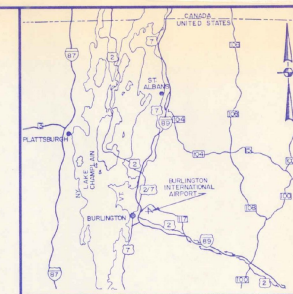


VICINITY MAP

 FEET 2000 4000 6000
 SCALE: 1" = 2000'

CITY OF BURLINGTON VERMONT



LOCATION MAP

 MILES 0 10 20
 SCALE: 1" = 10 MILES (APPROX.)

BURLINGTON INTERNATIONAL AIRPORT

INSTALL EMERGENCY GENERATOR

AIP PROJECT NO. 3-50-0005-13

AIR 03-2068 ~~7~~

JUNE 1988

MAJOR ITEM QUANTITIES

ITEM NO.	DESCRIPTION	UNIT
3-1	UNDERGROUND FUEL OIL STORAGE TANK	LUMP SUM
7-1	INSTALL DIESEL ENGINE/GENERATOR	LUMP SUM

INDEX TO DRAWINGS

DWG. NO.	TITLE	SHT. NO.
1	TITLE SHEET	1 OF 7
2	GENERAL PLAN	2 OF 7
3	FUEL TANK INSTALLATION AND MISC. DETAILS	3 OF 7
4	VENTILATION, PIPING AND DETAILS	4 OF 7
5	DEMOLITION PLAN - LUG. AND RECP. PLAN	5 OF 7
6	POWER PLAN	6 OF 7
7	ONE LINES AND ELEMENTARIES	7 OF 7

DISCLOSURE STATEMENTS REGARDING COMPLIANCE

These plans and specifications have been prepared to the best of my knowledge and belief, in accordance with current FAA Advisory Circulars as listed in AC 09-222, Chapter 1, Advisory Circulars, Chapter 1, dated 05/01/87. Some deviations from the FAA standards were approved by FAA letter dated [redacted] and are disclosed in the project engineering report "NOTES" sheet, details project documents.

HOYLE, TANNER & ASSOCIATES, INC.

BY: [Signature] DATE: 6/8

Registration No. [redacted]

CITY OF BURLINGTON, VERMONT

VERMONT AGENCY OF TRANSPORTATION

 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION
 NEW ENGLAND REGION

 APPROVED _____
 DIRECTOR OF AVIATION
 DATE _____
 APPROVED _____
 DATE _____
 APPROVED _____
 DATE _____

 APPROVED _____
 SECRETARY OF TRANSPORTATION
 DATE _____
 APPROVED _____
 DIRECTOR OF ENGINEERING & CONSTRUCTION
 DATE _____

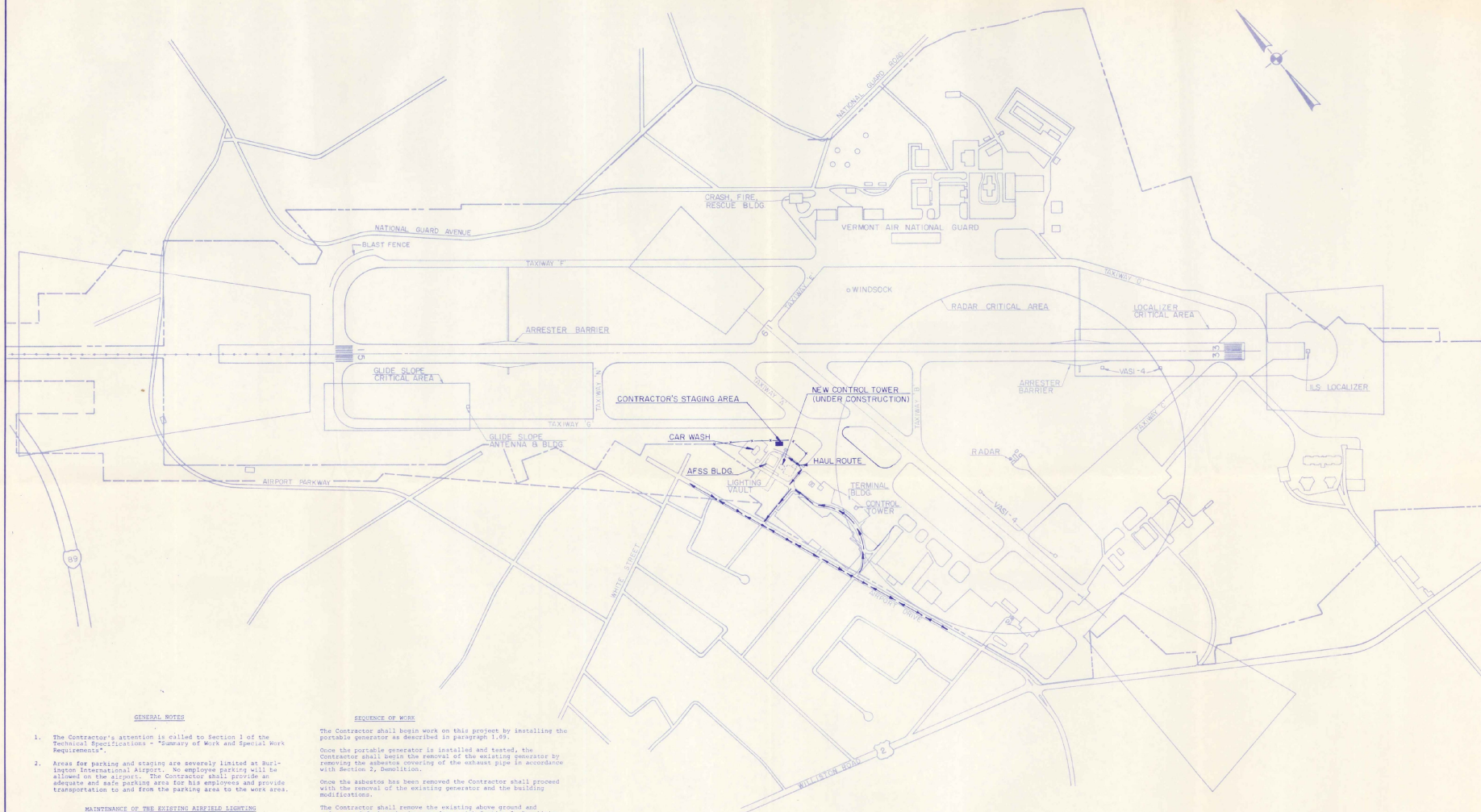
 APPROVED _____
 MANAGER OF AIRPORT ENGINEERING & SAFETY BRANCH
 DATE _____
 APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS
 IN LETTERS.
 DATED _____

REV.		DESCRIPTION		DES. BY	CHKD. BY	REV'D. BY	DATE
CITY OF BURLINGTON, VERMONT BURLINGTON INTERNATIONAL AIRPORT INSTALL EMERGENCY GENERATOR TITLE SHEET							
HTA Hoyle, Tanner & Associates, Inc. engineers/architects/planners/surveyors 5 COMMERCE PARK NORTH BEDFORD, NH							
in association with: ABR Alonzo B. Reed, Inc. architects/engineers/planners 12 FARNSWORTH ST. BOSTON, MA							
SCALE: AS SHOWN DATE: JUNE 1988				PROJECT NO. 37717		DRAWING NO. 1	
DES. BY	CHKD. BY	CHKD. BY	SHEET OF				
JBD	CBB	JBD	1 7				

AIP NO. 3-50-0005-13

DO NOT SCALE DRAWING

 AIP 3-50-0005-13
 AIR 03-2068
 1988



GENERAL NOTES

1. The Contractor's attention is called to Section 1 of the Technical Specifications - "Summary of Work and Special Work Requirements".
2. Areas for parking and staging are severely limited at Burlington International Airport. No employee parking will be allowed on the airport. The Contractor shall provide adequate and safe parking area for his employees and provide transportation to and from the parking area to the work area.

MAINTENANCE OF THE EXISTING AIRFIELD LIGHTING

All existing lighting systems on the airport facilities which are open to aircraft shall be operational each night and during inclement weather throughout the construction period.

It shall be the responsibility of the Contractor to check the operation of the existing lights each day, to notify the Engineer and the Operations Coordinator of any problem and make any repairs necessary due to his operations.

The Contractor shall furnish, install, and maintain a 50 KW, 120/240 VPH, portable engine generator and connect this generator to the existing transfer switch to automatically provide power to the airfield lighting systems in case of the loss of commercial power.

It shall be the Contractor's responsibility to check the operation of the generator each day to insure that generator will operate the airfield lighting in an emergency.

The portable generator shall be installed prior to any work on the existing generator and shall remain in place until the new generator is installed, tested, and accepted. The Contractor shall furnish and install all materials necessary to install the temporary generator and make any temporary connections to keep the existing airfield lighting operational until the new generator is installed, tested and accepted.

