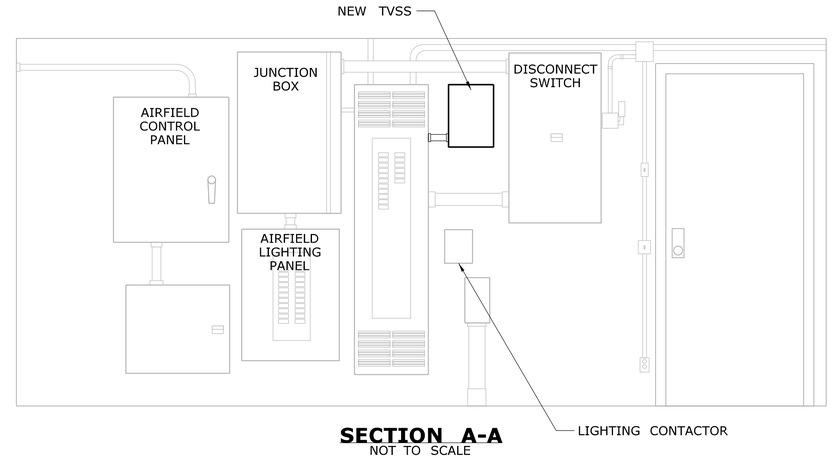
PROJECT NO. 107-178

DRAWING NO. E-007

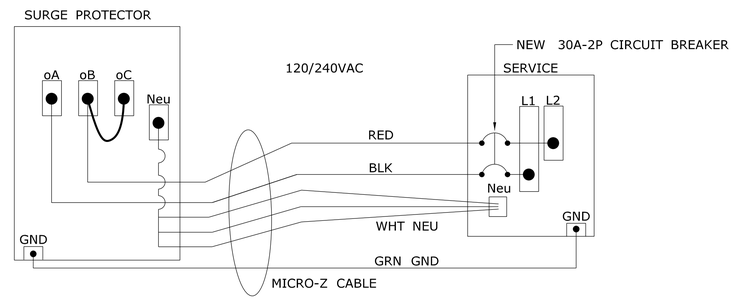
SHEET NO. 05.09



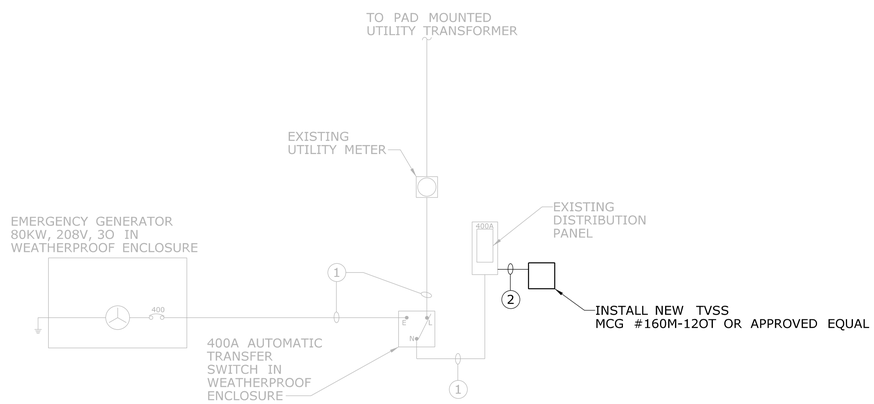
AIRPORT LIGHTING VAULT
NOT TO SCALE



SECTION A-A
NOT TO SCALE

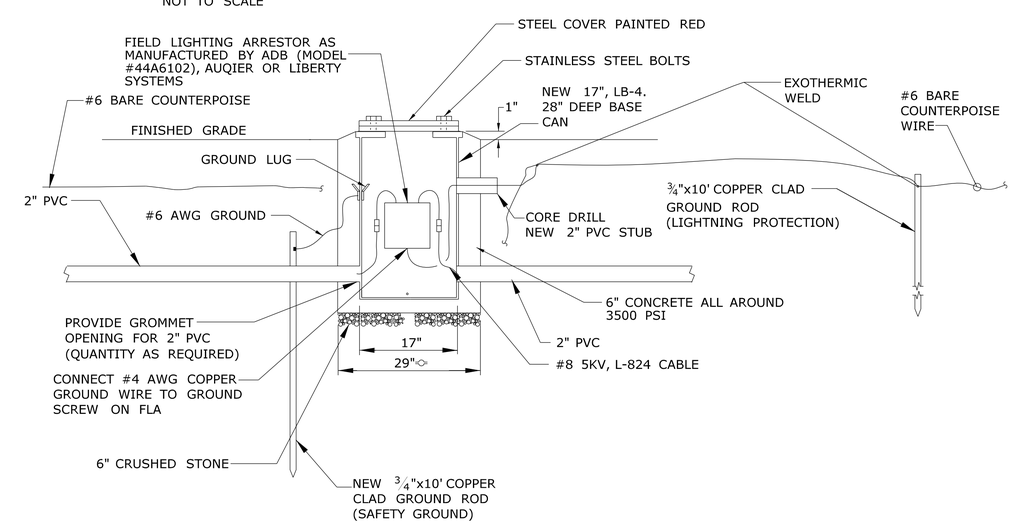


ONE LINE DIAGRAM (SINGLE PHASE)
NOT TO SCALE



AIRPORT LIGHTING VAULT
NOT TO SCALE

1. EXISTING (3) #600 KCMIL IN 4" C
2. LOW IMPEDENCE MICRO-Z CABLE IN 1" EMT



FIELD LIGHTING ARRESTOR IN NEW BASE CAN
NOT TO SCALE

NOTES:

1. NEW CCR SHALL BE DRY TYPE 6.6AMP OUTPUT, 240V INPUT, 3 STEP, FERRO RESONANT, 120V CONTROL POWER, OUTPUT METERING PACKAGE, 15KW. RECONNECT EXISTING CONTROL CIRCUIT AND INPUT POWER CONNECTIONS.
   EXISTING CCR SHALL BE TURNED OVER TO THE AIRPORT AND STORED AT A LOCATION TO BE DETERMINED BY THE ENGINEER.
2. REPLACE INPUT POWER WIRING BACK TO PANELBOARD (2#1 AWG & 1#8 GND) IN EXISTING CONDUIT SYSTEM.
3. REPLACE INPUT 120V CONTROL WIRING BACK TO EXISTING L-841 CONTROL PANEL (2#12 AWG) IN EXISTING CONDUIT SYSTEM.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/26/2013

DESIGNER/DRAFTER: JRH
CHECKED BY: WTG
SCALE AS NOTED

CAA
CONNECTICUT AIRPORT AUTHORITY

Filename: ...\FD_MSH_107_178_E008.dgn

SIGNATURE/BLOCK:
STATE OF CONNECTICUT
No. 13330
JACOBS ENGINEERING GROUP
343 CONGRESS STREET, 2ND FL
BOSTON, MA 02210

PROJECT TITLE:
WATERBURY-OXFORD AIRPORT REHABILITATION OF TAXIWAY 'B'

TOWN: **OXFORD, CONNECTICUT**

DRAWING TITLE: **ELECTRICAL DETAILS - 3**

PROJECT NO. 107-178
DRAWING NO. E-008
SHEET NO. 05.10