SEQUENCE OF WORK

The Contractor shall begin work on this project by installing the portable generator as described in paragraph 1.01.

Once the portable generator is installed and tested, the Contractor shall begin the removal of the existing generator by removing the asbestos covering of the exhaust pipe in accordance with Section 2, Demolition.

Once the asbestos has been removed the Contractor shall proceed with the removal of the existing generator and the building modifications.

The Contractor shall remove the existing above ground and underground fuel tanks in accordance with Section 2, Demolition. The new underground fuel tank will be installed in approximate the same location as the existing underground tank.

The Contractor shall conduct his operations in such a manner as to maintain access at all times to the rental car parking lots and car wash which are adjacent to the lighting vault.

SMULTANEOUS CONSTRUCTION

The Contractor is hereby notified that contractor(s) for the Federal Aviation Administration will be constructing a new Air Traffic Control Tower adjacent to the Automated Flight Services Station and Contractor(s) for Burlington International Airport will be constructing the north end of the Terminal. Both Contractors on both projects will be working in and around the lighting vault.

DISPOSAL AREA

No disposal of materials from this project will be permitted on airport property.

The Contractor shall legally dispose of all materials off airport property in all accordance with Section 2, Demolition.

ENGINEER/ARCHITECT

PROJECT NO.
37717

Hoyle, Tanner & Associates, Inc.
INCORPORATED
100 NORTH AVENUE
BURLINGTON, VERMONT 05401
TELEPHONE (802) 263-1111
FAX (802) 263-1112
ALONZO B. REED, INC.
A ASSOCIATION WITH
27 FARMINGTON ST. BURLINGTON, VT 05401

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT

INSTALL EMERGENCY GENERATOR

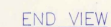
GENERAL PLAN

DRAWING NO.

2

SHEET 2 OF 7

DO NOT SCALE DRAWING



UNDERGROUND FUEL OIL TANK DETAILS

- | | |
|-------|------------------------|
| —FOS— | FUEL OIL SUPPLY |
| —FOR— | FUEL OIL RETURN |
| —F— | FILL PIPE |
| —V— | VENT PIPE |
| —TG— | TANK GAUGE LINE |
| —HM— | HYDROSTATIC MONITORING |

[illegible]

PROJECT NO.

37717

HTA
Companies
engineers
architects
planners
surveyors

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North · Bedford NH 03102 · (603) 669-5555

SCALE: AS SHOWN	DATE: JUNE, 1988	DES. BY JDC	DR. BY WLD	CHKD. BY DGF
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DO NOT SCALE DRAWING

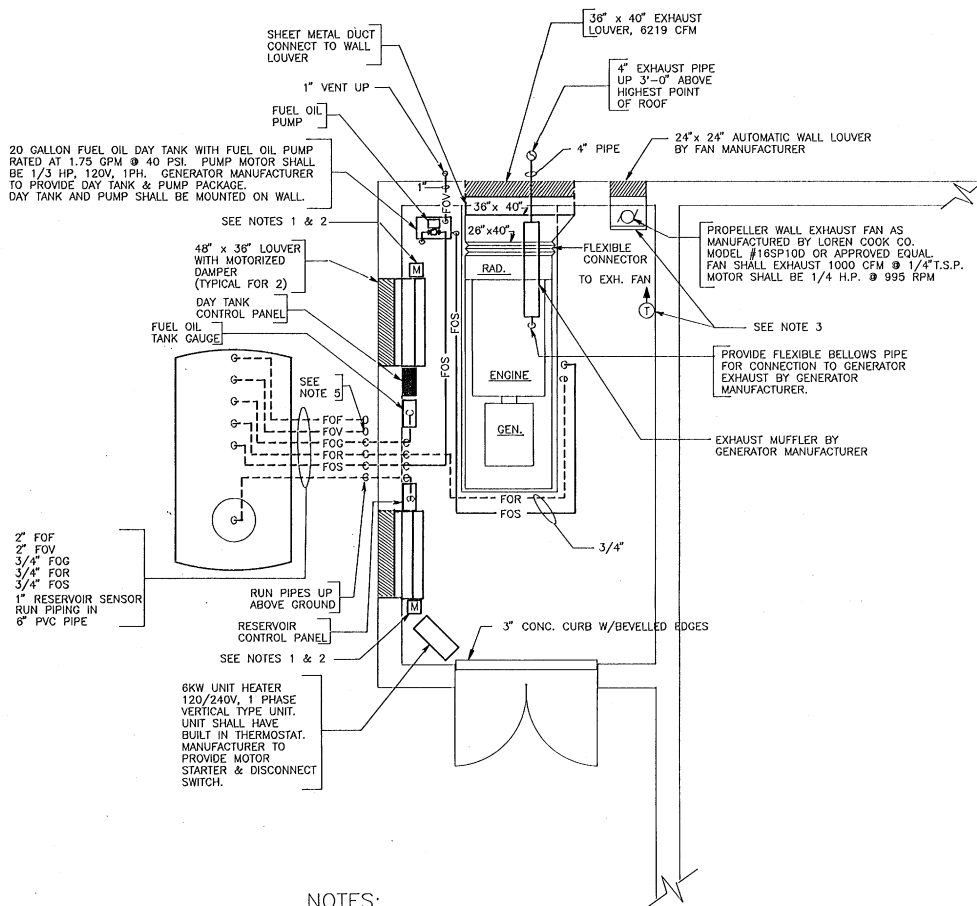
BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT

**INSTALL EMERGENCY GENERATOR
FUEL TANK INSTALLATION
& MISC. DETAILS**
ARCHITECTURAL/STRUCTURAL

DRAWING NO

3

SHEET 3 OF 7



NOTES:

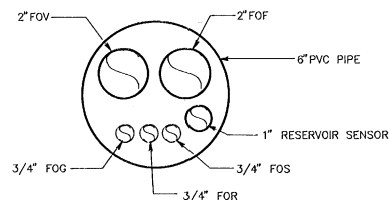
1. MOTOR OPERATOR FOR DAMPER SHALL BE NORMALLY OPEN. DAMPER SHALL BE CLOSED UNDER NORMAL OPERATION. PROVIDE SPRING RETURN ON MOTOR OPERATOR TO OPEN DAMPER WHEN THERE IS A POWER FAILURE.
2. MOTOR OPERATOR FOR DAMPER SHALL BE INTERLOCKED WITH THE WALL EXHAUST FAN TO OPEN WHEN EXHAUST FAN STARTS.
3. ELECTRIC WALL THERMOSTAT SHALL ENERGIZE EXHAUST FAN WHEN SPACE TEMPERATURE IS 90° F OR ABOVE.
4. ALL LOUVERS SHALL HAVE BIRD SCREEN AND INSECT SCREEN.
5. FUEL OIL VENT SHALL RISE 12'-0" ABOVE FINISHED FLOOR.

VENTILATION - PIPING PLAN

SCALE: 1/2" = 1'-0"

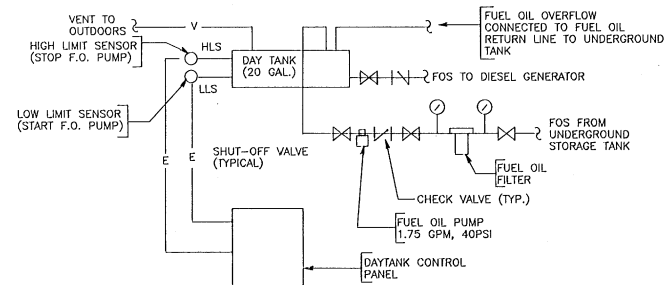
LEGEND

- PIPE TURNED UP
- ◊ PIPE TURNED DOWN
- ▨ WALL LOUVER
- ▭ MOTORIZED DAMPER
- ▬ BACKDRAFT DAMPER
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- FOV FUEL OIL VENT
- FOG FUEL OIL GAUGE



TYPICAL UNDERGROUND PIPING DETAIL

SCALE: NONE



FUEL OIL PIPING SCHEMATIC

SCALE: NONE

ENGINEER/ARCHITECT



PROJECT NO. 37717

DATE: JUNE, 1988

SCALE: AS SHOWN

DATE: JUNE, 1988

SCALE: AS SHOWN

DATE: JUNE, 1988

SCALE: AS SHOWN

DATE: JUNE, 1988

SCALE: AS SHOWN

DATE: JUNE, 1988

SCALE: AS SHOWN

DATE: JUNE, 1988

SCALE: AS SHOWN

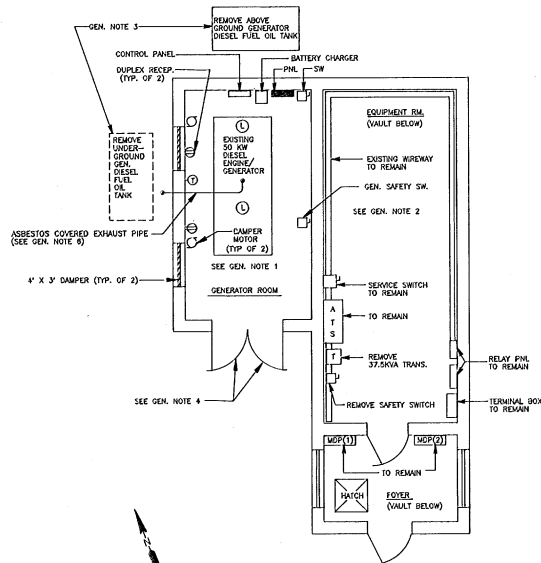
DATE: JUNE, 1988

SCALE: AS SHOWN

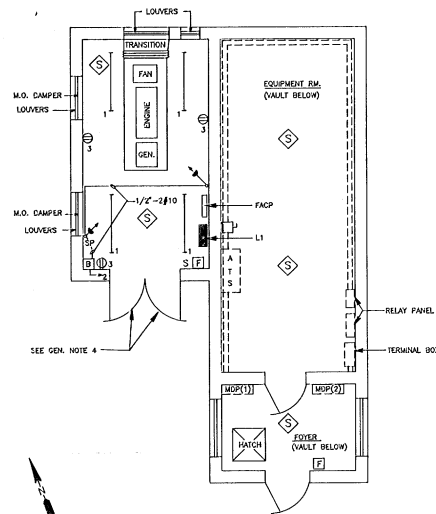
DATE: JUNE, 1988

SCALE: AS SHOWN

DATE: JUNE, 1988



DEMOLITION PLAN
SCALE: 1/4"=1'-0"



LTG. RECP. & COMM. PLAN
SCALE: 1/4"=1'-0"

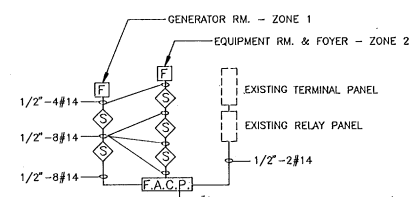
GENERAL NOTES

1. REMOVE EXISTING ENGINE/GENERATOR, PAD, PANEL, BATTERY CHARGE, CONTROL PANEL, LIGHTING FIXTURES, RECEPTABLES, SWITCHES, BRANCH CIRCUITS, DAMPERS, DAMPER MOTORS, CONTROL CONDUIT, FEEDERS AND FEEDER CONDUITS FROM GENERATOR ROOM. (SEE ONE LINE DIAG. SH. 7)
2. REMOVE EXISTING GENERATOR SAFETY SWITCH, TRANSFORMER, FEEDER AND CONDUITS. REMOVE GENERATOR ROOM PANEL FEEDER FROM EXISTING WIRE WAY. SERVICE SWITCH, ATS, MOP (1), MOP (2) AND OTHER AIRFIELD LIGHTING EQUIPMENT NOT SHOWN SHALL REMAIN. (SEE ONE LINE DIAG. SH. 7)
3. EXISTING GENERATOR FUEL OIL TANKS, PIPING AND PETROLEUM CONTAMINATED SOIL SHALL BE REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES AND REGULATIONS. CERTIFIED REPORTS OF ROUTING AND FINAL DISPOSAL OF EQUIPMENT.
4. CONTRACTOR SHALL REMOVE TWO EXISTING 30" X 84" LOUVERED DOORS. DOOR FRAME SHALL REMAIN FOR RE-USE. CONTRACTOR SHALL FURNISH AND INSTALL TWO NEW FIRE RATED DOORS.
5. WHEN REMOVING THE EXISTING GENERATOR AND CONCRETE PAD, DO NOT REMOVE THE EXISTING SYSTEM GROUNDING CONDUCTOR. IT WILL BE RECONNECTED TO THE NEW GENERATOR.
6. EXISTING ASBESTOS COVERED EXHAUST PIPE SHALL BE REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH EPA AND LOCAL AUTHORITIES REGULATIONS. THIS INCLUDES CERTIFIED REPORTS OF ROUTING AND FINAL DISPOSAL OF MATERIAL.
7. ALL CONDUITS WITH 60 HZ POWER CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUND (EG) CONDUCTOR SIGNAL IN ACCORDANCE WITH THE NEC.

MANS: 100 AMP				BUS: ☐ AL ☒ CU				MOUNTING:				CHARACTERISTICS				LOADS:																																																																																																																																																											
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☐ TOP				☒ TOP				☒ SURFACE				1 PHASE 3 WIRE																																																																																																																																																															
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☒ GND BUS				POLES 2				CLASS N.A.																																																																																																																																																																			
<table><tr><td colspan="2">CKT BKR</td><td colspan="10">ISOLATED NEUTRAL</td><td colspan="2">N</td></tr><tr><td>P</td><td>R</td><td>F</td><td>R</td><td>I</td><td colspan="8">LOAD</td><td>L1</td><td>L2</td></tr><tr><td>O</td><td>L</td><td>A</td><td>A</td><td>P</td><td colspan="8"></td><td></td><td></td></tr><tr><td>L</td><td>E</td><td>M</td><td>M</td><td></td><td colspan="8"></td><td></td><td></td></tr><tr><td>S</td><td>E</td><td></td><td></td><td></td><td colspan="8"></td><td></td><td></td></tr></table>												CKT BKR		ISOLATED NEUTRAL										N		P	R	F	R	I	LOAD								L1	L2	O	L	A	A	P											L	E	M	M												S	E														<table><tr><td colspan="2">CKT BKR</td><td colspan="10">GROUND BUS</td><td colspan="2">G</td></tr><tr><td>P</td><td>R</td><td>F</td><td>R</td><td>I</td><td colspan="8">LOAD</td><td></td><td></td></tr><tr><td>O</td><td>L</td><td>A</td><td>A</td><td>P</td><td colspan="8"></td><td></td><td></td></tr><tr><td>L</td><td>E</td><td>M</td><td>M</td><td></td><td colspan="8"></td><td></td><td></td></tr><tr><td>S</td><td>E</td><td></td><td></td><td></td><td colspan="8"></td><td></td><td></td></tr></table>												CKT BKR		GROUND BUS										G		P	R	F	R	I	LOAD										O	L	A	A	P											L	E	M	M												S	E													
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1	1	100	20			ROOM LIGHTING	12AWG	3/4"				3/4"	12AWG	EMERGENCY BATTERY	20	100	1 2																																																																																																																																																										
3	1	100	20			ROOM RECEPTACLE	12AWG	3/4"				3/4"	12AWG	M.O. DAMPERS	20	100	1 4																																																																																																																																																										
5	1	100	20			ROOM RECEPTACLE	12AWG	3/4"				3/4"	12AWG	BATTERY CHARGER	20	100	1 8																																																																																																																																																										
7/9	2	100	30			ENGINE BLOCK HEATER	10AWG	3/4"				3/4"	12AWG	DAY TANK FUEL OIL PUMP	20	100	1 8																																																																																																																																																										
						FIRE ALARM CONTROL PANEL	12AWG	3/4"				3/4"	12AWG	EXHAUST FAN	20	100	1 10																																																																																																																																																										
13	1	100	20			SPARE						3/4"	10AWG	UNIT HEATER & HW	30	100	2 12/14																																																																																																																																																										
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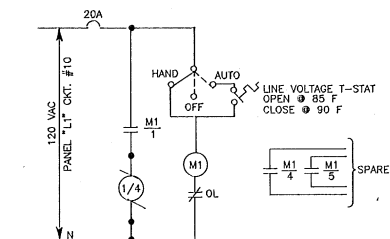
LEGEND

- ①₃ DUPLEX RECEPTACLE NEMA CONF. 5-20R, SURFACE MOUNTED 3'-6" AFF. NUMBER DENOTES CIRCUIT NO.
- ATS AUTOMATIC TRANSFER SWITCH
- MDP(1) MAIN DISTRIBUTION PANEL
- B 12V EMERGENCY BATTERY UNIT WITH SHELF MOUNTED 7'-0" AFF
- 25WATT 12V SEAL BEAM EMERGENCY BATTERY LIGHT. MOUNTED 7'-0" AFF
- S SINGLE POLE SWITCH FOR ROOM LIGHTS. MOUNTED 4'-0" AFF
- SP SINGLE POLE SWITCH FOR EMERGENCY LIGHTS. TOGGLE HANDLE LIGHTS WHEN SWITCH IS OFF. MOUNTED IN A HANDY BOX 5'-0" AFF (UNDER EMERGENCY BATTERY).
- 4FT. SURFACE MOUNTED INDUSTRIAL FLUORESCENT LIGHTING FIXTURE WITH PORCELAIN REFLECTOR, END CAPS, 120V HIGH POWER FACTOR BALLAST & TWO F40CW LAMPS.
- ②₃ A.C. MOTOR - 1/3 INDICATES HORSEPOWER
- ☒ MAGNETIC MOTOR STARTER, 800V, 3P, NEMA SIZE 0, IN NEMA TYPE 1 ENCLOSURE, WITH H-O-A IN COVER, 120V COIL & OVERLOAD.
- ☒ CONTROLS BY EQUIPMENT MANUFACTURER
- ⓧ LINE VOLTAGE THERMOSTAT RATED 10A 120V
- ⓧ CONTACT - NORMALLY OPEN
- ⓧ RELAY
- ⓧ 8" X 8" X 6" NEMA TYPE 1 ENCLOSURE CONTAINING RELAY R1 RATED AT 300V, 10A, 4 N.O. CONTACTS, AND 120V COIL.
- ⓧ MANUAL MOTOR STARTER
- ⓧ FIRE ALARM CONTROL PANEL-4 ZONE
- ⓧ FIRE ALARM SMOKE DETECTOR-PHOTO ELECTRIC TYPE WITH AUDIO BASE.
- ⓧ FIRE ALARM MANUAL PULL STATION MOUNT 5'-0" AFF
- ⓧ STORED PRESSURE HALON 1211 WALL MOUNTED FIRE EXTINGUISHER. MINIMUM RATED 10 B.C.
- EG EQUIPMENT GROUND
- N NEUTRAL
- T TRANSFORMER DRY TYPE
- ₂ HOME RUN TO PANEL L1 NUMERICAL DENOTES CKT. NO.
- A ANNUNCIATOR DROP
- ☐ SAFETY SWITCH
- ⓧ-E ENGINE/GENERATOR SET



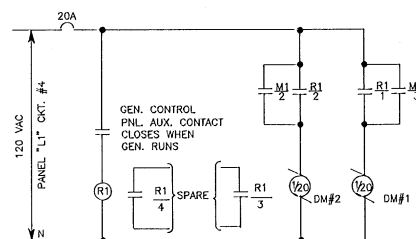
FIRE ALARM RISER DIAGRAM

SCALE: NONE



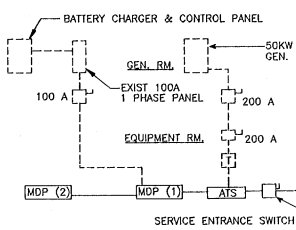
EXHAUST FAN - ELEMENTARY

SCALE: NONE

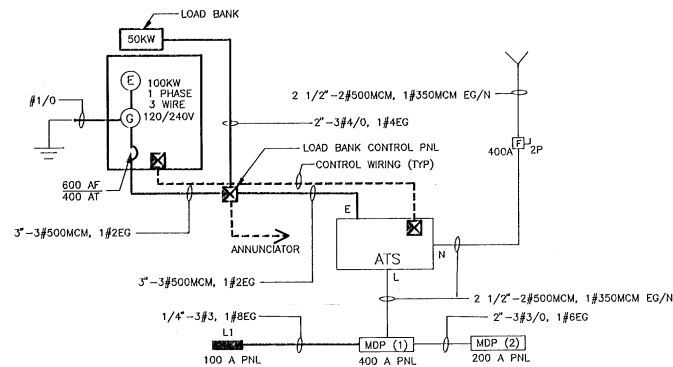


DAMPER MOTORS - ELEMENTARY

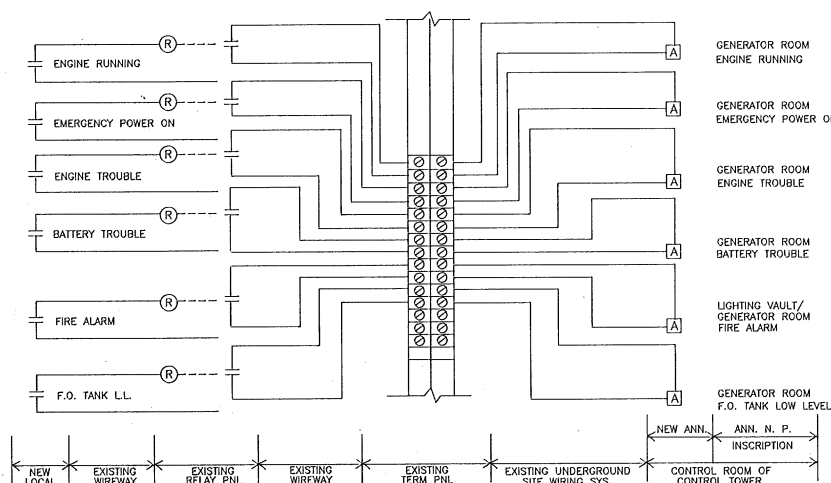
SCALE: NONE



DEMOLITION - ONE LINE

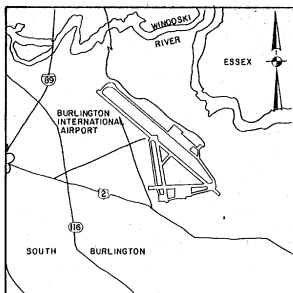
SCALE: NONE
— EQUIPMENT TO REMAIN
--- EQUIPMENT TO BE REMOVED

ONE LINE

SCALE: NONE
— EXISTING
--- NEW

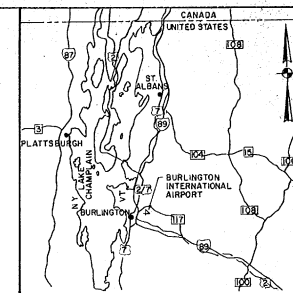
ANNUNCIATOR WIRING DIAGRAM

SCALE: NONE



VICINITY MAP

FEET 2000 0 2000 4000 FEET
SCALE: 1" = 2000'



LOCATION MAP

MILES 0 11 22 MILES
SCALE: 1" = 11 MILES (APPROX)

CITY OF BURLINGTON VERMONT BURLINGTON INTERNATIONAL AIRPORT

INSTALL 8' SECURITY FENCE

AIP PROJECT NO. 3-50-0005-13
CONTRACT II
SEPTEMBER, 1988

MAJOR ITEM QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	AS BUILT
F-162	8' CHAIN LINK FENCE	2500 L.F.	2568 L.F.
F-162	COILED BARBED WIRE	L.F.	0 L.F.

INDEX TO DRAWINGS

DWG. NO.	TITLE	SHT. NO.
1	TITLE SHEET	1 OF 2
2	GENERAL PLAN	2 OF 2

RECORD DRAWINGS
I CERTIFY THAT ALL WORK INDICATED ON
THIS DRAWING HAS BEEN COMPLETED AS
SHOWN.
SIGNED: *[Signature]*
DATE: *12 JAN 89*

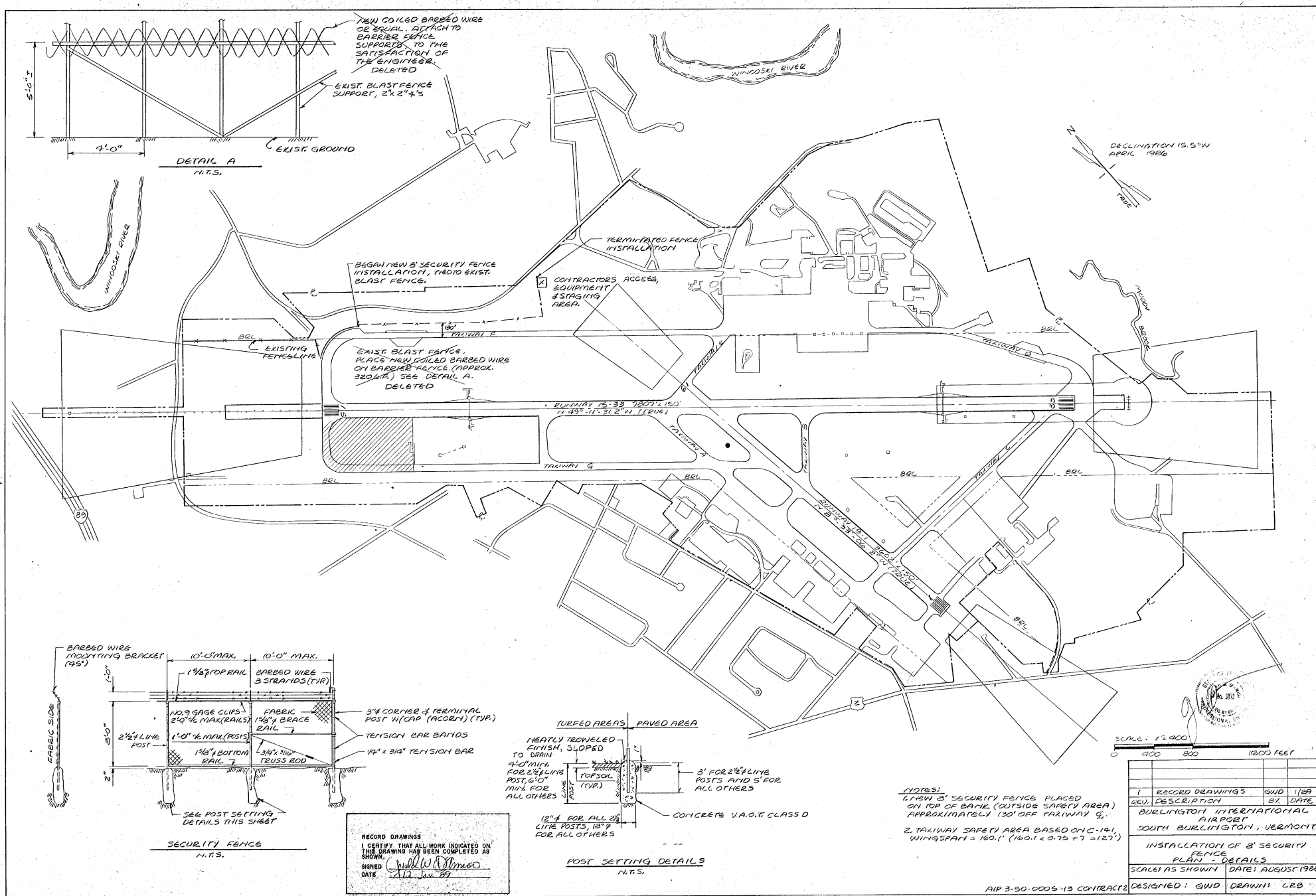
DESIGNER'S STATEMENT REGARDING COMPLIANCE
THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO THE
BEST OF MY KNOWLEDGE AND BELIEF, IN ACCORDANCE WITH CURRENT
FAA ADVISORY CIRCULARS.
BY: *[Signature]* DATE: *Oct 88*
BURLINGTON INTERNATIONAL AIRPORT

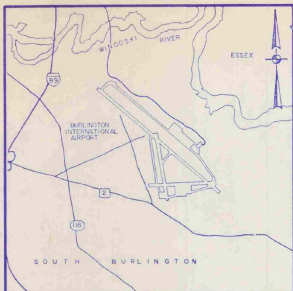
CITY OF BURLINGTON, VERMONT

APPROVED _____ DIRECTOR OF AVIATION
DATE _____
APPROVED _____ CHAIRMAN, BOARD OF AIRPORT COMMISSIONERS
DATE _____

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND REGION

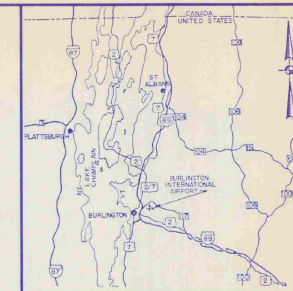
APPROVED _____ MANAGER OF AIRPORT ENGINEERING & SAFETY BRANCH
DATE _____
APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS IN LETTERS
DATED _____





VICINITY MAP
FEET 200 0 400
SCALE: 1" = 400'

CITY OF BURLINGTON VERMONT



LOCATION MAP
MILE 0 1 2
SCALE: 1" = 1 MILE (APPROX)

BURLINGTON INTERNATIONAL AIRPORT

INSTALL EMERGENCY GENERATOR

AIP PROJECT NO. 3-50-0005-13

AIR 03-2068⁷

JUNE 1988

MAJOR ITEM QUANTITIES

ITEM NO.	DESCRIPTION	UNIT
3-1	UNDERGROUND FUEL OIL STORAGE TANK	LUMP SUM
7-1	INSTALL DIESEL ENGINE/GENERATOR	LUMP SUM

INDEX TO DRAWINGS

DWG. NO.	TITLE	SHT. NO.
1	TITLE SHEET	1 OF 7
2	GENERAL PLAN	2 OF 7
3	FUEL TANK INSTALLATION AND MISC. DETAILS	3 OF 7
4	VENTILATION, PIPING AND DETAILS	4 OF 7
5	DEMOLITION PLAN - LTG. AND RECP. PLAN	5 OF 7
6	POWER PLAN	6 OF 7
7	ONE LINES AND ELEMENTARIES	7 OF 7

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED: Richard S. Fagan
DATE: 10/9/89

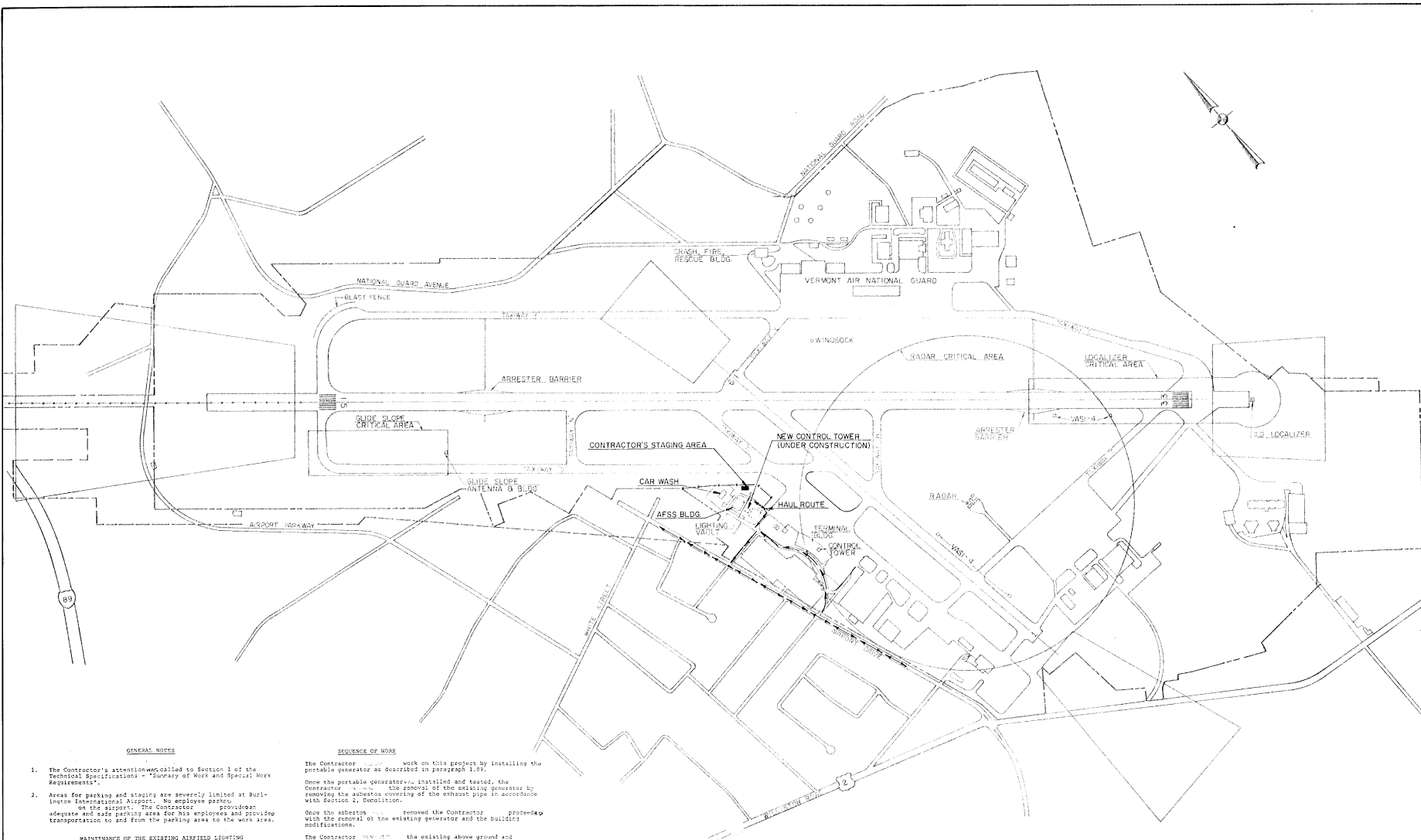
DESIGNER'S CERTIFICATE REGARDING COMPLIANCE
These plans and specifications have been prepared to the best of my knowledge and belief, in accordance with current law, advisory opinions and orders of the Federal Aviation Administration, and I am not aware of any other laws, regulations, orders or decrees which may apply to this project. I am not responsible for any errors or omissions in the project engineering report or other official project documents.

NOTED: PAULER & ASSOCIATES, INC.
BY: PAULER & ASSOCIATES, INC. DATE: 10/9/89
Registration No. 1000000000

OCT 10 1989

"AS BUILT"

CITY OF BURLINGTON, VERMONT APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____		VERMONT AGENCY OF TRANSPORTATION APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____		U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION NEW ENGLAND REGION APPROVED: _____ DATE: _____ APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS IN LETTERS. DATE: _____		<table border="1"> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>BY</th> <th>CHK.</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>Hayle, Tanner & Associates, Inc. engineers/architects/planners/surveyors</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5">6 COMMERCE PARK NORTH • BEDFORD, NH</td> </tr> <tr> <td colspan="5">In association with:</td> </tr> <tr> <td colspan="5">ABR Alonzo B. Reed, Inc. architects/engineers/planners 12 FARNSWORTH ST. • BOSTON, MA</td> </tr> </table>		REV.	DESCRIPTION	BY	CHK.	DATE	1	Hayle, Tanner & Associates, Inc. engineers/architects/planners/surveyors				6 COMMERCE PARK NORTH • BEDFORD, NH					In association with:					ABR Alonzo B. Reed, Inc. architects/engineers/planners 12 FARNSWORTH ST. • BOSTON, MA					CITY OF BURLINGTON, VERMONT BURLINGTON INTERNATIONAL AIRPORT INSTALL EMERGENCY GENERATOR TITLE SHEET SCALE: AS SHOWN DATE: JUNE 1988 DES. BY: JBD DR. BY: CBB CHK. BY: JBD PROJECT NO. 37717 SHEET OF 17 DRAWING NO. 1	
REV.	DESCRIPTION	BY	CHK.	DATE																														
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In association with:																																		
ABR Alonzo B. Reed, Inc. architects/engineers/planners 12 FARNSWORTH ST. • BOSTON, MA																																		



GENERAL NOTES

- The Contractor's attention is called to Section 1 of the Technical Specifications - "Summary of Work and Special Work Requirements".
- Areas for parking and staging are severely limited at Burlington International Airport. No employee parking on the airport. The Contractor shall provide adequate and safe parking area for his employees and provide transportation to and from the parking area to the work area.

MAINTENANCE OF THE EXISTING AIRFIELD LIGHTING

All existing lighting systems on the airport facilities which are open to aircraft shall be operational each night and during inclement weather throughout the construction period.

It shall be the responsibility of the Contractor to check the operation of the existing lighting each day, to notify the Engineer and the Operations Coordinator of any problem and make any repairs necessary due to his operations.

The Contractor shall maintain a portable generator, a 50 KW, 120/240 V, 3 phase, portable engine generator and connect it to a generator to the existing transfer switch to automatically provide power to the airfield lighting systems in case of the loss of commercial power.

It shall be the Contractor's responsibility to check the operation of the generator each day to insure that generator will operate the airfield lighting in an emergency.

The portable generator shall be installed prior to any work on the existing generator and shall be in place until the new generator is installed, tested, and accepted. The Contractor shall furnish, install, and maintain materials necessary to install the temporary generator and make any temporary connections to keep the existing airfield lighting operational until the new generator is installed, tested and accepted.

SEQUENCE OF WORK

The Contractor shall work on this project by installing the portable generator as described in paragraph 1.05. Once the portable generator is installed and tested, the Contractor shall remove the existing generator by removing the asbestos covering of the exhaust pipe in accordance with Section 2, Demolition.

Once the asbestos is removed the Contractor shall proceed with the removal of the existing generator and the building modifications.

The Contractor shall remove the existing above ground and underground fuel tanks in accordance with Section 2, Demolition. The new underground fuel tank shall be installed in approximate the same location as the existing underground tank.

The Contractor shall maintain his operations in such a manner as to maintain access at all times to the rental car parking lots and car wash which are adjacent to the lighting vault.

SIMULTANEOUS CONSTRUCTION

The Contractor is hereby notified that contractor(s) for the Federal Aviation Administration is constructing a new Air Traffic Control Tower adjacent to the Automated Flight Service Station and Contractor(s) for Burlington International Airport will be constructing the north end of the Terminal apron. The Contractor on both projects shall be working in and around the lighting vault.

DISPOSAL AREA

No disposal of materials from this project shall be permitted on airport property.

The Contractor, legally, shall dispose of all materials off airport property in all accordance with Section 2, Demolition.

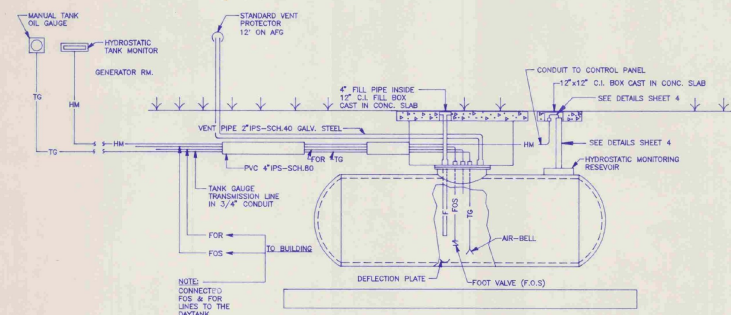
I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED Richard S. Fife
DATE 10/1/89

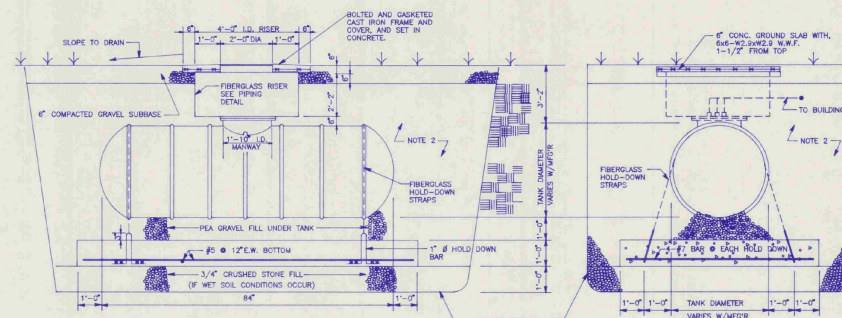
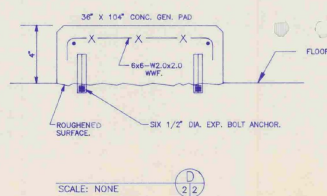
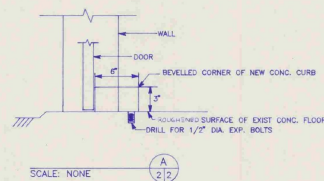
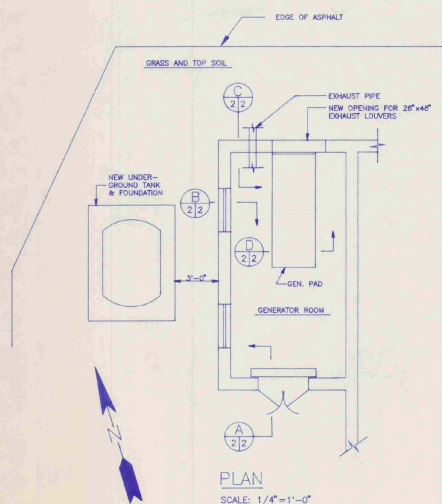
"AS BUILT"

ENGINEER/ARCHITECT		PROJECT NO.		37717	
Hoyte, Tanner & Associates, Inc.		DATE		JUNE 1988	
17 Pleasant St. Burlington, VT 05401		DRAWN BY		JBD	
ALONZO B. REED, INC.		CHECKED BY		JBD	
17 Pleasant St. Burlington, VT 05401		DATE		JUNE 1988	
SCALE 1"=400'		DESCRIPTION		GENERAL PLAN	
BURLINGTON INTERNATIONAL AIRPORT		DRAWING NO.		2	
SOUTH BURLINGTON, VERMONT		SHEET		2 OF 7	

DO NOT SCALE DRAWING



MECHANICAL PIPING DETAIL
NO SCALE



SIDE VIEW

END VIEW

UNDERGROUND FUEL OIL TANK DETAILS
NO SCALE

GENERAL NOTES

1. NEW TANK IS PE 550 GAL. MINIMUM; DOUBLE WALL FIBERGLASS. PROVIDED NEW PIPING FROM TANK TO GENERATOR ROOM.
2. BACKFILL ENTIRE EXCAVATION, EXCEPT WHERE OTHERWISE NOTED, WITH 1/8\"/>

LEGEND

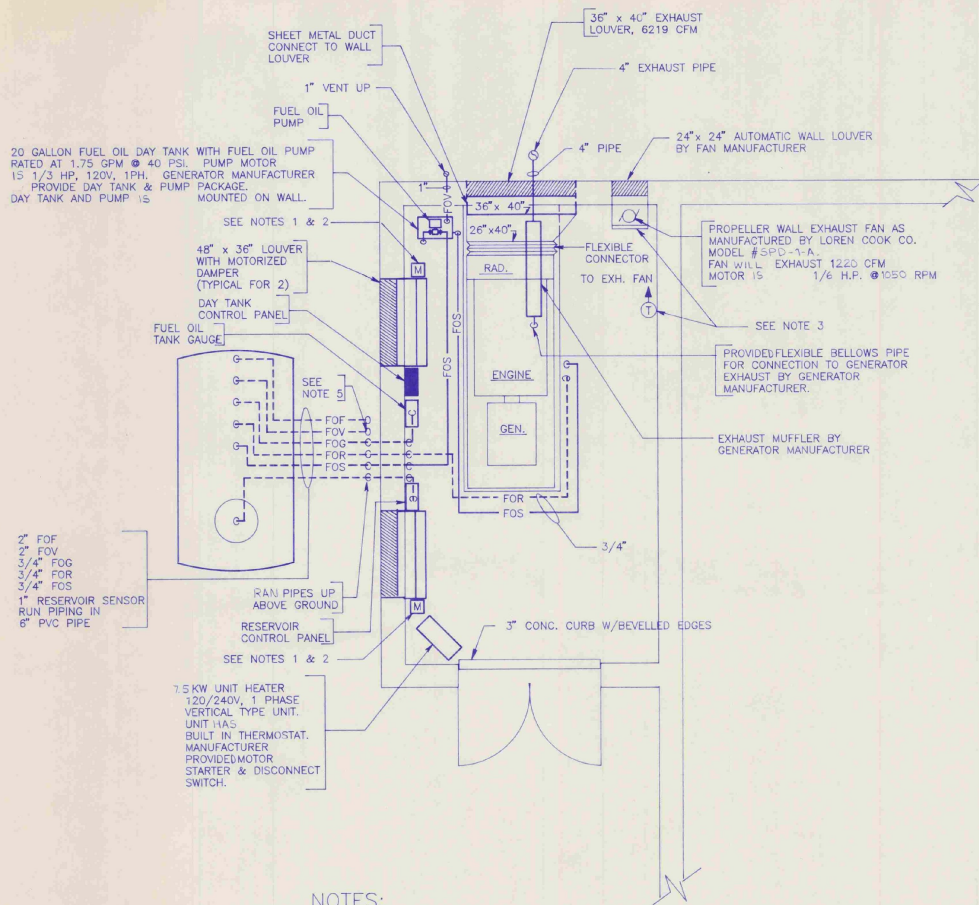
- FOS— FUEL OIL SUPPLY
- FOR— FUEL OIL RETURN
- F— FILL PIPE
- V— VENT PIPE
- TG— TANK GAUGE LINE
- HM— HYDROSTATIC MONITORING

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED: *Richard J. Fagan*
DATE: 10/9/88

"AS BUILT"

ENGINEER/ARCHITECT		PROJECT NO. 37717		SCALE: AS SHOWN		DATE: JUNE, 1988		SEE: BY: JDC		CHD: BY: DGF	
REVISED "AS-BUILT"		REVISED "AS-BUILT"		REVISED "AS-BUILT"		REVISED "AS-BUILT"		REVISED "AS-BUILT"		REVISED "AS-BUILT"	
BURLINGTON INTERNATIONAL AIRPORT SOUTH BURLINGTON, VERMONT INSTALL EMERGENCY GENERATOR FUEL TANK INSTALLATION & MISC. DETAILS ARCHITECTURAL/STRUCTURAL		Hoyle, Tamer & Associates, Inc. Five Commerce Bldg. North Bedford, NH 03102 (603) 888-5555 HFA Companies		DO NOT SCALE DRAWING		DRAWING NO. 3		SHEET 3 OF 7		DATE: 10/9/88	



NOTES:

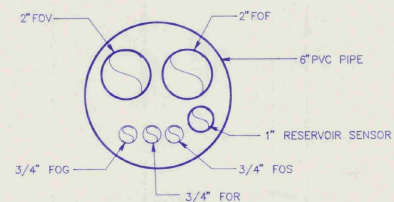
1. MOTOR OPERATOR FOR DAMPER IS NORMALLY OPEN. DAMPER WILL BE CLOSED UNDER NORMAL OPERATION. PROVIDED SPRING RETURN ON MOTOR OPERATOR TO OPEN DAMPER WHEN THERE IS A POWER FAILURE.
2. MOTOR OPERATOR FOR DAMPER IS INTERLOCKED WITH THE WALL EXHAUST FAN TO OPEN WHEN EXHAUST FAN STARTS.
3. ELECTRIC WALL THERMOSTAT WILL ENERGIZE EXHAUST FAN WHEN SPACE TEMPERATURE IS 90° F OR ABOVE.
4. ALL LOUVERS HAVE BIRD SCREENS AND INSECT SCREENS.
5. FUEL OIL VENT RISES 12'-0" ABOVE FINISHED FLOOR.

VENTILATION - PIPING PLAN

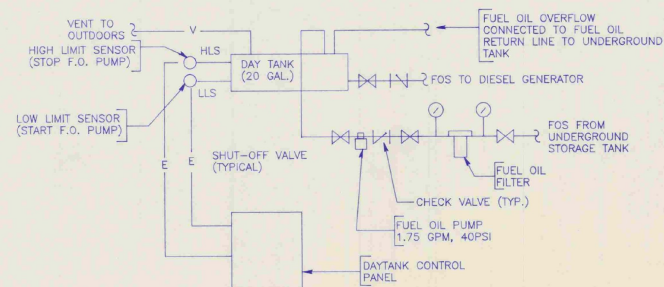
SCALE: 1/2" = 1'-0"

LEGEND

- PIPE TURNED UP
- ◐ PIPE TURNED DOWN
- ▬ WALL LOUVER
- ▬ MOTORIZED DAMPER
- ▬ BACKDRAFT DAMPER
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- FOF FUEL OIL FILL
- FOV FUEL OIL VENT
- FOG FUEL OIL GAUGE



TYPICAL UNDERGROUND PIPING DETAIL
SCALE: NONE



FUEL OIL PIPING SCHEMATIC

SCALE: NONE

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED: *Richard J. Filler*
DATE: 10/12/89

"AS BUILT"

ENGINEER/ARCHITECT		PROJECT NO.		DATE	
37717		JUNE, 1988		REV. 1	
Hoyle, Tanner & Associates, Inc.		DATE		BY	
1001 North Bedford Ave. North Bedford, NH 03102 (603) 868-5555		RJR		WDJ/C	
SCALE AS SHOWN		DATE		BY	
JUNE, 1988		RJR		WDJ/C	
BURLINGTON INTERNATIONAL AIRPORT		DRAWING NO.		SHEET	
SOUTH BURLINGTON, VERMONT		4		4 OF 7	
INSTALL EMERGENCY GENERATOR		MECHANICAL			
VENTILATION, PIPING & DETAILS					

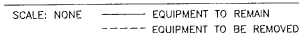
GENERAL NOTES

1. REMOVED EXISTING ENGINE/GENERATOR, PAD, PANEL, BATTERY CHARGE, CONTROL PANEL, LIGHTING FIXTURES, RECEPTACLES, SWITCHES, BRANCH CIRCUITS, DAMPERS, DAMPER MOTORS, CONTROL CONDUIT, FEEDERS AND FEEDER CONDUITS FROM GENERATOR ROOM. (SEE ONE LINE DIAG. SH. 2)
2. REMOVED EXISTING GENERATOR SAFETY SWITCH, TRANSFORMER, FEEDER AND CONDUITS. REMOVE GENERATOR ROOM PANEL FEEDER FROM EXISTING WIRE WAY. SERVICE SWITCH, ATS, MIP (1), MIP (2) AND OTHER AIRFIELD LIGHTING EQUIPMENT NOT SHOWN REMAINED. (SEE ONE LINE DIAG. SH. 7)
3. EXISTING GENERATOR FUEL OIL TANKS, PIPING AND PETROLEUM CONTAMINATED SOIL. REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES AND REGULATIONS. CERTIFIED REPORTS OF ROUTING AND FINAL DISPOSAL OF EQUIPMENT.
4. CONTRACTOR REMOVED TWO EXISTING 30" X 84" LOUVERED DOOR. DOOR FRAME REMAINED FOR RE-USE. CONTRACTOR PLASTERED AND INSTALLED TWO NEW FIRE RATED DOORS.
5. WHEN REMOVING THE EXISTING GENERATOR AND CONCRETE PAD, THE EXISTING SYSTEM GROUNDING CONDUCTOR, WAS RECONNECTED TO THE NEW GENERATOR.
6. EXISTING ASBESTOS COVERED EXHAUST PIPE WAS REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH EPA AND LOCAL AUTHORITIES REGULATIONS. THIS INCLUDES CERTIFIED REPORTS OF ROUTING AND FINAL DISPOSAL OF MATERIAL.
7. ALL CONDUITS WITH 60 HZ POWER CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUND (EG) CONDUCTOR SIGNAL IN ACCORDANCE WITH THE NEC.
8. REMOVED ASBESTOS CEILING MATERIALS AND INSTALLED NEW AL PLINWOOD CEILING.

DEMOLITION PLAN
SCALE: 1/4"=1'-0"

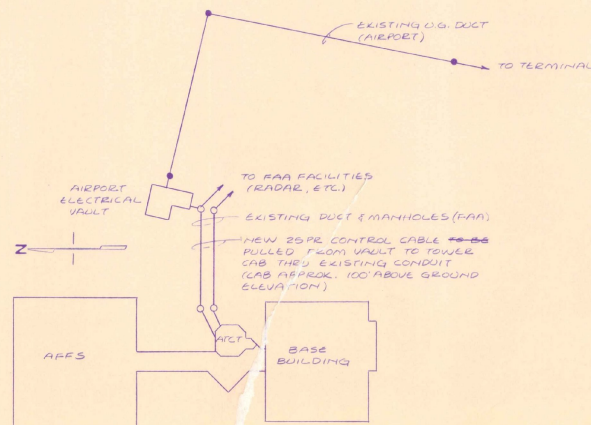
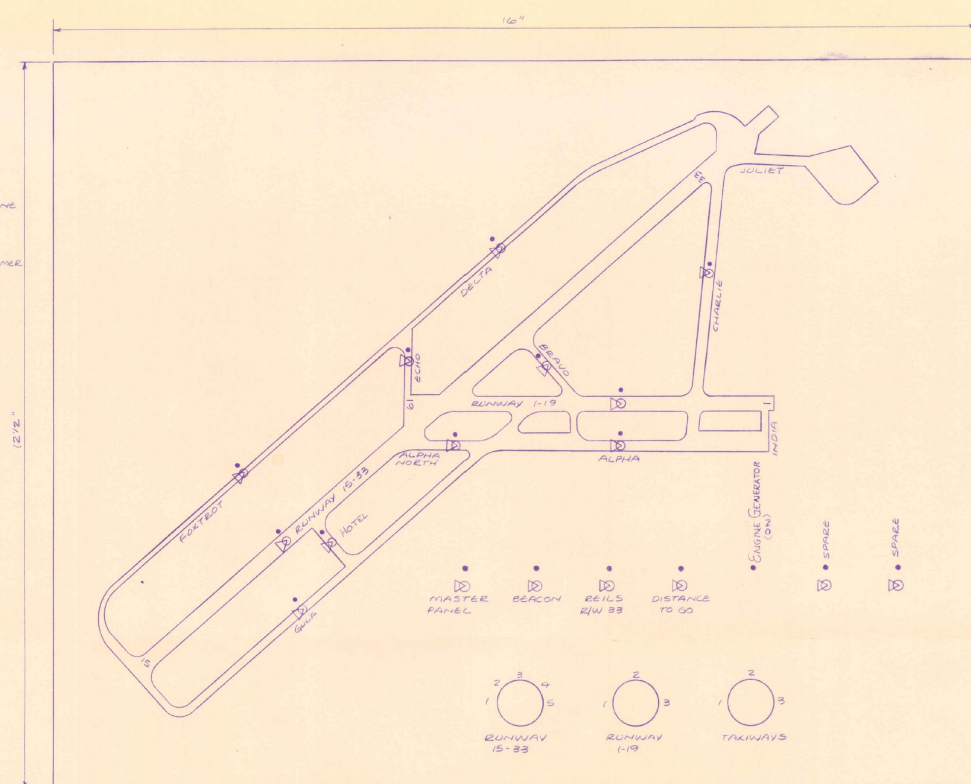
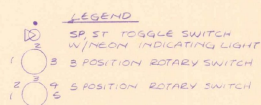
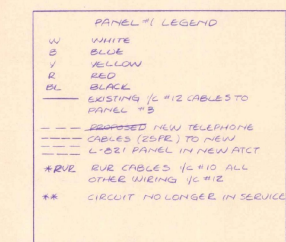
LTG. RECP. & COMM. PLAN
SCALE: 1/4"=1'-0"

MANS: 100 AMP				BUS: ☐ AL ☒ CU				MOUNTING: ☐ FLUSH ☒ SURFACE				CHARACTERISTICS 120/240 VOLTS				LOADS:															
☐ MLD				☒ MAIN CKT BKR				☐ TOP ☐ BOTTOM				☐ 1 PHASE ☒ 3 WIRE				REMARKS: SHORT CKT I.C. OF BRKS: 10,000 AMPS. SYM. MIN.															
☐ TOP				☒ TOP																											
☐ BOTTOM				☐ BOTTOM																											
☒ SLD NEUT (ISOLATED)				☐ FR 100				TR 100																							
☒ GND BUS				POLES 2				CLASS N.A.				PANEL: L1																			



- SIGNED Richard S. Fifer
DATE 10/4/89

"AS BUILT"



PANEL NOTES

- 1. REPLACE PANEL CONFORMING AIA SPECIFICATION FOR REMOTE CONTROL LIGHTING PANELS, A.C. 150/5845-3D. PANEL ~~TO BE~~ TYPE II, CLASS I, STYLE I.
- 2. ELIMINATE A TAILWAY LAYOUT ~~TO BE PAINTED~~ ~~ON~~ ~~THE~~ ~~EXISTING~~ ~~CONTROL~~ ~~PANEL~~ ~~PLATE~~ AS SHOWN. AIRPORT LAYOUT TO CONTRAST WITH PANEL BACKGROUND (LAYOUT WHITE WITH BROWN BACKGROUNDS).
- 3. ALL LAYOUT LETTERING ~~TO BE~~ ~~3/16"~~ ~~HIGH~~ ~~COLOR~~ ~~BLACK~~ (RUNWAYS) & WHITE (TAXIWAYS).
- 4. ALL PANEL WIRING ~~TO BE~~ ~~1/2"~~ ~~IN~~ ~~DIAMETER~~ ~~OTHERWISE~~ ~~NOTED~~.
- 5. PANEL SWITCHPLATES ~~TO BE~~ ~~ENGRAVED~~ ~~BAKELITE~~ ~~WHITE~~ ~~LETTERING~~ ~~TO BE~~ ~~3/16"~~ ~~HIGH~~ ~~COLOR~~ ~~BLACK~~ ~~BACKGROUND~~.
- 6. NEW PANEL ~~TO BE~~ ~~PAINTED~~ ~~ON~~ ~~EXISTING~~ ~~CONSOLE~~ ~~IN~~ ~~ATCT~~ ~~CAB~~.
- 7. AIRPORT ROTATING BEACON CONTROL CABLES ~~TO BE~~ ~~INSTALLED~~ ~~FROM~~ ~~TERMINAL~~ ~~6MM~~ ~~W/3~~ ~~THRU~~ ~~AIRPORT~~ ~~DUCT~~ ~~TO~~ ~~NEW~~ ~~CONSOLE~~ ~~IN~~ ~~ATCT~~ ~~CAB~~.
- 8. INSTALL NEW SURGE (LIGHTNING) PROTECTION ON INCOMING CONTROL CABLES IN BASEMENT OF ATCT. SURGE PROTECTION DEVICE ~~TO BE~~ ~~SUPPLIED~~ ~~BY~~ ~~FAA~~ - ~~A~~ ~~F~~.
- 9. 120V SUPPLY FOR INDICATING LAMPS ~~PRO~~ ~~VID~~ ~~ED~~ ~~AT~~ ~~LIGHTING~~ ~~PANEL~~ ~~LOCATING~~ ~~(FROM~~ ~~TOWER~~ ~~CAS~~ ~~STATION)~~.
- 10. MASTER SWITCH CONTROL 120V SUPPLY TO INDICATIVE LAMPS - ONLY.
- 11. 600V, 12 AMP CABLE ASSEMBLY FOR INDICATING LAMPS RUN IN SEPARATE (PARALLEL) CURRENT PLAIN. VOLTAGE TO L-221 PANEL. AIP 3-50-0005-3 C/2.

" AS BUILT

I HEREBY CERTIFY THAT ALL WORK
REQUIRED BY THIS DRAWING HAS
BEEN COMPLETED AS INDICATED
Charles W. Damore SMARCH 1
AIRPORT ENGINEER DATE

BURLINGTON INTERNATIONAL AIRPORT AIP 03-2067 SOUTH BURLINGTON, VERMONT	
AIP 3-50-0005-13 CCO"Z INSTALL HEWL-821 PANEL IN AIR TRAFFIC CONTROL TOWER	
DESIGN BY: G.W.D.	DATE: JULY, 1989
DRAWN BY: LRB	SCALE: NONE

Phase III
#090303-01



INITIALS

Hanger 4972 DONE

BURLINGTON VERMONT AGENCY OF TRANSPORTATION
PLANNING DIVISION

STATES, INC.

S

HOYLE, TANNER

BOELINGTOWN
AIP 3-50-0005-13 1988
AIE 03-2067 1988
1988 AS BUILT

Vermont Agency of
Transportation
Phase III
#090303-01
Hanger 4976

INITIALS

Phase III
#090303-01



INITIALS

Hanger 4977^{BONE}

STV - 1990
AIR 03-2067
AIP 3-50-0005-13

**VERMONT AGENCY OF TRANSPORTATION
PLANNING DIVISION**